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The American Granby Advantage

Why do business with American Granby

- ☺ The Original Source of Vendor Consolidation™
- ☺ Highest Quality Products
- ☺ Extensive Product Offering
- ☺ Easily Understood Discounts
- ☺ Fast, Accurate Shipments
- ☺ Knowledgeable Customer Service Dept.

American Granby Sales Representative:

Name _____

Address _____

City _____ State_____ Zip _____

Phone_____ Fax _____

Cell _____ Email _____

For shipping information or to place orders contact:

American Granby US Customer Sales Department
Phone: 800-776-2266
315-451-1100
Fax: 800-729-3299
Email: customerservice@americangranby.com

In Canada:
Phone: 800-268-7570
Fax: 905-629-3204
Email: sales@cbsupplies.ca

Address mail orders or other correspondence to:

American Granby, Inc.
7652 Morgan Road
Liverpool, NY 13090 USA

CB Supplies
6825 Maritz Drive
Mississauga, ON L5W 1W2

Contact us on the web at ***americangranby.com***

State-of-the-art Warehouse





Since 1962, American Granby has served the water systems, pool & spa, turf irrigation and plumbing & heating markets in North America and around the world.

The 2006 construction and 2016 expansion of our new state of the art distribution facility is only a small part of our continued commitment to serve our customers now and well into the future.













americangranby.com
Ph: 800-776-2266 Fax: 800-729-3299

Terms & Conditions of Sale

1. When ordering material please use American Granby Inc. (AGI) part number, size and other definitive information necessary. AGI reserves the right to correct clerical errors or omissions in quotations or other documents.
2. ORDERS AND CONTRACTS: Subject to acceptance at the office in Liverpool, New York. Any statement in an order of contract which modifies AGI's Terms and Conditions as set forth here, must first be accepted in writing by AGI. Any order cancelled after acceptance by AGI is subject to a 25% cancellation charge.
3. PRICES AND QUOTATIONS: Orders will be invoiced at the prices in effect at the time of shipment. Unless otherwise specified, prices are F.O.B. point of shipment. All prices and quotations are subject to change without notice. Items not listed in this catalog will be quoted on application.
4. MINIMUM ORDERS: All orders under $50.00 will be charged $10.00 to cover order handling expenses.
5. TAXES: Any tax that may be imposed by law on the sale of articles made or sold by this company shall be added to the sale price of such articles.
6. TERMS: 2% 15 days, Net 30 Days unless otherwise noted. CASH DISCOUNTS TAKEN BEYOND TERMS STATED ON THE INVOICE WILL BE DISALLOWED.
7. FREIGHT & DELIVERY: All merchandise shipped FOB point of shipment. Full freight allowed on shipments from the AGI warehouse within the continental US for orders totalling **$1800** net. Shipments to Puerto Rico are prepaid at **$5000** net. Other shipments outside the continental US are prepaid and allowed to closest inland point based on above net minimums. The individual manufacturer's freight will supersede AGI's freight policy on drop ship items. Special order items are not subject to prepaid freight allowances.

Additional Freight Charges: Additional fees for residential, remote areas, lift gate service or any special circumstance deliveries from the freight carrier will be the responsibility of the receiver of the shipment and a separate invoice will be issued upon receipt of notification of such charges. This applies to any freight prepaid, freight allowed or prepay and add invoices. The receiver of the shipment is to pay all additional fees.

8. SPECIAL PRODUCTS/ORDERS: Requests for cancellation of these orders will not be considered if the manufacture of the product is in process or the special product has already been shipped by the manufacturer when the customer's request for cancellation reaches the home office. Special orders for non-cataloged items, or products made to customer's specifications can not be returned for any refund. Special order items are not subject to prepaid freight allowances.
9. WARRANTY: All products, with the exception of chemical feed pumps are warranted to authorized distributors/wholesalers purchasing from AGI as to workmanship and material for a period of one year from date of sales by AGI, when the products are used in recommended service. AGI's liability and its customer's exclusive remedy under this warranty, expressed or implied is limited to repair, replacement or credit at AGI's option, for such parts as proven defective. If such product(s) or part(s) are returned, shipping charges must be prepaid, to AGI at its factory at 7652 Morgan Road Liverpool, NY 13090. AGI will examine such product(s) or part(s) promptly upon arrival. If a defect covered by this warranty is found, AGI will, in its sole discretion, either repair the defect or replace the defective part(s) or allow a credit for the defective part(s). If a part is replaced, it is a condition of this warranty that AGI be allowed to keep the returned part. Costs of shipping all parts or products back to the distributor/wholesaler shall be solely the responsibility of the distributor/wholesaler; repairs and replacements are furnished F.O.B. AGI's factory only.
NOTE: This warranty is extended to distributors/wholesalers who have purchased products covered from AGI. AGI extends no warranty of such products to "consumers", as that term is defined in the Magnuson-Moss Warranty-Federal Trade Commission Improvement Act (14 U.S.C. 2301 et. seq.), and the regulations promulgated thereunder. There are no warranties other than those contained in this statement, and neither any representation or affirmation made nor any drawing or sample shown, shall be deemed to create any warranty or standard of performance. In the event that any AGI product is modified at any place other than the point of original manufacture, this warranty is null and void. The warranty set forth in this paragraph is made expressly in lieu of all other warranties expressed, implied or statutory, including, but not limited to, warranties with respect to quality, merchantability, or fitness of a particular purpose.
10. LIMITATION OF LIABILITY: The exclusive remedy to which AGI may be subjected by reason of any breach of warranty, or in connection with any goods supplied by AGI, or by reason of any breach of agreement shall be for damages and the amount of damage for which AGI shall be liable shall be limited in accordance with the provisions hereof. AGI's liability for any and all losses and damages to purchaser or any other person resulting from any breach of any warranty by which AGI may be bound, from any damaged or defective goods supplied by AGI (regardless of whether any said defect shall be discoverable or latent), failure to deliver, breach of agreement, or any other cause whatsoever, including AGI's negligence, shall in no event exceed the purchase price of the particular goods with respect to which losses or damages are claimed, or at the election of AGI, the repair or replacement of defective or damaged goods. In no event, including a claim of negligence, shall AGI be liable for incidental or consequential damages as defined in Section 2-715 of the Uniform Commercial Code. Without limitation to the foregoing, in no event shall American Granby be liable for the loss of use of the product, process, plant, equipment or facilities of the purchaser or the end-user whether partially or wholly due to defects in material and/or workmanship and/or design of AGI's product and in no event shall AGI be liable for expenses necessary to remove or reinstall any product supplied by AGI, or for any damages to other property or equipment resulting from any such removal or reinstallation. Damages resulting from improper storage, improper product rotation, improper handling, freezing, improper installation, fire or any act of God will not be considered by AGI as its liability. AGI will not assume any expenses or liability for repairs or modifications made to its products, without its written consent.
11. DELIVERY: AGI's responsibility ceases upon delivery to any common carrier. AGI does not, unless under previous written agreement, insure shipments beyond the point of delivery to such carrier. AGI shall not be responsible for delays resulting from strikes, accidents, negligence of carriers, or any other causes beyond our control. AGI may, during a period of shortage due to causes beyond its control, prorate the supply of its products among all of its customers in such a manner as may be deemed equitable at the sole discretion of AGI.
12. RETURNED GOODS: Materials may not be returned unless authorization has first been obtained from the Liverpool, NY office. AGI reserves the right to refuse acceptance of deliveries of materials returned without this consent. All returns of saleable goods will be subject to a 25% restocking/handling charge. All authorized returned goods must be shipped prepaid by the customer. Returns accepted within 30 days from date of authorization only.
13. ERRORS, SHORTAGES, ETC: Claims for errors, shortages, etc. must be made within 30 days of receipt of goods, otherwise no allowance will be made. WHEN PRODUCTS ARE SHIPPED ON WRAPPED PALLETS, INDIVIDUAL CARTONS MUST BE COUNTED UPON RECEIPT. ANY SHORTAGES OR OTHER DISCREPANCIES MUST BE NOTED ON THE DELIVERY RECEIPT AT THE TIME OF RECEIPT OR CLAIMS WILL BE CONSIDERED WAIVED.
14. PRODUCT CHANGES: AGI reserves the right to make changes in pattern, design or materials when deemed necessary, without prior notice. Products which have become obsolete by reason of design change or discontinued as a manufactured item may not be returned for any refund.
15. EXPORT: Additional charges quoted upon application for export packaging and crating.

Family of Brands

American Granby was established in 1962 to serve the distribution needs of the wholesale market. With the birth of American Granby came the concept of "Vendor Consolidation."™ We strive to provide you with the products you need and the service you deserve. The following supplier partners have made our mission possible and we thank them.

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Ph: 800-776-2266 Fax: 800-729-3299

American Granby™

P

POOL & SPA



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NGWA The Groundwater Association

ASA AMERICAN SUPPLY ASSOCIATION

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Ph: 800-776-2266 Fax: 800-729-3299

Pool Floats



IF Series



HF Series



RBF Series

HARVARD Handi-Lock® Float Features:

- Made of polyethylene and treated with chlorine inhibitors and ultraviolet stabilizers for durability and long life.
- Self locking feature fixes on line without additional expense of float keepers or wedges.
- Three sealed compartments for optimum buoyancy in case of puncture.
- Three inside diameters to accommodate 3/8", 1/2" or 3/4" rope (either hollow braid or twisted).
- Patented. Made in the USA

HARVARD High Impact Styrene Float Features:

- Blue and white high impact styrene.
- Fits 3/8" hollow braid rope.

HARVARD Rainbow Style Float Features:

- Polyethylene
- Unsinkable
- Durable
- Chlorine inhibitors and ultraviolet stabilizers added.
- 3" x 5" for 1/2" pool rope and 5" x 9" for 3/4" pool rope available.

Part Number	Float Size	Rope Size	Color	Ctn Qty
IF3538	3" x 5"	3/8"	Blue/White/Blue	50
IF3538R	3" x 5"	3/8"	Red/White/Red	50
IF3538O	3" x 5"	3/8"	Orange/White/Orange	50
IF3550	3" x 5"	1/2"	Blue/White/Blue	50
IF3550R	3" x 5"	1/2"	Red/White/Red	50
IF3550O	3" x 5"	1/2"	Orange/White/ Orange	50
IF3550RWB	3" x 5"	1/2"	Red/White/Blue	50
IF3550 ALL BLUE	3" x 5"	1/2"	Blue/Blue/Blue	50
IF3550 ALL RED	3" x 5"	1/2"	Red/Red/Red	50
IF3550 ALL WHITE	3" x 5"	1/2"	White/White/White	50
IF5950	5" x 9"	1/2"	Blue/White/Blue	24
IF5950R	5" x 9"	1/2"	Red/White/Red	24
IF5950O	5" x 9"	1/2"	Orange/White/Orange	24
IF5950W	5" x 9"	1/2"	White/White/White	24
IF5975	5" x 9"	3/4"	Blue/White/Blue	24
IF5975R	5" x 9"	3/4"	Red/White/Red	24
IF5975O	5" x 9"	3/4"	Orange/ White/Orange	24
IF5975RWB	5" x 9"	3/4"	Red/White/Blue	24
HF35	3" x 5"	3/8"	Blue/White	10
RBF35BW	3" x 5"	1/2"	Blue/White	100
RBF35RW	3" x 5"	1/2"	Red/White	100
RBF35YW	3" x 5"	1/2"	Yellow/White	100
RBF35W	3" x 5"	1/2"	Solid White	100
RBF59BW	5" x 9"	3/4"	Blue/White	24
RBF59RW	5" x 9"	3/4"	Red/White	24
RBF59YW	5" x 9"	3/4"	Yellow/White	24
RBF59WHITE	5" x 9"	3/4"	Solid White	24
RBF59RED	5" x 9"	3/4"	Solid Red	24

Pool Rope and Float Kits



IFK Series

IFK Series Float Kit Features:

- Blue and White Handi-Lock® Floats packaged for 16', 18', 20', 22' and 25' pools.
- Each partially assembled kit contains rope, Handi-Lock® Floats, 2 chrome plated brass rope hooks, splicing FID, and a full set of illustrated instructions.
- Individually packaged in shelf stackable boxes.
- 4 kits per master carton.



RFK Series

RFK Series Float Kit Features:

- Blue and White styrene float lane markers packaged for 12', 14' 16', 18' 20', 22' and 25' pools.
- Completely assembled and ready to install.
- Each individually bagged kit contains braided polypropylene rope with attractive blue/white floats, prefixed at regular intervals and two chrome plated brass hook eyes.

Part Number	Pool Size	Rope Length	Rope Size	Floats	Ctn Qty
IFK16	16'	18'	3/8"	5	4
IFK18	18'	20'	3/8"	6	4
IFK20	20'	22'	3/8"	7	4
IFK22	22'	24'	3/8"	7	4
IFK25	25'	27'	3/8"	8	4
RFK12	12'	14'	3/8"	5	6
RFK14	14'	16'	3/8"	5	6
RFK16	16'	18'	3/8"	5	6
RFK18	18'	20'	3/8"	7	6
RFK20	20'	22'	3/8"	9	4
RFK22	22'	24'	3/8"	9	4
RFK25	25'	27'	3/8"	10	4
RFK30	30'	28'	3/8"	14	1

Custom Float Kits also available on a special order basis.

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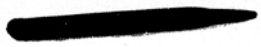
Pool Rope - Twisted/Braided



PR Series



BPR Series



FID

Pool Rope Features:

- Polypropylene.
- Floatable.
- Waterproof.
- Rot Resistant.
- Easy to Handle.
- Resists Oil and Gasoline.
- Resists Most Chemicals.
- Resistant to Abrasion.
- Resistant to Color Fading.

Part Number	Color	Diameter	Length
Twisted Pool Rope			
YR25-500	Solid Yellow	1/4"	500’
PR25-6	Blue/White	1/4"	600’
YR25-1	Solid Yellow	1/4"	1000’
PR38-3R	Red/White	3/8"	300’
PR38-3W	Solid White	3/8"	300’
PR38-4	Blue/White	3/8"	400’
PR38-6	Blue/White	3/8"	600’
PR38-6R	Red/White	3/8"	600’
PR38-6O	Orange/White	3/8"	600’
PR38-6W	Solid White	3/8"	600’
PR38-6Y	Solid Yellow	3/8"	600’
PR50-3	Blue/White	1/2"	300’
PR50-3R	Red/White	1/2"	300’
PR50-3O	Orange/White	1/2"	300’
PR50-6	Blue/White	1/2"	600’
PR50-6R	Red/White	1/2"	600’
PR50-6O	Orange/White	1/2"	600’
PR50-6W	Solid White	1/2"	600’
PR50-6Y	Solid Yellow	1/2"	600’
PR58-6	Blue/White	5/8"	600’
PR75-3	Blue/White	3/4"	300’
PR75-3R	Red/White	3/4"	300’
PR75-3O	Orange/White	3/4"	300’
PR75-3W	Solid White	3/4"	300’
PR75-6	Blue/White	3/4"	600’
PR75-6R	Red/White	3/4"	600’
PR75-6O	Orange/White	3/4"	600’
PR75-6W	Solid White	3/4"	600’
PR75-6Y	Solid Yellow	3/4"	600’
PR75-1	Blue/White	3/4"	1000’
Braided Pool Rope			
BPR38-5	Blue/White	3/8"	500’
Splicing Fid			
FID	Splicing Fid, For 3/8" braided rope		

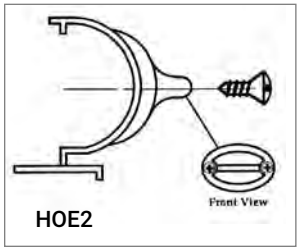
Pool Rope Anchors & Hooks

Chrome Plated Brass Rope Accessory Features:

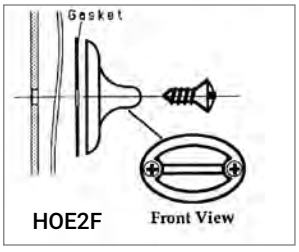
- Bright chrome finished brass rope accessories.
- Precision cast from corrosion resistant brass.
- Stainless steel fasteners.
- Black or White EPDM gaskets.
- Fully assembled.



HOE2



HOE2



HOE2F

Part Number	Description	Ctn Qty
HOE2	Chrome Plated Brass CURVED COPING MOUNT Oval Rope Anchor (Set of 2 w/ ss self tap screws)	72
HOE2F	Chrome Plated Brass FLAT WALL MOUNT Oval Rope Anchor (Set of 2 w/ ss self tap screws, EPDM gasket)	6/72
HCA	Chrome Plated Brass Cup Anchor for concrete pools.	12/120
HEBA	Chrome Plated Brass wall mount eye with washer gasket and nut for vinyl liners. 1-3/8" long bolt	20/200
HPRS	Chrome Plated Strap Type Rope Anchor used under coping for vinyl pools. 14" long	12/252
HRH	Chrome Plated Brass "S" Rope Hook for 1/4"-1/2" rope	500
AGHP52	CLEAT Style Chrome Plated Brass Hook for 3/8" & 1/2" rope w/ ss screws	125
AGHP53	CLEAT Style Chrome Plated Brass Hook for 3/4" rope w/ ss screws	125



HCA



HEBA



HPRS



HRH



AGHP

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Unions - PVC Sch 80



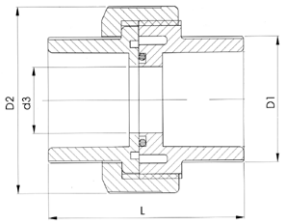
ISO 9002

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

NSF
Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

PVC Sch 80 Union Features:

- Ideal for swimming pool, spa and plumbing installations.
- EPDM O-Ring seal.
- Working pressure: 150 PSI at 72ºF, 100 PSI at 120ºF.
- Meets ASTM standards for Schedule 80 construction.
- Manufactured for AGI in an ISO 9002 facility.
- NSF listed.
- Available white or gray.
- **Third party certified NSF/ANSI 61&372.**



DIMENSIONS (IN.)	SIZE	d3	D1	D2	L
	1/2"	.51	1.21	1.80	2.11
	3/4"	.71	1.45	2.15	2.42
	1"	.92	1.76	2.58	2.69
	1 1/4"	1.17	2.11	3.20	3.32
	1 1/2"	1.52	2.54	3.83	3.40
	2"	1.92	3.05	4.68	3.71
	3"	2.84	3.52	6.10	4.96
	4"	3.94	4.52	8.86	6.30

MATERIAL SPECIFICATIONS	
Body	PVC
End Connector	PVC
Union Nut	PVC
O-Ring	EPDM

Part Number			IPS Size	Ctn Qty
SCHEDULE 80 - WHITE				
SLIP X SLIP	**FIPT X FIPT**	**SLIP X FIPT**		
PV797-1/2	PV798-1/2		1/2"	36
PV797-3/4	PV798-3/4		3/4"	24/144
PV797-1	PV798-1		1"	12/96
PV797-11/4	PV798-11/4		1 1/4"	12/96
PV797-11/2	PV798-11/2	PV799-11/2	1 1/2"	8/64
PV797-2	PV798-2		2"	4/48
SCHEDULE 80 - GRAY				
slip x slip	**FIPT x FIPT**			
PV697-1/2	PV698-1/2		1/2"	36/288
PV697-3/4	PV698-3/4		3/4"	24/144
PV697-1	PV698-1		1"	12/96
PV697-11/4	PV698-11/4		1 1/4"	12/96
PV697-11/2	PV698-11/2		1 1/2"	8/64
PV697-2	PV698-2		2"	4/48
PV697-3	PV698-3		3"	2/12
PV697-4			4"	1/4

Replacement O-Ring for PV797, PV798, PV799, PV697, PV698		
PV796-1/2	1/2"	1
PV796-3/4	3/4"	1
PV796-1	1"	1
PV796-11/4	1 1/4"	1
PV796-11/2	1 1/2"	1
PV796-2	2"	1
Union Repair Split Nut		
SNR150	1 1/2" FBT Repair Split Nut w/ Screw	125
SNR200	2" FBT REpair Split Nut w/ Screw	100



Specialty Pool & Spa Fittings

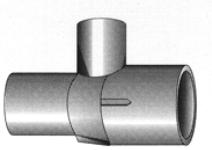


SPA1512

Pool/Spa Hose Adapter Features:

- Larger hex nut than most other styles
- Ribbed insert end to promote a tight seal and tapered thread to prevent “bottoming out" during installation
- White ABS plastic

Part Number	Description	Ctn Qty
SPA1512	1 1/2" mip x 1 1/2", 1 1/4" combo hose adapter	100



473-210



B1241

Part Number	Description	Ctn Qty
Venturi Tee		
473-825	3/4" x 1" x 3/4" Venturi Tee	50
473-210	1 1/2" x 1 1/2" x 3/4" Venturi Tee	25
Fittings		
B1241-00	1 1/2" 90 elbow, spigot x spigot	25



SW406 Series



SW409 Series

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

PVC Sweep Elbow Features:

- Exceeds requirements of CA Title 24, Pool Systems & Equipment Installs.
- Sweep Elbows reduce head loss.
- Socket dimensions to Sch 40 ASTM D 2464.
- Listed to NSF/ANSI Standard 50 Swimming Pools, Spas and Hot Tubs - Circulation System Component.

Part Number	Description	Ctn Qty
SW406-015	1 1/2" PVC Sweep Elbow SL x SL	25
SW406-020	2" PVC Sweep Elbow SL x SL	25
SW406-025	2 1/2" PVC Sweep Elbow SL x SL	25
SW409-015	1 1/2" PVC Sweep Elbow SL x SPG	25
SW409-020	2" PVC Sweep Elbow SL x SPG	25

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Ph: 800-776-2266 Fax: 800-729-3299

Pressure Gauges - NO LEAD Dry



IPPG or IPG Series

ISO 9001

Pressure Gauge Features:

- Rugged precision made phosphor-bronze Bourdon tube movements assuring maximum accuracy (+/- 3-2-3%) under adverse field conditions.
- **TO BE USED WITH AIR OR WATER ONLY.**
- Manufactured for AGI in an ISO 9001 facility.
- Bourdon tube movement is totally enclosed in corrosion resistant housing.
- Resists rust, electrolytic action and chemical solvents.
- **Third party certified to NSF/ANSI 61&372.** No Lead brass sockets.
- Deep drawn one piece steel or molded plastic housings encase a quality movement.
- Genuine mar-resistant glass or acrylic lens.

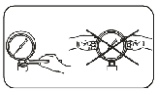
HARVARD

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

CAUTION

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, PLASTIC CASE, DRY						
IPPG302-4LNL	Plastic	0-30#	Pressure	2"	1/4 Lower	100
IPPG302-4BNL	Plastic	0-30#	Pressure	2"	1/4 Back	100
IPPG602-4LNL	Plastic	0-60#	Pressure	2"	1/4 Lower	100
IPPG602-4BNL	Plastic	0-60#	Pressure	2"	1/4 Back	100
IPPG1002-4LNL	Plastic	0-100#	Pressure	2"	1/4 Lower	100
EIPPG1002-4LPNL	Plastic	0-100#	Pressure	2" No dial logo	1/4 Lower	100
IPPG1002-4BNL	Plastic	0-100#	Pressure	2"	1/4 Back	100
IPVG302-4LNL	Plastic	0-30 Hg"	Vacuum	2"	1/4 Lower	100
2" DIAL SIZE, STEEL CASE, DRY						
IPG152-4LNL	Steel	0-15#	Pressure	2"	1/4 Lower	100
IPG302-4LNL	Steel	0-30#	Pressure	2"	1/4 Lower	100
IPG302-4BNL	Steel	0-30#	Pressure	2"	1/4 Back	100
IPG302-8LNL	Steel	0-30#	Pressure	2"	1/8 Lower	100
IPG302-8BNL	Steel	0-30#	Pressure	2"	1/8 Back	100
IPG602-4LNL	Steel	0-60#	Pressure	2"	1/4 Lower	100
IPG602-4BNL	Steel	0-60#	Pressure	2"	1/4 Back	100
IPG602-8LNL	Steel	0-60#	Pressure	2"	1/8 Lower	100
IPG1002-4LNL	Steel	0-100#	Pressure	2"	1/4 Lower	100
EIPG1002-4LPNL	Steel	0-100#	Pressure	2" No dial logo	1/4 Lower	100
IPG1002-4BNL	Steel	0-100#	Pressure	2"	1/4 Back	100
IPG1002-8LNL	Steel	0-100#	Pressure	2"	1/8 Lower	100
IPG1002-8BNL	Steel	0-100#	Pressure	2"	1/8 Back	100
IPG1602-4LNL	Steel	0-160#	Pressure	2"	1/4 Lower	100

Pressure Gauges - NO LEAD Dry



CAUTION

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, STEEL CASE, DRY						
IPG2002-4LNL	Steel	0-200#	Pressure	2"	1/4 Lower	100
IPG2002-4BNL	Steel	0-200#	Pressure	2"	1/4 Back	100
IPG2002-8LNL	Steel	0-200#	Pressure	2"	1/8 Lower	100
IPG3002-4LNL	Steel	0-300#	Pressure	2"	1/4 Lower	100
IPVG302-4BNL	Steel	0-30 Hg"	Vacuum	2"	1/4 Back	100
IPVG302-8LNL	Steel	0-30 Hg"	Vacuum	2"	1/8 Lower	100
IPCG3102-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	2"	1/4 Lower	100
IPCG3602-4LNL	Steel	30Hg"/60#	Vacuum/PRessure	2"	1/4 Lower	200
2" DIAL SIZE, STAINLESS STEEL CASE, 316SS INTERNALS and MOUNT, DRY						
EIPG1002-4LSS316	Stainless Steel	0-100#	Pressure	2"	1/4 Lower	100
EIPG1002-4BSS316	Stainless Steel	0-100#	Pressure	2"	1/4 Back	100
EIPG2002-4LSS316	Stainless Steel	0-200#	Pressure	2"	1/4 Lower	100
EIPG2002-4BSS316	Stainless Steel	0-200#	Pressure	2"	1/4 Back	100
2 1/2" DIAL SIZE, DRY						
IPG1525-4LNL	Plastic	0-15#	Pressure	2 1/2"	1/4 Lower	100
IPG3025-4LNL	Steel	0-30#	Pressure	2 1/2"	1/4 Lower	100
IPG6025-4LNL	Steel	0-60#	Pressure	2 1/2"	1/4 Lower	100
IPG10025-4LNL	Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50
IPG16025-4LNL	Steel	0-160#	Pressure	2 1/2"	1/4 Lower	100
IPG20025-4LNL	Steel	0-200#	Pressure	2 1/2"	1/4 Lower	100
IPG30025-4LNL	Steel	0-300#	Pressure	2 1/2"	1/4 Lower	50
IPG40025-4LNL	Steel	0-400#	Pressure	2 1/2"	1/4 Lower	50
IPVG3025-4LNL	Plastic	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50
IPCG31025-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	2 1/2"	1/4 Lower	50
3 1/2" DIAL SIZE, STEEL CASE, DRY						
IPG3035-4LNL	Steel	0-30#	Pressure	3 1/2"	1/4 Lower	50
IPG10035-4LNL	Steel	0-100#	Pressure	3 1/2"	1/4 Lower	50
IPG20035-4LNL	Steel	0-200#	Pressure	3 1/2"	1/4 Lower	50
IPG30035-4LNL	Steel	0-300#	Pressure	3 1/2"	1/4 Lower	50
4 1/2" DIAL SIZE, STEEL CASE, DRY						
IPG3045-4LNL	Steel	0-30#	Pressure	4 1/2"	1/4 Lower	50
IPG6045-4LNL	Steel	0-60#	Pressure	4 1/2"	1/4 Lower	50
IPG10045-4LNL	Steel	0-100#	Pressure	4 1/2"	1/4 Lower	50
IPG20045-4LNL	Steel	0-200#	Pressure	4 1/2"	1/4 Lower	50
IPG30045-4LNL	Steel	0-300#	Pressure	4 1/2"	1/4 Lower	50
IPVG3045-4LNL	Steel	30 Hg"	Vacuum	4 1/2"	1/4 Lower	50
IPCG36045-4LNL	Steel	30 Hg"/60#	Vacuum/Pressure	4 1/2"	1/4 Lower	50
IPCG31045-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	4 1/2"	1/4 Lower	50

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Pressure Gauges - Dry



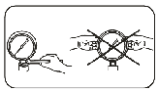
Pressure Gauge

ISO 9001

Pressure Gauge Features:

- Rugged precision made phosphor-bronze Bourdon tube move ments assuring maximum accuracy (+/- 3-2-3%) under adverse field conditions.
- **TO BE USED WITH AIR OR WATER ONLY.**
- Manufactured for AGI in an ISO 9001 facility.





CAUTION

POLYPROPYLENE CASE:

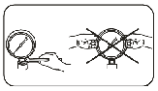
- Bourdon tube movement is totally enclosed in corrosion resistant polypropylene housing, acrylic lens.
- Resists rust, electrolytic action and chemical solvents.
- Brass sockets standard.

STEEL CASE:

- Deep drawn one piece steel housing encases a quality movement.
- Genuine mar-resistant glass lens and brass socket connections are standard.

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, PLASTIC CASE, DRY						
IPPG302-4L	Plastic	0-30#	Pressure	2"	1/4 Lower	100
IPPG302-4B	Plastic	0-30#	Pressure	2"	1/4 Back	100
IPPG602-4L	Plastic	0-60#	Pressure	2"	1/4 Lower	100
IPPG602-4B	Plastic	0-60#	Pressure	2"	1/4 Back	100
IPPG1002-4L	Plastic	0-100#	Pressure	2"	1/4 Lower	100
IPVG302-4L	Plastic	0-30 Hg"	Vacuum	2"	1/4 Lower	100
2" DIAL SIZE, STEEL CASE, DRY						
IPG302-4L	Steel	0-30#	Pressure	2"	1/4 Lower	100
IPG302-4B	Steel	0-30#	Pressure	2"	1/4 Back	100
IPG302-8L	Steel	0-30#	Pressure	2"	1/8 Lower	100
IPG302-8B	Steel	0-30#	Pressure	2"	1/8 Back	100
IPG602-4L	Steel	0-60#	Pressure	2"	1/4 Lower	100
IPG602-4B	Steel	0-60#	Pressure	2"	1/4 Back	100
IPG602-8L	Steel	0-60#	Pressure	2"	1/8 Lower	100
IPG1002-4L	Steel	0-100#	Pressure	2"	1/4 Lower	100
IPG1002-8B	Steel	0-100#	Pressure	2"	1/8 Back	100

Pressure Gauges - Dry



CAUTION



Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, STEEL CASE, DRY						
IPVG302-4B	Steel	0-30 Hg"	Vacuum	2"	1/4 Back	100
IPVG302-8L	Steel	0-30 Hg"	Vacuum	2"	1/8 Lower	100
IPCG3602-4L	Steel	30Hg"/60#	Vacuum/PRessure	2"	1/4 Lower	200
2 1/2" DIAL SIZE, DRY						
IPG3025-4L	Steel	0-30#	Pressure	2 1/2"	1/4 Lower	100
IPG6025-4L	Steel	0-60#	Pressure	2 1/2"	1/4 Lower	100
IPG10025-4L	Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50
IPG16025-4L	Steel	0-160#	Pressure	2 1/2"	1/4 Lower	100
IPVG3025-4L	Plastic	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50
4 1/2" DIAL SIZE, STEEL CASE, DRY						
IPG3045-4L	Steel	0-30#	Pressure	4 1/2"	1/4 Lower	50
IPG6045-4L	Steel	0-60#	Pressure	4 1/2"	1/4 Lower	50
IPG10045-4L	Steel	0-100#	Pressure	4 1/2"	1/4 Lower	50
IPVG3045-4L	Steel	30 Hg"	Vacuum	4 1/2"	1/4 Lower	50
IPCG36045-4L	Steel	30 Hg"/60#	Vacuum/Pressure	4 1/2"	1/4 Lower	50
IPCG31045-4L	Steel	30 Hg"/160#	Vacuum/Pressure	4 1/2"	1/4 Lower	50

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Pressure Gauges - NO LEAD Liquid Filled



EILPG Series

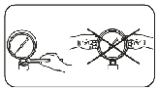


ILPG Series

Liquid Filled Pressure Gauge Features:

- Stainless steel or black steel case.
- Glycerine filled, phosphor bronze bourdon tube.
- Accuracy +/- 3-2-3%.
- 2" or 2 1/2" Dial face with clear acrylic lens.
- Crimped stainless steel ring.
- For use in high vibration, corrosion situations.
- **Third party certified to NSF/ANSI 61&372.**
- No lead brass or stainless steel sockets.
- **TO BE USED WITH AIR OR WATER ONLY.**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



CAUTION

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, LIQUID FILLED						
EILPG302-4LNL	Steel	0-30#	Pressure	2"	1/4" Lower	100
EILPG602-4LNL	Steel	0-60#	Pressure	2"	1/4" Lower	100
EILPG602-4BNL	Steel	0-60#	Pressure	2"	1/4" Back	100
EILPG1002-4LNL	Steel	0-100#	Pressure	2"	1/4" Lower	100
EILPG1002-4BNL	Steel	0-100#	Pressure	2"	1/4" Back	100
EILPG1002-8BNL	Steel	0-100#	Pressure	2"	1/8" Back	100
EILPG1602-4LNL	Steel	0-160#	Pressure	2"	1/4" Lower	100
EILPG2002-4LNL	Steel	0-200#	Pressure	2"	1/4" Lower	100
EILVG302-4LNL	Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100
EILVG302-4BNL	Steel	0-30 Hg"	Vacuum	2"	1/4" Back	100
EILPG302-4LSSNL	Stainless Steel	0-30#	Pressure	2"	1/4" Lower	100
EILPG602-4LSSNL	Stainless Steel	0-60#	Pressure	2"	1/4" Lower	100
EILPG602-4BSSNL	Stainless Steel	0-60#	Pressure	2"	1/4" Back	100
EILPG1002-4LSSNL	Stainless Steel	0-100#	Pressure	2"	1/4" Lower	100
EILPG1002-4LSS316*	Stainless Steel 316	0-100#	Pressure	2"	1/4" Lower	100
EILPG1002-4BSSNL	Stainless Steel	0-100#	Pressure	2"	1/4" Back	100
EILPG1002-4BSS316*	Stainless Steel 316	0-100#	Pressure	2"	1/4" Back	100
EILPG1602-4LSSNL	Stainless Steel	0-160#	Pressure	2"	1/4" Lower	100
EILPG2002-4LSSNL	Stainless Steel	0-200#	Pressure	2"	1/4" Lower	100
EILVG302-4LSSNL	Stainless Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100
EILVG302-4BSSNL	Stainless Steel	0-30 Hg"	Vacuum	2"	1/4" Back	100

* 316 Stainless steel internals and mount.

2 1/2" DIAL SIZE, LIQUID FILLED						
ILPG3025-4LNL	Stainless Steel	0-30#	Pressure	2 1/2"	1/4 Lower	50
ILPG6025-4LNL	Stainless Steel	0-60#	Pressure	2 1/2"	1/4 Lower	50
ILPG10025-4LNL	Stainless Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50
ILPG16025-4LNL	Stainless Steel	0-160#	Pressure	2 1/2"	1/4 Lower	50
ILPG20025-4LNL	Stainless Steel	0-200#	Pressure	2 1/2"	1/4 Lower	50
ILPG30025-4LNL	Stainless Steel	0-300#	Pressure	2 1/2"	1/4 Lower	50
ILPG40025-4LNL	Stainless Steel	0-400#	Pressure	2 1/2"	1/4 Lower	50
ILVG3025-4LNL	Stainless Steel	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50
ILVG3025-4BNL	Stainless Steel	0-30 Hg"	Vacuum	2 1/2"	1/4 Back	50
ILCG36025-4LNL	Stainless Steel	30 Hg"/60#	Vacuum/Press	2 1/2"	1/4 Lower	50

Pressure Gauges - Liquid Filled



EILPG Series

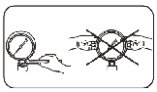


ILPG Series

Liquid Filled Pressure Gauge Features:

- Stainless steel or black steel case
- Glycerine Filled, Phosphor bronze bourdon tube
- Accuracy +/- 3-2-3%
- 2" or 2 1/2" Dial face with clear acrylic lens
- Crimped stainless steel ring
- For use in high vibration, corrosion situations
- **TO BE USED WITH AIR OR WATER ONLY.**





CAUTION

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, LIQUID FILLED						
EILPG302-4L	Steel	0-30#	Pressure	2"	1/4" Lower	100
EILPG602-4L	Steel	0-60#	Pressure	2"	1/4" Lower	100
EILPG602-4B	Steel	0-60#	Pressure	2"	1/4" Back	100
EILPG1002-4L	Steel	0-100#	Pressure	2"	1/4" Lower	100
EILPG1002-4B	Steel	0-100#	Pressure	2"	1/4" Back	100
EILPG1602-4L	Steel	0-160#	Pressure	2"	1/4" Lower	100
EILVG302-4L	Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100
EILPG302-4LSS	Stainless Steel	0-30#	Pressure	2"	1/4" Lower	100
EILPG602-4LSS	Stainless Steel	0-60#	Pressure	2"	1/4" Lower	100
EILPG602-4BSS	Stainless Steel	0-60#	Pressure	2"	1/4" Back	100
EILPG1002-4LSS	Stainless Steel	0-100#	Pressure	2"	1/4" Lower	100
EILVG302-4LSS	Stainless Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100
2 1/2" DIAL SIZE, LIQUID FILLED						
ILPG3025-4L	Stainless Steel	0-30#	Pressure	2 1/2"	1/4 Lower	50
ILPG6025-4L	Stainless Steel	0-60#	Pressure	2 1/2"	1/4 Lower	50
ILPG10025-4L	Stainless Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50
ILPG16025-4L	Stainless Steel	0-160#	Pressure	2 1/2"	1/4 Lower	50
ILPG20025-4L	Stainless Steel	0-200#	Pressure	2 1/2"	1/4 Lower	50
ILVG3025-4L	Stainless Steel	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50
ILCG36025-4L	Stainless Steel	30 Hg"/60#	Vacuum/Press	2 1/2"	1/4 Lower	50

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Test Kits & Specialty Gauges



Pool Test Kit Features:

- For pressure testing pool systems
- Unassembled kits individually boxed
- Includes PVC Sch 40 Reducing Tee, PVC Sch 40 Reducing Bushing, Brass Boiler Drain, 3/4", 60# 2" plastic case pressure gauge, 1/4" lower brass mount.

Part Number	Description	Ctn Qty
TK150	1 1/2" Pool Test Kit	8
TK200	2" Pool Test Kit	8



Pressure Air Test Gauge Features:

- Quick, easy means of pressurizing and monitoring plumbing systems for leakage.
- Attach to hose bibb.
- Includes brass hex manifold, air valve, 2" 200# gauge, garden hose thread fitting.

Part Number	Description	Ctn Qty
PATG200	Pressure Air Test Gauge	30





PGBS

Pressure Gauge Brass Snubber Features:

- Use with any pressure gauge subjected to rapidly fluctuating pressures or sudden shock pressure.
- Brass housing with high strength sintered, porous type snubbing element.

Part Number	Size/Description	Ctn Qty
PGBS1/4	1/4" mpt x 1/4" fpt Brass Snubber	50/500



PTG1002

Pressure Test Gauge Features:

- 0-100 psi, 2" plastic lens.
- Brass test fitting with pressure release button.
- Heavy rubber boot to protect gauge from damage.

Part Number	Size	Pressure Setting/Description	Ctn Qty
PTG1002	2" case	0-100# Pressure test gauge	50



WTG





WTG MP

Water Test Gauge Features:

- Quick, easy method to test a wide range of pressure systems for leakage.
- 2 1/2" dial face, steel case pressure gauge w/ plastic lens.
- With standard 3/4" FGHT swivel garden hose connection with rubber washer.
- Attach to hose bibbs, boiler drains and lawn faucets for pressure testing.
- "MP" series MAX pointer arm measures maximum water surge or pressure drop.
- Individually cartoned.

Part Number	Size	Pressure Setting/Description	PSI dial increments	Ctn Qty
WTG100	2 1/2"	0-100# water test gauge, fght	1	50
WTG200	2 1/2"	0-200# water test gauge, fght	2	50
WTG300	2 1/2"	0-300# water test gauge, fght	3	100
WTG100MP	2 1/2"	0-100# gauge with MAX pointer	1	50
WTG200MP	2 1/2"	0-200# gauge with MAX pointer	2	50
WTG300MP	2 1/2"	0-300# gauge with MAX pointer	3	50

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Ball Valves - PVC Single Union for Pool & Spa



PV1450 Series



PV1452, PV1453 Series

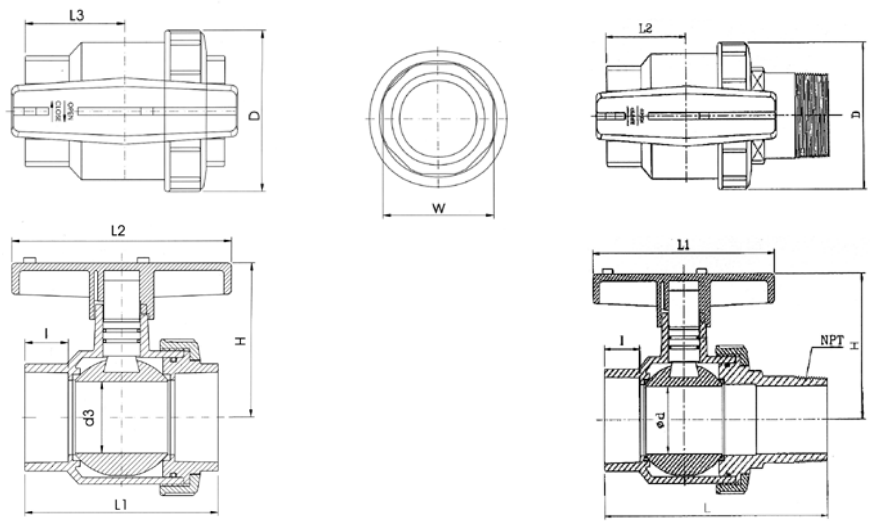
ISO 9002

NO LEAD
LEAD-FREE

PVC Single Union Ball Valve Features:

- PVC Type 1 construction for compatibility in joining rigid PVC and flex vinyl pipes.
- **PTFE seats.**
- **Double EPDM o-ring seal on stem: single EPDM o-ring seal on union end.**
- Fully round ball prevents foreign matter from scoring seats.
- Tee handle for quarter turn on/off with stops.
- Working pressure: 150 PSI at 72ºF, 100 PSI at 120ºF.
- Threaded or socket.
- Manufactured for AGI in an ISO 9002 facility.
- Imported

MATERIAL SPECIFICATIONS	
Body	PVC
End Adapter	PVC
Union Nut	PVC
Ball	PVC
Stem	PVC
Handle	ABS
Union o-rings	EPDM
Seat Seals	PTFE
Stem o-rings	EPDM



PV1450 Series DIMENSIONS (IN.)

SIZE	d3	D	L1	L2	L3	H	W	I
1 1/2"	1.50	3.42	4.49	4.72	2.21	3.32	2.34	1.09
2"	1.88	4.10	5.07	5.74	2.53	4.07	2.73	1.15

PV1452 Series DIMENSIONS (IN.)

SIZE	d	D	L	L1	L2	H	W	I
1 1/2"	1.50	3.42	6.55	4.72	2.21	3.32	2.34	1.09
2"	1.87	4.10	7.02	5.73	2.52	4.07	2.73	1.15

Part Number	Threaded/Slip	Size	Ctn Qty
PV1450-11/2	Slip	1-1/2"	48
PV1450-2	Slip	2"	24
PV1451-11/2	Threaded	1-1/2"	48
PV1451-2	Threaded	2"	24
PV1452-11/2	Slip x Extended MIP	1 1/2"	24
PV1452-2	Slip x Extended MIP	2"	24
PV1453-11/2	FPT x Extended MIP	1 1/2"	24
PV1453-2	FPT x Extended MIP	2"	12

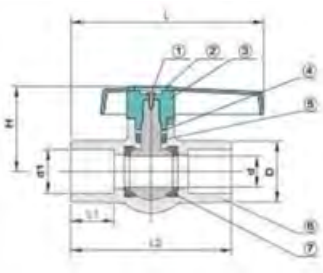
Ball Valves - Economy PVC Molded-in-Place



Economy Series PVC Molded-In-Place Ball Valve Features:

- Heavy duty thermoplastic white PVC (Type 1, Grade 1) construction.
- White body, blue handle.
- **Straight lever** handle on 1/2" through 2". **Curved lever** handle on 2 1/2", 3" and 4".
- EPDM seats provide excellent chemical resistance.
- EPDM "o" ring stem seal.
- 150 PSI working pressure at 73ºF water, non-shock.
- Maintenance free compact design.
- Severe shock loads and misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Third party certified no lead to NSF/ANSI 61&372.
- Individually cartoned.
- Imported.

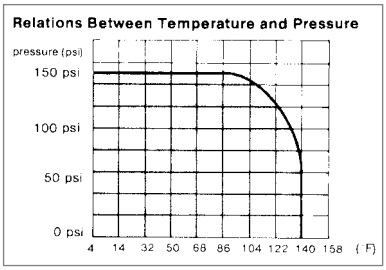
CV ($GPM/(1\ lbf/in^2)^{1/2}$) Opening Rate: 90"	
SIZE	**CV**
1/2"	14.5
3/4"	29.5
1"	48.0
1 1/4"	71.0
1 1/2"	135.0
2"	180.0
2 1/2"	225.0
3"	400.0
4"	865.9



EMIP TE/SE Series
IPS DIMENSIONS (mm)

SIZE	d	d1	D	L1	L	H
1/2"	15	21.54	31.4	19.6	91	34.5
3/4"	20	26.87	36.8	20.4	103	51.0
1"	25	33.65	43.0	26.4	119	58.5
1 1/4"	32	24.42	42.5	27.0	134	67.4
1 1/2"	36	48.56	63.2	30.9	154	73.2
2"	48	60.63	76.4	38.0	180	87.0
2 1/2"	63	73.38	90	45.0	182	103.5
3"	75	89.31	109	50.4	223	118.5
4"	97	114.76	132	62.6	252	130.3

MATERIAL SPECIFICATIONS		
1	Screw	Zinc Plated Steel
2	Cap	ABS
3	Handle	ABS
4	Ball	PVC
5	Stem Seal o-ring	EPDM
6	Body	PVC
7	Seat Seal	EPDM



Threaded Part Number	Slip Part Number	Size	Master Case Qty
EMIP50TE	EMIP50SE	1/2"	210
EMIP75TE	EMIP75SE	3/4"	137
EMIP100TE	EMIP100SE	1"	95
EMIP125TE	EMIP125SE	1 1/4"	56
EMIP150TE	EMIP150SE	1 1/2"	36
EMIP200TE	EMIP200SE	2"	24
EIMP250TE	EMIP250SE	2 1/2"	9
EMIP300TE	EMIP300SE	3"	8
EMIP400TE	EMIP400SE	4"	6

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Ball Valves - PVC Sch 80 Molded-in-Place



SCH 80 Series PVC Molded-In-Place Ball Valve Features:

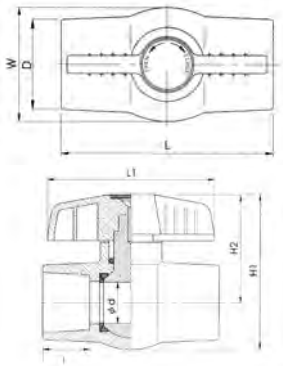
- Heavy duty thermoplastic white PVC (Type 1, Grade 1) construction. Materials meet NSF standards.
- Meets ASTM 2467 Schedule 80.
- White body, red handle.
- Available with PTFE or EPDM seats providing excellent chemical resistance.
- EPDM "o" ring stem seal
- **150 PSI** working pressure at 73ºF water, non-shock.
- Maintenance free compact design.
- Severe shock loads and misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Individually cartoned.
- Manufactured for AGI in an ISO 9002 facility.
- **Third party certified to NSF/ANSI 61&372.**

MATERIAL SPECIFICATIONS	
Body	PVC
Seat Seal	EPDM, PTFE
Ball	PVC
Stem Seal o-ring	EPDM
Handle	ABS
Bolt	Zinc Plated Steel
Cap	ABS

NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

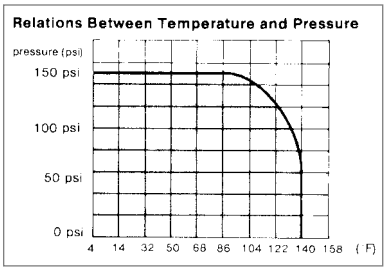
NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

ISO 9002



HMIP TE/SE and T/S Series
IPS DIMENSIONS (IN.)

SIZE	d	D	L	L1	I	H1	H2	W
1/2"	.55	1.17	3.24	2.73	.87	2.42	1.68	1.48
3/4"	.78	1.48	3.71	3.43	1.00	3.04	2.11	1.67
1"	.98	1.76	4.13	3.90	1.12	3.63	2.54	2.22
1 1/4"	1.17	2.11	4.45	3.90	1.25	3.82	2.61	2.46
1 1/2"	1.40	2.42	5.07	4.25	1.37	4.49	3.04	2.93
2"	1.82	3.00	5.74	5.23	1.50	5.27	3.47	3.59
2 1/2"	2.34	3.59	7.96	6.94	1.75	6.24	4.10	4.29
3"	3.00	4.13	8.93	8.74	1.88	7.41	4.84	5.19
4"	3.94	5.27	11.70	10.76	2.25	9.09	5.77	6.63



CV (GPM/(1 lbf/in²)^1/2) Opening Rate: 90"	
SIZE	CV
1/2"	8.84
1"	25.24
1 1/4"	38.53
1 1/2"	51.28
2"	96.67
2 1/2"	162.37
3"	438.81
4"	865.90
CMIP-C Series excluded	

WITH EPDM SEATS NSF

Threaded Part Number	Slip Part Number	Size	Ctn Qty
HMIP50TE	HMIP50SE	1/2"	100
HMIP75TE	HMIP75SE	3/4"	100
HMIP100TE	HMIP100SE	1"	100
HMIP125TE	HMIP125SE	1 1/4"	100
HMIP150TE	HMIP150SE	1 1/2"	48
HMIP200TE	HMIP200SE	2"	24
HIMP250TE	HMIP250SE	2 1/2"	12
HMIP300TE	HMIP300SE	3"	12
HMIP400TE	HMIP400SE	4"	6

WITH PTFE SEATS NSF

Threaded Part Number	Slip Part Number	Size	Ctn Qty
HMIP50T	HMIP50S	1/2"	100
HMIP75T	HMIP75S	3/4"	100
HMIP100T	HMIP100S	1"	100
HMIP125T	HMIP125S	1 1/4"	100
HMIP150T	HMIP150S	1 1/2"	48
HMIP200T	HMIP200S	2"	24

Ball Valves - CPVC Sch 80 Molded-in-Place



NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372

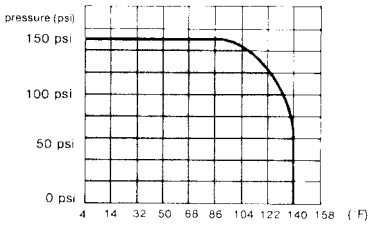
ISO 9002

FLOWGUARD GOLD PIPE & FITTINGS

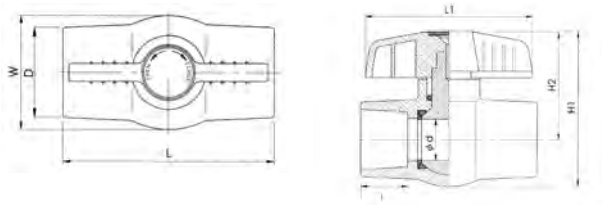
SCH 80 Series CPVC Molded-in-Place Ball Valve Features:

- Made with **Flo Guard Gold CPVC** material.
- Heavy duty thermoplastic CPVC construction for hot water use.
- NSF listed.
- Meets ASTM 2467 Schedule 80.
- CTS slip x slip - cream body, orange handle.
- PTFE seats providing excellent chemical resistance.
- EPDM O-Ring stem seal.
- Working pressure 75 PSI at 180°F.
- Maintenance free compact design.
- Severe shock loads & misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Individually cartoned.
- Manufactured for AGI in an ISO 9002 facility.
- **Third party certified to NSF/ANSI 61&372.**

MATERIAL SPECIFICATIONS	
Body	CPVC
Seat Seal	PTFE
Ball	CPVC
Stem Seal	EPDM
Handle	ABS
Bolt	Zinc Plated Steel
Cap	ABS



CV (GPM/(1 lbf/in²)^1/2) Opening Rate: 90"	
SIZE	**CV**
1/2"	14.5
3/4"	29.5
1"	48.0



CMIP "C" Series CTS DIMENSIONS (IN.)

SIZE	d	D	L	L1	I	H1	H2	W
1/2"	.47	.94	2.65	2.34	.50	1.91	1.33	1.21
3/4"	.55	1.17	3.24	2.73	.87	2.42	1.68	1.48
1"	.78	1.48	3.71	3.43	.90	3.04	2.11	1.91

Part Number	Description	Ctn Qty
CPVC Ball Valve, Copper Tube Size, SLIP X SLIP		
CMIP50C	1/2" SLIP X SLIP	100
CMIP75C	3/4" slip x slip	100
CMIP100C	1" slip x slip	100

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Slice Gate Valves - PVC



VSGV Uni-Body



VSGV 3 piece body



VSGV 3 piece body with union

PVC Slice Gate Valve Features:

- Designed for pool & spa, irrigation, plumbing, waste water and agricultural applications.
- Stainless steel shaft prevent rust and corrosion.
- Ozone & chemical resistant Santoprene™ materials.
- Santoprene™ seals are integrated to the paddle to eliminate any chance of torn or punctured gaskets.
- Maximun working pressure 50 psi (through 2").
- Solvent cement traps to catch excess glue.
- Every valve tested at double recommended working pressure.
- Valterra's patent pending triple o-ring neck seal to ensure against any chance of shaft leakage.

Unibody Design

- One piece uni-body design.
- Combination socket ID x spigot OD for installation flexibility.
- Locking handle provides positive shutt-off and easy gate opening.

3 Piece body

- Three piece configuration allows for repair or can be used as a union.
- Three piece configuration easily disassembles for inline service.

Part Number	Description	Max PSI	Ctn Qty
Uni-Body			
VSGV2101	1 1/2" slip x slip	45	30
VSGV2201	2" slip x slip	40	20
*** Unibody 2" slip hubs are 2" slip or 2 1/2" spig**			
Three Piece Body			
VSGV150SL	1 1/2" slip x slip	45	30
VSGV150FIPTXMIPT	1 1/2" fipt x mipt	45	40
VSGV150SLU	1 1/2" slip x union slip	45	38
VSGV150SD	1 1/2" step down pool hose x mipt ABS		40
VSGV200SL	2" slip x slip	40	20
VSGV200SP	2" slip x spigot	40	34
VSGV300SL	3" slip x slip	30	15
VSGV400SL	4" slip x slip w/ metal handle	20	6
VSGV600SL	6" slip x slip w/ stainless handle	10	1
VSGV800SL	8" slip x slip w/ stainless handle	10	1
VSGV1000SL	10" slip x slip w/ stainless handle	10	1
VSGV1200SL	12" slip x slip w/ stainless handle	10	1

Slice Gate Valves - PVC



SGV - SL Series



SGV-SP and SGV-SLU Series

PVC Slice Gate Valve

- One piece “Uni-Body" PVC Construction. Guaranteed NO HUB LEAKS or loose bolts.
- 1/4 turn “Cam-Lock" for 100% shut-off..
- Internal “snap-lock" feature ensures valve will remain totally open, providing 100% flow with no restriction.
- Stainless steel shaft prevents rust and corrosion.
- Glass filled poly-pro tapered gate design for 100% sealing.
- Integrally molded seal on gate. - No pinched or torn gaskets.
- Seals are “Santoprene" that have been impregnated with a permanent lubricant. Never needs lube yet will provide continuous smooth operation. Ozone and chemical resistant for much longer life.
- Santoprene buttons on gate provides smooth operation without sticking.
- Every valve water tested at 100PSI and random quick burst tested at 400 PSI. Virtually no chance of leaky valves in the field at standard operating pressures.
- Maximum recommended operating pressure is 50 PSI.
- Glue wells on all slip-socket configuration catches excess glue during plumbing.
- Constructed and tested for use in pool & spa applications.
- Made in USA

Part Number	Size	Description	Ctn/Case Qty
SGV150SL	1 1/2"	Slip x Slip	14/56
SGV200SL	2"	Slip x Slip	12/48
SGV250SL	2 1/2"	Slip x Slip	5/20
SGV150SP	1 1/2"	Slip x Spigot	14/56
SGV200SP	2"	Slip x Spigot	12/48
SGV150SLU	1 1/2"	Slip x Slip with Union	10/40
SGV200SLU	2"	Slip x Slip with Union	10/40

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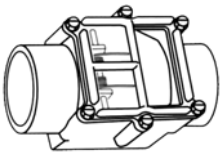
Check Valves - PVC Swing



MCRV Series

"CR" Full Flow Corrosion Resistant Check Valve Features:

- Protects heat exchangers from potential damage by inline chlorinators.
- Maintains full flow circulation system.
- Propriatary designed Hastelloy spring.
- Glass filled Noryl injection molded shaft.
- 100% silicone gasket never requires lubrication.
- Clear sight glass. Removable, servicable.
- 3 IPS sizes in one valve. 1 1/2" slip with bushing, 2" slip and 2 1/2" spigot. (1 1/2" bushing sold separately.)
- Spring loaded flapper/gate mechanism assures full flow and minimum cavatation.
- Positive water seal when in the closed position.
- "CR" valve can be installed in virtually any position.
- Use in highly corrosive conditions and conditions needing backflow prevention.

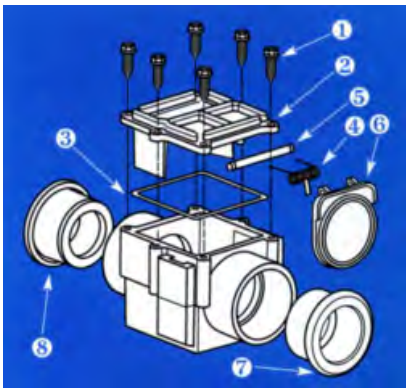


MCRV Series



Bushing

Part Number	Description	Size	Ctn Qty
MCRV801-20H	PVC CR Swing Check Valve	2" Slip x Slip	12
60104028	CR Swing Check Bushing	2" Sp x 1 1/2" Slip	1



CR VALVE REPLACEMENT PARTS

ID	Part Number	Description	Ctn Qty
1	M04030066	#14 x 1" Phillips Pan Head SS Screw	6
4	M0405001	Spring	1
5	M0401005P	Shaft	1
6	M0081201020	Gate Assembly	1
7	M0060504028	Adapter 2" sp x 1 1/2" Slip, Black	1
8	M0060104028	Adapter, 2" sp x 1 1/2" Slip, White	1

Check Valves - PVC Swing

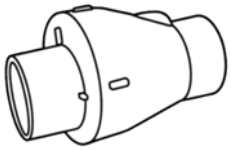


MCV Series

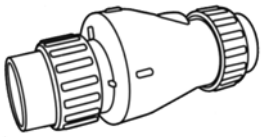
NO LEAD LEAD-FREE

"Smart" Swing Check Valve Features:

- Patented innovation in swing check valve technology eliminates in-line flow restriction of conventional check valves.
- Spring loaded swing check flapper/gate allows full flow and reliable back flow prevention.
- Standard "smart" check valve remains closed to 1/2 psi, then open for full flow.
- Magnetic "smart" check valves remain closed to 2 psi, then open for full flow.



MCV821 Series



MCV823 Series



MCV850 Series

Part Number	Size	Description	Spring Tension	Ctn Qty
MCV821-10	1"	Slip x Slip	1/2 lb.	12
MCV821-10C	1"	Slip x Slip CLEAR	1/2 lb.	12
MCV821-15	1 1/2"	Slip x Slip	1/2 lb.	12
MCV821-15C	1 1/2"	Slip x Slip CLEAR	1/2 lb.	12
MCV821-20	2"	Slip x Slip	1/2 lb.	12
MCV821-20C	2"	Slip x Slip CLEAR	1/2 lb.	12
MCV821-20M	2"	Slip x Slip w/magnet	2 lb.	12
MCV821-20MC	2"	Slip x Slip w/magnet CLEAR	2 lb.	12
MCV823-10	1"	Union x Union	1/2 lb.	12
MCV823-10C	1"	Union x Union CLEAR	1/2 lb.	12
MCV823-15	1 1/2"	Union x Union	1/2 lb.	12
MCV823-15C	1 1/2"	Union x Union CLEAR	1/2 lb.	12
MCV823-20	2"	Union x Union	1/2 lb.	12
MCV823-20C	2"	Union x Union CLEAR	1/2 lb.	12
MCV823-20M	2"	Union x Union w/magnet	2 lb.	12
MCV823-20MC	2"	Union x Union w/magnet CLEAR	2 lb.	12
MCV850-15	1 1/2"	Check/Slice Combo Union x Slip		12
MCV850-20	2"	Check/Slice Combo Union x Slip		12

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Butterfly Valves - Ductile Iron



HBFV Series

Ductile Iron Butterfly Valve Features:

- Designed for swimming pool, irrigation and water systems.
- Wafer body features 4 alignment holes.
- Lever lock handle (spring loaded) provides excellent manual control for balancing or shut off services.
- Notched throttling plate allows balancing in 10º increments in any position desired within 90º arc rotation of the disc.
- Positive bubble-tight shutoff with minimum torque.
- Seat face eliminates need for flange gaskets.
- Phenolic backed seats prevent collapse, are stretch resistant, blowout proof and field replacable.
- **EPDM seats** temperature rated at -30°F to 275°F.
- 420 stainless steel shaft
- Bidirectional dead-end capability for 250 psi (2" - 12").
- Compatible with ANSI 125/150 flanges.
- Designed to comply with MSS SP-67 and API 609.
- **Ductile iron, ENP plated** disc.
- Third party certified no-lead.
- Imported

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

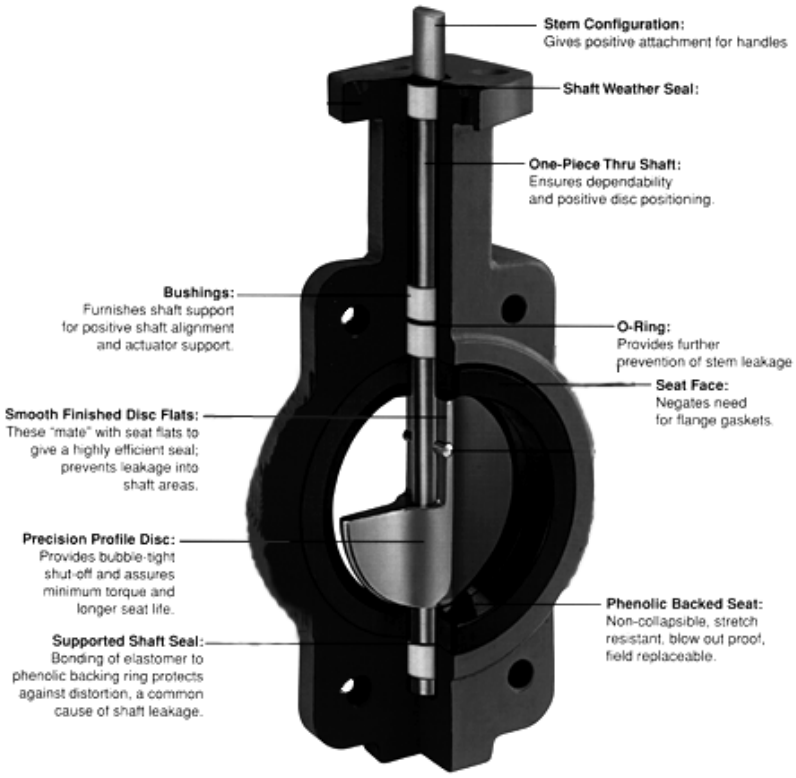


HFBV GEAR Series

Part No.	Size	Weight(lbs)	Ctn Qty
Ductile Iron ENP Plated Disc			
HBFV2	2"	7	1
HBFV21/2	2-1/2"	8	1
HBFV3	3"	10	1
HBFV4	4"	12	1
HBFV5	5"	15.5	1
HBFV6	6"	17.5	1
HBFV8	8"	33	1
HBFV10	10"	50	1
HBFV12	12"	74	1
Ductile Iron ENP Plated Disc - GEAR DRIVE			
HBFV6-GEAR	6"	28.5	1
HBFV8 GEAR	8"	54	1

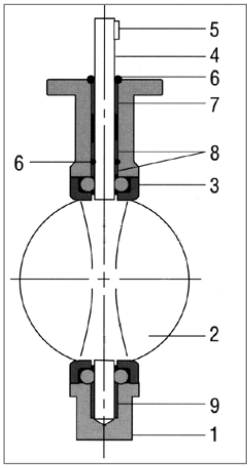
Flanges & Bolt kits available, see page P.26

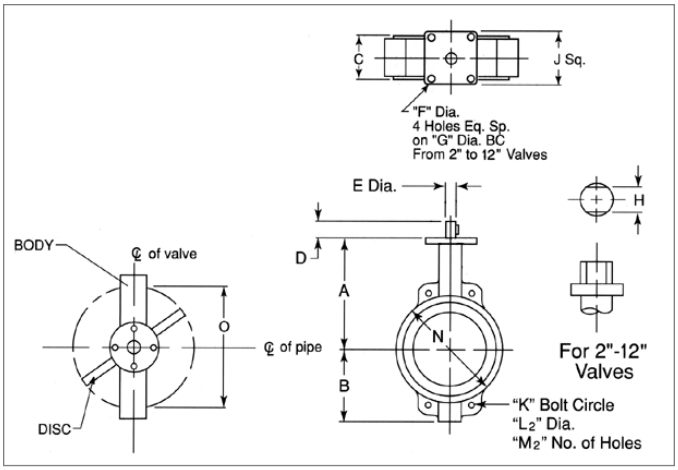
Butterfly Valves - Ductile Iron



MATERIAL SPECIFICATIONS

No.	Part	Material
1	Body	dUCTILE Iron
2	Disc	Ductile Iron
3	Seat	EPDM
4	Shaft	420 Stainless Steel
5	Key	Carbon Steel
6	O-ring	EPDM
7-9	Bushing	Nylon





SIZE \ DIMENSION (in) for HBFV Series

	A	B	C	D	E	F	G	H	J	K	L2	M2	N	O
2"	5.51	2.44	1.64	1.26	.50	.375	2.76	.39	2.75	4.75	.75	4	4.75	2.12
2 1/2"	6.02	2.76	1.75	1.26	.50	.375	2.76	.39	2.75	5.5	.75	4	5.50	2.57
3"	6.26	2.89	1.75	1.26	.50	.375	2.76	.39	2.75	6.0	.75	4	6.00	3.14
4"	7.01	4.49	2.00	1.26	.625	.375	2.76	.47	2.75	7.50	.75	4	7.50	4.13
5"	7.50	4.79	2.13	1.26	.75	.375	2.76	.55	2.75	8.50	.87	4	8.50	5.12
6"	8.01	5.55	2.12	1.26	.75	.375	2.76	.55	2.75	9.50	.87	4	9.50	6.13
8"	9.50	6.85	2.50	1.26	.875	.438	4.02	.67	3.75	11.75	.87	4	11.75	8.15
10"	10.75	8.19	2.50	1.58	1.125	.438	4.02	.87	3.75	14.25	1.00	4	14.29	9.98
12"	12.25	9.53	2.99	1.58	1.125	.438	4.02	.95	3.75	17.00	1.00	4	17.00	11.89

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Butterfly Valves - PVC Sch 80



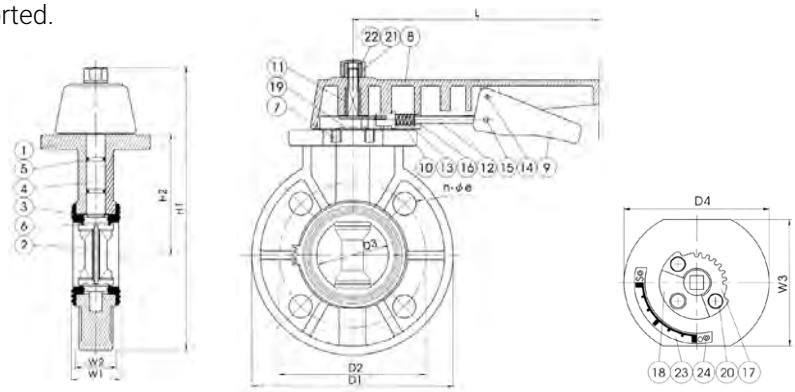
PBFV Series

ISO 9002

NO LEAD LEAD-FREE

PVC Sch 80 Butterfly Valves Features:

- 150 PSI working pressure.
- PVC body, polypropylene disc, and EPDM seat and o-ring.
- Flanged end design.
- Corrosion resistant.
- Excellent flow characteristics.
- Ideally suited for flow control in a minimum piping space.
- Clear indication of disc opening degree.
- Built in seat requires no additional gaskets between flanges.
- Manufactured for AGI in an ISO 9002 facility.
- Imported.



MATERIAL SPECIFICATIONS

No.	Part	Material	Qty
1	Body	PVC	1
2	Disc	PP	1
3	Seat Seal	EPDM	1
4	Stem	SS 410	1
5	O-ring	EPDM	2
6	O-ring	EPDM	2
7	Inserted Nut	SS 41	3
8	Large Handle	ABS	1
9	Small Handle	ABS	1
10	Spring Lock	ABS	1
11	Handle Insert	SS	1
12	Handle Lever	SS 304	1
13	Spring	SS 304	1
14	Spring Pin	SS 304	1
15	Spring Pin	SS 304	1
16	Washer	SS 304	1
17	Locking Plate	SS 304	1
18	Gear Seat	PP + GF	1
19	Washer	SS 304	1
20	Bolt	SS 304	3
21	Nut	PVC	1
22	Insert Nut	C3604	1
23	Level	SS 304	1
24	Rivet	SS	2

CV ($GPM/(1\ lbf/in^2)^{1/2}$)

Opening Rate: 90"

SIZE	CV
2"	100.87
2 1/2"	137.82
3"	224.08
4"	409.51
5"	523.92
6"	1243.00

DIMENSIONS \ SIZE (in)

	2"	2 1/2"	3"	4"	5"	6"	8"
D1	6.44	7.22	7.80	8.93	9.98	11.12	13.38
D2	4.70	5.44	5.94	7.43	8.42	9.42	11.64
D3	2.20	2.71	3.10	4.01	5.11	6.02	7.91
D4	4.13	4.66	4.84	5.26	6.40	6.64	7.84
L	7.92	7.92	7.92	9.91	11.86	11.86	11.86
H1	9.59	10.37	10.76	12.40	15.21	15.80	18.17
H2	4.02	4.41	4.49	5.27	5.85	6.90	8.19
W1	1.67	1.85	1.85	2.23	2.57	2.88	3.41
W2	1.35	1.45	1.45	1.83	2.22	2.53	3.06
W3	3.67	3.67	3.66	3.89	4.31	3.93	4.76
n-oe	.741	.741	.741	.741	.858	.858	.858

Part Number	Description	Ctn Qty
PBFV2	2" PVC Butterfly valve	4
PBFV21/2	2 1/2" PVC Butterfly valve	4
PBFV3	3" PVC Butterfly valve	4
PBFV4	4" PVC Butterfly valve	4
PBFV5	5" PVC Butterfly valve	4
PBFV6	6" PVC Butterfly valve	4
PBFV8	8" PVC Butterfly valve	1
Replacement handles		
PBFV2 HANDLE	2" PVC valve handle	1
PBFV21/2 HANDLE	2 1/2" PVC valve handle	1
PBFV3 HANDLE	3" PVC valve handle	1
PBFV4 HANDLE	4" PVC valve handle	1
PBFV5 HANDLE	5" PVC valve handle	1
PBFV6 HANDLE	6" PVC valve handle	1
PBFV8 HANDLE	8" PVC valve handle	1

Flanges, Bolt Kits, Gaskets

PVC Sch 80 Van Stone Flange Features:

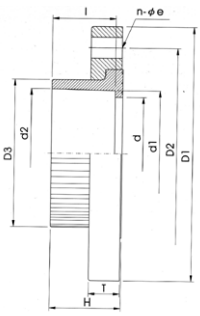
- Two-piece van stone socket style.
- Class 150, Schedule 80
- Improve the security and safety of connections between pipes, valves & fittings.
- Imported - Manufactured for AGI in an ISO 9002 facility.



PF Series

ISO 9002

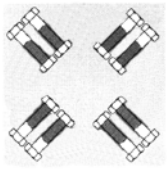
NO LEAD LEAD-FREE

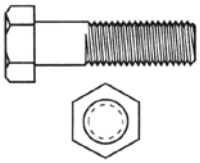


DIMENSIONS \ SIZE (in)

	2"	3"	4"	6"	8"	10"	12"
D1	5.93	7.49	8.93	11.08	13.38	15.83	18.76
D2	4.72	5.93	7.45	9.40	11.62	14.12	16.85
D3	2.96	4.21	5.19	7.45	9.28	12.09	14.20
d	1.99	3.00	3.98	6.08	7.96	9.98	11.97
d1	2.35	3.46	4.45	6.55	8.53	10.64	12.62
d2	2.37	3.48	4.48	6.59	8.57	10.68	12.67
H	1.68	2.11	2.50	3.32	4.60	5.85	7.45
T	.78	1.01	1.09	1.25	1.40	1.64	1.64
I	1.49	1.86	2.23	2.97	3.98	4.80	6.44
n-oe	.741	.741	.741	.858	.858	.936	.975

Part Number	Description	Ctn Qty
PF2	2" Flange	60
PF21/2	2 1/2" Flange	36
PF3	3" Flange	30
PF4	4" Flange	20
PF6	6" Flange	10
PF8	8" Flange	4
PF10	10" Flange	2
PF12	12" Flange	2





BBK Series

Bolt Kit Features:

- For use with cast iron & PVC butterfly valves. BF8200, HBFV and PBFV Series
- ASTM-A307 grade zinc plated carbon steel bolts and A563 finished nuts.
- Washers and Gaskets NOT included- Available upon request.

Part Number	Valve Size	Bolt Size	Bolts/Kit	Ctn Qty
BBK2	2"	5/8" x 5"	4	16
BBK2.5/3	2 1/2" and 3"	5/8" x 5 1/2"	4	16
BBK4	4"	5/8" x 6"	8	8
BBK5/6	5" and 6"	3/4" x 6 1/2"	8	8
BBK8	8"	3/4" x 7"	8	8
BBK10	10"	7/8" x 7 1/2"	12	3
BBK12	12"	7/8" x 8 1/2"	12	3



GSK Series

Red Rubber Gasket Features:

- For use with butterfly valves, Sch 80 flanges
- Red rubber, 150 lbs., 1/8" full face.

Part Number	Valve Size
GSK11/2R	1 1/2"
GSK2R	2"
GSK21/2R	2 1/2"
GSK3R	3"
GSK4R	4"

Part Number	Valve Size
GSK5R	5"
GSK6R	6"
GSK8R	8"
GSK10R	10"
GSK12R	12"

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Ph: 800-776-2266 Fax: 800-729-3299

Butterfly Valve Installation Kits

Butterfly Valve Installation Kit Features:

- Everything needed for a quick, easy butterfly valve installation.
- Available with PVC Sch 80 or Ductile Iron butterfly valves.
- Custom kits available upon request.



PBVIK Series

NO LEAD LEAD-FREE

PVC Butterfly Valve Installation Kit Includes:

- One PBFV Series PVC Sch 80 Butterfly valve.
- Two PF Series PVC Sch 80 Van Stone flanges.
- Two red rubber GSK gaskets.
- Bolt kit with steel nuts and bolts.
- Steel washers.

Part Number	Size	Number of Nuts/Bolts	Number of Washers	Ctn Qty
PBVIK2	2" Kit	4	8	1
PBVIK21/2	2 1/2" Kit	4	8	1
PBVIK3	3" Kit	4	8	1
PBVIK4	4" Kit	8	16	1
PBVIK6	6" Kit	8	16	1
PBVIK8	8" Kit	8	16	1



PHBFV Series

NO LEAD LEAD-FREE

Ductile Iron Butterfly Valve Installation Kit Includes:

- One HBFV Series Ductile Iron Butterfly valve.
- Two PF Series PVC Sch 80 Van Stone flanges.
- Bolt kit with steel nuts and bolts.
- Steel washers.
- Rubber gaskets NOT included. (Extended EPDM seat on the HBFV valve acts as gasket seal with flange.)

Part Number	Size	Number of Nuts/Bolts	Number of Washers	Ctn Qty
PHBFV2NG	2" Kit	4	8	1
PHBFV3NG	3" Kit	4	8	1
PHBFV4NG	4" Kit	4	8	1
PHBFV6NG	6" Kit	4	8	1
PHBFV12NG	12" Kit	4	8	1 *

* Shipped in two cartons

americangranby.com
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Clear Braided PVC Hose



Clear Braided PVC Hose
Standard Wall, Class 125 Features:

- Flexible, see through clear hose with braid pattern reinforcement of two polyester spirals.
- Flexible clear PVC NSF 51 certified to 100ºF (38ºC), USP CLASS V1 rated.
- All hose compound ingredients used are listed in US FDA CFR, Title 21.
- Temperature range + 25º to 150º F / -5º to +65ºC.
- Silicone free.
- Food and beverage grade, standard wall.
- Use for air, water lines.

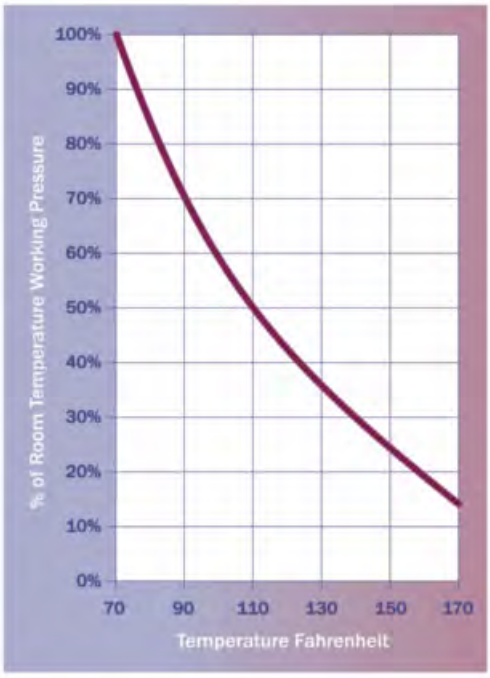
Part Number	Nominal (inches) ID	OD	Max Working Pressure PSI@68°F	PSI@122°F	Reel Length	Approx Wt per CFT.
CBH25-1	1/4	0.438	250	105	100’	5.7 lbs
CBH38-1	3/8	0.594	225	97	100’	9.0 lbs
CBH50-1	1/2	0.750	200	86	100’	13.8 lbs
CBH58-1	5/8	0.875	200	86	100’	16.5 lbs
CBH75-1	3/4	1.030	150	65	100’	21.9 lbs
CBH100-1	1	1.300	125	54	100’	31.5 lbs
CBH100-2	1	1.300	125	54	200’	31.5 lbs
CBH125-50	1 1/4	1.625	100	43	50’	45.0 lbs
CBH125-1	1 1/4	1.625	100	43	100’	45.0 lbs
CBH150-50	1 1/2	1.937	100	43	50’	64.0 lbs
CBH150-1	1 1/2	1.937	100	43	100’	64.0 lbs
CBH200-1	2	2.490	75	33	100’	95.0 lbs

**** Temperatures higher than 68º F reduce available working pressure. See next page for temperature, working pressure calculation chart and cautionary note.**

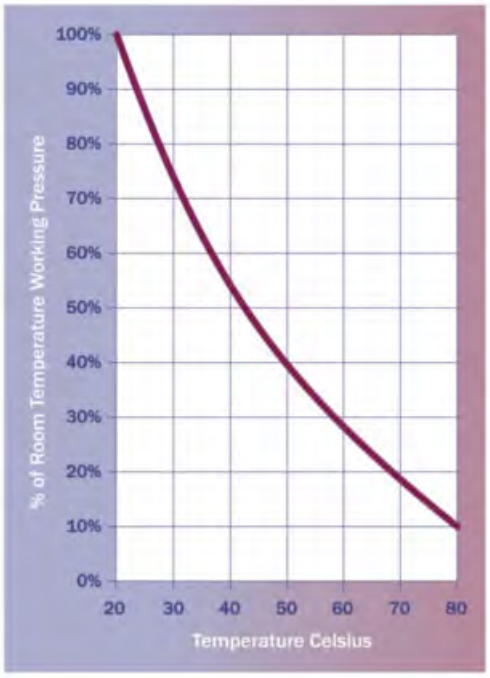
Effects of Elevated Temperatures on Thermoplastic Hose.

The compounds used in clear braided PVC hose are generally referred to as thermoplastics. These materials achieve their optimum physical properties at room temperature, 68ºF (20ºC). As these materials are exposed to increased ambient temperatures, they will soften and their physical properties will change. This will have the effect of sharply reducing the available working pressure. Coupling retention will also be reduced. The charts below illustrate this effect. In all cases, the product should be tested in a controlled, secure and safe environment, and all operating conditions should be considered prior to use.

All published working pressures of AGI Series CBH hose are based on a room temperature of 68ºF (20ºC).



Example from the Fahrenheit Chart
If working pressure at 68ºF is 200 psi, then the WP at 110ºF is 200 x 50%, or 100 psi



Example from the Celsius Chart
If working pressure at 20º is 14 bar, then the WP at 50ºC is 14 x 50%, or 5.6 bar

CAUTIONARY NOTE

The charts are to used as a guideline only. The information and recommendations contained here are, to the best of our manufacturer's knowledge, accurate and reliable, but no guarantee of their accuracy is made. All products are sold upon the condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses, and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Variability in length of exposure, temperature, pressure, velocity of fluid, and chemical concentration all contribute to reduced working pressure and hose reliability.

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Tubing - Polyethylene



Polyethylene Tubing Features:

- Conforms to FDA, NSF and USDA Standards.
- Temperature Range -100º F to +140º F
- Economical.
- Extremely Flexible.
- Translucent.
- Resists Corrosion.
- **NOT FOR USE WITH HOT WATER**

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

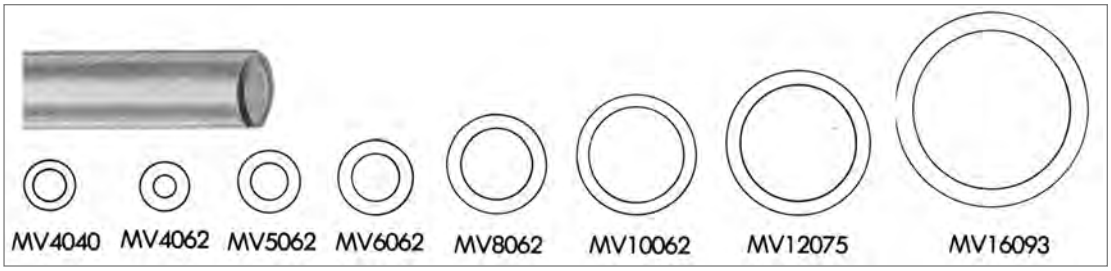
- **SOLD IN COIL LENGTHS ONLY.**
- ORDER BY THE NUMBER COIL LENGTHS REQUIRED.
  Ex: For 500' of MV4040-5 order Qty 1 MV4040-5

Part Number Bulk Boxed	Part Number Dispenser Box	OD	ID	Wall Thickness	Max PSI @ 70ºF	Coil Length
MV4040-1BLACK		1/4"	.17"	0.04"	135	100'
MV4040-1		1/4"	.17"	0.04"	135	100'
MV4040-5		1/4"	.17"	0.04"	135	500'
MV4040M		1/4"	.17"	0.04"	135	1000'
MV4062-1		1/4"	1/8"(.125)	1/16"(.062)	180	100'
MV4062-5		1/4"	1/8"(.125)	1/16"(.062)	180	500'
MV4062M		1/4"	1/8"(.125)	1/16"(.062)	180	1000'
MV5062-1		5/16"	3/16"(.1875)	1/16"(.062)	140	100'
MV5062-5		5/16"	3/16"(.1875)	1/16"(.062)	140	500'
MV5062M		5/16"	3/16"(.1875)	1/16"(.062)	140	1000'
MV6062-1		3/8"	1/4"(.250)	1/16"(.062)	120	100'
MV6062-5		3/8"	1/4"(.250)	1/16"(.062)	120	500'
MV6062-5BLACK		3/8"	1/4" (.250	1/16"(.062)	120	500'
MV6062M		3/8"	1/4"(.250)	1/16"(.062)	120	1000'
MV8062-1		1/2"	3/8"(.375)	1/16"(.062)	90	100'
MV8062-5		1/2"	3/8"(.375)	1/16"(.062)	90	500'
MV10062-1		5/8"	1/2"(.500)	1/16"(.062)	70	100'
MV10062-5		5/8"	1/2"(.500)	1/16"(.062)	70	500'
MV12075-1		3/4"	.6	.075	60	100'
MV16093-1		1"	.814	3/32" (.094)	55	100'



	TP309	5/16"	3/16"(.1875)	1/16"(.062)		100'

POLYETHYLENE TUBING SIZING GUIDE



Tubing - Clear Vinyl



Vinyl Tubing Features:

- Temperature Range -20º F to +150º F
- Flexible.
- Transparent.
- Tasteless.
- Non-Toxic.
- **NOT FOR USE WITH HOT WATER**

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Applications:

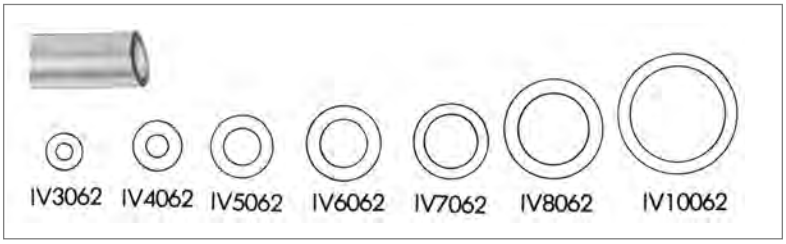
- Pool slides
- RV use cold water
- Water softeners
- Ice maker
- Livestock
- Food & Beverage

- **SOLD IN COIL LENGTHS ONLY.**
- ORDER BY THE NUMBER COIL LENGTHS REQUIRED.
  Ex: For 500' of IV7062-5 order Qty 1 IV7062-5

Part Number Bulk Box	Dispenser Box	OD	ID	Wall Thickness	Length
IV4062-1		1/4"	1/8"(.125)	1/16"(.062)	100'
IV5062-1		5/16"	3/16"(.1875)	1/16"(.062)	100'
IV6062-1		3/8"	1/4"(.250)	1/16"(.062)	100'
IV7062-1		7/16"	5/16"(.3125)	1/16"(.062)	100'
IV8062-1		1/2"	3/8"(.375)	1/16"(.062)	100'
IV10062-1		5/8"	1/2"(.500)	1/16"(.062)	100'
	TV309	5/16"	3/16"(.1875)	1/16"(.062)	100'



VINYL TUBING SIZING GUIDE



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Ph: 800-776-2266 Fax: 800-729-3299

Fittings for Plastic Tubing - NL Brass

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Barb Fitting Features:

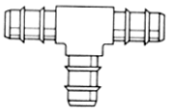
- Superior NO LEAD brass fittings for soft plastic tubing for oil, water, air, vacuum, gas and liquid low pressure lines.
- Exclusive self-clinching double barbs actually tighten under strain.

Compression Fitting Features:

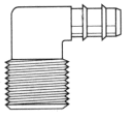
- NO LEAD Brass compression fittings designed for plastic tubing.
- Built-in tube support prevents tube collapse and allows easy assembly.



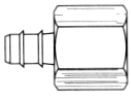
VT22



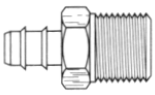
VT224



VT229



VT26



VT28

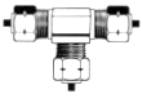
Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty
Coupling (Ins x Ins)				
VT22-4-4NL	3/8"	1/4"		Bulk
VT22-6-6NL	1/2"	3/8"		Bulk
Tee (Ins x Ins x Ins)				
VT224-6NL	1/2"	3/8"		Bulk
Elbow (Ins x MIP)				
VT229-4-4NL	3/8"	1/4"	1/4" mip	Bulk
VT229-6-4NL	1/2"	3/8"	1/4" mip	Bulk
Female Adapter (Ins x FIP)				
VT26-6-4NL	1/2"	3/8"	1/4" fip	Bulk
Male Adapter (Ins x MIP)				
VT28-4-2NL	3/8"	1/4"	1/8" mip	Bulk
VT28-4-4NL	3/8"	1/4"	1/4" mip	Bulk
VT28-6-4NL	1/2"	3/8"	1/4" mip	Bulk

Fittings for Plastic Tubing - NL Brass

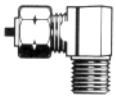
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



VT62



VT64



VT69



VT68



VT60



VT61



VT63

Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty
Union w/ inserts (Comp x Comp)				
VT62-4NL	1/4" x 1/4"	.17"		Bulk
Tee w/ inserts (Comp x Comp x Comp)				
VT64-4NL	1/4" x 1/4" x 1/4"	.17"		Bulk
Male Elbow w/ inserts (Com x MIP)				
VT69-4-4NL	1/4"	.17"	1/4" mip	Bulk
Male Connector w/ inserts (Comp x MIP)				
VT68-4-4NL	1/4"	.17"	1/4" mip	Bulk
VT68-6-4NL	3/8"	1/4"	1/4" mip	Bulk
Delrin Sleeve				
VT60-4	1/4"			Bulk
VT60-6	3/8"			Bulk
Nut				
VT61-4NL	1/4"			Bulk
VT61-5NL	5/16"			Bulk
VT61-6NL	3/8"			Bulk
Tube Support				
VT63-4NL	1/4"	.17"		Bulk
VT63-6NL	3/8"	1/4"		Bulk

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ISO 9001

3M Spray Adhesives

BLUE 72

- Repositionable BLUE pressure sensitive spray adhesive.
- One side bonds in 8 hours, aggressive tack, low soak in.
- Covers 100 sq ft.
- Ideal for pool liner installation.

ORANGE FOAM FAST 74

- Permanent, light orange, fast tack.
- Two sides bond in 15 minutes.
- Covers 260 sq. ft.

Both manufactured for AGI in an ISO 900 facility.

Part Number	Item	Size	Ctn/Pallet Qty
BLUE 72	Blue Spray Adhesive	24 fl oz can, 17.3 oz net wt.	12/768
ORANGE 74	Orange spray adhesive	24 fl oz can, 16.9 oz net wt	12/768



FAL32

Fix A Leak Features:

Fix A Leak is a blended material, designed to seal leaks in just about anything. It works in any kind of pool, spa or hot tub, regardless of constructed material, concrete, fiberglass, acrylic, wood, etc. It works equally well in all plumbing materials including PVC, ABS, poly plastics, vulcathen, copper, steel, etc.

- Seals leaks up to 1/8" in diameter.
- Forms a permanent seal.
- One quart is designed to seal leaks in up to 20,000 gallons. Do not use in excess of 1 quart per 5,000 gallons of water.
- Cures in 24-48 hours.
- Patented by Marlig Industries, Inc.

FIX A LEAK The Only One

MARLIG INDUSTRIES, INC.

Part Number	Description	Ctn Qty
FAL32	Fix A Leak Sealant, 32 oz.	12
FAL8	Fix A Leak Sealant, 8 oz.	20

See the “Tapes, Sealants, Cements" and “Permatex Industrial" tabs for more installation & repair materials.



2136

LISTED

Swimming Pool, Fountain and Spa Equipment Conductor Splice Potting Compound 2L02

3M Scotchcast™ 2136 Wet-Niche Potting Kit Features:

- Provides protection against corrosion and deteriorating effects of pool water by encapsulating the 8 AWG ground connection in a wet niche shell.
- The wet-niche shell is a corrosion-resistant metal housing for underwater fixtures in permanently installed pools.
- Product meets NEC requirements to allow the use of rigid nonmetallic conduit in the installation of wet-niche underwater lighting fixtures.
- Packaged in easy-mix, single use, 1.5 oz. container with cleaning pad, application stick and gloves.
- Will not sag or drip. Gels in minutes and can be submerged within 4 hrs.

Part Number	Description	Ctn Qty
2136	Wet-Niche Potting Kit	10



10-417-15

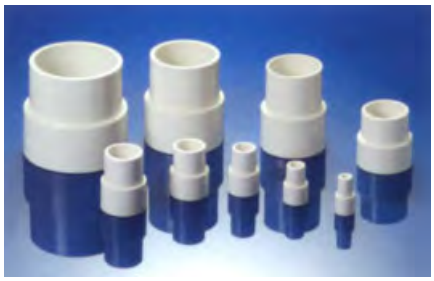
Hot Water Swimming Pool Heater Safety Relief Valve Features:

- Bronze safety relief valve protects ASME Section IV hot water heating boilers and hydronic heating systems.
- High capacity design features corrosion resistant construction.
- Ideal for use in swimming pool heater applications, hot water boilers and hydronic heating systems.
- ASME Section IV.
- Set pressure 75 psi. 20-80 psig certified pressure range.
- Maximum temperature service 250ºF
- Stainless steel springs.
- Registered in all Canadian provinces and territories, CRN #0G8547.5C
- Made in USA.

Part Number	Description	Height	Ctn Qty
10-417-15	3/4" M/F Safety relief valve	3"	100

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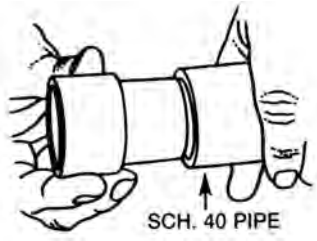
Repair Fittings for Sch 40 Pipe

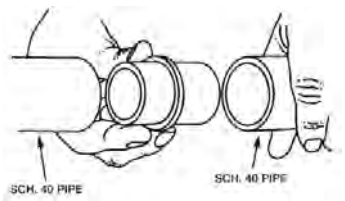


PEX Series



PIC Series





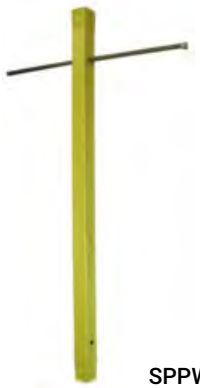
Pipe Extender and Inside Connector Repair Fitting Features:

NO LEAD ✓ LEAD-FREE

- For Sch 40 pipe.
- Saves labor.
- Invisible after installation.
- Permanent repair.
- Insignificant flow restriction.
- PVC Construction.
- PIC Series connects two pieces of Sch 40 pipe with flush joint.

Part Number	Description	IPS Size	Ctn Qty
Pipe Extender Repair Fitting			
PEX50	Pipe Extender	1/2"	48
PEX75	Pipe Extender	3/4"	48
PEX100	Pipe Extender	1"	48
PEX125	Pipe Extender	1 1/4"	48
PEX150	Pipe Extender	1 1/2"	48
PEX200	Pipe Extender	2"	48
PEX250	Pipe Extender	2 1/2"	96
PEX300	Pipe Extender	3"	96
PEX400	Pipe Extender	4"	48
Inside Connector Repair Fitting			
PIC100	Inside Connector	1"	48
PIC150	Inside Connector	1 1/2"	48
PIC200	Inside Connector	2"	48

Pool Service Accessories

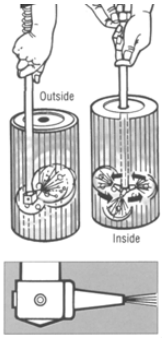


SPPW405

2 in 1 Swimming Pool Plug Wrench Features:

- Fits 1 1/2" or 2" cleanout plugs.
- 31" long.
- Removable 18" plated steel handle.
- Heavy duty, powder coated steel to resist rust and corrosion.
- No welds to corrode.

Part Number	Description	Ctn Qty
SPPW405	1 1/2" / 2" pool plug wrench with handle	24
SPPW405H	Replacement handle only for SPPW405	250



MBC75

Master Blaster Cleaner Features:

- 3/4" FGHT connection.
- Handy on/off lever.
- For general pool/spa cleanup of filters, under copings.

Part Number	Description	Size	Ctn Qty
MBC75	Master Blaster Cleaner	3/4"	12

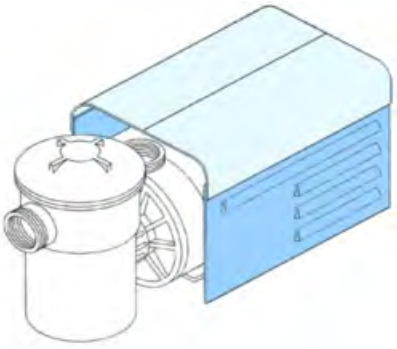


AGLFB19

Ladder Bumper Features:

- White, molded EPDM.

Part Number	Description	Fits Tubes	Ctn Qty
AGLFB19	Male Ladder bumper	1.9" OD	200



B8200C

Universal Motor Cover Features:

- Fits all motors from 1/3 hp to 2 hp.
- Shields and protects outdoor motors from sun, rain and dust.
- Made of heavy duty plastic for long life and durability.
- Heat resistant white top and attractive blue sides.
- Sturdy, will not fade from sun or ultraviolet rays.
- Assembles in minutes. No tools needed.

Part Number	Description	Ctn Qty
B8200C	Universal Motor Cover	12

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Pool Service Tools - Multipurpose Tools



MW, CWMP, RPNH

Wingmaster® Plus Tool Features:

- The all in one **patented** tool for pool technicians.
- **Original** Wingmaster® Plus includes 7" cylinder, hexbar and hand knob.
- 5" Mini tool fits in tight spots such as main drains and skimmers.
- Nylon holster available separately.
- **US Patent #6,374,708**

Typical Applications



Tighten/loosen winterizing and pressure testing plugs



Remove plugs from pipe using threaded end tool or adapter



Install/remove slotted plugs



Install/remove flush plugs



Raise/lower safety cover anchors (1/4" and 3/16" hex)



Hold plugs in place for vacuuming

Part Number	Description	Ctn Qty
CWMP	Wingmaster Plus Tool 7"	1
MW	Mini Wingmaster Plus Tool 5"	1
RPNH	Nylon Holster for CWMP/MW	1

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Pool Service Tools - Anchor, Shell Extractor Kits



Wingmaster® Anchor Extractor Features:

- Removes old cover anchors including anchors with escutcheons with the special design feature of the anchor extractor.
- **Anchor Extractor available only in NANSK or NANSK2 kit.**

To remove safety cover anchors:



1. Thread anchor with tap



2. Turn stud in anchor
3. Place extractor over stud
4. Thread castle nut onto extractor.



5. Attach tool. Turn clockwise to remove anchor.



6. Place square tip of stud into tool to remove old anchor from extractor.



Part Number	Description	Ctn Qty
JS	Hardened Stud (For 10-15 pulls)	1
CN	Castle Nut	1



KEMB

KEMB - Wingmaster® Castle Nut Driver Features:

- Tightens and loosens Castle Nut (CN) with use of cordless screw gun.
- Used in the removal of safety cover anchors with the NANSK Kit.
- Works with 5/16 Tap for the tapping (threading) of cover anchors.

Part Number	Description	Ctn Qty
KEMB	Castle Nut Driver	1



NANSE

Wingmaster® Shell Extractor Kit Features:

- Removes brass anchor shells - pop-up or threaded style.
- Includes SEW wrench, 11/16 tap and shell adapter.
- Wrench and tap available separately.
- **Shell Adapter available only with NANSE kit.**



1. Insert tap in pop-up shell to create threads (For threaded shell proceed to 2)



2. Thread adapter into shell



3. Thread stud in adapter 1/4"



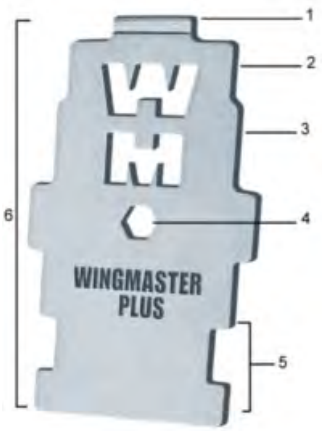
4. Place tool on castle nut and turn clockwise to remove anchor

Part Number	Description	Ctn Qty
NANSE	Shell Extractor Kit	1
SEW	Shell Extractor Wrench	1
TAP1116	Tap 11/16	1

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Pool Service Tools - Multipurpose Keys



WK

Wingmaster® Key Features:

Multipurpose, stainless steel service tool.

1. Screwdriver.
2. Install/remove 3-way Hayward valve unions.
3. Install/remove directional fittings.
4. Use hex bar through center hole for more turning and torque.
5. Install/remove universal wall fittings.
6. Install/remove Waterway Poly Jet series face ring.



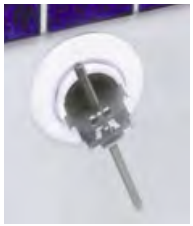
1. Screwdriver to raise/lower slotted anchors.



2. Install/remove 3-way Hayward valve unions



3. Install/remove directional wall fittings

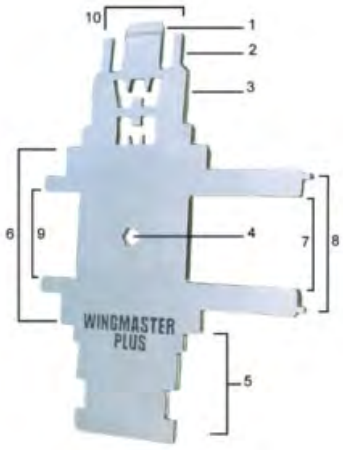


4-5. Install/remove universal wall fittings. Place hex bar in hole for more turning and torque.



6. install / remove Waterway Poly Jet series face ring.

Part Number	Description	Ctn Qty
WK	Wing Key	1



WKJ

Wingmaster® Jet Key Features:

Multipurpose, stainless steel service tool.

1. Screwdriver.
2. Install/remove 3-way Hayward valve unions.
3. Install/remove directional fittings.
4. Use hex bar through center hole for more turning and torque.
5. Install/remove Polaris/Letro universal wall fittings.
6. Install/remove Waterway Poly Jet face rings.

7-8. Install/remove Hayward jet nozzle retaining rings or broken ring tips.

9. Insall/remove Hydro-Air spa jet face ring.
10. Install/remove Hydro-Air (Slim-line) face ring.



7. Install/remove Hayward jet nozzle retaining ring.



8. Install/remove broken Hayward retaining ring tips.



9. Install/remove Hydro-Air spa jet face ring



10. Install/remove Hydro-Air Slimline face ring.

Part Number	Description	Ctn Qty
WKJ	Jet Key	1

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Pool Service Tools - Service Kits



NANSK



*

Wingmaster® Plus Service Kit Features:

7" Multipurpose Wingmaster Plus tool, Anchor Extractor, Wing Key and carrying case.

Includes:

- Hand knob, cylinder, hex bar
- Anchor extractor, castle nut, hardened stud
- Anchor extractor for anchors with escutcheons (NANSK2 only).
- Wing key
- 12/24 tap
- 5/16 tap
- Molded Carrying case
- Wingmaster® Plus Tool. **US Patent # 6,374,708**

Part Number	Description	Ctn Qty
NANSK	Wingmaster Plus Service Kit	1
NANSK2*	Wingmaster Plus Service Kit	1
MHK	Hand Knob	1
MHB	Hex Bar	1
JS	Hardened Stud (For 10-15 pulls)	1
CN	Castle Nut	1
TAP1224	Tap 12-24	1
TAP516	Tap 5-16	1
BMC	Blow Molded Case	1

* Includes anchor extractor for removal of anchors with escutcheons.



KAAK



CTW RSW XPLUG MW



SQW

SPW

Wingmaster® Plus Multipurpose Accessory Kit Features:

Wrenches for multiple applications, packed in molded and padded case.

Includes:

- Caretaker Wrench
- Recessed Square Plug Wrench
- "X" Plug Wrench (JoSam)
- Square Plug Wrench
- Slotted Wrench for 1022 raised bar plug
- Mini Wingmaster® Plus Tool. **US Patent # 6,374,708**

Part Number	Description	Ctn Qty
KAAK	Multipurpose Accessory Kit	1
CTW	Caretaker Wrench	1
XPLUG	X Plug (JoSam)	1
SQW	Square Plug Wrench	1
SPW	Slotted Plug Wrench	1
MW	Mini Wingmaster Tool 5"	1

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Pool Service Tools - Accessories



WB

Wingmaster® Bar Features:

- Raise or lower cover anchors from a standing position.
- Fits 1/4" and 3/16" anchors.
- Overall bar length is 32".

Part Number	Description	Ctn Qty
WB	Bar	1



OTWAB

Wingmaster® Wing Bit Features:

- Countersinks wood anchor flush to deck.
- Simple, fast and flush every time.
- Comes with 1 1/2" blade.
- 2" blade (Meyco) available.
- **US Patent # 7,264,427**







Part Number	Description	Ctn Qty
OTWAB	Wing Bit w/ 1 1/2" blade	1
OTRB1.5	Replacement Blade 1 1/2"	1
OTRB2	Replacement Blade 2"	1



HRVS

Wingmaster® Hydrostatic Tool Features:

- Install or remove hydrostatic relief valves in main drain or Sylvan “X" plug (JoSam) and floor return cap.



Remove/install Hayward hyrdostatic relief valve in main drain





Install/remove Sylvan floor return cap and “X" plug (JoSam)

Part Number	Description	Ctn Qty
HRVS	Hydrostatic Tool	1

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SCRT

Wingmaster® Easy Lift™ Spring Cover Removal Tool Features:

- Quick and easy installation and removal of cover springs with T-handle and quick spring grip.
- Stainless Steel T handle allows for greater leverage.

Includes 1/4" and 3/16" stainless steel Allen wrenches to raise/lower anchors.

- 33" long steel bar.

Part Number	Description	Ctn Qty
SCRT	Spring Cover Removal Tool	1



LAW

Wingmaster® Anchor Socket Washer Features:

- Contoured washer to fit handrail and ladder anchor sockets.
- Fits up to 3/8" bolt.
- Insures a tight fit for safety.
- Allows bolt to have flush fit and wider coverage around anchor socket.
- Completes pool bonding.

Part Number	Description	Ctn Qty
LAW25	Anchor Socket Washers, 25 pack	1



WMSK

Wingmaster® Stencil Kit Includes:

- High quality stencils made of stainless steel.
- Numbers: 0,1,2,3,4,5,6,7,8,9, 1/2
- Letters for FEET, INCH, DEEP.
- NO DIVING symbol and words
- 2" high letters for FEET DEEP, INCHES DEEP.
- 3 top over spray panels.
- Molded storage case included.

Part Number	Description	Ctn Qty
WMSK4	Wing Stencil Kit, 4" high	1

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Pool Service Tools - Accessories



PDT

Wingmaster® Pipe Deburr Features:

- Removes PVC burrs from inside and outside of all size pipe.
- Cleans out pump impellers.
- Replacement blades available.



Part Number	Description	Ctn Qty
PDT	Pipe Deburr Tool	1
PDRB	Pipe Deburr Replacement Blade	1



MH

Wingmaster® Multi-Handle Features:

- Attaches to many pool maintenance tools to shorten poles for easier use in spas and tight spaces.
- Two holes to accept delcron spring clips.
- Plastic handle cover for sure grip.
- Use with skimmer nets, wall brushes and pumice stones.
- Use with 4" and 8" algae brushes for cleaning heat exchangers.

Part Number	Description	Ctn Qty
MH	Multi Handle	1



BC

Wingmaster® Burner Cleaner Features:

- Blow-through tube for hookup to compressed air.
- Textured (knurled) and curved end to grab spider webs.
- Easy access to accumulated debris in heater orifices.
- Works on Pentair, Zodiac and Hayward heaters.

Part Number	Description	Ctn Qty
BC	Burner Cleaner	1



DSSB

Wingmaster® Drain Screw Security Bit Features:

- Tighten and loosen uni-screw for drain safe lids.

Part Number	Description	Ctn Qty
DSSB	Drain Screw Security Bit	1

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Winterizing Plugs



HWP Flush Plug



HWP Raised Plug



HWP Rubber Plug



Winterizing Plug Applications:

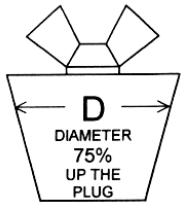
- Safely seals swimming pool inlets and outlets against freezing.
- Temporary pluggings of any water system application for either pipe or fitting sizes.

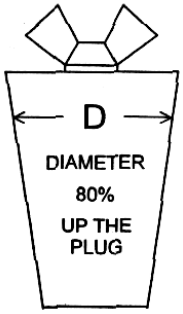
Plastic 1-1/2" Threaded Plug Features:

- Heavy duty, white ABS construction.
- EPDM o-ring is resistant to extreme weather & chemical corrosion.
- Gives a positive seal–no leaking.
- Available in raised or flush style.

Rubber Expansion Plug Features:

- Stainless steel screw and washers.
- Nylon wing nut provides easier turning in cold temperatures, providing greater tightness than conventional plugs.
- Tapered.





Part Number	D (in)	Plug Size	Used For	Case/Ctn Qty
Plastic				
HWP1022B(Flush)	1-1/2"	White	1 1/2" fip	1000/50
HWP1022C(Raised)	1-1/2"	White	1 1/2" fip	1000/50
Rubber				
HWP2000	0.46	000	3/8" pipe	500/50
HWP200	0.63	0	1/2" pipe	500/50
HWP201	0.70	1	1/2" pipe	500/50
HWP202	0.75	2	3/4" tube	500/50
HWP203	0.89	3	3/4" pipe	500/50
HWP204	0.96	4	3/4" & 1" pipe	500/50
HWP205	1.02	5	1" tube	500/50
HWP2055	1.06	5 1/2	1" pipe	500/50
HWP206	1.20	6	1" fitting	500/50
HWP2065	1.27	6 1/2	1 1/4" pipe	200/20
HWP207	1.39	7	1 1/4" pipe	200/20
HWP2075	1.46	7 1/2	1 1/2" pipe	200/20
HWP208	1.54	8	1 1/2" pipe	200/20
HWP2085	1.62	8 1/2	1 1/2" pipe	200/20
HWP209	1.69	9	1 1/2" pipe & 1 1/4" ftg	200/20
HWP2095	1.73	9 1/2	1 1/2" fitting	200/20
HWP20975	1.81	9 3/4	1 1/2" fitting (for SP1023G)	200/20
HWP210	1.89	10	1 1/2" fitting	60/10
HWP211	2.13	11	2" pipe	60/10
HWP212	2.42	12	2" fitting	60/10
HWP213	2.58	13	2 1/2" pipe	30/5
HWP2135	2.82	13 1/2	3" pipe	40/5
HWP214	3.40	14	3" pipe	30/5
HWP215	3.86	15	4" pipe	30/5
HWP216	4.64	16	4" pipe	20/4
HWP1-5	1.02	01-05	Universal tapered 01-05	250/50
HWP5-7	1.36	05-07	Universal tapered 05-07	100/20
HWP7-10	1.78	07-10	Universal tapered 07-10	100/20

Winterizing Plugs

Extended Plug Features:

- Non-corrosive construction of heavy duty nylon wingnuts, stainless steel washers, spacers and high quality rubber.

Double Plug Features:

- Non-corrosive construction of heavy duty nylon wingnuts, stainless steel washers, spacers and high quality rubber with brass stem.

Blow Through Plug Features:

- Non-corrosive construction of heavy duty nylon wingnuts and caps, stainless steel washers, high quality rubber, extended brass air valve w/ spring loaded core.



HWP Extended Shaft



HWP Double Plug



HWP Blow Through



HWP Blow Through Universal Tapered

Part Number	Plug Size	Case/Ctn Qty
Rubber Extended Shaft Plugs		
HWP202X	2	250/50
HWP203X	3	250/50
HWP204X	4	250/50
HWP205X	5	250/50
HWP206X	6	250/50
HWP207X	7	200/20
HWP208X	8	200/20
HWP209X	9	200/20
HWP210X	10	60/10
Double Plugs	**top x bottom x spacing length x top spacer**	
HWP98DP35	Anthony "L3" 09 x 08 x 3.5" x 2.3"	40/10
Blow-through Plugs		
HWP202BT	2	500/50
HWP203BT	3	500/50
HWP204BT	4	500/50
HWP205BT	5	500/50
HWP206BT	6	200/50
HWP207BT	7	200/20
HWP208BT	8	200/20
HWP209BT	9	200/20
HWP2095BT	9 1/2	60/10
HWP210BT	10	60/10
HWP211BT	11	60/10
HWP212BT	12	60/10
HWP1-5BT	Universal Tapered 01 - 05	250/50
HWP5-7BT	Universal Tapered 05 - 07	100/20
HWP7-10BT	Universal Tapered 07 - 10	100/20

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Winterizing Accessories



SKG Series

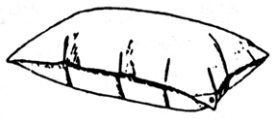






DCWT Series





AP44

Winterizing accessories for pool closings

SKG Skimmer Guard Features:

- Installs in skimmer to prevent freezing and breakage.
- Ends are threaded for 1 1/2" and 2" applications.
- SKG-H with blowout hole, o-ring seals to allow skimmer lines to be blown out without dropping water level.
- SKG9H fits SP1090 series skimmers.
- SKG16H fits SP1070 and SP1080 series skimmers.

Water Tube and Air Pillow Features:

- Single and double tubes available.
- Double chambers extend life of water tubes.
- 12 and 20 mil thickness on tubes. 12 mil on pillows.
- Used for weighing down winter covers on inground pools.

Part Number	Description	Color	Ctn Qty
Skimmer Guards			
SKG9	9" Skimmer guard	Teal-Green	36
SKG9H	9" Skimmer guard w/ blowout hole	Teal-Green	36
SKG16	16" Skimmer guard	Teal-Green	24
SKG16H	16" Skimmer guard w/ blowout hole	Teal-Green	24
Water Tubes			
SCWT8	8’ Single chamber, 12 mil	Blue	36
SCWT8-20	8’ Single chamber, 20 mil	Blue	24
SCWT10	10’ Single chamber, 12 mil	Blue	30
DCWT8	8’ Double chamber, 12 mil	Blue	36
DCWT10	10’ Double chamber, 12 mil	Blue	30
DCWT8-20	8’ Double chamber, 20 mil	Blue	24
DCWT10-20	10’ Double chamber, 20 mil	Blue	24
Air Pillows			
AP44	4’ x 5’ Air pillow, 12 mil	Blue	24
AP48	4’ x 8’ Air pillow, 12 mil	Blue	12

Pool Cover & Utility Pumps



CCP300



CCP350 / CCP500

Pool Cover Pump Features:

- Magnetic drive motor - Only one moving part.
- Completely submersible.
- Easily hooks up to any standard 3/4" garden hose.
- Extra-long 25' power cord with grounded plug.
- Sturdy ceramic shaft impeller.
- Includes easy clean clog resistant foam filter.
- 1 year warranty.
- Listed to UL and cUL standards.

Part Number	Description	Max Output	Max Pump Height	Ctn Qty
CCP300	Pool Cover Pump	300 gph	6'	18
CCP350	Pool Cover Pump	350 gph	7'	6
CCP500	Pool Cover Pump	500 gph	10.5'	6



91025 & 91330

Submersible Utility Pump Features:

- 1/5 & 1/3 HP motors, 120 v, 60 Hz
- Corrosion resistant construction.
- 10' waterproof power cord.
- Clog resistant open type impeller.
- Fits in 6" opening.
- Capacities of 26 & 40 gpm.
- 3 year limited warranty.

PANELLI

Specifications:

Discharge: 1 1/4" MNPT or 3/4" GHT
Housing & Base: Thermoplastic
Impeller: Thermoplastic
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected



92250 & 92330

Submersible Sump Pump Features:

- 1/4 & 1/3 HP motors, 120 v, 60 Hz
- Corrosion resistant construction.
- 10' waterproof power cord.
- Clog resistant open type impeller.
- Switch turns on at 9", off at 4".
- Handles 1/8" solids.
- 3 year limited warranty.

Specifications:

Discharge: 1 1/4" MNPT
Housing & Base: Thermoplastic
Impeller: Thermoplastic
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected

Model No.	HP	Gallons per minute at discharge height in feet 0'	5'	10'	15'	20'	25'	Min. Lift	Min. Amps
SP91025	1/5	26	21	14	10	7	1	25'	3.6
SP91330	1/3	40	34	28	22	12	2	25'	4.1
SP92250	1/4	30	22	20	16	9	2	25'	3.8
SP92330	1/3	40	34	28	22	12	2	25'	4.1

NOTE: Use of smaller diameter pipe, or long runs of pipe, will result in lower flow rates than those shown.

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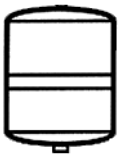
PUMP & WELL



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Pump Tanks - Sourceline™



INLINE MODELS

- Appliance Gray finish
- Maximum working temperture: 200°F.
- Maximum working pressure: 100 PSIG
- **Third party certified to NSF/ANSI61&372**

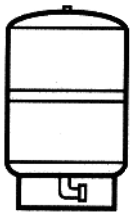
ANSI/NSF 61

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Sourceline PRE-PRESSURIZED WATER SYSTEM TANK BY AMERICAN GRANBY™

Shipping Part Number	System Dimensions (ins) Dia	Height	Total Precharge Volume (gal)	Max Accept Factor	Drawdown (gal) 20/40	30/50	40/60	Wt (Vol) lbs (cu ft)	Pallet Qty	Conn. NPTM	Pressure (psig)
SL2I	8	12 5/8	2.0	0.45	0.8	0.7	0.6	5 (0.6)	75	3/4"	18
SL4I	11	15	4.4	0.55	1.8	1.5	1.3	9 (1.2)	48	3/4"	18
SL8I	11	22 1/4	7.4	0.43	3.1	2.6	2.2	15 (2.0)	32	3/4"	28

* NPTF connection.



VERTICAL STAND MODELS

- Appliance Gray finish
- Malleable elbow system connection.
- Maximum working temperture: 200°F.
- Maximum working pressure: 100 psig
- **Third party certified to NSF/ANSI 61&372.**

ANSI/NSF 61

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Part Number	Dimensions (ins) Dia	Height	Total Volume (gal)	Max Accept Factor	Drawdown (gal) 20/40	30/50	40/60	Shipping Wt (Vol) lbs (cu ft)	Pallet Qty	System Conn. NPTF	Precharge Pressure (PSIG)
SL14V	15 3/8	25 1/8	14.0	0.81	5.6	4.8	4.1	25 (3.8)	18	1"	38
SL32V	15 3/8	46 1/2	32.0	0.35	-	10.9	9.4	43 (7.0)	9	1"	38
SL34V	22	29 5/8	34.0	1.00	13.7	11.6	10.0	61 (9.5)	4	1 1/4"	38
SL44V	22	36	44.0	0.77	17.7	15.0	12.9	69 (11.0)	4	1 1/4"	38
SL62V	22	46 3/4	62.0	0.55	24.9	21.1	18.2	92 (13.9)	4	1 1/4"	38
SL86VS	26	47 1/4	86.0	0.54	34.6	29.2	25.3	123 (18.9)	4	1 1/4"	38
SL119V	26	61 7/8	119.0	0.39	-	40.5	35.0	166 (24.5)	4	1 1/4"	38

Pump Tanks - Sourceline™

Sourceline
PRE-PRESSURIZED WATER SYSTEM TANK
BY AMERICAN GRANBY

Pre-Pressurized Water System Tanks Cross Reference

( ) represents total volume (gals.)

SOURCELINE™ Characteristics

- Projection welded airtight valve
- Durable steel tank with appliance-like finish
- Pre-pressurized, sealed-in air chamber
- Butyl/EPDM diaphragm isolates water from air
- Separate polypropylene liner
- 100% non-metallic reservoir
- Water-tight, welded system connection
- 100 PSIG maximum working pressure
- NSF Standard 61 listed

SOURCELINE™ Facts

- Seamless liner
- Diaphragm never creases like bladder tank designs
- No bubbles or corners to trap sediment
- Does not promote bacteria growth
- 5 year limited warranty

AGI Sourcline	Flexcon Challenger	Flexcon Well-Rite	AO Smith Goulds	Sta-Rite Pro-Source	State PermaAir	Elbi Top Pro	Wessels	Str. Fibers Well Mate	Amtrol Well-X-Trol	Amtrol Wel-Flo	Amtrol Champion	Amtrol ProLine
SL2I (2)	JR6(2.1)	JR6(2.1)	V6P(2)		PIL-2(2)	D-8(2.1)	FX8(2.1)		WX101(2)			
SL4I(4.4)	JR15(4.5)	JR15(4.5)	V15P(4.5)		PIL-5(4.6)	D-18(5)	FX19(5)	WM-2(3.6)	WX102(4.4)			
	JR44HS(5.2)	JR44HS(5.2)		PS15H-S05(6)			FX20H(5.3)		WX105PS(5.3)			
	JR20(6.0)	JR20(6.0)		PS15-S02(6)		D-25(6.5)						
SL8I(7.4)	JR25(8.5)	JR25(8.5)	V25P(8.2)		PIL-7(7.3)				WX103(7.4)			
SL14V(14)	PC44(14)	WR45(14)	V45P(13.9)	PS30-T01(14)	PAD-14(14)	DV-50(13.5)	FX60V(16)	WM-4(14.5)	WX201(14)	WF45(14)	CH3001(14)	CA3001(14)
SL32V(32)	PC111(32)	WR100(32)	V100(31.8)	PS75T-T03(32)				WM-9(29.5)	WX203(32)	WF100(32)	CH8003(32)	CA8003(32)
SL34V(34)	PC122(33.4)	WR120(33.4)		PS82T-T05(35)	PAD-36S(36)				WX205(34)	WF110(34)	CH8205(34)	CA8205(34)
SL44V(44)	PC144(44)	WR140(44)	V140(45.2)			DV-150(40)		WM-12(40.3)	WX250(44)	WF140(44)	CH10050(44)	CA10050(44)
				PS120-T50(50)	PAD-52(52)		FX200V(52)					
SL62V(62)	PC211(62)	WR200(62)	V200(65.1)	PS200-T51(62)		DV-200(53)		WM-20WB(60)	WX251(62)	WF200(62)	CH12051(62)	CA12051(62)
SL86VS(86)	PC266(85)	WR260(85)	V250(83.5)	PS220-T52(85)		DV-300(80)	FX300V(80)	WM-25WB(86.7)	WX302(86)	WF260(86)	CH17002(86)	CA17002(86)
					PAD-96(96)							
SL119V(119)	PC366(119)	WR360(119)	V350(115.9)		PAD-119(119.5)	DV-450(119)		WM-35WB(119.7)	WX350(119)	WF360(119)	CH22050(119)	CA22050(119)
						DV-500(132)	FX500V(132)					

Equipment Pads

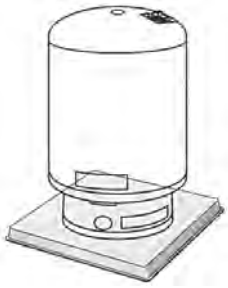


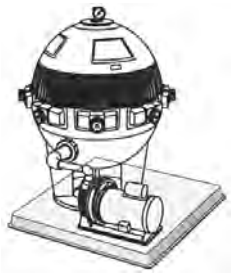


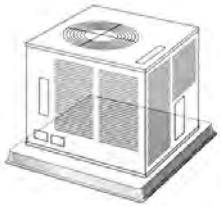


The EcoPad™ Features:

- 98% recycled polypropylene plastic mounting pad.
- Environmentally friendly alternative to concrete due to recycled content.
- Designed to support HVAC outdoor units and other outdoor equipment like well equipment, pool pumps and filters.
- Optimized rib pattern provides excellent support on soil and gravel.
- Pad should be placed on level soil, gravel, concrete or asphalt.
- Textured top surface to reduce slippage.
- Drillable for securing equipment. (1/4x1 3/4" Tapcon® recommended)
- Uneffected by UV exposure or extreme weather.
- Black
- Tested per ASTM C67 and ASTM D2299







Part Number	DISC Part Number *	Size	Pallet Qty
2" PADS			
EP2424-2		24" x 24" x 2"	44
EP3232-2		32" x 32" x 2"	22
EP3636-2		36" x 36" x 2"	22
EP3842-2		38" x 42" x 2"	16
3" PADS			
EP2424-3		24" x 24" x 3"	16
EP3030-3		30" x 30" x 3"	16
EP3232-3		32" x 32" x 3"	16
EP3636-3		36" x 36" x 3"	16
EP3648-3		36" X 48" X 3"	16

CLOSEOUT PRICING

2" PADS - * DISCONTINUED - LIMITED QUANTITIES AVAILABLE			
	ACP38422	38" x 42" x 2"	24
3" PADS - * DISCONTINUED - LIMITED QUANTITIES AVAILABLE			
	ACP24243	24" x 24" x 3"	16
	ACP32323	32" x 32" x 3"	16
	ACP36483DT	36" X 48" X 3"	16

Constant Pressure System Manifolds
NO LEAD Brass, Brackets



CPSM-NL Series

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

* ALS

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Constant Pressure System Manifold Features:

- No lead brass or 304 stainless steel manifold eliminates the need for extra tees, fittings & nipples required to install constant pressure pump systems.
- "NL" and "SS" Series are **third party certified to NSF/ANSI 372.**
- Easy to install, **13 1/2**" length provides plenty of room for tank and accessories. (Tank diameters up to 11" on 2" manifold.)
- Five ports allow installation for all needed plumbing accessories.
- 1" top port manifold allows for direct installation of FLEXCON, FLOW-THRU FT18 tank.
- Manifolds available with or without NL Bronze, PVC or SS bushings.

NO LEAD BRASS Part Number	Overall Length	Line Conn.	Tank Conn.	Transducer Port	Drain Ports	Gauge Port	Bushing	Ctn Qty
CPSM125BNL *	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	None	16
CPSM125PBNL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" Plastic	16
CPSM125BBNL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" NL Bronze	16
CPSM125PB3/4x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" Plastic	16
CPSM125BB3/4x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" NL Bronze	16
CPSM125-100BNL *	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	None	16
CPSM125-100PBNL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/4" Plastic	20
CPSM125-100BBNL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/4" NL Bronze	20
CPSM125-100PB1x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" Plastic	20
CPSM125-100BB1x1/2NL	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" NL Bronze	20

Please see Stainless Steel manifolds on next page.



Constant Pressure System Manifold Mounting Brackets:

- Dual mounting brackets allow secure manifold placement with tank.
- Zinc-plated, heavy gauge steel tubing, all stainless steel mounting screws, locknuts, U-bolts, plastic end plugs.
- Brackets can be mounted two ways to allow for mounting flexibility.
- Brackets measure 8" x 12 1/2".
- 1 set includes 2 brackets & hardware.



Part Number	Size	Manifold Size	Ctn Qty	List Price
CPSMMB	8" x 12 1/2"	1 1/4"	8	
CPSMMB200	8" x 12 1/2"	2"	8	

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Constant Pressure System Manifolds - 304SS



CPSM-SS Series

304 STAINLESS Part Number	Overall Length	Line Conn.	Tank Conn.	Transducer Port	Drain Ports	Gauge Port	Bushing	Ctn Qty
CPSM125SS	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	None	16
CPSM125SSPB	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" PVC	16
CPSM125SSPB3/4x1/2	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" PVC	16
CPSM125SSB	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/4" 304 SS	16
CPSM125SSB3/4x1/2	13 1/2"	1 1/4" mpt x 1" fpt	3/4" fpt	3/4" (1)	3/4" (2)	1/4" (1)	3/4"x1/2" 304 SS	16
CPSM125-100SS	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	None	
CPSM125-100SSPB1x1/2	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" PVC	
CPSM125-100SSB	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/4" 304 SS	
CPSM125-100SSB1X1/2	13 1/2"	1 1/4" mpt x 1" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/2" 304 SS	
CPSM200-100SS	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	None	
CPSM200-100SSPB	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/4" PVC	
CPSM200-100SSPB1x1/2	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" x 1/2" PVC	
CPSM200-100SSB	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/4" 304 SS	
CPSM200-100SSB1X1/2	13 1/2"	2" mpt x 1 1/2" fpt	1" fpt	1" (1)	3/4" (2)	1/4" (1)	1" X 1/2" 304 SS	

Installation Packages - Constant Pressure, NO LEAD



HARVARD NO LEAD Brass Constant Pressure System Manifold Installation Packages

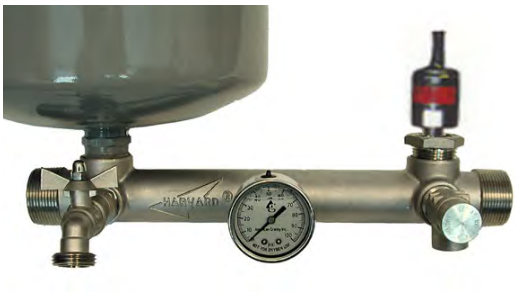
- All kits contain:
  - EIPG1002-4BNL 0-100# NL pressure gauge
  - IRV75-100NL 3/4" x 100# NL brass relief valve
  - IHBB75NL NL brass 1/4 turn hose bibb
  - 13 1/2" long manifold as listed below for each kit
  - PVC or NL bronze bushing as listed below for each kit
  - optional CPSMMB mounting bracket

All **components are certified to NSF/ANSI 371** except the CPSMMB.

Part Number	Additional Components	
IPCPSM125PBNL	• CPSM125BNL	11/4" No Lead brass Manifold
	• 439-098	3/4"x1/4" **PVC Sch 40 bushing**
IPCPSM125PBNLMB	Components above plus	
	• CPSMMB	1 1/4" Mounting bracket
IPCPSM125BBNL	• CPSM125BNL	11/4" No Lead brass Manifold
	• NLBB3/4x1/4	3/4"x1/4" **No Lead bronze bushing**
IPCPSM125BBNLMB	Components above plus	
	• CPSMMB	1 1/4" Mounting bracket
IPCPSM125PB3/4X1/2NL	• CPSM125BNL	11/4" No Lead brass Manifold
	• 439-101	3/4"x1/2" **PVC Sch 40 bushing**
IPCPSM125PB3/4x1/2NLMB	Components above plus	
	• CPSMMB	1 1/4" Mounting bracket
IPCPSM125BB3/4X1/2NL	• CPSM125BNL	11/4" No Lead brass Manifold
	• NLBB3/4x1/2	3/4"x1/2" **No Lead bronze bushing**
IPCPSM125-100BBNL	• CPSM125-100BNL	11/4" No Lead brass Manifold
	• NLBB1x1/4	1"x1/4" **No Lead bronze bushing**
IPCPSM125-100BBNLMB	Components above plus	
	• CPSMMB	1 1/4" Mounting bracket
IPCPSM125-100BB1X1/2NL	• CPSM125-100BNL	11/4" No Lead brass Manifold
	• NLBB1x1/2	1"x1/2" **No Lead bronze bushing**
IPCPSM125-100BB1x1/2NLMB	Components above plus	
	• CPSMMB	1 1/4" Mounting bracket

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Installation Packages - Constant Pressure Stainless Steel



HARVARD STAINLESS STEEL Constant Pressure System Manifold Installation Packages

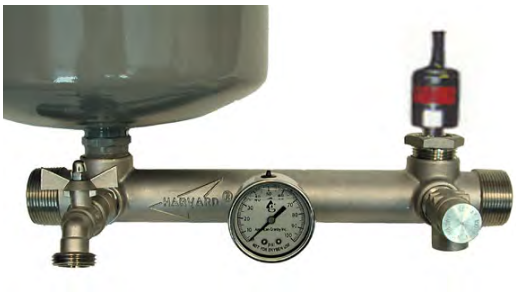
- Available with or without a mounting bracket.

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Part Number	Components	Length
IPCPSM125SSPB		13 1/2"
• CPSM125SS	1 1/4" SS Constant Pressure System Manifold	
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount	
• IHBB75SS	3/4" SS 1/4 turn hose bibb	
• IRV75-100SS	3/4" SS relief valve (100 psi preset)	
• 439-101	3/4"x 1/2" PVC bushing	
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape	
IPCPSM125SSPBMB		
Components above plus		
• CPSMMB	1 1/4" Mounting bracket	
IPCPSM125SSB		13 1/2"
• CPSM125SS	1 1/4" SS Constant Pressure System Manifold	
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount	
• IHBB75SS	3/4" SS 1/4 turn hose bibb	
• IRV75-100SS	3/4" SS relief valve (100 psi preset)	
• SSHB3/4x1/2	3/4"x 1/2" SS bushing	
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape	
IPCPSM125SSBMB		
Components above plus		
• CPSMMB	1 1/4"" Mounting bracket	

IPCPSM125-100SSPB		13 1/2"
• CPSM125-100SS	11/4" SS Constant Pressure System Manifold	
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount	
• IHBB75SS	3/4" SS 1/4 turn hose bibb	
• IRV75-100SS	3/4" SS relief valve (100 psi preset)	
• 439-130	1"x 1/2" PVC bushing	
• 439-131	1" x 3/4" PVC bushing	
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape	
IPCPSM125-100SSPBMB		
Components above plus		
• CPSMMB	1 1/4" Mounting bracket	
IPCPSM125-100SSB		13 1/2"
• CPSM125-100SS	11/4" SS Constant Pressure System Manifold	
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount	
• IHBB75SS	3/4" SS 1/4 turn hose bibb	
• IRV75-100SS	3/4" SS relief valve (100 psi preset)	
• SSHB1x1/2	1"x 1/2" SS bushing	
• SSHB1x3/4	1" x 3/4" SS bushing	
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape	
IPCPSM125-100SSBMB		
Components above plus		
• CPSMMB	1 1/4" Mounting bracket	

Installation Packages - Constant Pressure Stainless Steel



HARVARD STAINLESS STEEL Constant Pressure System Manifold Installation Packages

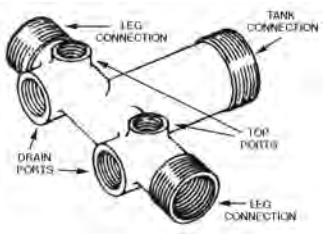
- Available with or without a mounting bracket.

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Part Number	Components	Length
IPCPSM200-100SSPB		13 1/2"
• CPSM200-100SS	2" SS Constant Pressure System Manifold	
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount	
• IHBB75SS	3/4" SS 1/4 turn hose bibb	
• IRV75-100SS	3/4" SS relief valve (100 psi preset)	
• 439-130	1"x 1/2" PVC bushing	
• 439-131	1" x 3/4" PVC bushing	
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape	
IPCPSM200-100SSPBMB		
Components above plus		
• CPSMMB200	2" Mounting bracket	
IPCPSM200-100SSB		13 1/2"
• CPSM200-100SS	2" SS Constant Pressure System Manifold	
• EILPG1002-4BSS316	100lb All SS liquid filled pressure gauge, 1/4" SS back mount	
• IHBB75SS	3/4" SS 1/4 turn hose bibb	
• IRV75-100SS	3/4" SS relief valve (100 psi preset)	
• SSHB1x1/2	1"x 1/2" SS bushing	
• SSHB1x3/4	1" x 3/4" SS bushing	
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape	
IPCPSM200-100SSBMB		
Components above plus		
• CPSMMB200	2" Mounting bracket	

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Tank Crosses - Short Cast NO LEAD Brass



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- **NO LEAD** brass tank crosses are **third party certified to NSF/ANSI 372.**

* **NO LEAD** brass tank crosses are **third party certified to NSF/ANSI 61&372.**





CHT100FBSNL



CHT125BSNL

NO LEAD BRASS Short Cast Crosses w/ 1 drain & 2 or 3 top ports.

*

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CHT100FBSNL	2 1/2"	1" fpt	1" X 3/4"	3/4" (1)	1/4" (2)	NL Brass	Import	5/40
CCAT100BSNL *	4 1/4"	1" x 3/4"	1" x 3/4"	1/2" (1)	1/4" (2), 1/2" (1)	NL Brass	Import	4/40
CHC125BNL	4 1/4"	1 1/4" x 1"	1" x 3/4"	1/2" (1)	1/4" (3)	NL Bronze	USA	12
CHC12550BSNL *	4 1/2"	1 1/4" x 1"	1" x 3/4"	3/4" (1)	1/4" (2)	NL Brass	Import	5/40
CHT125BSNL *	3 3/4"	1 1/4" x 1"	1 1/4" x 1"	3/4" (1)	1/4" (2)	NL Brass	Import	5/30
CIC125BSNL *	4 1/4"	1 1/4" x 1"	1" x 3/4"	3/4" (1)	1/4" (2), 1/2" (1)	NL Brass	Import	4/40



NO LEAD BRASS Short Cast Crosses with 2 drain & 2 top ports.

*

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CICS100BNL	4 3/4"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze	USA	12
CICS100BSENL *	4 1/2"	1" x 3/4"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	4/24
CIC3125BNL	5"	1 1/4" x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Bronze	USA	12
CIC3125BSENL *	4 1/2"	1 1/4" x 1"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	4/32
CIC71250BSNL *	4 1/2"	1 1/4" x 1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40
CIC712BNL	4"	1 1/4" x 1"	1" x 3/4"	3/4" (2)	1/4" (2)	NL Bronze	USA	12

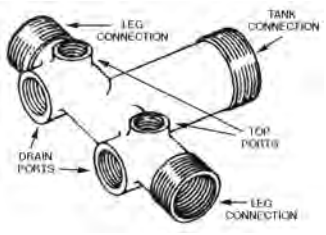


NO LEAD BRASS Short Cast Crosses with Union Disconnect

- Metal to metal ball joint leak proof seal.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CICS100BSUENL *	5 1/2"	1"	1"x3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	4/24
CICS125BSUENL *	5 1/2"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	4/24

Tank Crosses - Short Cast NO LEAD Brass



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- **NO LEAD** brass tank crosses are **Third party certified to NSF/ANSI 372.**

*** NO LEAD** brass tank crosses are **third party certified to NSF/ANSI 61&372.**





NO LEAD BRASS Short cast crosses
Use with Flexcon Flex-Lite Series, WellMate Tanks

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

*

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Part Number		Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CWM100BSNL	*	4 1/2"	1" (FIP)	1"x3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40
CWM125BSNL	*	4 3/4"	1 1/4" (FIP)	1 1/4"x1"	3/4" (2)	1/4" (2)	NL Brass	Import	4/32
CICS736BSNL	*	2 1/2"	1 1/4" MIP x 1" FIP	1"x3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40
CIC736BNL			1" (FIP)	1" x 3/4"	1/4" (2)	1/2" (2)	Silicon Bronze	USA	12



NO LEAD BRASS Short cast female union tank crosses
Use with Flexcon "Flex-Lite" Series, WellMate Tanks.
FPT brass union w/ American Standard Buna-N o-ring.

- 1" uses AS 568-212 o-ring
- 1 1/4" uses AS 568-320 o-ring.

LOW-LEAD IAPMO R&T *

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Part Number		Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CICS100BSFTUNL	*	4"	1" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	4/32
CICS1251BSFTUNL	*	4"	1 1/4" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	4/32
CICS125BSFTUNL	*	4"	11/4" fpt union	11/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	4/24



NO LEAD Short Cast Quick Connect (w/ Buna-N o-ring) Crosses With alignment tabs for use with Well Mate "Quick Connect" Series Tanks.

- 1" and 1 1/4" uses AS568-220 o-ring.

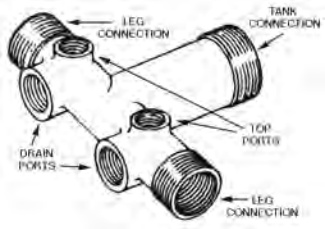
ALS NSF/ANSI/CAN 61-4 & 372

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CWM100BSQCNL	5"	Quick Connect	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/24
CWM125BSQCNL	5"	Quick Connect	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	2/24

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Tank Crosses - Short Cast NO LEAD Brass



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- **NO LEAD** brass tank crosses are **Third party certified to NSF/ANSI 372.**



NO LEAD BRASS Short cast crosses for use with Flexcon Well-Rite, Online Series

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CFC100BSNL	4 1/2"	1" Union Th.	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	5/40
CFC125BSNL	4 1/2"	1 1/4" Union Th.	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	5/30

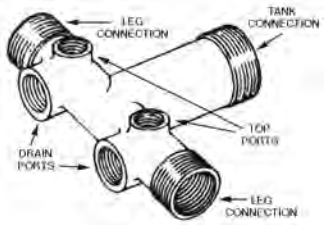


NO LEAD BRASS Compact cast crosses with 1 drain & 2 top ports

*

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
TM100BSNL *	2 1/2"	1" (FIP)	1" (FIP)	1/2" (1)	1/4" (2)	NL Brass	Import	5/50
TM125BSNL *	3"	1 1/4" (FIP)	1 1/4" (FIP)	3/4" (1)	1/4" (2)	NL Brass	Import	5/50

Tank Crosses - Short Cast Stainless Steel



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- 304 Cast Stainless Steel.
- Stainless Steel tank crosses are **third party certified to * NSF/ANSI 61&372**



304 Stainless Steel Short Cast Crosses with 2 drain & 2 top ports.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CICS100SS *	4 1/2"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	5/40
CICS125SS *	4 1/2"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/24



304 Stainless Steel Short Cast Crosses with Union Disconnect

- PTFE captive gasket seal ring on 304 SS crosses.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CICS100SSU *	5 1/2"	1"	1"x3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	4/24
CICS125SSU *	5 3/4"	1 1/4"	1 1/4"x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/24



304 Stainless Steel Short cast crosses
Use with Flexcon Flex-Lite Series, WellMate Tanks

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CWM100SS *	4 3/4"	1" (FIP)	1"x3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	5/40
CWM125SS *	4 3/4"	1 1/4" (FIP)	1 1/4"x1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/32



304 Stainless Steel Short cast female union tank crosses

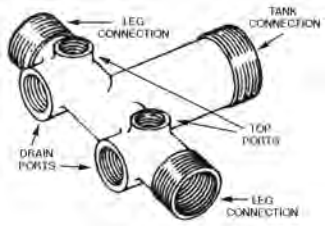
Use with Flexcon "Flex-Lite" Series, WellMate Tanks. FPT 304 Stainless Steel union w/ American Standard Buna-N o-ring.

- 1" uses AS 568-212 o-ring
- 1 1/4" uses AS 568-320 o-ring.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CICS100SSFTU *	4"	1" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	4/32
CICS1251SSFTU *	4"	1 1/4" fpt union	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	4/32
CICS125SSFTU *	4"	11/4" fpt union	11/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	4/24

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Tank Crosses - Short, PVC, Galvanized



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Injected molded PVC, galvanized ductile iron.
- Crosses are **third party certified to NSF/ANSI 372.**



Short Cast Crosses with 1 drain and 3 top ports.
*** DO NOT USE PTFE THREAD SEAL TAPE WITH PVC TANK CROSS APPLICATIONS. USE THREAD SEAL PASTE WITH OUT PTFE FOR PLASTIC THREADS ONLY.**

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CIC125	4 1/4"	1 1/4" x 1"	1" x 3/4"	3/4" (1)	1/4" (2), 1/2" (1)	PVC*	USA	100



Short cast galvanized crosses with one drain, two top ports

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
HC100G	3 3/4"	1" (FIP)	1" (FIP)	1/2" (1)	1/4" (2)	Ductile Iron	Import	30
HC10075G	4"	1" (FIP)	1" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	40
HC125G	3 3/4"	1 1/4" (FIP)	1 1/4" (FIP)	1/2" (1)	1/4" (2)	Ductile Iron	Import	24
HC12575G	4"	1 1/4" (FIP)	1 1/4" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	25



Short cast galvanized crosses with one drain, two top ports

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
IC100G	3"	1" (FIP)	1" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	28
IC125G	3 1/2"	1 1/4" (FIP)	1 1/4" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	24



Short cast galvanized crosses with two drain, two top ports

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
IC200G	3"	1" (FIP)	1" (FIP)	1/2" (2)	1/4" (2)	Ductile Iron	Import	48

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Tank Installation Packages - 1" Side Discharge

- **ALL tank installation package components contain no lead and are third party certified to NSF/ANSI 372.**



TP100BRNL	CCAT100BSNL	NO LEAD Brass 4 1/4"
• CCAT100BSNL	1" Short NO LEAD Brass Safety Tank Cross.	
• 9013FSG2 30/50	Pressure Switch.	
• B80-1/4 x 3	Brass Nipple.	
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge	
• IRV50NL	1/2" NO LEAD Brass Relief Valve	
• HNKD50NL	1/2" NO LEAD Brass No Kink Boiler Drain	



IPS100BSENL	CICS100BSENL	NO LEAD Brass 4 1/2"
• see above	1" Short NO LEAD Brass Tank Cross.	
• 9013FSG2	30/50 Pressure Switch.	
• B80-1/4 x 3	Brass Nipple.	
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge	
• IRV50NL	1/2" NO LEAD Brass Relief Valve	
• HNKD50NL	1/2" NO LEAD Brass No Kink Boiler Drain	



IPS100SSNL	CICS100SS	Stainless Steel 4 1/2"
• see above	1" Short Stainless Steel Cast Tank Cross.	
• 9013FSG2 30/50	Pressure Switch.	
• SS80-1/4 x 3	Stainless Steel Nipple.	
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge	
• IRV50SS	1/2" Stainless Steel Relief Valve	
• IHBB50SS	1/2" Stainless Steel Hose Bibb	
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape	



IPWM100BSNL	CWM100BSNL	NO LEAD brass 4 1/2"
IPWM100BSNL 40/60	CWM100BSNL	NO LEAD brass 4 1/2"
• CWM100BSNL	1" NO LEAD Brass Cross for **FLEXCON "Flex-Lite" WELLMATE** tanks	
• 9013FSG2	30/50 or 40/60 Pressure Switch.	
• B80-1/4 x 3	Brass Nipple.	
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge	
• IRV50NL	1/2" NO LEAD Brass Relief Valve	
• HNKD50NL	1/2" NO LEAD Brass No Kink Boiler Drain	

Tank Installation Packages - 1" Side Discharge

- **ALL tank installation package components contain no lead and are third party certified to NSF/ANSI 372.**



IPS100BSFTUNL	CICS100BSFTUNL NO LEAD brass	4 1/2"
IPS100BSFTUNL 40/60	CICS100BSFTUNL NO LEAD brass	4 1/2"
• CICS100BSFTUNL	1" NO LEAD Brass Cross for **FLEXCON "Flex-Lite", WELLMATE** tanks	
• 9013FSG2	30/50 or 40/60 Pressure Switch.	
• B80-1/4 x 3	Brass Nipple.	
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge	
• IRV50NL	1/2" NO LEAD Brass Relief Valve	
• HNKD50NL	1/2" NO LEAD Brass No Kink Boiler Drain	

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



IPS100SSFTUNL	CICS100SSFTU	Stainless Steel 4"
IPS100SSFTUNL 40/60	CICS100SSFTU	Stainless Steel 4"
• CICS100SSFTU	1" Short Cast SS Tank Cross for **FLEXCON "Flex-Lite" WELLMATE** tanks	
• 9013FSG2 30/50	Pressure Switch.	
• SS80-1/4 x 3	Stainless Steel Nipple.	
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge	
• IRV50SS	1/2" Stainless Steel Relief Valve	
• IHBB50SS	1/2" Stainless Steel Hose Bibb	
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape	

NO LEAD < 0.25% Pb by weighted average



IPS100BSUENL	CICS100BSUENL NO LEAD Brass	5 1/2"
IPS100BSUENL 40/60	CICS100BSUENL NO LEAD Brass	5 1/2"
• CICS100BSUENL	1" Short LEAD Brass Union Tank Cross	
• 9013FSG2	30/50 or 40/60 Pressure Switch.	
• B80-1/4 x 3	Brass Nipple.	
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge	
• IRV50NL	1/2" NO LEAD Brass Relief Valve	
• HNKD50NL	1/2" NO LEAD Brass No Kink Boiler Drain	

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



IPS100SSUNL	CICS100SSU	Stainless Steel 5 1/2"
IPS100SSUNL 40/60	CICS100SSU	Stainless Steel 5 1/2"
• see above	1" Short Cast Stainless Steel Tank Cross.	
• 9013FSG2	30/50 or 40/60 Pressure Switch.	
• SS80-1/4x3	Stainless Steel Nipple.	
• EIPG1002-4LNL	100lb No Lead Pressure Gauge.	
• IRV50SS	1/2" Stainless Steel Relief Valve.	
• IHBB50SS	1/2" Stainless Steel Hose Bibb.	
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape	

NO LEAD < 0.25% Pb by weighted average

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Tank Installation Packages - 1 1/4" Side Discharge

- **ALL tank installation package components contain no lead and are third party certified to NSF/ANSI 372.**



IP125BSNL	CIC125BSNL	NO LEAD Brass	4 1/4"
IP125BSNL 40/60	CIC125BSNL	NO LEAD Brass	4 1/4"

• CIC125BSNL	1 1/4" Short Cast NO LEAD Brass Cross.
• 9013FSG2	30/50 or 40/60 Pressure Switch.
• B80-1/4 x 3	Brass Nipple.
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge
• IRV50NL	1/2" NO LEAD Brass Relief Valve
• HNKD75NL	3/4" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average



IPWM125BSNL	CWM125BSNL	No Lead brass	4 3/4"
IPWM125BSNL 40/60	CWM125BSNL	No Lead brass	4 3/4"

• CWM125BSNL	11/4" NO LEAD Brass Cross for **FLEXCON "Flex-Lite" WELLMATE** tanks
• 9013FSG2	30/50 or 40/60 Pressure Switch.
• B80-1/4 x 3	Brass Nipple.
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.
• IRV75NL	3/4" NO LEAD Brass Relief Valve.
• HNKD75NL	3/4" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average

Tank Installation Packages - 1 1/4" Side Discharge

- **ALL tank installation package components contain no lead and are third party certified to NSF/ANSI 372.**
- **Do not use PTFE thread seal tape with PVC tank cross applications.**
- **Use thread paste without PTFE approved for plastic threads only.**



IPS125BSFTUNL	CICS125BSFTUNL NO LEAD brass 4"
IPS125BSFTUNL 40/60	CICS125BSFTUNL NO LEAD brass 4"
• CICS125BSFTUNL	1 1/4" NO LEAD Brass Cross for **FLEXCON "Flex-Lite"WELLMATE** tanks
• 9013FSG2	30/50 or 40/60 Pressure Switch.
• B80-1/4 x 3	Brass Nipple.
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.
• IRV75NL	3/4" NO LEAD Brass Relief Valve.
• HNKD75NL	3/4" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average



IPS125BSUENL	CICS125BSUENL NO LEAD Brass 5 1/2"
IPS125BSUENL 40/60	CICS125BSUENL NO LEAD Brass 5 1/2"
• CICS125BSUENL	1 1/4" Short Cast NO LEAD Brass Cross **w/ union**
• 9013FSG2	30/50 or 40/60 Pressure Switch.
• B80-1/4 x 3	Brass Nipple.
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.
• IRV75NL	3/4" NO LEAD Brass Relief Valve.
• HNKD75NL	3/4" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average

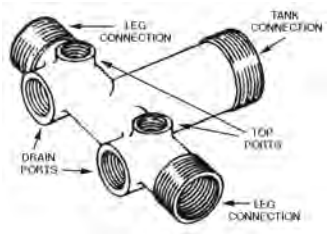


IPS125SSUNL	CICS125SSU Stainless Steel 5 1/2"
• CICS125SSU	11/4" Short Cast Stainless Steel Tank Cross **w/ union**
• 9013FSG2 30/50	Pressure Switch.
• SS80-1/4x3	Stainless Steel Nipple.
• EIPG1002-4LNL	100lb No Lead Pressure Gauge.
• IRV75SS	3/4" Stainless Steel Relief Valve.
• IHBB75SS	3/4" Stainless Steel Hose Bibb.
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape

NO LEAD < 0.25% Pb by weighted average

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Tank Crosses - Long Cast
NO LEAD Brass, Stainless Steel



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- **NO LEAD** brass, bronze and stainless steel tank crosses are **third party certified to NSF/ANSI 372 or * NSF/ANSI 61&372**



NO LEAD BRASS and BRONZE Long Cast Tank Crosses with 1 drain & 2 top ports.

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

* NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CHC100BSENL *	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Brass	Import	2/24
CHC100BNL	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Bronze	USA	1



NO LEAD BRASS and BRONZE Long Cast Tank Crosses with 2 drain & 2 top ports.

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

* NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CIC100BSENL *	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/24
CIC100BNL	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze	USA	12
CIC100BS14ENL *	14"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Brass	Import	2/12
CIC125BS14ENL *	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Brass	Import	2/12



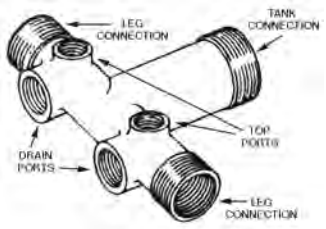
304 STAINLESS STEEL Long Cast Tank Crosses with 2 drain & 2 top ports.

LOW-LEAD IAPMO R&T *

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CIC100SS *	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	304 Stainless	Import	2/24
CIC125SS14 *	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	304 Stainless	Import	2/16

Tank Crosses - Long Cast
NO LEAD Brass, Stainless Steel



General Tank Cross Features:

- Internal and external threads reduce fittings needed & installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- **NO LEAD** brass and stainless steel tank crosses are **third party certified to NSF/ANSI 372 or * NSF/ANSI 61&372**



NO LEAD BRASS Long Cast Tank Crosses with union disconnect, with 1 drain & 2 top ports

- Metal to metal ball joint leak proof seal.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CHC100BSUENL *	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Brass	Import	2/20
CHC125BSU14ENL *	14"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4' (2)	NL Brass	Import	2/12



NO LEAD BRASS Long Cast Tank Crosses with union disconnect, with 2 drain & 2 top ports

- Metal to metal ball joint leak proof seal.

*

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
NO LEAD Brass								
CIC100BSUENL *	11"	1"	1" x 3/4"	1/2" (2)	1/4 "(2)	NL Brass	Import	2/20
CIC100BSU14ENL *	14"	1"	1" x 3/4"	1/2" (2)	1/4 "(2)	NL Brass	Import	2/12
CIC125BSU14ENL *	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4 "(2)	NL Brass	Import	2/12



304 STAINLESS STEEL Long Cast Tank Crosses with union disconnect, with 2 drain & 2 top ports

- PTFE captive gasket seal ring on 304 SS crosses.

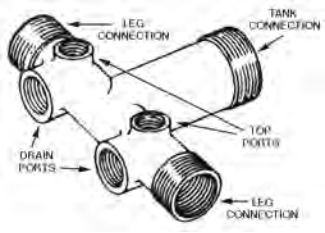
LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
304 Stainless Steel								
CIC100SSU *	11"	1"	1" x 3/4"	1/2" (2)	1/4 "(2)	304 Stainless	Import	2/20
CIC100SSU14 *	14"	1"	1" x 3/4"	1/2" (2)	1/4 "(2)	304 Stainless	Import	2/20
CIC125SSU14 *	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4 "(2)	304 Stainless	Import	2/12

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Tank Crosses - Long Fabricated NO LEAD Bronze



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- **NO LEAD** bronze, fabricated tank crosses are **third party certified to NSF/ANSI 372.**



No Lead Long Fabricated Tank Crosses with 1 drain and 2 top taps.

NO LEAD < 0.25% Pb by weighted average

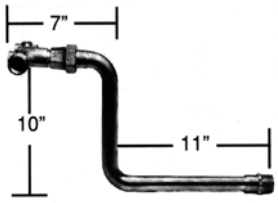
Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CHC100BFNL	11"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Bronze/Copper	USA	12
CHC100BF13NL	13"	1"	1" x 3/4"	1/2" (1)	1/4" (2)	NL Bronze/Copper	USA	12
CHC125BFNL	14"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4" (2)	NL Bronze/Copper	USA	12
CHC125BF16NL	16"	1 1/4"	1 1/4" x 1"	3/4" (1)	1/4" (2)	NL Bronze/Copper	USA	6



NO LEAD Long Fabricated Tank Crosses with 2 drain and 2 top taps.

NO LEAD < 0.25% Pb by weighted average

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CIC100BFNL	11"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze/Copper	USA	12
CIC100BF13NL	13"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze/Copper	USA	12
CIC125BFNL	14"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Bronze/Copper	USA	12
CIC125BF16NL	16"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4" (2)	NL Bronze/Copper	USA	6

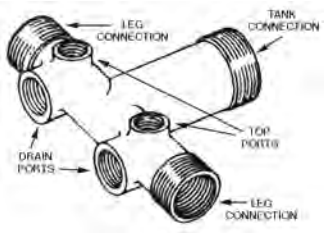


NO LEAD Long Fabricated Elevated Tank Crosses with union disconnect.

NO LEAD < 0.25% Pb by weighted average

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
CIC740BFNL	18"	1"	1" x 3/4"	1/2" (2)	1/4" (2)	NL Bronze/Copper	USA	9
CIC741BFNL	18"	1 1/4"	1 1/4" x 1"	3/4" (2)	1/4"(2)	NL Bronze/Copper	USA	6

Tank Crosses - Long Fabricated PVC, Galvanized



General Tank Cross Features:

- Internal and external threads reduce fittings needed and installation time.
- Reduces turbulence and waterlogging in tanks without separate air chambers.
- Galvanized ductile iron crosses contain no lead.
- **Third party certified to NSF/ANSI 372.**



Long Fabricated PVC Tank Cross

- Shipped unassembled with 1 x 10 Sch 80 PVC nipple.
- Third party certified to NSF/ANSI 372.

*** Do not use PTFE thread seal tape with PVC tank cross applications. Use thread seal paste without PTFE for plastic threads only.**

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
IC100F	14"	1"	1" x 3/4"	3/4" (1)	1/4" (2), 1/2" (1)	PVC*	USA	12



Long Fabricated Galvanized Ductile Iron Tank Cross

- Shipped unassembled.
- HC100GF supplied with 1x8 and 1/4x3 galvanized nipples.
- HC125GF & 125/100GF supplied with 1 1/4"x11" & 1/4"x3" galvanized nipples.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
HC100GF	11 1/2"	1" (MIP)	1" (FIP)	1/2" (1)	1/4" (2)	Ductile Iron	Import	12
HC125GF	14 1/2"	1 1/4" (MIP)	1 1/4" (FIP)	1/2" (1)	1/4" (2)	Ductile Iron	Import	4



Long Fabricated Galvanized Ductile Iron Tank Cross

- Shipped unassembled.
- IC100GF supplied with 1x8 and 1/4x3 galvanized nipples.

Part Number	Overall Length	Tank Conn.	Leg Conn.	Drain Ports Size (Qty)	Top Ports Size (Qty)	Material	USA or Import	Ctn Qty
IC100GF	10 3/4"	1" (MIP)	1" (FIP)	3/4" (1)	1/4" (2)	Ductile Iron	Import	12

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Tank Installation Packages - 1" Bottom Discharge

- **ALL NO LEAD brass tank installation package components are third party certified to NSF/ANSI 372.**
- **ALL tank installation package components contain NO LEAD.**



TP100BSNL	CHC100BSENL	NO LEAD Brass	11"
TP100BNL	CHC100BNL	NO LEAD Bronze	11"

- see above
- 9013FSG2 30/50
- B80-1/4x3
- EIPG1002-4LNL

1"x11" Long NO LEAD Brass or Bronze Tank cross
Pressure Switch.
Brass Nipple.
100lb NO LEAD Pressure Gauge.

NO LEAD < 0.25% Pb by weighted average



IP100BSENL	CIC100BSENL	NO LEAD Brass	11"
IP100BSENL 40/60	CIC100BSENL	NO LEAD Brass	11"
IP100BS14ENL	CIC100BS14ENL	NO LEAD Brass	14"
IP100BS14ENL 40/60	CIC100BS14ENL	NO LEAD Brass	14"
IP100BRNL	CIC100BNL	NO LEAD Bronze	11"
IP100BFRNL	CIC100BFNL	NO LEAD Bronze	11"
IP100BFRNL 40/60	CIC100BFNL	NO LEAD Bronze	11"
IP100BF13RNL	CIC100BF13NL	NO LEAD Bronze	13"
IP100BF13RNL 40/60	CIC100BF13NL	NO LEAD Bronze	13"

- see above
- 9013FSG2
- B80-1/4x3
- EIPG1002-4LNL
- IRV50NL
- HNKD50NL

1" Long NO LEAD Brass or Bronze Tank Cross.
30/50 or 40/60 Pressure Switch.
Brass Nipple.
100lb NO LEAD Pressure Gauge
1/2" NO LEAD Brass Relief Valve
1/2" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average



IP100BSUENL	CIC100BSUENL	NO LEAD Brass	11"
IP100BSUENL 40/60	CIC100BSUENL	NO LEAD Brass	11"
IP100BSU14ENL	CIC100BSU14ENL	NO LEAD Brass	14"
IP100BSU14ENL 40/60	CIC100BSU14ENL	NO LEAD Brass	14"

- see above
- 9013FSG2
- B80-1/4x3
- EIPG1002-4LNL
- IRV50NL
- HNKD50NL

1" Long NO LEAD Union Tank Cross
30/50 or 40/60 Pressure Switch.
Brass Nipple.
100lb NO LEAD Pressure Gauge
1/2" NO LEAD Brass Relief Valve
1/2" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average



IP100SSNL	CIC100SS	Stainless Steel	11"
IP100SSNL 40/60	CIC100SS	Stainless Steel	11"

- see above
- 9013FSG2
- SS80-1/4x3
- EIPG1002-4LNL
- IRV50SS
- IHBB50SS
- HTST60-1/2SS

1" Long Stainless Steel Cast Tank Cross.
30/50 or 40/60 Pressure Switch.
Stainless Steel Nipple.
100lb NO LEAD Pressure Gauge
1/2" Stainless Steel Relief Valve
1/2" Stainless Steel Hose Bibb
1/2" x 60" Stainless Steel PTFE Tape

NO LEAD < 0.25% Pb by weighted average

Tank Installation Packages - 1" Bottom Discharge

- **Do not use PTFE thread seal tape with PVC tank cross applications.**
- **Use thread paste without PTFE approved for plastic threads only.**
- **ALL tank installation package components contain NO LEAD.**



IP100SSUNL	CIC100SSU	Stainless Steel	11"
IP100SSUNL 40/60	CIC100SSU	Stainless Steel	11"
IP100SSU14NL	CIC100SSU14	Stainless Steel	14"
IP100SSU14NL 40/60	CIC100SSU14	Stainless Steel	14"

• see above	1" Long Stainless Steel Union Tank Cross.
• 9013FSG2	30/50 or 40/60 Pressure Switch.
• SS80-1/4x3	Stainless Steel Nipple.
• EIPG1002-4LNL	100lb No Lead Pressure Gauge.
• IRV50SS	1/2" Stainless Steel Relief Valve.
• IHBB50SS	1/2" Stainless Steel Hose Bibb.
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape

NO LEAD < 0.25% Pb by weighted average



TP100GFNL	HC100GF	Fab Galvanized	11 1/2"

• HC100G	1" Galvanized Tank Cross.
• GS80-1/4x3	Galvanized Steel Nipple.
• GS80-1x8	Galvanized Steel Nipple.
• 9013FSG2 30/50	Pressure Switch.
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge
• HNKD50NL	1/2" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average



TP100PFNL	IC100F	Fab. PVC	14"

• IC100F	1" x 14" Long PVC Fabricated Safety Tank Cross.
• 9013FSG2	30/50 Pressure Switch.
• 1/4x3	PVC Schedule 80 Nipple.
• 450-005	PVC Schedule 40 Threaded Plug.
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge

NO LEAD < 0.25% Pb by weighted average



IP100PFRNL	IC100F	Fab. PVC	14"

• IC100F	1"x14" Long PVC Fabricated Safety Tank Cross.
• 9013FSG2	30/50 Pressure Switch.
• 1/4 x 3	PVC Schedule 80 Nipple.
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge
• IRV50NL	1/2" NO LEAD Brass Relief Valve
• HNKD75NL	3/4" NO LEAD Brass No Kink Boiler Drain

NO LEAD < 0.25% Pb by weighted average

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Tank Installation Packages 1 1/4" Bottom Discharge

- **ALL tank installation package components are contain NO LEAD.**



TP125BFNL	CHC125BFNL	NO LEAD Bronze 14"
• CHC125BFNL	1 1/4" Long NO LEAD Fabricated Bronze Tank Cross	
• 9013FSG2	30/50 Pressure Switch.	
• B80-1/4 x 3	Brass Nipple.	
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.	



IP125BFR7NL	CIC125BFNL	NO LEAD Bronze 14"
IP125BFR7NL 40/60	CIC125BFNL	NO LEAD Bronze 14"
IP125BF16R7NL	CIC125BF16NL	NO LEAD Bronze 16"
IP125BF16R7NL 40/60	CIC125BF16NL	NO LEAD Bronze 16"
• see above	1 1/4" Long NO LEAD Fabricated Bronze Tank Cross	
• 9013FSG2	30/50 or 40/60 Pressure Switch.	
• B80-1/4 x 3	Brass Nipple.	
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.	
• RV75NL	3/4" NO LEAD Brass Relief Valve.	
• HNKD75NL	3/4" NO LEAD Brass No Kink Boiler Drain.	



IP125BS14ENL	CIC125BS14ENL	NO LEAD Brass 14"
IP125BS14ENL 40/60	CIC125BS14ENL	NO LEAD Brass 14"
• CIC125BS14ENL	1 1/4" Long NO LEAD Cast Brass Tank Cross	
• 9013FSG2	30/50 or 40/60 Pressure Switch.	
• B80-1/4 x 3	Brass Nipple.	
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.	
• IRV75NL	3/4" NO LEAD Brass Relief Valve.	
• HNKD75NL	3/4" NO LEAD Brass No Kink Boiler Drain.	



IP125BSU14ENL	CIC125BSU14ENL	NO LEAD Brass 14"
IP125BSU14ENL 40/60	CIC125BSU14ENL	NO LEAD Brass 14"
• See above	1 1/4" Long NO LEAD Union Brass Tank Cross	
• 9013FSG2	30/50 or 40/60 Pressure Switch.	
• B80-1/4 x 3	Brass Nipple.	
• EIPG1002-4LNL	100lb. NO LEAD Brass Pressure Gauge.	
• IRV75NL	3/4" NO LEAD Brass Relief Valve.	
• HNKD75NL	3/4" NO LEAD Brass No Kink Boiler Drain.	

Tank Installation Packages 1 1/4" Bottom Discharge

- **ALL tank installation package components contain NO LEAD.**



IP125SS14NL 40/60	CIC125SS14	Stainless Steel	14"
• see above	11/4" Long Stainless Steel Cast Tank Cross.		
• 9013FSG2 40/60	Pressure Switch.		
• SS80-1/4x3	Stainless Steel Nipple.		
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge.		
• IRV75SS	3/4" Stainless Steel Relief Valve.		
• IHBB75SS	3/4" Stainless Steel Hose Bibb.		
• HTST260-1/2SS	1/2" x 260" Stainless Steel PTFE Tape		

NO LEAD < 0.25% Pb by weighted average



IP125SSU14NL	CIC125SSU14	Stainless Steel	14"
IP125SSU14NL 40/60	CIC125SSU14	Stainless Steel	14"
• see above	11/4" Long Stainless Steel Union Tank Cross.		
• 9013FSG2	30/50 or 40/60 Pressure Switch.		
• SS80-1/4x3	Stainless Steel Nipple.		
• EIPG1002-4LNL	100lb NO LEAD Pressure Gauge.		
• IRV75SS	3/4" Stainless Steel Relief Valve.		
• IHBB75SS	3/4" Stainless Steel Hose Bibb.		
• HTST60-1/2SS	1/2" x 60" Stainless Steel PTFE Tape		

NO LEAD < 0.25% Pb by weighted average

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Tank Installation Packages - Underground



Underground Tank Installation Package Features:

- Includes components needed to complete the installation of underground (buried) well tanks.

NO LEAD Parts inlcude:

- 9013FSG2 40/60 pressure switch
- PT800TNL 1" NO LEAD bronze pitless adapter
- EIPG1002-4LNL NO LEAD 0-100 psi, steel case, pressure gauge
- 1/4x3 PVC Sch 80 nipple
- 6204 (2) Ideal SS hose clamps
- NLBT1/4 1/4" NO LEAD brass tee
- VT129HB-4-2N Nylon Ell 1/4" hose barb x 1/8" mip
- SW019 4 feet 1/4" x 1/2" OD red rubber hose
- 146-1899N 1/4" Nylon male insert adapter (mpt x hose barb)

Part Number	Ctn Qty
IP100UGNL 40/60	6

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Pressure Relief Valves

RV and IRV Series Relief Valve Features:

- Heavy duty no lead bronze, **no lead** brass or 304 stainless steel.
- For shallow, deep well and submersible pumps.
- **Third party certified to NSF/ANSI 372.**
- Spring loaded and pre-set under pressure, **NOT ADJUSTABLE**.
- 1/2" or 3/4" (IRV7575) discharge.

Hamilton Adjustable Safety Relief Valve Features:

- Preset at 75 P.S.I. with concealed adjusting screw to prevent tampering.
- No-lead brass heavy duty, full-flow design with Buna-N seats.



RV-NL Series

ISO 9001



IRV-NL



IRV SS Series



HRV Series

Part Number	Size	Pressure Setting	Ctn/Case
NO LEAD Bronze Relief Valves - Made in USA			
RV50NL	1/2"x 1/2"	Set at 75 psi	50/150
RV75NL	3/4"x 1/2"	Set at 75 psi	50/150
RV50-100NL	1/2" x 1/2"	Set at 100 psi	50/150
RV75-100NL	3/4" x 1/2"	Set at 100 psi	50/150
NO LEAD Brass Relief Valves - Imported			
IRV50NL	1/2"x 1/2"	Set at 75 psi	10/100
IRV75NL	3/4"x 1/2"	Set at 75 psi	10/100
IRV7575NL	3/4"x 3/4"	Set at 75 psi	10/100
IRV50-100NL	1/2"x 1/2"	Set at 100 psi	10/100
IRV75-100NL	3/4"x 1/2"	Set at 100 psi	10/100
IRV7575-100NL	3/4"x 3/4"	Set at 100 psi	10/100
304 Stainless Steel Relief Valves - Imported			
IRV50SS	1/2"x 1/2"	Set at 75 psi	10/100
IRV75SS	3/4" x 1/2"	Set at 75 psi	10/100
IRV7575SS	3/4" x 3/4"	Set at 75 psi	10/100
IRV50-100SS	1/2" x 1/2"	Set at 100 psi	10/100
IRV75-100SS	3/4" x 1/2"	Set at 100 psi	10/100
IRV7575-100SS	3/4" x 3/4"	Set at 100 psi	10/100

Hamilton NO LEAD Brass Adjustable Safety Relief Valves		Set at Adjustable to		Sold at Preset Only
HRV50NL	1/2" mipt x 1/2" fipt	75 psi	150 psi	25
HRV75NL	3/4" mipt x 3/4" fipt	75 psi	100 psi	25
HRV125NL	1 1/4" mipt x 1 1/4" fipt	75 psi	200 psi	10
HRV175NL	1" mipt x 3/4" fipt	75 psi	200 psi	25

NOTE: Relief valves on this page are not for use with hot water heaters. Recommended for cold water system installations only.

Preset relief valves are NOT intended to be adjusted. Any adjustment to preset relief valves voids warranty.

FLOW RATES PSI	85	90	95	100	105	110	115
RV Series gpm	.30	7.3	7.7	9.8	17.9	18.9	20.6
IRV Series gpm	2.0	2.7	3.8	4.7	7.0	12.0	12.7
PSI	**10**	**20**	**30**	**40**	**60**	**80**	**100**
HRV50	.6	1.5	2.5	3.6	6.1	8.8	11.8
HRV75			2.8	5.5	11.0	13.8	17.9
HRV175	6.0	12.6	19.0	24.6	35.6	44.8	52.3
HRV125	12.0	35.0	48.4	69.2	106.5	132.5	150.0

Installation Accessories - Tank



TL3



PMB1



SN18NL, SN18LNL, SN25NL, SN25LNL

Tank Legs Features:

- Elevates tank above floor and out of condensation pools.
- Leveled on uneven floors without the use of tools.
- Custom molded from high strength ABS.

Pump Mounting Bracket Features:

Contains hardware for Flexcon 1/2" top nut tanks.

- Elevates pump out of corrosive atmosphere.
- Heavy duty 12 gauge cold rolled steel with gray powder coated enamel coating. Heaviest steel gauge bracket available in the market.
- Plastic protectors on the pump stand legs prevent scratching of the tank.
- Supplied with 1/2", 3/4", 1", 1 1/4" long zinc plated steel screws and two steel adapters to fit all manufacturers' tanks.
- Fits all pumps and comes individually cartoned.

Air Valve Features:

NO LEAD < 0.25% Pb by weighted average

- Used for reciprocating and submersible pumps to admit air to system.
- Used for charging applications and many other uses.
- Available in long and short patterns.
- Made in USA

Part Number	Size	Pressure Setting/Description	Ctn Qty
Tank Legs			
TL3		(3/Package), ABS	48
Pump Mounting Brackets			
PMB1		12 gauge steel plate, Gray	20
Air Valves - Made in USA			
LVC18		Replacement Core for light spring models	
SN18NL	1/8"	Short Pattern Light Spring (Snifter) NO LEAD	25/250
SN18LNL	1/8"	Long, Light Spring (Snifter) NO LEAD	25/250
SN18LNLNCS	1/8"	Long, No Core Spring NO LEAD	25/250
SN25NL	1/4"	Short Pattern Heavy Spring NO LEAD	25/250
SN25LNL	1/4"	Long, Light Spring (Snifter) NO LEAD	25/250

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Clear Braided PVC Hose



Clear Braided PVC Hose
Standard Wall, Class 125 Features:

- Flexible, see through clear hose with braid pattern reinforcement of two polyester spirals.
- Flexible clear PVC NSF 51 certified to 100ºF (38ºC), USP CLASS V1 rated.
- All hose compound ingredients used are listed in US FDA CFR, Title 21.
- Temperature range + 25º to 150º F / -5º to +65ºC.
- Silicone free.
- Food and beverage grade, standard wall.
- Use for air, water lines.

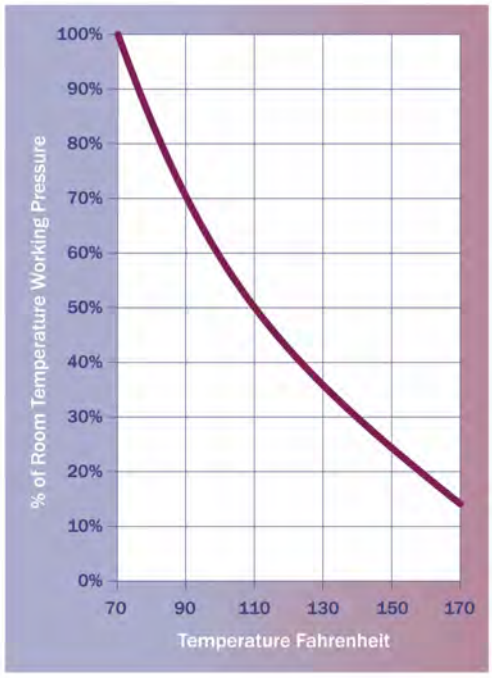
Part Number	Nominal (inches) ID	OD	Max Working Pressure PSI@68°F	PSI@122°F	Reel Length	Approx Wt per CFT.
CBH25-1	1/4	0.438	250	105	100’	5.7 lbs
CBH38-1	3/8	0.594	225	97	100’	9.0 lbs
CBH50-1	1/2	0.750	200	86	100’	13.8 lbs
CBH58-1	5/8	0.875	200	86	100’	16.5 lbs
CBH75-1	3/4	1.030	150	65	100’	21.9 lbs
CBH100-1	1	1.300	125	54	100’	31.5 lbs
CBH100-2	1	1.300	125	54	200’	31.5 lbs
CBH125-50	1 1/4	1.625	100	43	50’	45.0 lbs
CBH125-1	1 1/4	1.625	100	43	100’	45.0 lbs
CBH150-50	1 1/2	1.937	100	43	50’	64.0 lbs
CBH150-1	1 1/2	1.937	100	43	100’	64.0 lbs
CBH200-1	2	2.490	75	33	100’	95.0 lbs

**** Temperatures higher than 68° F reduce available working pressure. See next page for temperature, working pressure calculation chart and cautionary note.**

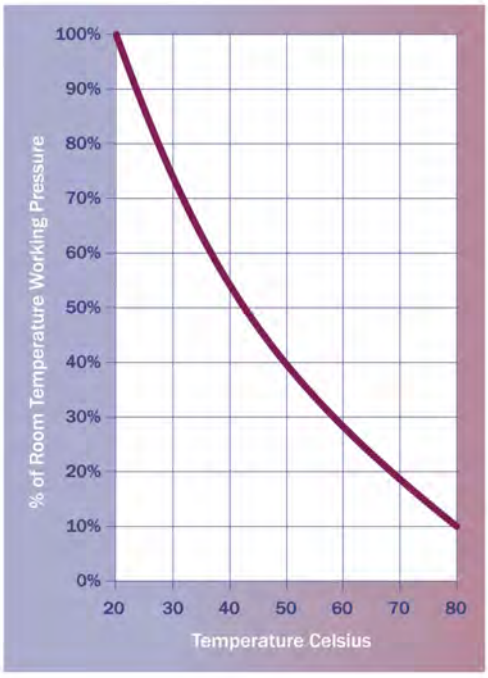
Effects of Elevated Temperatures on Thermoplastic Hose.

The compounds used in clear braided PVC hose are generally referred to as thermoplastics. These materials achieve their optimum physical properties at room temperature, 68ºF (20ºC). As these materials are exposed to increased ambient temperatures, they will soften and their physical properties will change. This will have the effect of sharply reducing the available working pressure. Coupling retention will also be reduced. The charts below illustrate this effect. In all cases, the product should be tested in a controlled, secure and safe environment, and all operating conditions should be considered prior to use.

All published working pressures of AGI Series CBH hose are based on a room temperature of 68ºF (20ºC).



Example from the Fahrenheit Chart
If working pressure at 68ºF is 200 psi, then the WP at 110ºF is 200 x 50%, or 100 psi



Example from the Celsius Chart
If working pressure at 20º is 14 bar, then the WP at 50ºC is 14 x 50%, or 5.6 bar

CAUTIONARY NOTE

The charts are to used as a guideline only. The information and recommendations contained here are, to the best of our manufacturer's knowledge, accurate and reliable, but no guarantee of their accuracy is made. All products are sold upon the condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses, and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Variability in length of exposure, temperature, pressure, velocity of fluid, and chemical concentration all contribute to reduced working pressure and hose reliability.

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Air Volume Controls



AV
Non-Repairable



AV Repairable

Brady Air Volume Control Features:

- Maintains water flow-stretches pump life.
- Repairable and non-repairable offering.
- Diaphragm-type air volume control maintains correct proportions of air & water in jet systems.
- Die Cast, 96% Zinc. Individually cartoned.
- Available with or without Tapped Gauge Port.
- "E" Series compares to Boshart "AVC" & Merrill "AV" series non-repairable controls.

Universal Air Charger Installation Kit Features:

- Fits all air volume controls.
- Includes 60" polyethylene tubing and assortment of special NL brass fittings and adapters, eliminating duplication of inventories with a single kit for all applications.



AVCTF1/4x3/8NL

Air Volume Control Tank Fitting Features:

- No Lead Brass. Certified Lead Free

*

Part Number Standard	Tapped	Tank Capacity	Tank Port	Suction Port	Ctn Qty
Non-repairable *					
AV45E		80	1/4" pipe	7/16"-24 pipe	50
AV45		80	1/4" pipe	7/16"-24 pipe	50
AV45F		80	1/4" pipe	1/8" pipe tap	50
AV100E		120	3/8" pipe	7/16"-24 pipe	50
AV100		120	3/8" pipe	7/16"-24 pipe	50
AV100F		120	3/8" pipe	1/8" pipe tap	50
Repairable *					
AV30		42	1/4" pipe	7/16"-24 pipe	100
AV42	AV42T	80	1/4" pipe tap	1/4" pipe tap	50
AV80	AV80T	120	1/4" pipe tap	1/4" pipe tap	50
AV120	AV120T	220	3/8" pipe tap	1/4" pipe tap	25

Repair Kits• Fits all makes of repairable diaphragm type controls		
AV30-3A	For Brady AV30 controls	42
AV42-3A	For Brady AV42 controls	42
AV80-3A	For Brady AV80 controls	42
AV120-3A	For Brady AV120 controls	42

Air Charger Installation Kit with Tubing and Fittings **		
UTF1NL	No lead kit	24
UTF1BTNL	No lead kit with Black Tubing	24

Air Volume Control Tank Fitting - No Lead Brass		
AVCTF1/4x3/8NL	Air Volume Control Tank Fitting 1/4" MPT x 3/8" FPT	500

** See page 6.7 for additional lengths of MV4040 1/2" OD x 0.17" ID translucent and black tubing.

Air Releases & Controls



HAE1

HARVARD®

All Plastic Deep Well Air Release Features:

- Maintains proper ratio of air to water in submersible water systems.
- All polyethylene construction eliminates corrosion.
- Includes gauge port and 0-40 psi limited bleed adjustment.
- **NO LEAD - Third party certified to NSF/ANSI 372.**
- **Made in USA.**



BAR125N

Brady Plastic Deep Well Air Release Features:

- Maintains the proper ratio of air to water.
- Constructed of ABS resin grade plastic.
- Non-corrosive, non-conductive and completely serviceable.
- Release mechanism consists of a Buna-N procession ball & 316 stainless steel spring.
- Factory set at 20 P.S.I., adjustable from 0 to 40 P.S.I.



WJ1NL

Deep Well Air Release Features:

- Maintains proper ratio of air to water in submersible water systems.
- Deluxe deep well air release features ABS float and molded or cast body which prevents galvanic action at pump tank tapping.
- **WJ1NL NO LEAD**
- WJ1NL Imported.



HF93B1

Shallow Well Control Features:

- Preserves correct proportion of water and air in shallow well reciprocating pump systems.
- **SWCLNL NO LEAD**
- Imported.



SWCL

Part Number	Tapping	Manufacturer	Ctn Qty
All Plastic Deep Well Air Release			
HAE1	1 1/4"	Harvard	49
BAR125N	1 1/4"	Brady	50
Deep Well Air Release			
WJ1NL	1 1/4"	Ametek	20
HF93B-1	1 1/4"	Johnson	50
Shallow Well Control			
SWCLNL	1 1/4"	NO LEAD Ametek	20

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Installation Accessories - Submersible

NEW & IMPROVED



TA48 PRO

TA48 PRO Torque Arrestor Features:

- **Marine grade all stainless steel clamps/screws domestically made by Ideal Tridon comes standard for maximum performance for years to come.**
- Two piece, lightweight design for ease of installation.
- Engineered to flex and absorb rotational movement & vibration.
- High quality molded PVC resistant to chemicals, salts & minerals.
- Field adjustable to hold pump centered in well.
- Fits well casings from 4" to 8" I.D.
- For use with 1" or 1 1/4" drop pipe.
- Third party certified to NSF/ANSI 372.

LOW-LEAD IAPMO R&T



TA6100



SG Series

Spider Style Torque Arrestor Features:

- Spider style molded from natural rubber.
- Installs just above discharge of submersible pump.
- Tabs are easily cut for field alteration.
- 4"-6" casing, 1" center hole.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

Natural Rubber Pump Guide Features:

- Installed at the top of the submersible pump discharge.
- Permits the pump to be lowered without damage from abrading against the well casing & ledge while centering the pump in the well.



MG6



WG Series

Cable Guard Features:

- Snap-in and self clamping styles.
- Keeps power cable from abrading against well casing.
- A minimum of three to five should be used; one at the pump, one no further than 15' above the pump, and one between 25' and 30' above the pump.
- Adjustable - use in 4", 5" and 6" wells. Available for 1" drop pipe.
- Made of polyethylene and will float.

Part Number	Description	Color	Ctn Qty
PVC Torque Arrestor			
TA48 PRO	**Bagged, with 2 Ideal marine grade all SS clamps**	**Black**	**16**
TA48G	Bagged, with 2 Ideal all stainless steel clamps	Green	16
Deluxe Rubber Torque Arrestor			
TA48R	Bagged with 2 Ideal all stainless steel clamps	Black	16
Spider Style Rubber Torque Arrestor			
TA6100	6x1	Black	50

Natural Rubber Pump Guides	Fits Casing ID	Guide OD	Drop Pipe	
SG558-5X1	5-5/8"	5"	1"	Bulk
SG600-55/8X1	6"	5 5/8"	1"	Bulk
Cable Guard				
MG6	With two cable holes, fits 4"-6" casing			100
WG100	1" Self-clamping style, fits 4"-6" casing			48
WG125	1 1/4" Self-clamping style, fits 4"-6" casing			48

All torque arrestors, pump guides and cable guards are third party certified to ANSI/NSF 372

Installation Accessories - Submersible



MR Series

HARVARD® Submersible Safety Rope Features:

- Custom extruded from tough polypropylene fiber.
- Highly resistant to chafing, abrasion &corrosion.
- Recommended wherever minimum stretch and maximum strength are required.
- Twisted SR25 Series tested in excess of 1,200 lbs.. Braided MR25 Series tested in excess of 1,000 lbs.
- Plastic or wood reels.



PO100

Bleeder Orifices Features:

- Provides a fast bleed through its large opening.
- Complete closure prevents loss of pumping volume.
- Full 1" size molded of virgin rubber increases bleed capacity and reduces cost of pipe fitting.
- 3/4" available in brass, NO LEAD brass.
- Bleeder orifice tee available. Includes yellow brass ins tee w/ 1" rubber bleeder orifice.
- **All bleeder orifies are third party certified to NSF/ANSI 372.**



ES1S

Ejector Screen Features:

- Protects heat pumps against plugged nozzles and clogged venturis.
- Non-corrosive stainless steel screen.
- I nstalls easily in discharge side of ejector.



CT Series

Cable Tie Features:

- UL approved, self-clinching nylon fastener.
- Ideal for holding cable to drop pipe, positioning cable guards, etc.
- Withstands -65º to 225ºF.
- Packaged in bags of 100.
- Manufactured for AGI in an ISO 9002 facility.

ISO 9002

Part Number	Description	Ctn Qty
HARVARD® Braided Safety Rope		
MR25-500	Blue/White, 1/4" x 500' Plastic Reel, 1000#	1
MR25-1	Blue/White, 1/4" x 1000' Plastic Reel, 1000#	1
MR25-3	Blue/White, 1/4" x 3000' Plastic Reel, 1000#	1
HARVARD® Twisted Safety Rope		
SR25-500	Black, 1/4" x 500' Plastic Reel, 1200#	1
SR25-1	Black, 1/4" x 1000' Plastic Reel, 1200#	1
SR25-3	Black, 1/4" x 3000' Plastic Reel, 1200#	1
Bleeder Orifices		
PO75BNL	3/4" Brass, NO LEAD	25/250
PO100	1", Rubber	25/100
BOT100NL	No Lead Brass Insert Tee 1" w/ rubber bleeder orifice	6
Ejector Screen		
ES1S	Stainless Steel Screen	1
Cable Ties		
CT150	Bag of 100 Nylon, 1" to 1 1/4" diameter pipe, 8" long	100/BAG
CT300	Bag of 100 Nylon, 1 1/2" to 4" diameter pipe, 15 " long	100/BAG

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Geothermal Installation Accessories



GLLS8

GEOLOOP Leak Seal:

- Preventative maintenance for residential and commercial geothermal systems.
- A blended concentrated material designed to coat all surfaces it comes into contact with and reduce the formation of rust and corrosion.
- Field tested and proven effective in sealing system leaks (holes up to 1/8" in diameter.)
- Do not use if strainer is installed in system.
- Can plug or seal off strainers and gauges. Use with care.

GEOLOOP Leak Seal Directions:

- Shake well before using.
- Use one 8 oz. bottle per 5 ton (up to 1200 gallons) system for minor leaks. A second bottle can be added for larger leaks.
- Premix with no less than 8-16 oz. of water.
- With circulating pump(s) running in continuous mode or using flushcart, pour or insert mixture into loop and circulate for several hours at low pressure. After introduced to the system, build pressure to 60 psi or higher (not to exceed 160 psi). Circulate for 24 hours. Return system to normal operating pressure thereafter.
- Check system in one week for pressure drop. Treatment can be repeated if needed.

Part Number	Description	Ctn Qty
GLLS8	GEOLOOP Leak Seal 8 oz. bottle	20



RBGSE

Cast Bronze Ground Source Elbow Features:

- Elbow with 1/4" tapping used to check pressures and temperatures at the geothermal unit.

☺ Limited Quantities Available



Part Number	Size	Ctn/Case Qty
Cast Bronze Ground Source Elbows (INS x MIP w/ 1/4" tap)		
RBGSE1X3/4 ☺	1" x 3/4"	10/100
RBGSE1	1" x 1"	10/80
RBGSE11/4	1 1/4" x 1 1/4"	5/50

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Drop Pipe Couplings

Couplings for connecting pipe in submersible pump applications. Ideal for all other threaded applications.



DPC Series



SSDPC Series

DPC Series Features:

- Available in Schedule 80 or 120
- Machined from custom extruded PVC stock which eliminates weak points that occur in molded couplings.
- Reamed and drifted for easy starting of threads.
- Tapered pipe threads for positive watertight connections.
- Made in U.S.A.

SSDPC Series Features:

- Heavy duty, extra heavy wall cast 304 STAINLESS STEEL construction.
- Up to 60% heavier wall than other SS drop pipe couplings available.
- Reamed and drifted for easy starting of threads.
- Tapered pipe threads for positive watertight connections.
- Wrench flats for easy installation.
- **Third party certified to NSF/ANSI 372.**

Part Number	Pipe Size	Overall Length	Ctn Qty
PVC Schedule 80 - Standard Wall			
80DPC100	1"	2 3/4"	25
80DPC125	1 1/4"	2 3/4"	25
PVC Schedule 120 - Extra Heavy Wall			
DPC100	1"	2-3/4"	100
DPC125	1-1/4"	2-3/4"	100
DPC150	1-1/2"	3-3/8"	100
DPC200	2"	3-3/8"	100
Cast Stainless Steel 304 - Heavy Duty - Extra Heavy Wall			
SSDPC100	1"	2 1/2"	10 / 60
SSDPC125	1 1/4"	2 1/2"	8 / 48
SSDPC150	1 1/2"	2 1/2"	10 / 60
SSDPC200	2"	2 1/2"	6 / 36

Couplings - Turned, Tool



Turned Coupling Features:

- Used for suspending flush well points or strainers from drive shoes or tubular cylinders.
- Galvanized with standard pipe thread.
- Furnished with right hand pipe threads.
- Thin wall 434J.
- **Third party certified to NSF/ANSI 372.**

Part Number	Rt. Hand Thread Pipe Size	Well Size	Strainer Size	Coupling O.D.	Coupling Length	Ctn Qty
434J11/4X11/4	1 1/4 x 1 1/4"	2	1"	1 13/16"	2 1/4"	48
434-11/4X11/4	1 1/4 X 1 1/4"	2	1 1/4	1 15/16"	2 1/4	48



Tool Coupling Features:

- Heavy, extra-long black steel coupling recessed for use with well tools and drill rods.
- **Third party certified to NSF/ANSI 372.**

Part Number	Pipe Size	Thread	OD	Length	Ctn Qty
8049C	1"	1" Tapered	1 5/8"	3 1/2"	24
8049D	1 1/4"	1 1/4" Straight	2 1/8"	3 3/4"	40

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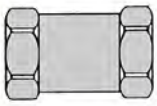
Flow Control Valves - Conrader



Conrader Flow Control Valve Features:

- Prevents over-pumping of low yield wells.
- Installs in the discharge line between check valve and pressure tank.
- Do not use to suspend pipe.
- Self cleaning, designed to deliver constant volume of water over wide pressure drop range.
- Flow rated maintained within +/- 15% up to a pressure drop of 125 psi.
- Maximum system pressure 125 psi.
- ENP coated.
- Made in USA

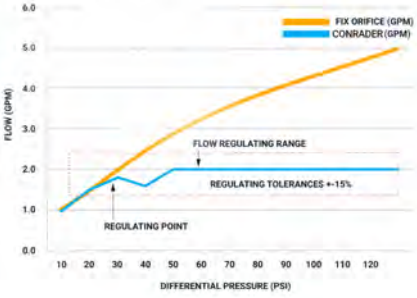
NO LEAD ✓ LEAD-FREE

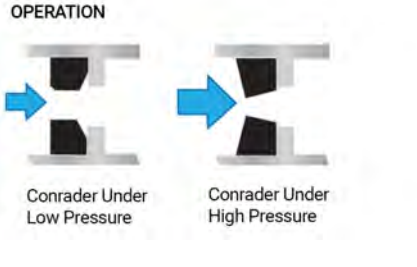


3/8" - 1"fipt Brass Housing/ ENP coated



3/4 mipt" x 3/4"fipt Brass Housing/ ENP coated





Part Number	Inlet/Outlet	Flow (GPM)
7712-.06	FLOW CONTROL 3/8FX3/8F	.06 GPM
7712-.13	FLOW CONTROL 3/8FX3/8F	.13 GPM
7712-.19	FLOW CONTROL 3/8FX3/8F	.19 GPM
7712-.25	FLOW CONTROL 3/8FX3/8F	.25 GPM
7712-.35	FLOW CONTROL 3/8FX3/8F	.35 GPM
7712-.50	FLOW CONTROL 3/8FX3/8F	.50 GPM
7712-.75	FLOW CONTROL 3/8FX3/8F	.75 GPM
7712-1.0	FLOW CONTROL 3/8FX3/8F	1.0 GPM
7712-1.5	FLOW CONTROL 3/8FX3/8F	1.5 GPM
7718-1.0	FLOW CONTROL 1/2FX1/2F	1.0 GPM
7718-1.5	FLOW CONTROL 1/2FX1/2F	1.5 GPM
7718-2.0	FLOW CONTROL 1/2FX1/2F	2.0 GPM
7718-2.5	FLOW CONTROL 1/2FX1/2F	2.5 GPM
7718-3.0	FLOW CONTROL 1/2FX1/2F	3.0 GPM
7718-3.5	FLOW CONTROL 1/2FX1/2F	3.5 GPM
7718-4.0	FLOW CONTROL 1/2FX1/2F	4.0 GPM
7718-5.0	FLOW CONTROL 1/2FX1/2F	5.0 GPM
7718-6.0	FLOW CONTROL 1/2FX1/2F	6.0 GPM
7728-1.0	FLOW CONTROL 3/4FX3/4F	1.0 GPM
7728-1.5	FLOW CONTROL 3/4FX3/4F	1.5 GPM
7728-2.0	FLOW CONTROL 3/4FX3/4F	2.0 GPM
7728-2.5	FLOW CONTROL 3/4FX3/4F	2.5 GPM
7728-3.0	FLOW CONTROL 3/4FX3/4F	3.0 GPM
7728-3.5	FLOW CONTROL 3/4FX3/4F	3.5 GPM
7728-4.0	FLOW CONTROL 3/4FX3/4F	4.0 GPM
7728-4.5	FLOW CONTROL 3/4FX3/4F	4.5 GPM
7728-5.0	FLOW CONTROL 3/4FX3/4F	5.0 GPM
7728-5.5	FLOW CONTROL 3/4FX3/4F	5.5 GPM
7728-6.0	FLOW CONTROL 3/4FX3/4F	6.0 GPM
7728-7.0	FLOW CONTROL 3/4FX3/4F	7.0 GPM
7728-8.0	FLOW CONTROL 3/4FX3/4F	8.0 GPM
7728-9.0	FLOW CONTROL 3/4FX3/4F	9.0 GPM
7728-10.0	FLOW CONTROL 3/4FX3/4F	10.0 GPM
7728-11.5	FLOW CONTROL 3/4FX3/4F	11.5 GPM

Flow Control Valves - Conrader

NO LEAD ✓ LEAD-FREE

CONRADER

Part Number	Inlet/Outlet	Flow (GPM)
7053-1.0	FLOW CONTROL 3/4MX3/4F	1.0 GPM
7053-1.5	FLOW CONTROL 3/4MX3/4F	1.5 GPM
7053-2.0	FLOW CONTROL 3/4MX3/4F	2.0 GPM
7053-2.5	FLOW CONTROL 3/4MX3/4F	2.5 GPM
7053-3.0	FLOW CONTROL 3/4MX3/4F	3.0 GPM
7053-3.5	FLOW CONTROL 3/4MX3/4F	3.5 GPM
7053-4.0	FLOW CONTROL 3/4MX3/4F	4.0 GPM
7053-4.5	FLOW CONTROL 3/4MX3/4F	4.5 GPM
7053-5.0	FLOW CONTROL 3/4MX3/4F	5.0 GPM
7053-6.0	FLOW CONTROL 3/4MX3/4F	6.0 GPM
7053-7.0	FLOW CONTROL 3/4MX3/4F	7.0 GPM
7053-8.0	FLOW CONTROL 3/4MX3/4F	8.0 GPM
7053-9.0	FLOW CONTROL 3/4MX3/4F	9.0 GPM
7053-10.0	FLOW CONTROL 3/4MX3/4F	10.0 GPM
7053-11.5	FLOW CONTROL 3/4MX3/4F	11.5 GPM
7738-1.0	FLOW CONTROL 1FX1F	1.0 GPM
7738-1.5	FLOW CONTROL 1FX1F	1.5 GPM
7738-2.0	FLOW CONTROL 1FX1F	2.0 GPM
7738-2.5	FLOW CONTROL 1FX1F	2.5 GPM
7738-3.0	FLOW CONTROL 1FX1F	3.0 GPM
7738-3.5	FLOW CONTROL 1FX1F	3.5 GPM
7738-4.0	FLOW CONTROL 1FX1F	4.0 GPM
7738-4.5	FLOW CONTROL 1FX1F	4.5 GPM
7738-5.0	FLOW CONTROL 1FX1F	5.0 GPM
7738-5.5	FLOW CONTROL 1FX1F	5.5 GPM
7738-6.0	FLOW CONTROL 1FX1F	6.0 GPM
7738-7.0	FLOW CONTROL 1FX1F	7.0 GPM
7738-8.0	FLOW CONTROL 1FX1F	8.0 GPM
7738-9.0	FLOW CONTROL 1FX1F	9.0 GPM
7739-10.0	FLOW CONTROL 1FX1F	10.0 GPM
7739-12.0	FLOW CONTROL 1FX1F	12.0 GPM
7739-13.5	FLOW CONTROL 1FX1F	13.5 GPM
7739-15.0	FLOW CONTROL 1FX1F	15.0 GPM
7739-20.0	FLOW CONTROL 1FX1F	20.0 GPM
7739-25.0	FLOW CONTROL 1FX1F	25.0 GPM
7739-30.0	FLOW CONTROL 1FX1F	30.0 GPM

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Flow Control Valves - Dole

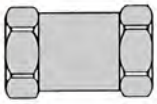


Dole Flow Control Valve Features:

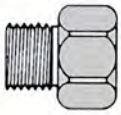
- Prevents over-pumping of low yield wells.
- Installs in the discharge line between check valve and pressure tank.
- Do not use to suspend pipe.
- Self cleaning, designed to deliver constant volume of water over wide pressure drop range.
- Flow rated maintained within +/- 15% up to a pressure drop of 125 psi.
- Maximum system pressure 125 psi.
- Lead Free.

invensys

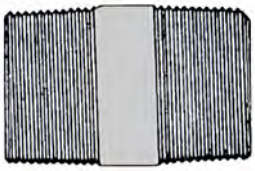
* NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



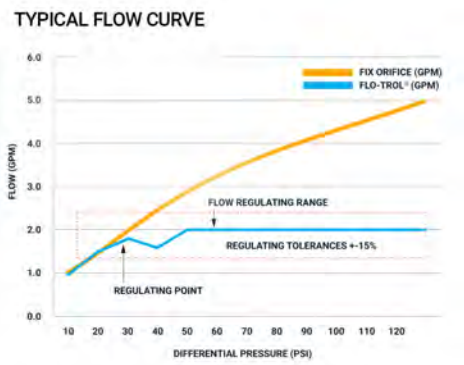
GA, GB, GC, GX Series *
3/8" - 1"fipt
Brass Housing/
Nickle Plated



GY Series
3/4 mipt" x 3/4"fipt
Brass Housing



GP GT, GF, GH, GK
Series
1 1/4" - 3" mipt
Steel Housing/
Zinc Plated



	NEW Part Number	OLD	Flow (GPM)	Inlet/ Outlet
	Brass Housing/Nickel Plated			
*	GA.06		0.06	3/8" FIPT
	GA.13	DV.13	0.13	3/8" fipt
	GA.19	DV.19	0.19	3/8" fipt
	GA.25	DV2.5	0.25	3/8" fipt
	GA.35		0.35	3/8" fipt
	GA.50	DV5	0.50	3/8" fipt
	GA.75	DV75	0.75	3/8" fipt
	GA1.0	DV10	1.0	3/8" fipt
*	GB1.5	DV15	1.5	1/2" fipt
	GB2.0	DV20	2.0	1/2" fipt
	GB2.5	DV25	2.5	1/2" fipt
	GB3.0	DV30	3.0	1/2" fipt
	GB3.5	DV35	3.5	1/2" fipt
	GB4.0	DV40	4.0	1/2" fipt
	GB5.0	DV50-1/2	5.0	1/2" fipt
	GB6.0	DV60-1/2	6.0	1/2" fipt
	GC1	DV1.0	1.0	3/4" fipt
*	GC1.5		1.5	3/4" fipt
	GC2.0	DV2.0	2.0	3/4" fipt
	GC2.5	DV2.5-3/4	2.5	3/4" fipt
	GC3.0	DV30-3/4	3.0	3/4" fipt
	GC3.5	DV3.5-3/4	3.5	3/4" fipt
	GC4.0	DV40-3/4	4.0	3/4" fipt
	GC5.0	DV50	5.0	3/4" fipt
	GC6.0	DV60	6.0	3/4" fipt
	GC7.0	DV70	7.0	3/4" fipt
	GC8.0	DV80	8.0	3/4" fipt
	GC9.0	DV90	9.0	3/4" fipt
	GC10	DV100	10.0	3/4" fipt
	GC11.5	DV115	11.5	3/4" fipt
	GX1.0	DV10-1	1.0	1" fipt
*	GX1.5	DV15-1	1.5	1" fipt
	GX2.0	DV20-1	2.0	1" fipt
	GX2.5	DV25-1	2.5	1" fipt
	GX3.0	DV30-1	3.0	1" fipt
	GX3.5	DV35-1	3.5	1" fipt
	GX4.0	DV40-1	4.0	1" fipt
	GX5.0	DV50-1	5.0	1" fipt
	GX6.0	DV60-1	6.0	1" fipt
	GX7.0	DV70-1	7.0	1" fpt

Flow Control Valves - Dole

NEW Part Number	OLD	Flow (GPM)	Inlet/ Outlet
GX8.0	DV80-1	8.0	1" fpt
GX9.0	DV90-1	9.0	1" fpt
GX10	DV100-1	10.0	1" fipt
GX12	DV120	12.0	1" fipt
GX13.5	DV135-1	13.5	1" fipt
GX15	DV150	15.0	1" fipt
GX20	DV200	20.0	1" fipt
GX25	DV250	25.0	1" fipt
GX30	DV300	30.0	1" fipt

* **Brass Housing**

GY1.0	DV1-3/4MXF	1.0	3/4"mipt x fipt
GY1.5	DV1.5-3/4MXF	1.5	3/4"mipt x fipt
GY2.0	DV2-3/4MXF	2.0	3/4"mipt x fipt
GY2.5	DV2.5-3/4MXF	2.5	3/4"mipt x fipt
GY3.0	DV3-3/4MXF	3.0	3/4"mipt x fipt
GY3.5	DV3.5-3/4MXF	3.5	3/4"mipt x fipt
GY4.0	DV4-3/4MXF	4.0	3/4"mipt x fipt
GY5.0	DV5-3/4MXF	5.0	3/4"mipt x fipt
GY6.0	DV6-3/4MXF	6.0	3/4"mipt x fipt
GY7.0	DV7-3/4MXF	7.0	3/4"mipt x fipt
GY8.0	DV8-3/4MXF	8.0	3/4"mipt x fipt
GY9.0	DV9-3/4MXF	9.0	3/4"mipt x fipt
GY10	DV10-3/4MXF	10.0	3/4"mipt x fipt
GY11.5		11.5	3/4"mipt x fipt

* **Steel Housing/Zinc Plated**

GP1.0	DV1.0-11/4	1.0	1 1/4" mipt
GP2.0		2.0	1 1/4" mipt
GP2.5		2.5	1 1/4" mipt
GP3.0		3.0	1 1/4" mipt
GP3.5		3.5	1 1/4" mipt
GP4.0		4.0	1 1/4" mipt
GP5.0		5.0	1 1/4" mipt
GP6.0		6.0	1 1/4" mipt
GP7.0	DV75-11/4	7.0	1 1/4" mipt
GP8.0		8.0	1 1/4" mipt
GP9.0		9.0	1 1/4" mipt
GP10	DV10-11/4	10.0	1 1/4" mipt
GP12	DV12-11/4	12.0	1 1/4" mipt
GP15	DV15-11/4	15.0	1 1/4" mipt
GP20	DV20-11/4	20.0	1 1/4" mipt
GP25	DV25-11/4	25.0	1 1/4" mipt
GP30	DV30-11/4	30.0	1 1/4" mipt

*	GT1.0		1.0	1 1/2" mipt
	GT1.5		1.5	1 1/2" mipt
	GT2.0	DV2-11/2	2.0	1 1/2" mipt
	GT2.5		2.5	1 1/2" mipt
	GT3.0		3.0	1 1/2" mipt
	GT3.5		3.5	1 1/2" mipt
	GT4.0		4.0	1 1/2" mipt
	GT5.0	DV5-11/2	5.0	1 1/2" mipt

NEW Part Number	OLD	Flow (GPM)	Inlet/ Outlet
Steel Housing/Zinc Plated			
GT7.0	DV7-11/2	7.0	1 1/2" mipt
GT9.0	DV9-11/2	9.0	1 1/2" mipt
GT10	DV10-11/2	10.0	1 1/2" mipt
GT12		12.0	1 1/2" mipt
GT13.5		13.5	1 1/2" mipt
GT15	DV15-11/2	15.0	1 1/2" mipt
GT20	DV20-11/2	20.0	1 1/2" mipt
GT25	DV25-11/2	25.0	1 1/2" mipt
GT30	DV30-11/2	30.0	1 1/2" mipt

	GF10	DV10-2	10.0	2" mipt
	GF12	DV12-2	12.0	2" mipt
*	GF15		15.0	2" mipt
	GF20	DV20-2	20.0	2" mipt
	GF25		25.0	2" mipt
	GF30	DV30-2	30.0	2" mipt

	GH30		30.0	2-1/2" mipt
	GH35	DV350	35.0	2-1/2" mipt
*	GH40	DV400	40.0	2-1/2" mipt
	GH45	DV450	45.0	2-1/2" mipt
	GH50	DV500	50.0	2-1/2" mipt
	GH55	DV550	55.0	2 1/2" mipt
	GH60	DV600	60.0	2-1/2" mipt
	GH65	DV650	65.0	2-1/2" mipt
	GH70	DV700	70.0	2-1/2" mipt
	GH75	DV750	75.0	2-1/2" mipt
	GH80	DV800	80.0	2-1/2" mipt
	GH85		85.0	2-1/2" mipt
	GH90	DV900	90.0	2 1/2" mipt

GK30		30.0	3" mipt
GK35	DV3500	35.0	3" mipt
GK40	DV4000	40.0	3" mipt
GK45	DV4500	45.0	3" mipt
GK50		50.0	3" mipt
GK55	DV5500	55.0	3" mipt
GK60		60.0	3" mipt
GK65	DV6500	65.0	3" mipt
GK70		70.0	3" mipt
GK75		75.0	3" mipt
GK80		80.0	3" mipt
GK85	DV8500	85.0	3" mipt
GK90		90.0	3" mipt
GK95		95.0	3" mipt
GK100	DV1000	100.0	3" mipt
GK105		105.0	3" mipt
GK110		110.0	3" mipt
GK115		115.0	3" mipt
GK120	DV1200	120.0	3" mipt

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Installation Accessories - Electrical





HS and HSC Series

Heat Shrink Splicing Kit Features:

- Excellent dielectric strength and can be shrunk over a large diameter connector and still effectively seals watertight down to a small diameter cable.
- Available in two, three and four wire kits. Designed to fit the new, smaller O.D. pump leads.
- No grease tape or epoxy is needed.
- Highly resistant to moisture, fungus and weathering.
- Supplied w/ EC1410 wire connectors for #14-#10 gauge wire. (EC6/8 for LHS Series.)
- Private labeling available for minimum orders of 200 kits.
- Bulk tubing available.
- **Third party certified to NSF/ANSI 372.**

Wire Connector Features:

- Provides quick, safe and sure electrical connection.
- Seamless.
- 13/16" in length.

Part Number	Tubes Fits Wire Size	# Tubes	# Butt Connectors (included in kit)	Ctn Qty
Black Heavy Wall Heat Shrink Kits				
HS2	#14, #12, #10	2	2	50
HS3	#14, #12, #10	3	3	50
HS3-4	#14, #12, #10	3	4	50
HS4	#14, #12, #10	4	4	50
LHS3	#8, #6, #4, #2	3	3 (#8) 3 (#6)	20
LHS4	#8, #6, #4, #2	4	4 (#8) 4 (#6)	20
CHST	#14, #12, #10	BULK	0	500
Black Standard Wall Heat Shrink Kits				
HSSW2	#14, #12, #10	2	2	50
HSSW2-3	#14, #12, #10	2	3	50
HSSW3	#14, #12, #10	3	3	50
HSSW4	#14, #12, #10	4	4	50
CHSSWT	#14, #12, #10	BULK	0	500
Clear Heavy Wall Heat Shrink Kits				
HSHWC2	#14, #12, #10	2	2	50
HSHWC2-3	#14, #12, #10	2	3	50
HSHWC3	#14, #12, #10	3	3	50
HSHWC3-4	#14, #12, #10	3	4	50
HSHWC4	#14, #12, #10	4	4	50
LHSHWC3	#8, #6, #4, #2	3	3 (#8) 3 (#6)	20
LHSHWC4	#8, #6, #4, #2	4	4 (#8) 4 (#6)	20
CHSHWCT	#14, #12, #10	BULK	0	500
Clear Standard Wall Heat Shrink Kits				
HSCL2	#14, #12, #10	2	2	50
HSCL3	#14, #12, #10	3	3	50
HSCL3-4	#14, #12, #10	3	4	50
HSCL4	#14, #12, #10	4	4	50
CHSCLT	#14, #12, #10	BULK	0	500
Wire Connectors				
EC1410	For #14-10 gauge wire			sold per 100 pc
EC8	For #8 gauge wire			250
EC6	For #6 gauge wire			250
EC4	For #4 gauge wire			100
EC2	For #2 gauge wire			100



EC Series

Installation Accessories - Electrical



SK Series

Compression Splicing Kit Features:

- Molded from high impact resistant polycarbonate.
- No water absorption characteristics.
- Excellent dielectric properties.
- Available in two, three and four wire kits.
- Supplied with EC1410 wire connectors for #14-#10 gauge wire.
- **Third party certified to NSF/ANSI 372.**



LA302R

LA300 Series Lightning Arrestor Features:

- LA302 Rated 125-250V, single phase, 3 wire Light Duty service.
- Maximum Current: 60,000 amps on LA302.
- Maximum Energy per pole: 2000 joules on LA302.
- Unlimited number of surges.
- N-4 Weatherproof enclosure.
- Use with 1/2" or 3/4" locknut for knock-out installation.
- ETL Listed



HPL

Pump Light Features:

- Can be used with two or three wire motors in either 115 volt or 230 volt applications.
- It is easy to install at the pressure switch, where it is used to indicate that the pump is running or at the control box, where it is used to indicate that current is available to the submersible pump.

Part Number	Description	# Tubes	# Connectors	Ctn Qty
Compression Splice Kits				
SK2	#14, #12, #10	2	2	50
SK3	#14, #12, #10	3	3	50
SK4	#14, #12, #10	4	4	50
Lightning Arrestors				
LA302R	125/250 V, Single phase, 3 wire, 2 1/4" x 2 1/4"			18
Pump Light				
HPL75	Pump Light			12

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Pressure Switches - Imported







3 Year Warranty

Imported Pressure Switch Features:

- Designed for the control of electrically driven water pumps.
- Suitable for all types of pumps: jet, submersible, reciprocating, etc.
- Diaphragm actuated.
- 1/4" FPT connection.
- Standard, manual and low pressure cut-off available.
- Terminal and ground screws are combination slotted, phillips heads.
- Captive cover thumb screw.
- Black plastic NEMA 1 general purpose enclosure.
- UL, CSA listed US and Canada, CE certifited.
- **Individually boxed**. Bulk packaging available on standard switch only.
- 3 year warranty.
- **Third party certified to NSF/ANSI 372.**





Part Number	Description	Cut-In/Cut-off	Package	Case Qty
PS2040	Standard Switch	20/40	Individual Ctn	50
PS3050	Standard Switch	30/50	Individual Ctn	50
PS4060	Standard Switch	40/60	Individual Ctn	50
CPS2040	Standard Switch	20/40	Bulk Packed	50
CPS3050	Standard Switch	30/50	Bulk Packed	50
CPS4060	Standard Switch	40/60	Bulk Packed	50
PS3050M1	Manual Cut-off	30/50	Individual Ctn	50
PS4060M1	Manual Cut-off	40/60	Individual Ctn	50
PS2040M4	Low Pressure Cut-off	20/40	Individual Ctn	50
PS3050M4	Low Pressure Cut-off	30/50	Individual Ctn	50
PS4060M4	Low Pressure Cut-off	40/60	Individual Ctn	50

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Pressure Switches - PUMPTROL™



ISO 9001

Pumptrol™ 9013 Series Pressure Switch Features:

- Designed for the control of electrically driven water pumps.
- Diaphragm actuated.
- Differential increases with range.
- Contacts open on increased pressure.
- General purpose enclosure NEMA Type 1
- **Individually boxed**. Bulk packaging upon request.
- Manufactured for AGI in an ISO 9001 facility.
- **Third party certified to NSF/ANSI 372.**

PUMPTROL™ BY YAGEO Telemecanique Sensors

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Certified to NSF/ANSI 61

AGI Part Number	MFG Material #	Description/Special Features	Ctn Qty
9013FSG2 20/40	9013FSG2J20	Standard Pump Switch	50
9013FSG2 30/50	9013FSG2J21	Standard Pump Switch	50
9013FSG2 40/60	9013FSG2J24	Standard Pump Switch	50
9013FSG2M4 20/40	9013FSG2J20M4	Low Pressure Cutoff	40
9013FSG2M4 30/50	9013FSG2J21M4	Low Pressure Cutoff	40
9013FSG2M4 40/60	9013FSG2J24M4	Low Pressure Cutoff	40
9013FSG2M1 20/40	9013FSG2J20M1	Manual Cutoff Lever	1
9013FSG2M1 30/50	9013FSG2J21M1	Manual Cutoff Lever	1
9013FSG2M1 40/60	9013FSG2J24M1	Manual Cutoff Lever	1
9013FSG2P 20/40	9013FSG2J20P	Std w/ Pulsation Plug	1
9013FSG2P 30/50	9013FSG2J21P	Std w/ Pulsation Plug	1
9013FSG2P 40/60	9013FSG2J24P	Std w/ Pulsation Plug	1
9013FSG9 20/40	9013FSG9J20	1/4 mpt Connection	1
9013FSG9 30/50	9013FSG9J21	1/4 mpt Connection	1
9013FSG9 40/60	9013FSG9J24	1/4 mpt Connection	1
9013FYG2 30/50	9013FYG2J21	Medium Duty Pump Switch	1
9013FYG2 40/60	9013FYG2J24	Medium Duty Pump Switch	1
9013FYG2 60/80	9013FYG2J25	Medium Duty Pump Switch	1
9013FYG2 50/70	9013FYG2J33	Medium Duty Pump Switch	1
9013GHG2 60/80	9013GHG2J25	Heavy Duty Pump Switch	1
9013GHG2 80/100	9013GHG2J30	Heavy Duty Pump Switch	1
9013GHG2 120/150	9013GHG2J57	Heavy Duty Pump Switch	1
9013GHG2 145/175	9013GHG2J63	Heavy Duty Pump Switch	1
9013GSG2 20/40	9013GSG2J20	Heavy Duty Pump Switch	1
9013GSG2 30/50	9013GSG2J21	Heavy Duty Pump Switch	1
9013GSG2 40/60	9013GSG2J24	Heavy Duty Pump Switch	1
9013GSG2 60/80	9013GSG2J25	Heavy Duty Pump Switch	1
Pulsation Plug	1530S6G1	Pulsation Plug	50

SEE CATALOG PAGE 5.8 for FLOAT SWITCHES.

- Other 9013 class Pumptrol switches available on a special order basis.
- Special order minimums and/or surcharges may apply. Allow 3 weeks for delivery.

Pressure Switches - PUMPTROL™

PUMPTROL™ BY YAGEO Telemecanique Sensors

SPECIFICATIONS

General Purpose Enclosure NEMA Type 1 Product No.	Special Feature	Application		Pipe Connection
9013FSG9	1/4" MPT Conection	Domestic Water Pumps	Domestic Water Pumps	1/4"– 18 NPT
9013FYG2	High H.P. 80 PSI range			
9013FSG2	Standard Pump Switch			
9013FSG2P	Pulsation Plug			
9013FSG2M1	Manual Cutout Lever			
9013FSG2M4	Low Pressure Cutoff			
		Air Compressors Lg.Water Pumps	Water or Air	
9013GSG2	Heavy Duty Pump Switch			
9013GHG2	Heavy Duty Pump Switch			1/4"– 18 NPT Internal Thread

Horsepower Chart
General Purpose Enclosure

Product No.	Poles	Cut-out PSI	Diff PSIG	Single Phase 110V	Single Phase 220V	Polyphase AC 220V	Polyphase AC 440V	Polyphase AC 550V	Direct Current 32V	Direct Current 115V	Direct Current 230V
9013FSG9	2	20-65	15-30	1	11/2	2			1/4		
9013FYG2	2	25-80	20-30	11/2	2	3			1/4	1/2	1/2
9013FSG2	2	20-65	15-30	11/2	2	2			1/4		
9013FSG2P	2	20-65	15-30	11/2	2	2			1/4		
9013FSG2M1	2	20-65	15-30	11/2	2	2			1/4		
9013FSG2M4	2	20-65	15-30	11/2	2	2			1/4		
9013GSG2	2	20-80	12-36	2	3	5	5	5	1/2	1	1
9013GHG2	2	65-200	25-60	2	3	5	5	5	1/2	1	1

Pressure Code Table

Code	Setting PSI (Close-Open)
J15	5-21
J16	8-20
J18	20-50
J20	20-40
J21	30-50
J23	40-20
J24	40-60
J25	60-80
J26	70-90
J28	70-100
J29	75-100
J31	90-120
J33	50-70
J34	55-85
J51	100-80
J57	120-150
J63	145-175

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Liquid Level Controls

B/W Controls



Liquid Level Control

Liquid Level Control Features:

- Provides automatic low level cutoff protection for submersible pumps & deep well turbines.
- Liquid level submersible pump control system consists of a standard enclosed type induction relay which operates from two insulated electrodes suspended at desired levels.
- Permits efficient operation at full capacity and eliminates danger of pumping air or sand.
- Wiring diagrams and complete installation instruction are included with each control.

1500G SERIES INDUCTION RELAY:

- Two way control system for pump up or pump down.
- Rated at 1 hp single phase, 115 or 230 volts A.C.
- For use in controlling hydropneumatic tanks and motorized valve installations.

1500C and 1500D SERIES INDUCTIONRELAY:

- Rated at 1 h.p. single phase, 110 or 220 volts and furnished in a NEMA 1 metal enclosure.
- For control of a larger motor, it can also be supplied in a common enclosure with an auxiliary relay without overload protection or with a magnetic starter that has overload protection.
- 1500C Series for sewage & sump pump, low level cutoff for submersible pump application.
- 1500D Series for supply pumps on elevated tanks &towers, high level cutoff for pumps & valves.



Electrode

6013 SERIES ELECTRODES:

* NO LEAD LEAD-FREE

- Made of brass or 303 stainless steel.
- 2" long.
- Assembled in molded plastic insulating shield 9/16" in diameter.
- Use in submersible pump installations by suspending to desired length w/ suspension wire.

NEW Part Number	OLD Part Number	Description	Volts	Ctn Qty
1500G-L1-S7-N1X	DH110-220	Pump-up/Pump-down	110/220 volts	1
1500G-L1-S8-N1X	DH110-360	Pump-up/Pump-down	110/360 volts	1
1500G-L2-S7-N1X	DH220-220	Pump-up/Pump-down	220/220 volts	1
1500G-L2-S8-N1X	DH220-360	Pump-up/Pump-down	220/360 volts	1
1500G-L3-S8-N1X	DH440-360	Pump-up/Pump-down	440/360 volts	1
1500C-L1-S4-N1X	LH110-110	Pump-down	110/120 volts	1
1500C-L1-S7-N1X	LH110-220	Pump-down	110/220 volts	1
1500C-L1-S8-N1X	LH110-360	Pump-down	110/360 volts	1
1500C-L2-S7-N1X	LH220-220	Pump-down	220/220 volts	1
1500C-L2-S8-N1X	LH230-360	Pump-down	230/360 volts	1
1500D-L1-S7-N1X	RH110-220	Pump-up	110/220 volts	1
1500D-L1-S8-N1X	RH110-360	Pump-up	110/360 volts	1
1500D-L2-S7-N1X	RH220-220	Pump-up	220/220 volts	1

Electrodes			
6013-W6	E1S	Stainless Steel *	1
6013-W5	E1SB	Brass	1

Liquid Level Controls

B/W Controls

Induction Relay Coil Selection Data

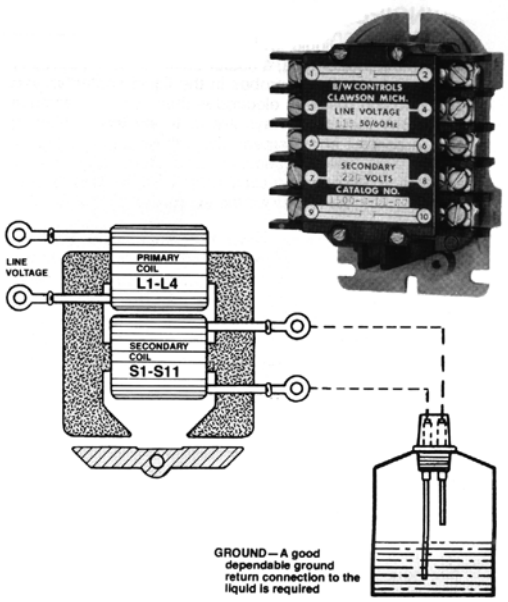
Primary Coil:

The primary coil voltage should be chosen to match the line voltage of the control system. The 1500 Series Induction Relay can be supplied with any of the following line voltages.

Line Voltage	Frequency (Hertz)	Max Amps (Secondary Shorted)
110-120	50-60	.075
208-240	50-60	.038
440-480	50-60	.019

Secondary Coil:

Since B/W level control systems use liquid as an electrical conductor to complete the relay's secondary circuit - and since the resistance of liquid varies, it is necessary that each induction relay be equipped with a secondary coil that will operate over the resistance of the liquid it controls. The table below lists the operating characteristics of various coils available. All values are based on line voltage of 115, 230, 460 volts at 60 hertz.



Typical Liquids:

The following recommendations are satisfactory for general use, but because the conductivity of liquids varies greatly with concentration, purity, temperature and other factors, some applications may require a different selection.
A number of the products listed are produced as solids such as crystals or powders, and the relay selection is based on the normally used commercial solutions of these materials.

Liquid Description	Secondary Coil
Acetic Acid - up to 75%	90 volt
- 75 - 90%	220 volt
Acids - General	40 or 90 volt
Alkalies - General	40 or 90 volt
Alum Solutions	220 volt
Aluminum Sulphate	90 volt
Aluminum Hydroxide	90 volt
Amino Acids	90 volt
Ammonium Chloride	40 volt
Ammonium Hydroxide (Ammonia)	220 volt
Ammonium Sulphate	220 volt
Baby foods	90 volt
Barium Chloride	40 volt
Barium Nitrate	40 volt
Beer	90 volt
Black liquor	40 volt
Blood	220 volt
Borax - up to 10%	220 volt
- Greater than 10%	90 volt
Bread dough	90 volt
Buttermilk	24 or 40 volt
Cadmium Chloride	40 volt
Cake batter	220 volt
Calcium Chloride	40 volt
Calcium Hydroxide	220 volt

Liquid Description	Secondary Coil
Carbolic Acid - up to 90%	220 volt
Catsup	90 volt
Caustic Soda (Sodium Hydroxide)	40 volt
Cement slurry	220 volt
Chromic acid	40 volt
Citric acid	40 or 90 volt
Coffee	90 volt
Condensate - ordinary water	480 volt
Corn syrup	480 volt
Corn - cream style	90 volt
Ferrous Sulphate	220 volt
Formic acid - up to 75%	90 volt
- 75 to 90%	220 volt
Hydrofluoric acid - up to 20%	220 volt
- above 20%	40 volt
Hydrofluorsilicic acid	90 volt
Jams & jellies	360 volt
Juices - fruit & vegetable	40 or 90 volt
Lithium Chloride	40 volt
Magnesium Hydroxide	90 volt
Mayonnaise	220 volt
Milk	40 volt
Molasses	220 volt
Muriatic acid	40 volt
Mustard	40 volt

Liquid Description	Secondary Coil
Nitric acid	40 or 90 volt
Orange juice	90 volt
Paper stock	220 volt
Penicillin	220 volt
Phosphoric acid	40 volt
Plating solutions	40 or 90 volt
Salts - chemical	40 or 90 volt
Sodium Carbonate (soda ash)	90 volt
Sodium Chloride (table salt)	40 volt
Sodium Hydroxide (caustic soda)	40 volt
Sodium Hypochlorate	40 volt
Sodium Silicate (water glass)	90 volt
Soups	40 volt
Starch solutions	220 volt
Sugar - low concentrations	220 volt
- high concentrations	360 volt
Vinegar	90 volt
Water - Sea	40 volt
- Ordinary potable	220 volt
- ordinary soft	360 volt
- Ordinary condensate	480 volt
Zinc Chloride	40 volt

NOTE: Maximum distance limitations for typical induction relay secondary circuits are: 220 secondary - 900 feet, 360 secondary - 350 ft, 480 secondary - 250 ft.

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Pressure Gauges - NO LEAD Dry



IPPG or IPG Series

ISO 9001

Pressure Gauge Features:

- Rugged precision made phosphor-bronze Bourdon tube movements assuring maximum accuracy (+/- 3-2-3%) under adverse field conditions.
- **TO BE USED WITH AIR OR WATER ONLY.**
- Manufactured for AGI in an ISO 9001 facility.
- Bourdon tube movement is totally enclosed in corrosion resistant housing.
- Resists rust, electrolytic action and chemical solvents.
- **Third party certified to NSF/ANSI 61&372.** No Lead brass sockets.
- Deep drawn one piece steel or molded plastic housings encase a quality movement.
- Genuine mar-resistant glass or acrylic lens.

HARVARD

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

CAUTION

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, PLASTIC CASE, DRY						
IPPG302-4LNL	Plastic	0-30#	Pressure	2"	1/4 Lower	100
IPPG302-4BNL	Plastic	0-30#	Pressure	2"	1/4 Back	100
IPPG602-4LNL	Plastic	0-60#	Pressure	2"	1/4 Lower	100
IPPG602-4BNL	Plastic	0-60#	Pressure	2"	1/4 Back	100
IPPG1002-4LNL	Plastic	0-100#	Pressure	2"	1/4 Lower	100
EIPPG1002-4LPNL	Plastic	0-100#	Pressure	2" No dial logo	1/4 Lower	100
IPPG1002-4BNL	Plastic	0-100#	Pressure	2"	1/4 Back	100
IPVG302-4LNL	Plastic	0-30 Hg"	Vacuum	2"	1/4 Lower	100
2" DIAL SIZE, STEEL CASE, DRY						
IPG152-4LNL	Steel	0-15#	Pressure	2"	1/4 Lower	100
IPG302-4LNL	Steel	0-30#	Pressure	2"	1/4 Lower	100
IPG302-4BNL	Steel	0-30#	Pressure	2"	1/4 Back	100
IPG302-8LNL	Steel	0-30#	Pressure	2"	1/8 Lower	100
IPG302-8BNL	Steel	0-30#	Pressure	2"	1/8 Back	100
IPG602-4LNL	Steel	0-60#	Pressure	2"	1/4 Lower	100
IPG602-4BNL	Steel	0-60#	Pressure	2"	1/4 Back	100
IPG602-8LNL	Steel	0-60#	Pressure	2"	1/8 Lower	100
IPG1002-4LNL	Steel	0-100#	Pressure	2"	1/4 Lower	100
EIPG1002-4LPNL	Steel	0-100#	Pressure	2" No dial logo	1/4 Lower	100
IPG1002-4BNL	Steel	0-100#	Pressure	2"	1/4 Back	100
IPG1002-8LNL	Steel	0-100#	Pressure	2"	1/8 Lower	100
IPG1002-8BNL	Steel	0-100#	Pressure	2"	1/8 Back	100
IPG1602-4LNL	Steel	0-160#	Pressure	2"	1/4 Lower	100

Pressure Gauges - NO LEAD Dry



CAUTION

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, STEEL CASE, DRY						
IPG2002-4LNL	Steel	0-200#	Pressure	2"	1/4 Lower	100
IPG2002-4BNL	Steel	0-200#	Pressure	2"	1/4 Back	100
IPG2002-8LNL	Steel	0-200#	Pressure	2"	1/8 Lower	100
IPG3002-4LNL	Steel	0-300#	Pressure	2"	1/4 Lower	100
IPVG302-4BNL	Steel	0-30 Hg"	Vacuum	2"	1/4 Back	100
IPVG302-8LNL	Steel	0-30 Hg"	Vacuum	2"	1/8 Lower	100
IPCG3102-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	2"	1/4 Lower	100
IPCG3602-4LNL	Steel	30Hg"/60#	Vacuum/PRessure	2"	1/4 Lower	200
2" DIAL SIZE, STAINLESS STEEL CASE, 316SS INTERNALS and MOUNT, DRY						
EIPG1002-4LSS316	Stainless Steel	0-100#	Pressure	2"	1/4 Lower	100
EIPG1002-4BSS316	Stainless Steel	0-100#	Pressure	2"	1/4 Back	100
EIPG2002-4LSS316	Stainless Steel	0-200#	Pressure	2"	1/4 Lower	100
EIPG2002-4BSS316	Stainless Steel	0-200#	Pressure	2"	1/4 Back	100
2 1/2" DIAL SIZE, DRY						
IPG1525-4LNL	Plastic	0-15#	Pressure	2 1/2"	1/4 Lower	100
IPG3025-4LNL	Steel	0-30#	Pressure	2 1/2"	1/4 Lower	100
IPG6025-4LNL	Steel	0-60#	Pressure	2 1/2"	1/4 Lower	100
IPG10025-4LNL	Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50
IPG16025-4LNL	Steel	0-160#	Pressure	2 1/2"	1/4 Lower	100
IPG20025-4LNL	Steel	0-200#	Pressure	2 1/2"	1/4 Lower	100
IPG30025-4LNL	Steel	0-300#	Pressure	2 1/2"	1/4 Lower	50
IPG40025-4LNL	Steel	0-400#	Pressure	2 1/2"	1/4 Lower	50
IPVG3025-4LNL	Plastic	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50
IPCG31025-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	2 1/2"	1/4 Lower	50
3 1/2" DIAL SIZE, STEEL CASE, DRY						
IPG3035-4LNL	Steel	0-30#	Pressure	3 1/2"	1/4 Lower	50
IPG10035-4LNL	Steel	0-100#	Pressure	3 1/2"	1/4 Lower	50
IPG20035-4LNL	Steel	0-200#	Pressure	3 1/2"	1/4 Lower	50
IPG30035-4LNL	Steel	0-300#	Pressure	3 1/2"	1/4 Lower	50
4 1/2" DIAL SIZE, STEEL CASE, DRY						
IPG3045-4LNL	Steel	0-30#	Pressure	4 1/2"	1/4 Lower	50
IPG6045-4LNL	Steel	0-60#	Pressure	4 1/2"	1/4 Lower	50
IPG10045-4LNL	Steel	0-100#	Pressure	4 1/2"	1/4 Lower	50
IPG20045-4LNL	Steel	0-200#	Pressure	4 1/2"	1/4 Lower	50
IPG30045-4LNL	Steel	0-300#	Pressure	4 1/2"	1/4 Lower	50
IPVG3045-4LNL	Steel	30 Hg"	Vacuum	4 1/2"	1/4 Lower	50
IPCG36045-4LNL	Steel	30 Hg"/60#	Vacuum/Pressure	4 1/2"	1/4 Lower	50
IPCG31045-4LNL	Steel	30 Hg"/160#	Vacuum/Pressure	4 1/2"	1/4 Lower	50

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Pressure Gauges - Dry



Pressure Gauge

ISO 9001

Pressure Gauge Features:

- Rugged precision made phosphor-bronze Bourdon tube movements assuring maximum accuracy (+/- 3-2-3%) under adverse field conditions.
- **TO BE USED WITH AIR OR WATER ONLY.**
- Manufactured for AGI in an ISO 9001 facility.

HARVARD



CAUTION

POLYPROPYLENE CASE:

- Bourdon tube movement is totally enclosed in corrosion resistant polypropylene housing, acrylic lens.
- Resists rust, electrolytic action and chemical solvents.
- Brass sockets standard.

STEEL CASE:

- Deep drawn one piece steel housing encases a quality movement.
- Genuine mar-resistant glass lens and brass socket connections are standard.

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov



This product is designed and intended for use in NON-POTABLE water applications only.

AMERICAN GRANBY INC.

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, PLASTIC CASE, DRY						
IPPG302-4L	Plastic	0-30#	Pressure	2"	1/4 Lower	100
IPPG302-4B	Plastic	0-30#	Pressure	2"	1/4 Back	100
IPPG602-4L	Plastic	0-60#	Pressure	2"	1/4 Lower	100
IPPG602-4B	Plastic	0-60#	Pressure	2"	1/4 Back	100
IPPG1002-4L	Plastic	0-100#	Pressure	2"	1/4 Lower	100
IPVG302-4L	Plastic	0-30 Hg"	Vacuum	2"	1/4 Lower	100
2" DIAL SIZE, STEEL CASE, DRY						
IPG302-4L	Steel	0-30#	Pressure	2"	1/4 Lower	100
IPG302-4B	Steel	0-30#	Pressure	2"	1/4 Back	100
IPG302-8L	Steel	0-30#	Pressure	2"	1/8 Lower	100
IPG302-8B	Steel	0-30#	Pressure	2"	1/8 Back	100
IPG602-4L	Steel	0-60#	Pressure	2"	1/4 Lower	100
IPG602-4B	Steel	0-60#	Pressure	2"	1/4 Back	100
IPG602-8L	Steel	0-60#	Pressure	2"	1/8 Lower	100
IPG1002-4L	Steel	0-100#	Pressure	2"	1/4 Lower	100
IPG1002-8B	Steel	0-100#	Pressure	2"	1/8 Back	100

Pressure Gauges - Dry

WARNING

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For more information go to www.P65Warnings.ca.gov

CAUTION
DO NOT USE WITH POTABLE WATER

This product is designed and intended for use in NON-POTABLE water applications only.

AMERICAN GRANBY INC.



CAUTION

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, STEEL CASE, DRY						
IPVG302-4B	Steel	0-30 Hg"	Vacuum	2"	1/4 Back	100
IPVG302-8L	Steel	0-30 Hg"	Vacuum	2"	1/8 Lower	100
IPCG3602-4L	Steel	30Hg"/60#	Vacuum/PRessure	2"	1/4 Lower	200
2 1/2" DIAL SIZE, DRY						
IPG3025-4L	Steel	0-30#	Pressure	2 1/2"	1/4 Lower	100
IPG6025-4L	Steel	0-60#	Pressure	2 1/2"	1/4 Lower	100
IPG10025-4L	Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50
IPG16025-4L	Steel	0-160#	Pressure	2 1/2"	1/4 Lower	100
IPVG3025-4L	Plastic	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50
4 1/2" DIAL SIZE, STEEL CASE, DRY						
IPG3045-4L	Steel	0-30#	Pressure	4 1/2"	1/4 Lower	50
IPG6045-4L	Steel	0-60#	Pressure	4 1/2"	1/4 Lower	50
IPG10045-4L	Steel	0-100#	Pressure	4 1/2"	1/4 Lower	50
IPVG3045-4L	Steel	30 Hg"	Vacuum	4 1/2"	1/4 Lower	50
IPCG36045-4L	Steel	30 Hg"/60#	Vacuum/Pressure	4 1/2"	1/4 Lower	50
IPCG31045-4L	Steel	30 Hg"/160#	Vacuum/Pressure	4 1/2"	1/4 Lower	50

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Pressure Gauges - NO LEAD Liquid Filled



EILPG Series



ILPG Series

Liquid Filled Pressure Gauge Features:

- Stainless steel or black steel case.
- Glycerine filled, phosphor bronze bourdon tube.
- Accuracy +/- 3-2-3%.
- 2" or 2 1/2" Dial face with clear acrylic lens.
- Crimped stainless steel ring.
- For use in high vibration, corrosion situations.
- **Third party certified to NSF/ANSI 61&372.**
- No lead brass or stainless steel sockets.
- **TO BE USED WITH AIR OR WATER ONLY.**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



CAUTION

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, LIQUID FILLED						
EILPG302-4LNL	Steel	0-30#	Pressure	2"	1/4" Lower	100
EILPG602-4LNL	Steel	0-60#	Pressure	2"	1/4" Lower	100
EILPG602-4BNL	Steel	0-60#	Pressure	2"	1/4" Back	100
EILPG1002-4LNL	Steel	0-100#	Pressure	2"	1/4" Lower	100
EILPG1002-4BNL	Steel	0-100#	Pressure	2"	1/4" Back	100
EILPG1002-8BNL	Steel	0-100#	Pressure	2"	1/8" Back	100
EILPG1602-4LNL	Steel	0-160#	Pressure	2"	1/4" Lower	100
EILPG2002-4LNL	Steel	0-200#	Pressure	2"	1/4" Lower	100
EILVG302-4LNL	Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100
EILVG302-4BNL	Steel	0-30 Hg"	Vacuum	2"	1/4" Back	100
EILPG302-4LSSNL	Stainless Steel	0-30#	Pressure	2"	1/4" Lower	100
EILPG602-4LSSNL	Stainless Steel	0-60#	Pressure	2"	1/4" Lower	100
EILPG602-4BSSNL	Stainless Steel	0-60#	Pressure	2"	1/4" Back	100
EILPG1002-4LSSNL	Stainless Steel	0-100#	Pressure	2"	1/4" Lower	100
EILPG1002-4LSS316*	Stainless Steel 316	0-100#	Pressure	2"	1/4" Lower	100
EILPG1002-4BSSNL	Stainless Steel	0-100#	Pressure	2"	1/4" Back	100
EILPG1002-4BSS316*	Stainless Steel 316	0-100#	Pressure	2"	1/4" Back	100
EILPG1602-4LSSNL	Stainless Steel	0-160#	Pressure	2"	1/4" Lower	100
EILPG2002-4LSSNL	Stainless Steel	0-200#	Pressure	2"	1/4" Lower	100
EILVG302-4LSSNL	Stainless Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100
EILVG302-4BSSNL	Stainless Steel	0-30 Hg"	Vacuum	2"	1/4" Back	100

* 316 Stainless steel internals and mount.

2 1/2" DIAL SIZE, LIQUID FILLED						
ILPG3025-4LNL	Stainless Steel	0-30#	Pressure	2 1/2"	1/4 Lower	50
ILPG6025-4LNL	Stainless Steel	0-60#	Pressure	2 1/2"	1/4 Lower	50
ILPG10025-4LNL	Stainless Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50
ILPG16025-4LNL	Stainless Steel	0-160#	Pressure	2 1/2"	1/4 Lower	50
ILPG20025-4LNL	Stainless Steel	0-200#	Pressure	2 1/2"	1/4 Lower	50
ILPG30025-4LNL	Stainless Steel	0-300#	Pressure	2 1/2"	1/4 Lower	50
ILPG40025-4LNL	Stainless Steel	0-400#	Pressure	2 1/2"	1/4 Lower	50
ILVG3025-4LNL	Stainless Steel	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50
ILVG3025-4BNL	Stainless Steel	0-30 Hg"	Vacuum	2 1/2"	1/4 Back	50
ILCG36025-4LNL	Stainless Steel	30 Hg"/60#	Vacuum/Press	2 1/2"	1/4 Lower	50

Pressure Gauges - Liquid Filled



EILPG Series



ILPG Series

Liquid Filled Pressure Gauge Features:

- Stainless steel or black steel case
- Glycerine Filled, Phosphor bronze bourdon tube
- Accuracy +/- 3-2-3%
- 2" or 2 1/2" Dial face with clear acrylic lens
- Crimped stainless steel ring
- For use in high vibration, corrosion situations
- **TO BE USED WITH AIR OR WATER ONLY.**



CAUTION

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov



This product is designed and intended for use in NON-POTABLE water applications only.

AMERICAN GRANBY INC.

Part Number	Case	Range	Type	Dial Size	MIP Conn.	Ctn Qty
2" DIAL SIZE, LIQUID FILLED						
EILPG302-4L	Steel	0-30#	Pressure	2"	1/4" Lower	100
EILPG602-4L	Steel	0-60#	Pressure	2"	1/4" Lower	100
EILPG602-4B	Steel	0-60#	Pressure	2"	1/4" Back	100
EILPG1002-4L	Steel	0-100#	Pressure	2"	1/4" Lower	100
EILPG1002-4B	Steel	0-100#	Pressure	2"	1/4" Back	100
EILPG1602-4L	Steel	0-160#	Pressure	2"	1/4" Lower	100
EILVG302-4L	Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100
EILPG302-4LSS	Stainless Steel	0-30#	Pressure	2"	1/4" Lower	100
EILPG602-4LSS	Stainless Steel	0-60#	Pressure	2"	1/4" Lower	100
EILPG602-4BSS	Stainless Steel	0-60#	Pressure	2"	1/4" Back	100
EILPG1002-4LSS	Stainless Steel	0-100#	Pressure	2"	1/4" Lower	100
EILVG302-4LSS	Stainless Steel	0-30 Hg"	Vacuum	2"	1/4" Lower	100
2 1/2" DIAL SIZE, LIQUID FILLED						
ILPG3025-4L	Stainless Steel	0-30#	Pressure	2 1/2"	1/4 Lower	50
ILPG6025-4L	Stainless Steel	0-60#	Pressure	2 1/2"	1/4 Lower	50
ILPG10025-4L	Stainless Steel	0-100#	Pressure	2 1/2"	1/4 Lower	50
ILPG16025-4L	Stainless Steel	0-160#	Pressure	2 1/2"	1/4 Lower	50
ILPG20025-4L	Stainless Steel	0-200#	Pressure	2 1/2"	1/4 Lower	50
ILVG3025-4L	Stainless Steel	0-30 Hg"	Vacuum	2 1/2"	1/4 Lower	50
ILCG36025-4L	Stainless Steel	30 Hg"/60#	Vacuum/Press	2 1/2"	1/4 Lower	50

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Specialty Pressure Gauges



IPG45-WLSS

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

IPG45-WL Water Level Gauge Features:

- 4 1/2" face #304 stainless steel case and clear acrylic lens.
- #304 stainless steel bezel with side screws.
- Brass pointer with black finish.
- NL brass movement.
- Range 0-390' H2O. Accuracy: +/- 3-2-3%
- Bourdon tube-phosphor bronze, soft soldered.
- Connection: 1/4" NPT, lower mount, NL brass.
- **Third party certified to NSF/ANSI 61&372.**

Part Number	Size	Description	MIP Conn.	Ctn Qty
		NO LEAD BRASS		
IPG45-WLSSNL	4 1/2"	0 - 390' Water Level	1/4" lower	20



PTG1002

Pressure Test Gauge Features:

- 0-100 psi, 2" plastic lens.
- Brass test fitting with pressure release button.
- Heavy rubber boot to protect gauge from damage.

Part Number	Size	Pressure Setting/Description	Ctn Qty
PTG1002	2" case	0-100# Pressure test gauge	50



PGBS

CAUTION
DO NOT USE WITH POTABLE WATER

Pressure Gauge Brass Snubber Features:

- Use with any pressure gauge subjected to rapidly fluctuating pressures or sudden shock pressure.
- Brass housing with high strength sintered, porous type snubbing element.

Part Number	Size/Description	Ctn Qty
PGBS1/4	1/4" mpt x 1/4" fpt Brass Snubber	50/500



WTG



WTG MP

CAUTION
DO NOT USE WITH POTABLE WATER

Water Test Gauge Features:

- Quick, easy method to test a wide range of pressure systems for leakage.
- 2 1/2" dial face, steel case pressure gauge w/ plastic lens.
- With standard 3/4" FGHT swivel garden hose connection with rubber washer.
- Attach to hose bibbs, boiler drains and lawn faucets for pressure testing.
- "MP" series MAX pointer arm measures maximum water surge or pressure drop.
- Individually cartoned.

Part Number	Size	Pressure Setting/Description	PSI dial increments	Ctn Qty
WTG100	2 1/2"	0-100# water test gauge, fght	1	50
WTG200	2 1/2"	0-200# water test gauge, fght	2	50
WTG300	2 1/2"	0-300# water test gauge, fght	3	100
WTG100MP	2 1/2"	0-100# gauge with MAX pointer	1	50
WTG200MP	2 1/2"	0-200# gauge with MAX pointer	2	50
WTG300MP	2 1/2"	0-300# gauge with MAX pointer	3	50

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

CAUTION
DO NOT USE WITH POTABLE WATER

This product is designed and intended for use in NON-POTABLE water applications only.

AMERICAN GRANBY INC.

Air/Gas Test Gauges



GTG



GTM3/4

Gas Test Gauge Features:

- Quick, easy means of pressurizing & monitoring gas systems for leakage.
- Completely assembled - brass hex manifold, air valve with plastic cap and 2" dial face, steel case pressure gauge with plastic lens.
- Manifold also available separately: 3/4" fpt connection with 1/4" fpt gauge tap and 1/8" fpt air valve tap.
- Individually cartoned and available in 15, 30, 60 and 100 psi.

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

Part Number	Description	Gauge Increments	Ctn Qty
GTG15	Gas test gauge, 3/4" fpt, 0-15#	1/10 lb.	50
GTG30	Gas test gauge, 3/4" fpt, 0-30#	1/2 lb.	50
GTG60	Gas test gauge, 3/4" fpt, 0-60#	1/10 lb.	50
GTG100	Gas test gauge, 3/4" fpt, 0-100#	1 lb.	50
GTM3/4	Brass Gas test manifold only		100



PATG200

Pressure Air Test Gauge Features:

- Quick, easy means of pressurizing and monitoring plumbing systems for leakage
- Attach to hose bibb.
- Includes brass hex manifold, air valve, 2" 200# gauge, garden hose thread fitting.

Part Number	Description	Ctn Qty
PATG200	Pressure Air Test Gauge	30

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Pitless Adapters - NO LEAD Bronze



PT300NL



PT800NL



PT800TNL



PT825NL



PT100NL



PT125NL



PT3000NL



PT900NL



PT700NL & PT725NL

Pitless Adapter Features:

- Cast from **81% COPPER** content alloy **NO LEAD** bronze to insure long life and durability in the most aggressive well conditions.
- **Extended casing nipple** makes installation easy.
- Rubber inner and outer casing gaskets for certified & approved water tight seal from ground water contamination.
- Built-in lowering eyelet for easier installation.
- All PT Series pitless adapters are individually boxed.
- All PT Series pitless adapters are 100% pressure tested.
- **All PT Series pitless adapters are certified and approved watertight to ASSE Standard #1093-2019 and WSC PAS-97 (2019) standards.**
- **NO LEAD** cast bronze pitless adapters are **third party certified to NSF/ANSI 61&372.**

WATER SYSTEMS COUNCIL
ASSE Standard #1093-2019 (R2023)
WSC Standard PAS-97 (2019) (R2023)

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

LOW-LEAD
IAPMO R&T

Part Number	Slide Stop Style	Drop Pipe Size	Nominal Well Casing	Casing Hole Opening	Max Load Capacity (lbs.)	Ctn Qty
NO LEAD Cast Bronze						
PT300NL	Top Bar	1"	5" through 12"	1 3/4"	800	10
PT800NL	Top Bar	1"	5" through 12"	1 3/4"	900	10
PT100NL	U cup	1"	5" through 12"	1 3/4"	5,000	10
PT700NL	U cup	1"	5" through 12"	1 3/4"	5,000	10
PT825NL	Top Bar	1-1/4"	5" through 12"	2 1/4"	2,000	10
PT125NL	U cup	1 1/4"	5" through 12"	2 1/4"	5,000	10
PT725NL	U cup	1-1/4"	5" through 12"	2 1/8"	5,000	10
PT3000NL	U cup	2"	5 5/8" through 12"	3 1/8"	5,000	4
PT900NL	U cup	1" & 11/4" (2 Hole)	4" through 12"	1 3/4" & 2 1/4"	2,000	6
TAPPED NO LEAD Cast Bronze for Underground tanks						
PT800TNL	Top Bar	1"	5" through 12"	1 3/4"	900	10

Pitless Adapters - Stainless Steel



PT300SS



PT800SS



PT825SS



PT3000SS

HARVARD Pitless Adapter Features:

- Cast from 304 cast stainless steel to insure long life and durability in the most aggressive well conditions.
- **Extended casing nipple** makes installation easy.
- Rubber inner and outer casing gaskets for certified & approved water tight seal from ground water contamination.
- Built-in lowering eyelet for easier installation.
- All PT Series pitless adapters are individually boxed.
- All PT Series pitless adapters are 100% pressure tested.
- **All PT Series pitless adapters are certified and approved watertight to ASSE Standard #1093-2019 and WSC PAS-97 (2019) standards.**
- 304 Stainless Steel pitless adapters are Lead Free.
- **Third party certified to NSF/ANSI 61&372 or *NSF/ANSI 372**

LOW-LEAD IAPMO R&T

WATER SYSTEMS COUNCIL
ASSE Standard #1093-2019 (R2023)
WSC Standard PAS-97 (2019) (R2023)

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

*

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Part Number	Slide Stop Style	Drop Pipe Size	Nominal Well Casing	Casing Hole Opening	Max Load Capacity (lbs.)	Ctn Qty
Cast 304 STAINLESS STEEL						
PT300SS	Top Bar	1"	5" through 12"	1 3/4"	6,000	10
PT800SS	Top Bar	1"	5" through 12"	1 3/4"	6,000	10
PT825SS	Top Bar	1-1/4"	5" through 12"	2 1/8"	6,000	10
PT3000SS *	U cup	2"	5" through 12"	3 1/8"	6,000	4

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Pitless Adapters - Clear hole, Snap-on

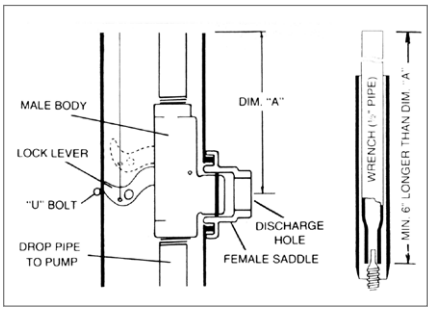


BA and BA-NL Series

Features:

- CLEAR CASING DESIGN - no internal obstructions.
- Self -supporting (750 lbs / 300' of 1" iron pipe).
- 300 series stainless steel spring, pivot pin, pull cable, U-bolt, washers, nuts and extra wide backing strap.
- Built-in safety features should spring or cable fall.
- Available in combination with conduit or watertight caps.
- Quality American made bronze or No Lead Brass (NL).
- Easy to install.
- **All BA Series pitless adapters and BA-SC combination units are certified and approved watertight to ASSE Standard #1093-2019 and WSC PAS-97 (2019) standards.**

Part Number	Description	Nominal Well Size"	Casing O.D."	Drop Pipe"	Ctn Qty
BA4-100NL	Pitless Adapter Only - NO LEAD	4	4 1/2	1	1
BA4-100PSCNL	With PSC4 Plastic Cap - NO LEAD	4	4 1/2	1	1
BA4-125NL	Pitless Adapter Only - NO LEAD	4	4 1/2	1 1/4	1
BA4-125CNL	With C4 Alum Conduit Cap - NO LEAD	4	4 1/2	1 1/4	1
BA4-125PSCNL	With PSC4 Plastic Cap - NO LEAD	4	4 1/2	1 1/4	1
BA4-125SCNL	With SC4 ABS/Alum Cap - NO LEAD	4	4 1/2	1 1/4	1
BA45-100NL	Pitless Adapter Only - NO LEAD	4 1/2 SDR17	4.95	1	1
BA45-125NL	Pitless Adapter Only - NO LEAD	4 1/2 SDR17	4.95	1 1/4	1
BA5-100NL	Pitless Adapter Only - NO LEAD	5	5 9/16	1	1
BA5-125NL	Pitless Adapter Only - NO LEAD	5	5 9/16	1 1/4	1



Installation Instructions

Note: Apply lubricant to o-ring on male member of body & female portion of saddle.
1. Cut 2 1/4" diameter discharge hole in casing with a 2 1/4" hole saw. Attach saddle and U-bolt.
2. File notch in top of casing above discharge hole for alignment and for easy reinstallation if pump must be pulled later.
3. Assemble pump and drop pipe to body and lower into casing with 1" support pipe longer than dim A. Note: Make sure male member snaps completely into female portion of saddle.
4. Remove 1" support pipe and attach cap.

Drain & Wire Fitting - Bronze



BWS75-100

Bronze Drain and Wire Fitting Features:

- Cast from bronze to insure long life and durability in the most aggressive well conditions.
- Fastens to well casing to provide tapping for well drain, electrical conduit, bulkhead fittings & other related uses.
- Rubber gasket seals out ground water contamination.

Part Number	Drop Pipe Size	Nominal Well Casing	Casing Hole Opening	Max Load Capacity (lbs.)	Ctn Qty
BWS75-100	3/4" FPT x 1" MPT	5" through 8"	1 3/8"	_	10/60

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Well Caps - ABS Plastic











WTC6 ABS PLASTIC WATERTIGHT WELL CAP

Features:

- Fits 6" ID, 6 1/4" OD well casing
- 1 1/4" NPT conduit tap for easier large wire installations.
- Hi-impact blue ABS plastic with UV inhibitors for strength and resistance to heat, cold and corrosion.
- Oversize, flexible well casing gasket seal to provide vermin-proof and tamper resistant installation.
- Heavy duty stainless steel nuts, bolts and washers for corrosion resistance and dependable gasket sealing.
- Sturdy vent system uses two downward facing 9/16" diameter, corrosion resistance, NO LEAD brass mesh screen vents to meet state codes and PAS97 certification.
- Well log inside cap records GPM, casing feet, date installed, well depth, water depth, pump HP and pump setting.
- ANSI/NSF372 Low Lead certified and listed.
- Water Systems Council/PAS97 (2019)/ASSE Standard #1093-2019 certified and listed.
- WTC6L locking feature with stainless steel ring set screw with padlock locking pads. (Padlock NOT included).
- Individually cartoned with hardware and installation instructions.

Part Number	Nominal Well Casing	Maximum Casing OD	Conduit Tap	Master Ctn Qty
WTC6	6" and 6 1/4"	6 5/8"	1 1/4"	10
WTC6L	6" and 6 1/4"	6 5/8"	1 1/4"	10

Custom personalization of the caps above is available. Add "P" suffix to part number. Self adhering, engraved brushed aluminum tag. Minimum of 24 of one size.

Do NOT overtighten screws, nuts or set screw. Overtightening will cause well cap to crack and will void warranty.

Well Caps - Plastic



PWTC6



PSC Series

HARVARD Plastic Watertight Well Cap

Features:

- PWTC6 Fits 6" and 6 1/4" ID, 6 5/8" OD well casing.
- PSC614 fits SDR27.6 6 1/4" ID PVC well casing with 6.9" OD.
- Gray, glass-filled thermoplastic with UV stabilizers.
- White ABS bottom casing seal for PSC Series.
- Especially formulated for outdoor weatherability.
- Stainless steel bolts, nuts included.
- Factory installed stainless steel vents. 1" conduit tap.
- Made in USA.

Part Number	Material	Nominal Well Casing	Maximum Casing OD	Conduit Tap	Master Ctn Qty
PWTC6	Thermoplastic	6" and 6 1/4"	6 5/8"	1"	8
PSC4	Thermoplastic	4"	4 1/2"	1"	12
PSC5	Thermoplastic	5"	5 9/16"	1"	12
PSC614	Thermoplastic	6 1/4" SDR27.6 PVC	6.9"	1"	12

Custom personalization of the caps above is available. Add “P" suffix to part number. Self adhering, engraved brushed aluminum tag. Minimum of 24 of one size.

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Well Caps - Cast Iron



WC Series

HARVARD WC SERIES Cast Iron Watertight Well Cap

Features:

- WC6 fits 6"and 6-1/4" I.D. 6 5/8" OD well casing.
- WC625 fits SDR27.6 6 1/4" ID PVC well casing, with 6.9" OD.
- 1"or 1 1/4" IPS conduit tap and factory installed screen vents.
- Heavy cast iron body. 20% heavier than any other comparable watertight well caps available.
- Wide rubber gasket provides positive watertight seal.
- Blue powder coat paint finish.
- Individually packaged. Includes all hardware.
- **All WC Series well caps are certified and approved watertight to ASSE Standard #1093-2019 and WSC PAS-97 (2019) standards.**



C56V

HARVARD C56V Cast Iron Multi-Size Well Cap

Features :

- Heavy cast iron construction. 30% heavier than any other comparable cap available.
- Quick installation.
- Fits 5-5/8" and 6" well casing, Maximum 6 5/8" OD.
- 1" conduit opening.
- Blue finish for easy site location.
- Individually packaged. Includes bolts.

Part Number	Material	Nominal Well Casing	Maximum Casing OD	Conduit Tap	Master Ctn Qty
WC6	Cast Iron	6" and 6 1/4"	6 5/8"	1"	6
WC6-11/4	Cast Iron	6" and 6 1/4"	6 5/8"	1 1/4"	6
WC625	Cast Iron	6 1/4" SDR27.6 PVC	6.9"	1"	6
C56V	Cast Iron	5-5/8" , 6", 6 1/4"	6 5/8"	1"	6

Custom personalization of the caps above is available. Add "P" suffix to part number. Self adhering, engraved brushed aluminum tag. Minimum of 24 of one size.

Well Caps - Cast Aluminum



AWTC Series



AWTC--T Series



SC Series



C Series

AWTC-Series Watertight Vermin- Proof Cap Features:

- Cast aluminim for strength and weather resistance.
- All stainless bolts and ground screws.
- Molded 3/16" gasket.

SC-Series Watertight Cap Features:

- For use on plastic casing only.
- Injection molded ABS & grade 319 aluminum, can be solvent welded directly to PVC well casing.
- Stainless steel nuts, bolts & screened vents.
- **All SC Series well caps are certified and approved water tight to ASSE Standard #1093-2019 and WSC PAS-97 (2019) standards.**

C-Series Standard Conduit Cap Features:

- For use on steel or plastic casing.
- Stainless steel set screws.

Custom personalization of the caps above is available. Add "P" suffix to part number. Self adhering, engraved brushed aluminum tag. Minimum of 25 of one size.

NO LEAD ✓ LEAD-FREE

Part Number	Nominal Well Casing Size	Casing O.D.	Conduit Conn.	Vent Size	Weight	Ctn Qty
Aluminum Watertight Vermin–Proof Well Cap						
AWTC4	4"	4 1/2"	1"	1"	2.2	25
AWTC45 ☺	4 1/2"	5"	1"	1"	2.7	20
AWTC5	5"	5 9/16"	1"	1"	2.4	20
AWTC55 ☺	5 1/2"	6"	1"	1"	3.1	15
AWTC6	6"	6 5/8"	1 1/4"	1"	2.8	15
AWTC7 ☺	6 1/2"	7"	1 1/4"	1"	3.1	13
AWTC8	8"	8 5/8"	1 1/4"	1"	4.3	1
AWTC10	10"	10 3/4"	2"	1" (2)	9.0	1
AWTC12	12"	12 3/4"	2"	1" (2)	11.0	1
☺ Fits Whitewater pitless units						
Aluminum Watertight Vermin–Proof Well Cap w/ 1-1/4" Top Tap for use w/ pellet chlorinators						
AWTC6T	6"	6 5/8"	1 1/4"	1"	2.8	15
Aluminum/ABS Combination Watertight Well Cap						
SC4	4"	4 1/2"	1 "		1.5	12
SC45	4 1/2"	4.95"	1 "		1.7	15
SC5	5"	5 9/16"	1 "		2.3	10
SC6	6"	6 5/8"	1"		2.5	8
SC614	6 1/4"(SDR27.6)	6.9"	1"		2.5	12
Standard Ventilated Cap with Conduit Opening						
C4	4"	4 1/2"	3/4"		1.6	25
C5	5"	5 9/16"	3/4"		2.0	15
C6	6"	6 5/8"	3/4"		2.3	15
C7	7"	7 5/8"	1"		2.9	15
C8	8"	8 5/8"	1"		3.4	1

WATER SYSTEMS COUNCIL

ASSE Standard #1093-2019 (R2023)
WSC Standard PAS-97 (2019) (R2023)

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ABS Well Seals

NEW



ABSWS Series Features:

- Well seals are molded from high impact ABS for extra strength.
- Exclusive design with 3/4" thick PVC gland enables the sanitary sealing of a wide range of casing sizes.
- Zinc plated steel bolts.

Part Number	Fits Well Casing ID	Well Casing ID Size Range	Drop Pipe Size	Conduit Tap IPS	Vent Tap IPS	Weight	Ctn Qty
Single Hole							
ABSWS4x1	4”	4 - 4 1/4”	1”	3/4”	1/2”	1.5 lbs.	15
ABSWS4x11/4	4”	4 - 4 1/4”	1 1/4”	3/4”	1/2”	1.5 lbs.	15
ABSWS41/2x1	4 1/2”	4 1/4 - 4 1/2”	1”	3/4”	1/2”	1.75 lbs.	12
ABSWS6x1	6”	6 - 6 1/4”	1”	1”	1/2”	3.0 lbs.	10
ABSWS61/4x1	6 1/4”	6 1/4 - 6 1/2”	1”	1”	1/2”	3.25 lbs.	10





PSWS and PJWS Series Features:

- Well seals are molded from high impact ABS for extra strength.
- Exclusive design of **extra thick (1-1/4") PVC gland** enables the sanitary sealing of a wide range of casing sizes.
- Zinc plated steel bolts.

NO LEAD ✓ LEAD-FREE

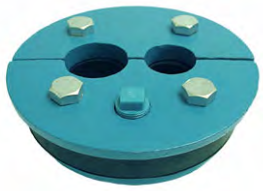
DISCONTINUED ITEM - LIMITED STOCK AVAILABLE

Part Number	Fits Well Casing ID	Well Casing ID Size Range	Drop Pipe Size	Conduit Tap IPS	Vent Tap IPS	Weight	Ctn Qty
Single Hole							
PSWS5x11/2	5"	4 7/8 - 5 1/4"	1 1/2"	3/4"	1/2"	2.0 lbs.	10
PSWS5x2	5"	4 7/8 - 5 1/4"	2	3/4"	1/2"	2.0 lbs.	10
PSWS51/2x11/4	5 1/2"	5 3/8 - 5 7/8"	1 1/4"	3/4"	1/2"	2.25 lbs.	10
PSWS51/2x11/2	5 1/2"	5 3/8 - 5 7/8"	1 1/2"	3/4"	1/2"	2.25 lbs.	10
PSWS61/4xBLANK	6 1/4"	6 1/4 - 6 1/2"	blank	3/4"	1/2"	3.25 lbs.	10
PSWS61/4x2	6 1/4"	6 1/4 - 6 1/2"	2"	3/4"	1/2"	3.25 lbs.	10
Double Hole							
PJWS4x1x11/4	4"	4 - 4 1/4"	1x1 1/4"	n/a	1/2"	1.5 lbs.	10

Cast Iron Well Seals - Import, Submersible & Jet



SWS Series



JWS Series

Cast Iron Well Seal for Submersible & Jet Pumps Features:

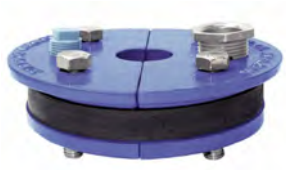
- Highest quality smooth grey-iron castings accurately machined to narrowest tolerances.
- Finest heavy duty 3/4" molded rubber packing gland assures seal regardless of minor imperfections in well casing.
- Corrosion resistant, zinc plated steel bolts, rugged construction provides for maximum torque.
- Long lasting painted finish.
- Complete with electrical conduit kit and plug for SWS and plastic plugs for JWS series.
- Individually cartoned.
- Imported.

NO LEAD LEAD-FREE

Part Number	Well Casing ID	Drop Pipe	Cable Hole Tapping	Vent Tapping	Ctn Qty
Single Drop Pipe, SPLIT TOP, for submersible pumps (* Fits outside of well casing)					
SWS2X1 (SOLID top)	2"	1"	-	1/8"	50
SWS2X11/4 *	2"	1 1/4"	-	1/8"	12
SWS3X1	3"	1"	3/8"	1/8"	16
SWS3X11/4	3"	1 1/4"	(2) 5/16" drilled	1/8"	16
SWS4X1	4"	1"	3/4"	1/2"	12
SWS4X11/4	4"	1 1/4"	3/4"	1/2"	12
SWS4X11/4S	4"	1 1/4" center	3/4"	1/4"	12
SWS4X11/2	4"	1 1/2"	3/4"	1/4"	12
SWS4X2	4"	2"	1/2"	1/4"	12
SWS4X2 SOLID	4"	2"	3/4"	1/2"	12
SWS41/4X1	4 1/4"	1"	3/4"	1/2"	12
SWS5X1	5"	1"	1"	1/2"	6
SWS5X11/4	5"	1 1/4"	1"	1/2"	6
SWS5X2	5"	2"	3/4"	1/2"	6
SWS55/8X1	5 5/8"	1"	3/4"	1/2"	6
SWS6X1	6"	1"	1"	1/2"	6
SWS6X11/4	6"	1 1/4"	1"	1/2"	6
SWS6X11/2	6"	1 1/2"	1"	1/2"	6
SWS6X2	6"	2"	1"	1/2"	6
SWS6X3 SOLID	6"	3"	1"	1/2"	6
SWS6BLANK	6"	-	-	-	6
SWS61/4X1	6 1/4"	1"	1"	1/2"	6
SWS61/4X11/4	6 1/4"	1 1/4"	1"	1/2"	6
Two Hole Drop Pipe, SPLIT TOP, for jet pumps					
JWS3X1X3/4	3"	1" X 3/4"		1/8"	16
JWS4x11/4x1	4"	1 1/4" x 1"		1/2"	12
JWS5X11/4X1	5"	1 1/4" X 1"		1/2"	6
JWS55/8X11/4X1	5 5/8"	1 1/4" X 1"		1/2"	6
JWS6x11/4x1	6"	1 1/4" x 1"		1/2"	6
JWS61/4x11/4x1	6 1/4"	1 1/4" x 1"		1/2"	6

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Cast Iron Well Seals - Submersible



SCH Series

Cast Iron Well Seal for Submersible Pump Features:

- Highest quality smooth grey-iron castings accurately machined to narrowest tolerances.
- Finest heavy duty 3/4" molded rubber packing gland assures seal regardless of minor imperfections in well casing.
- Corrosion resistant, zinc plated steel bolts, rugged construction provides for maximum torque.
- Long lasting painted finish.
- Individually cartoned.

Simmons

NO LEAD LEAD-FREE

Part Number	Simmons Part No.	Well Casing ID	Drop Pipe	Cable Hole Tapping	Vent Tapping	Ctn Qty
Single Drop Pipe, Split Top, for submersible pump (* Fits outside of well casing)						
2x3/4SCH	106	2"	3/4"	––	––	1
2x1SCH	107	2"	1"	1/8"	1/8"	1
2x11/4SCH *	045	2"	1 1/4"	1/8"	1/8"	1
3x1SCH	108	3"	1"	3/8"	1/8"	6
3x11/4SCH	109	3"	1 1/4"	5/16" (2) drilled	1/8"	6
4BLANK (SOLID)		4"	––	––	––	6
4x1SCH	111	4"	1"	3/4"	1/2"	6
4x11/4SCH	112	4"	1 1/4"	3/4"	1/2"	6
4x11/2SCH	113	4"	1 1/2"	3/4"	1/2"	6
4x2SCH	114	4"	2"	1/2"	1/2"	6
41/4x1SCH	116	4 1/4"	1"	3/4"	1/2"	6
41/4x11/4SCH	117	4 1/4"	1 1/4"	3/4"	1/2"	6
41/2X1SCH	165	4 1/2"	1"	3/4"	1/2"	6
41/2x11/4SCH	166	4 1/2"	1 1/4"	3/4"	1/2"	6
5x1SCH	121	5"	1"	1"	1/2"	6
5x11/4SCH	122	5"	1 1/4"	1"	1/2"	6
5x11/2SCH	123	5"	1 1/2"	1"	1/2"	6
5x2SCH	124	5"	2"	3/4"	1/2"	6
55/8x1SCH	131	5 5/8"	1"	3/4"	1/2"	6
55/8x11/4SCH	132	5 5/8"	1 1/4"	3/4"	1/2"	6
55/8x11/2SCH	133	5 5/8"	1 1/2"	3/4"	1/2"	6
55/8x2SCH	134	5 5/8"	2"	3/4"	1/2"	6
6BLANK (SOLID)	313B	6"	––	––	--	6
6x1SCH	136	6"	1"	1"	1/2"	6
6x11/4SCH	137	6"	1 1/4"	1"	1/2"	6
6x11/2SCH	138	6"	1 1/2"	1"	1/2"	6
6x2SCH	139	6"	2"	1"	1/2"	6

Cast Iron Well Seals - Submersible



400 Series

Part Number	Simmons Part No.	Well Casing ID	Drop Pipe	Cable Hole Tapping	Vent Tapping	Ctn Qty
Single Drop Pipe, Split Top, for submersible pumps, continued						
61/4x1SCH	141	6 1/4"	1"	1"	1/2"	6
61/4x11/4SCH	142	6 1/4"	1 1/4"	1"	1/2"	6
61/4x11/2SCH	143	6 1/4"	1 1/2"	1"	1/2"	6
61/4x2SCH	144	6 1/4"	2"	1"	1/2"	6
8x1SCH	196	8"	1"	1"	1/2"	1
8x11/4SCH	197	8"	1 1/4"	1"	1/2"	1
8x11/2SCH	198	8"	1 1/2"	1"	1/2"	1
8x2SCH	199	8"	2"	1"	1/2"	1
8x3SCH	041	8"	3"	1"	1/2"	1
8x4SCH	042	8"	4"	1"	1/2"	1

6 5/8", 10" and 12" well seals are available in steel only by special order.

Single drop pipe, SOLID TOP PLATE, for submersible pump						
440B	301	4"	1"	3/4"	1/2"	6
440C	049	4"	1-1/4"	3/4"	1/2"	6
450B	323	5"	1"	3/4"	1/2"	6
460B	313	6"	1"	1"	1/2"	6
460C	314	6"	1-1/4"	1"	1/2"	6
460D	315	6"	1-1/2"	1"	1/2"	6
460E	316	6"	2"	1"	1/2"	6
6x3SCH	021	6"	3" offset	1"	1/2"	6
460X	313A	6"	Blank	1"	1/2"	6
462B	318	6-1/4"	1"	1"	1/2"	6
462C	319	6-1/4"	1-1/4"	1"	1/2"	6
462D	320	6-1/4"	1-1/2"	1"	1/2"	6
462E	321	6-1/4"	2"	1"	1/2"	6

• Additional drop pipe sizes and well casing ID's of well seals are available by special order. Allow 3 weeks for delivery.

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Cast Iron Well Seals - Jet



DH Series

Cast Iron Well Seal for Jet Pump Features:

- Highest quality smooth grey-iron castings accurately machined to narrowest tolerances.
- Finest heavy duty 3/4" molded rubber packing gland assures seal regardless of minor imperfections in well casing.
- Corrosion resistant, zinc plated steel bolts, rugged construction provides for maximum torque.
- Long lasting painted finish.
- Individually cartoned.

Simmons

NO LEAD LEAD-FREE

Part Number	Simmons Part No.	Well Casing ID	Drop Pipe	Vent Tapping	Ctn Qty
Two Hole Drop Pipe, SPLIT TOP, for jet pumps					
4x11/4x1DH	152	4"	1 1/4 x 1"	1/2"	6
4x11/4x11/4DH	153	4"	1 1/4 x 1 1/4"	1/2"	6
41/4x11/4x1DH	156	4 1/4"	1 1/4 x 1"	1/2"	6
5X11/4x1DH	161	5"	1 1/4 x 1"	1/2"	6
55/8x11/4x1DH	171	5 5/8"	1 1/4 x 1"	1/2"	6
55/8x11/4x11/4DH	172	5 5/8"	1 1/4 x 1 1/4"	1/2"	6
6x11/4x1DH	177	6"	1 1/4 x 1"	1/2"	6
6x11/4x11/4DH	178	6"	1 1/4 x 1 1/4"	1/2"	6
61/4x11/4x1DH	183	6 1/4"	1 1/4 x 1"	1/2"	6

• Additional drop pipe sizes for jet well seals are available by special order. Allow 3 weeks for delivery.

Well Seals & Accessories



Vent Pipe



Vent Seal

NO LEAD LEAD-FREE

Vent Pipe Features:

- Fabricated from 1/2" heavy duty zinc plated steel pipe.
- Includes stainless steel bug screen.
- Use for ventilating wells directly to atmosphere.

Vent Seal Features:

- Fabricated from rugged ABS for sanitary protection.
- 1/2" OD x 4-1/2" long, and is easily installed.

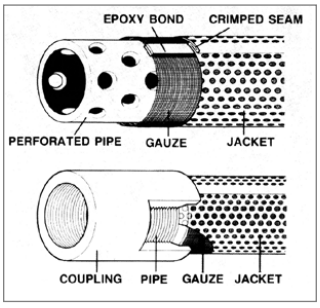
Part Number	Description	Ctn Qty
Vent Pipe		
VP50	1/2" Zinc Plated Steel	30
Vent Seal		
VS50	1/2" Plastic	50

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Drive Well Points



Drive Well Point



Drive Well Point Features:

- Heavy duty ductile iron point to drive into all types of soil.
- Stainless steel jacket and gauze.
- Crimped seam eliminates peeling.
- Epoxy bonding at critical points.
- Locked at both ends.
- Lead free seam.
- Pipe coupling provided.
- Threaded, octaganol shoulder prevents turning while driving.
- Forms large enough hole to allow clearance for pipe couplings.
- **Third party certified to NSF/ANSI 372.**

Part Number	Gauze	Pipe Length	Pipe Size	Ctn Qty
Drive Points				
SBD2460	60	24	1-1/4"	3
SBD3060	60	30	1-1/4"	3
SBD3660	60	36	1-1/4	3
SBD4260	60	42	1-1/4"	3
SBD4860	60	48	1-1/4"	3
SBD6060	60	60	1-1/4"	3
SBD2480	80	24	1-1/4"	3
SBD3080	80	30	1-1/4"	3
SBD3680	80	36	1-1/4"	3
SBD4280	80	42	1-1/4"	3
SBD4880	80	48	1-1/4"	3
SBD30100	100	30	1-1/4"	3
SBD36100	100	36	1-1/4"	3
SBD48100	100	48	1-1/4"	3
SCD&F3660	60	36	1-1/2"	3
SCD&F4860	60	48	1-1/2"	3
SCD&F6060	60	60	1-1/2"	3
SCD&F3680	80	36	1-1/2"	3
SCD&F4880	80	48	1-1/2"	3
SDD&F3060	60	30	2"	3
SDD&F3660	60	36	2"	3
SDD&F4860	60	48	2"	3
SDD&F6060	60	60	2"	3
SDD&F3080	80	30	2"	3
SDD&F3680	80	36	2"	3
SDD&F4880	80	48	2"	3
SDD&F6080	80	60	2"	3

Drive Well Points



Flush Well Point | Combination Well Point

Flush Well Point Features:

- Same as drive well points plus:
- Designed to pass through well casing &drive shoe into water bearing sand & gravel.
- Pipe coupling is designed to catch in a closed-pattern drive shoe.
- Beveled edges on point forms a positive grip on jacket, similar to single piece construction.
- Stainless steel jacket & gauze

Combination Well Point Features:

- Can be used as a regular well point or as an open end screen.
- Stainless steel jacket & gauze

Part Number	Gauze	Pipe Length	Pipe Size	Ctn Qty
Flush Well Points				
SBF3660	60	36	1-1/4"	3
SBF4860	60	48	1-1/4"	3
SBF4280	80	42	1-1/4"	3
SBF48100	100	48	1 1/4"	3
Combination Well Points				
SBC2460	60	24	1-1/4"	3



Drive & Flush Well Point Head

Part Number	Type	Pipe Size	Ctn Qty
Well Point Heads			
A1120041	Drive	1-1/4"	1
A1120005	Drive	1-1/2"	1
A1120006	Drive	2"	1
A1120007	Flush	1-1/4"	1

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Drive Well Points



I-Series

Imperial Series Features:

- Designed to be driven into all types of soil.
- Imperial series are wrapped outside with a stainless steel screen
- Stainless steel jacket over gauze construction is permanently fixed to perforated steel pipe.
- Design allows the passage of all the sand free water the pipe can carry.
- Cast iron drive point head can be removed for easy field extension by coupling together with the second well point for added capacity.

Part No.	Simmons	Pipe Size	Length	Gauze	Ctn Qty
Imperial with Outer Stainless Steel Gauze					
I90-60	1720-1	1 1/4	24"	60	1
I94-60	1721-1	1 1/4	30"	60	1
I98-60	1722-1	1 1/4	36"	60	1
I100-60	1723-1	1 1/4	42"	60	1
I102-60	1724-1	1 1/4	48"	60	1
I168-60	1752-1	2	36"	60	1
I172-60	1753-1	2	48"	60	1
I176-60	1754-1	2	60"	60	1
I90-80	1726-1	1 1/4	24"	80	1
I94-80	1727-1	1 1/4	30"	80	1
I98-80	1728-1	1 1/4	36"	80	1
I102-80	1730-1	1 1/4	48"	80	1
I144-80	1747-1	1 1/2	36"	80	1

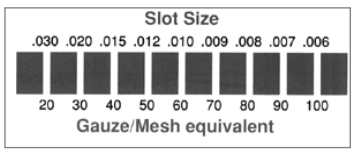


S-Series

Standard Series Features:

- For use in rocky or sandy soil.
- Standard series are wrapped inside with a stainless steel screen.
- Unique corrosion resistant construction features protect stainless steel gauze held in place between galvanized pipe and a stainless steel liner.
- Self flushing chamfered holes in galvanized pipe eliminate clay or sand build-up, giving maximum water yield with minimum development time.

Part No.	Simmons	Pipe Size	Length	Gauze	Ctn Qty
Standard Series with Inner Stainless Steel Gauze					
S94-60	1721	1 1/4	30"	60	1
S98-60	1722	1 1/4	36"	60	1
S102-60	1724	1 1/4	48"	60	1
S168-60	1752	2	36"	60	1
S172-60	1753	2	48"	60	1
S176-60	1754	2	60"	60	1
S94-80	1727	1 1/4	30"	80	1
S98-80	1728	1 1/4	36"	80	1



Drive Well Point Supplies

"Sand Shark", Backwash Valves Features:

- Used in soft soil to jet open-end screen to desired depth.
- Thickwalled, cast iron construction with saw teeth to rip through roots, debris.
- Solid ABS ball check keeps sand from entering well when jetting operations are complete.
- Not spring loaded.



80002C Sand Shark Valve



8660B Backwash Valve

Part Number	Valve Size	Pressure Pipe Tap	Ctn Qty
80002C	2" NPT Male	1" NPS Left Hand Female	Bulk

Part Number	Pipe Size	Description	Ctn Qty
8660B	2"	No. 19B S/Steel Ball	12

Turned Coupling Features:



434 Series

- Used for suspending flush well points or strainers from drive shoes or tubular cylinders.
- Galvanized with standard pipe thread.
- Furnished with right hand pipe threads.
- Thin wall 434J.
- **Third party certified to NSF/ANSI 372.**

LOW-LEAD IAPMO R&T

NO LEAD <0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Part Number	Rt. Hand Thread Pipe Size	Well Size	Strainer Size	Coupling O.D.	Coupling Length	Ctn Qty
Turned Couplings						
434J11/4X11/4	1-1/4 x 1-1/4"	2	1"	1 13/16"	2-1/4"	48
434-11/4X11/4	1 1/4 X 1 1/4"	2	1 1/4	1 15/16"	2 1/4	48

Galvanized Drive Coupling Features:



DC

- Heavy pattern with deep recess for shouldering on imperfect threads of well points.
- Assures proper driving of well points and standard pipe.
- Taper tapped, reamed and drifted.
- **Third party certified to NSF/ANSI 372.**

LOW-LEAD IAPMO R&T

NO LEAD <0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Drive Cap Features:



C125

- Heavy duty forged steel.
- Standard pipe threads.
- Vented on top.

Part Number	Description	Pipe Size	Length (in.)	Ctn Qty
Galvanized Drive Couplings				
DC125C	1-1/4"	1-1/4"	2.75	40
DC150	1-1/2"	1-1/2"	2.75	40
DC200	2"	2"	2.90	30
DC200L	2" Long Pattern	2"	3.40	30
Drive Caps				
C125	Heavy Duty Forged Steel	1-1/4"		32
C200	Heavy Duty Forged Steel	2"		16

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Drive Shoes



Drive Shoe Features:

- Alloy grade seamless stock.
- Special process to strengthen the material before heat treating.
- All drive shoes are heat treated.
- All drive tips are flame hardened for superior driving strength.
- All drive shoes are tested for dimensional accuracy and tip hardness.
- Chemically bonded technology to provide superior corrosion resistance.
- Cable and Rotary style.
- Weld-on and threaded.
- **Third party certified NO LEAD to NSF/ANSI 372.**



7000 Series



7055 Series



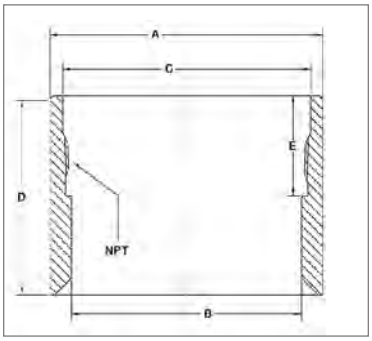
7005 Series



7007 Series

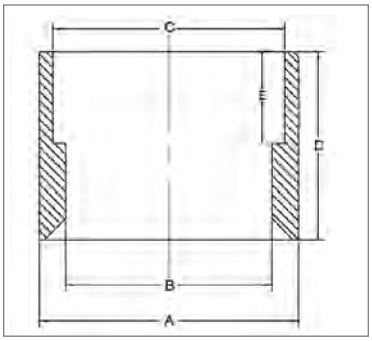
Part Number	Nominal Casing Size "	ID x Bore "	Description	Ctn Qty
Threaded Cable Tool Style				
7000A	2	2 x 2	Open Pattern	25
7000D	2	2 x 2	Closed Pattern, extd threads (P&R)	25
7000E	3	3 x 3	Open Pattern	12
7000GL	4	4 1/2 x 4	Open Pattern	8
7000J	5	5 1/2 x 5	Open Pattern	5
7000K	6	6 5/8 x 6	Open Pattern (6.125" Bore)	4
7000N	6	6 5/8 x 6	**Short** Pattern (6.125" Bore)	4
7000KLD	6	6 5/8 x 6 1/4	Open Pattern Large ID (6.25" Bore)	4
7059X	8	8 5/8 x 8	Open Pattern	1
Weld-On Cable Tool Style				
7055E	3	3 x 3	Open Pattern	12
7055GL	4	4 1/2 x 4	Open Pattern	8
7055J	5	5 1/2 x 5 3/16	Open Pattern	5
7055K	6	6 5/8 x 6	Open Pattern (6.125" Bore)	4
7055R	6	6 5/8 x 6	**Short** Pattern (6.125" Bore)	4
7055KLD	6	6 5/8 x 6 1/4	Open Pattern Large ID (6.25" Bore)	4
7055M	8	8 5/8 x 8	Open Pattern	1
7055N	10	10 3/4 x 10	Open Pattern	1
Threaded Rotary Style				
7005A	4	4 1/2 x 4	Open Pattern	8
7005B	5	5 1/2 x 5 3/16	Open Pattern	4
7005C	6	6 5/8 x 6	Open Pattern (6.125" Bore)	4
7005H	6	6 5/8 x 6	**Short** Pattern (6.125" Bore)	4
7005CLD	6	6 5/8 x 6 1/4	Open Pattern Large ID (6.25" Bore)	4
7005CLDS	6	6 5/8 x 6 1/4	**Short** Pattern Large ID (6.25" Bore)	4
Weld-on Rotary Style				
7007A	4	4 1/2 x 4	Open Pattern	8
7007C	6	6 5/8 x 6	Open Pattern (6.125" Bore)	4
7007CLD	6	6 5/8 x 6 1/4	Open Pattern Large ID (6.25" Bore)	4
7007M	8	8 5/8 x 8	Open Pattern	1

Drive Shoes



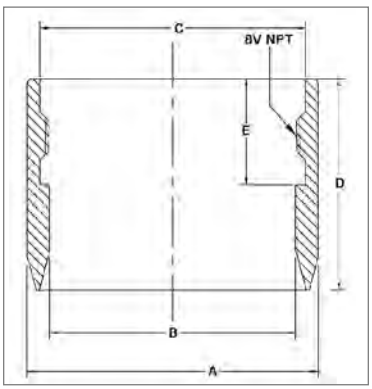
Threaded Cable Tool Style

PART NO.	Nominal Pipe Size	Thread	A	B	C	D	E	Wellmaster Cross Ref
7000A	2"	11 1/2V	2.875	2.125	2.452	2.875	1.863	M5000200TUFF
7000E	3"	8V	4.00	3.10	3.54	3.50	1.75	M5001500TUFF
7000GL	4"	8V	5.00	4.125	4.578	4.00	2.43	M5001800TUFF
7000J	5"	8V	6.00	5.125	5.59	4.50	2.62	M5005500TUFF
7000K	6"	8V	7.39	6.125	6.719	5.40	2.70	M5009590TUFF
7000N	6"	8V	7.39	6.125	6.719	4.00	2.70	M5009655TUFF
7000KLD	6"	8V	7.39	6.25	6.719	5.40	2.70	M5010450TUFF
7059X	8"	8V	9.625	8.125	8.73	7.50	3.60	M5013800TUFF



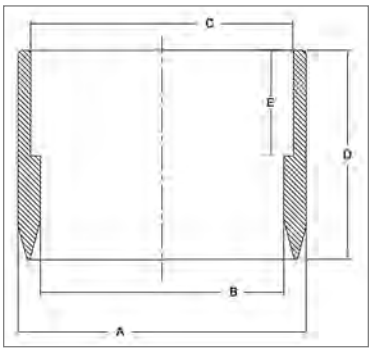
Weld On Cable Tool Style

PART NO.	Nominal Pipe Size	A	B	C	D	E	Wellmaster Cross Ref
7055E	3"	4.00	3.10	3.54	3.50	1.75	M5001501TUFF
7055GL	4"	5.00	4.125	4.575	4.00	2.00	M5001600TUFF
7055J	5"	6.00	5.125	5.616	4.50	2.25	M5007200TUFF
7055K	6"	7.39	6.125	6.69	5.40	2.70	M5009220TUFF
7055R	6"	7.39	6.125	6.69	4.00	2.00	M5009195TUFF
7055KLD	6"	7.39	6.25	6.69	5.40	2.70	M5010200TUFF
7055M	8"	9.63	8.125	8.70	7.50	3.60	M5013500TUFF
7055N	10"	11.75	10.25	10.875	8.00	4.00	M5015500TUFF



Threaded Rotary Style

PART NO.	Nominal Pipe Size	Thread	A	B	C	D	E	Wellmaster Cross Ref
7005A	4"	8V	5.00	4.125	4.78	4.00	2.43	M5002500TUFF
7005B	5"	8V	6.00	5.125	5.616	4.50	2.25	M5007900TUFF
7005C	6"	8V	7.39	6.125	6.719	5.40	2.70	M5009990TUFF
7005H	6"	8V	7.39	6.125	6.719	4.00	2.70	M5009960TUFF
7005CLD	6"	8V	7.39	6.25	6.719	5.40	2.70	M5010900TUFF
7005CLDS	6"	8V	7.39	6.25	6.719	4.00	2.70	M5011660TUFF



Weld-On Rotary Style

PART NO.	Nominal Pipe Size	A	B	C	D	E	Wellmaster Cross Ref
7007A	4"	5.00	4.125	4.575	4.00	2.00	M5002310TUFF
7007C	6"	7.39	6.125	6.69	5.40	2.70	M5009700TUFF
7007CLD	6"	7.39	6.25	6.69	5.40	2.70	M5010700TUFF
7007M	8"	9.625	8.125	8.70	7.50	3.60	M5013550TUFF

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Press Fit Couplings & Drive Shoes



PXPC Series



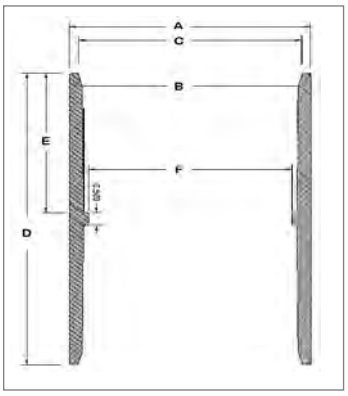
PXDS Series

NEW

NO LEAD LEAD-FREE

Press Fit Coupling and Press Fit Drive Shoe Features:

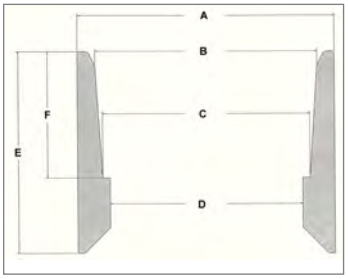
- Use with cable tool rigs.
- Strong friction taper connection.
- No threading or welding required.
- Drop on steel well casing end and start driving.
- Use with plain end casing.
- No weld, no thread drive shoe version improves efficiency.
- Chemically bonded technology to provide superior corrosion resistance.
- Lead free.
- Meets Standard of Compliance: ASTM A53/A53M-22.



Press Fit Couplings

Part No	Nominal Pipe Size	A	B	C	D	E	F
PXPC4.5	41/2"	5.0	4.432	4.514	11.5	5.5	4.145
PXPC5	5"	6.0	5.505	5.585	11.5	5.5	5.221
PXPC6	6 5/8"	7.39	6.571	6.655	11.5	5.5	6.29

Part Number	Nom. Casing Size	Casing OD	Weight	Ctn Qty
PXPC4.5	4 1/2"	5"	13 lbs	1
PXPC5	5"	6"	16 lbs	1
PXPC6	6 5/8"	7.39"	27 lbs	1



Press Fit Drive Shoes

Part No.	Nominal Pipe Size	A	B	C	D	E	F
PXDS4.5	41/2"	5.0	4.524	4.446	4.125	7.125	5.125
PXDS5	5"	6.0	5.585	5.508	5.125	7.125	5.125
PXDS6	6 5/8"	7.4	6.65	6.573	6.125	7.125	5.125

Part Number	Nom. Casing Size	Casing OD	Weight	Ctn Qty
PXDS4.5	4 1/2"	5"	9 lbs	1
PXDS5	5"	6"	10 lbs	1
PXDS6	6 5/8"	7.4"	19 lbs	1



Well Casing Driver Features:

- Reusable driver protects well casing ends when driving casing.
- Slides on with no tools.
- 5.25" OD x 6.625" length

Part Number	Nominal Casing Size	Dimensions	Weight	Ctn Qty
WCD4	4	5.25" OD x 6.625"	12 lbs	1

Pitcher Pump



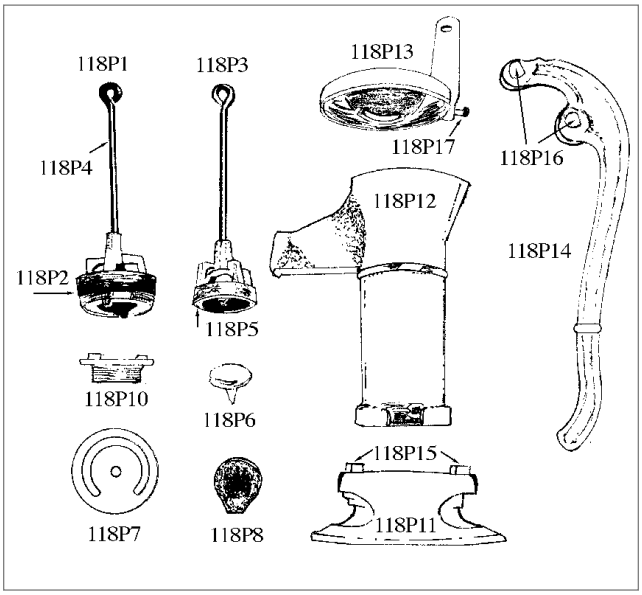
HPP10

HARVARD® Pitcher Pump Features:

- Recommended for shallow pump applications – depth rating up to 20'.
- Easily installed.
- Made of heavy cast iron.
- Dark green hard enamel rugged powder coated paint finish.
- Open spout.
- 15-3/4" high.
- Tapped for 1-1/4" drop pipe.
- 15 lbs.
- Pumps are individually packaged 4 per master carton.
- Parts are carton qty 1.
- **Third party certified NO LEAD to NSF/ANSI 372.**

Part Number	Description	Master Ctn Qty
HPP10	Pitcher Pump, Cast Iron, Size #2	4

PITCHER PUMP REPLACEMENT PARTS



Part Number	Description
118P1	Complete Plunger Assembly includes *
118P2 *	Cup Leather for Plunger only
118P3	Plunger Rod and Cage (no cup leather)
118P4 *	Plunger Rod
118P5 *	Plunger Cage
118P6 *	Plunger Weight
118P7	Flat Leather for Base Valve
118P8	Weight and Screw for Flat Valve
118P9	Flat Valve Leather and Weight
118P10 *	Threaded Nut for Plunger Cage
118P11	Pump Base with Bolts (118P15)
118P12	Pump Cylinder
118P13	Pump Top with Set Screw (118P17)
118P14	Pump Handle with Two Bolts (118P16)
118P15	3/8 x1-1/4 Bolts for Pump Base (set of 2)
118P16	3/8 x 2 bolts for Pump Handle
118P17	Set Screw for Pump Top

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Cylinders - All NO LEAD Brass



449 B

449B ALL BRASS Features:

- Corrosion resistant, all brass construction.
- Brass tubing offers a smooth working surface and extends the life of the leathers.
- Open top cylinder, threaded valves screw together for one-step removal.
- No need to pull cylinder to replace inner components.
- Reliable **BALL** plunger.
- Contains 707/45 series graphite leathers.
- **Third party certified NO LEAD to NSF/ANSI 372.**

449B All Brass

Part Number	Inside Diameter X Stroke (inches)	Barrel Length (inches)	Caps Tapped Pipe Size Top/Bottom (inches)	Size Rod in Plunger (inches)	Smallest Well Cylinder will enter (inches)	Capacity Per Stroke US Gallons	Cup Leather Sizing O.D. (inches)	Cup Leather Sizing Hole (inches)
7037HNL	1-7/8 x 14	24	2 x 1-1/4	5/8	3	.1680	1-7/8	1-5/16
7037RNL	1 7/8 X 20	30	2 X 1 1/4	5/8	3	.2400	1 7/8	1 5/16



Replacement Parts

449B Replacement Parts

1-7/8" Part Number	Description
8599ANL	Plunger assembly w/ leathers 449B
8533CNL	Check assembly w/ leathers 449B
707-221	Leather for Plunger (707/45) Qty 3 17/8"x1 5/16"
702-216	Leather for Check (702/41) Qty 1 17/8"x1 5/16"

Cylinders - All NO LEAD Brass



442

442 ALL BRASS Features:

- All brass plunger, plain poppet and two leathers.
- Closed flush cap, recommended for all types of working heads and small diameter, shallow wells.
- Perma-Kleen®, Buna N rubber check poppet facing for smooth, quiet operation and tight seal.
- Clearance of two inches is provided between plunger and check.
- Contains 711/44 Series waterproof leathers.
- "NL" designates NO LEAD.
- **Third party certified NO LEAD to NSF/ANSI 372.**

442 All Brass Part Number	Inside Diameter x Stroke (inches)	Barrel Length (inches)	Caps Tapped Pipe Size Top/Bottom (inches)	Size Rod in Plunger (inches)	Well Cylinder will enter (inches)	Smallest Capacity Per Stroke US Gallons	Cup Leather Sizing O.D. (inches)	Hole (inches)
7027BNL	1-11/16 x 10	18	1 x 1	7/16	2	.0960	1-11/16	1-3/16
7027MNL	1 11/16 X 12	20	1 X 1	7/16	2	.1152	1 11/16	1 3/16
7027CNL	1-13/16 x 8	16	1 x 1	7/16	2	.0896	1-13/16	1-3/16
7027DNL	1-13/16 x 10	18	1 x 1	7/16	2	.1120	1-13/16	1-3/16
7027D3NL	1-13/16 x 12	20	1 x 1	7/16	2	.1344	1-13/16	1-3/16
7027ENL	2 x 8	16	1 1/4 x 1 1/4	7/16	2-1/2	.1088	2	1-5/16
7027FNL	2 x 10	18	1 1/4 x 1 1/4	7/16	2-1/2	.1360	2	1-5/16
7027F1NL	2 X 12	20	1 1/4 X 1 1/4	7/16	2 1/2	.1632	2	1 5/16
7027JNL	2-1/4 x 10	18	1 1/4 x 1 1/4	7/16	3	.1721	2-1/4	1-3/8
7027P2NL	2-1/4 x 12	20	1 1/4 x 1 1/4	7/16	3	.2071	2-1/4	1-3/8
7027S3NL	2 1/2 X 8	18	1 1/4 X 1 1/4	7/16	3	.1700	2 1/2	1 5/8
7027LNL	2-1/2 x 10	20	1 1/4 x 1 1/4	7/16	3	.2125	2-1/2	1-5/8
7027FA3NL	3 x 10	20	1 1/4 x 1 1/4	7/16	3-1/2	.3060	3	2-1/8
7027UNL	3 x 10	20	2 x 11/4	7/16	3-1/2	.3060	3	2-1/8

442 Replacement Parts Description	1-11/16" Part Number	1-13/16" Part Number	2" Part Number	2-1/4" Part Number	2-1/2" Part Number	3" Part Number
Plunger Assembly w/ leather	8522ANL		8522CNL	8522DNL	8522FNL	8522JNL
Leather for Plunger (711/44)	711-151	711-198	711-264	711-333	711-358	711-638
2 each required	1-11/16x1-3/16	1-13/16x1-3/16	2x1-5/16	2-1/4x1-3/8	2-1/2x1-5/8	3x2-1/8



Product Number	Description
8522ANL	Plunger Assembly w/ leathers 442 1 11/16" NO LEAD
8522CNL	Plunger Assembly w/ leathers 442 2" NO LEAD
8522DNL	Plunger Assembly w/ leathers 442 2 1/4" NO LEAD
8522FNL	Plunger Assembly w/ leathers 442 2 1/2" NO LEAD
8522JNL	PLUNGER ASSY W/LEATHERS 442 3

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Cylinders - All NO LEAD Brass Eureka



450

450 ALL BRASS NO LEAD EUREKA Features:

- Open top cylinder made for tubular wells and applications where the originally installed cylinder can't be removed.
- All brass valves with Perma-Kleen rubber poppet facings for smooth quiet operation and better seating.
- Threaded valves screw together for easy one-step removal.
- Spring dog holds unit in place until rubber packer is expanded by rotating drill rods.
- Packer creates a seal and anchors cylinder in place.
- Clearance of 2" is provided for operation between plunger and checks.
- **Third party certified NO LEAD to NSF/ANSI 372.**

450 All Brass Eureka Cylinders

Part Number	Size of of Well (inches)	Inside Diameter of Cylinder (inches)	Stroke (inches)	Plunger tapped for pipe (inches)	Cup Leather Hole Size for Check & Plunger (inches)	Capacity per Stroke, US Gallons
7039XNL	2	1-13/16	14	3/8	1-3/16	.1570



Replacement Parts

450 Replacement Parts

Part Number	Description
8034D	Cylinder Packer Rubber 450/7039
8041A	Seating Tool for 450 Cylinders
8514BNL	Plunger Assembly 450/7039 1 13/16
8515APNL	Check Assembly 450/7039 2" NO LEAD



Seating Tool

451 SEATING TOOL Features:

- Attaches to drill rod string to run and seat the 450 cylinder securely in place.

Part Number	Description	Ctn Qty
8041A	2" seating tool	1

Rod Couplings / Operating Data



720

720 Series Rod Coupling Features:

- Hexagon shaped, galvanized couplings.
- Made from solid bars of cold-rolled steel.
- Use to connect steel pump rods.

NO LEAD ✓ LEAD-FREE

Part Number	Size	Size of Hexagon	Overall Length	Ctn Qty
8075B1	3/8"x3/8"	5/8"	1-3/4"	25
8075C1	7/16"x3/8"	5/8"	1-3/4"	25
8075D1	7/16"x7/16"	5/8"	1-3/4"	25
8075E1	1/2"x3/8"	11/16"	1-3/4"	25
8075F1	1/2"x7/16"	11/16"	1-3/4"	25
8075G1	1/2"x1/2"	11/16"	1-3/4"	25
8075J1	5/8"x7/16"	13/16"	2-1/8"	BULK
8075K1	5/8" x 1/2"	13/16"	2 1/8"	BULK
8075L1	5/8"x5/8"	13/16"	2-1/8"	BULK

CYLINDER OPERATING DATA

CLAYTON MARK SINCE 1888

Table showing amount of water discharged per stroke by single acting cylinder. The diameter of cylinder and length of stroke being known.

Dia. of pump cylinder in inches	Length of stroke in inches with capacity per stroke in gallons												Area of circle cylinder sq in
	1	2	3	4	5	6	7	8	10	12	18	24	
1 3/8	.0064	.0128	.0192	.0256	.0320	.0384	.0448	.0512	.0640	.0768	.1152	.1536	1.4849
1 1/2	.0076	.0153	.0229	.0306	.0382	.0459	.0535	.0612	.0765	.0918	.1375	.1832	1.7671
1 5/8	.0090	.0180	.0270	.0360	.0450	.0540	.0630	.0720	.0900	.1080	.1620	.2140	2.0739
1 3/4	.0104	.0208	.0312	.0416	.0512	.0625	.0729	.0833	.1041	.1249	.1872	.2497	2.4053
1 13/16	.0112	.0224	.0336	.0448	.0560	.0672	.0784	.0896	.1120	.1344	.2016	.2688	2.5802
1 7/8	.0120	.0240	.0360	.0480	.0600	.0720	.0840	.0960	.1200	.1440	.2160	.2280	2.7612
1 31/32	.0132	.0263	.0395	.0527	.0659	.0790	.0922	.1054	.1317	.1580	.2371	.3161	3.0440
2	.0136	.0272	.0408	.0544	.0680	.0816	.0952	.1088	.1360	.1632	.2448	.3264	3.1416
2 3/16	.0163	.0325	.0488	.0650	.0812	.0976	.1137	.1300	.1625	.1952	.2928	.3904	3.7584
2 1/4	.0172	.0344	.0516	.0688	.0860	.1033	.1205	.1377	.1721	.2071	.3104	.4137	3.9760
2 1/2	.0212	.0425	.0637	.0850	.1062	.1275	.1487	.1700	.2125	.2550	.3825	.5100	4.9070
2 3/4	.0257	.0514	.0771	.1028	.1285	.1543	.1800	.2057	.2571	.3085	.4628	.6171	5.9395
3	.0306	.0612	.0918	.1224	.1530	.1836	.2142	.2448	.3060	.3672	.5508	.7344	7.0686

To obtain the capacity of a pump with a diameter of cylinder given in the table, but with a longer stroke than 24 inches (the longest stroke given in teh table), add or multiply the capacity to represent the required length of stroke.

For instance: The capacity of a cylinder with a 30 inche stroke would be the same as that (having the same diameter) of an 18 inch stroke cylinder, added to the capacity of a 12 inch stroke cylinder. The same result may be obtained by multiplying the capacity of a cylinder with a 10 instroke by 3.

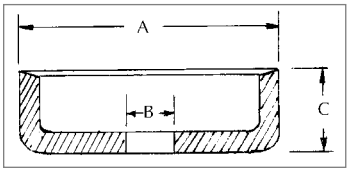
To obtain the amount of water discharged per minute, multiply the capacity per stoke by the number of strokes per minute. To obtain the amount of water discharged per hour, multiply this figure by 60.

Capacities are given in American Gallons. To find English gallons, deduct 1/6; to find liters, multiply by 3.75.

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Cup Leathers





702/41 Universal Features:

- Untreated economy leathers.
- Flesh side out.
- Used for open type hand pumps (pitcher pumps), jet packers and on any application calling for a stationary seal.
- Made in USA.

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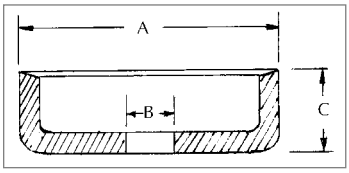
NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty
702/41 Universal						
702-022	L101000006	702/41	1"	3/8"	7/16"	12
702-048	L101020006	702/41	1-1/8"	3/8"	1/2"	12
702-061	L101040006	702/41	1-1/4"	3/8"	1/2"	12
702-063	L101040008	702/41	1-1/4"	1/2"	1/2"	12
702-095	L101060010	702/41	1 3/8"	5/8"		12
702-169	L101120010	702/41	1-3/4"	5/8"	11/16"	12
702-198	L101130103	702/41	1-13/16"	1-3/16"	3/4"	12
702-216	L101140105 *	702/41	1-7/8"	1-5/16"	3/4"	12
702-220	L101140104 **	702/41	1-7/8"	1-1/4"	3/4"	12
702-263	L102000104	702/41	2"	1-1/4"	3/4"	12
702-264	L102000105	702/41	2"	1-5/16"	3/4"	12
702-333	L102040106	702/41	2-1/4"	1-3/8"	3/4"	12
702-334	L102040108 *	702/41	2 1/4"	1 1/2"	3/4"	12
702-358	L102080110	702/41	2-1/2"	1-5/8"	13/16"	12
702-384	L102120114 *	702/41	2-3/4"	1-7/8"	13/16"	12
702-410	L103000200	702/41	3"	2"	13/16"	12
702-464	L103080208	702/41	3-1/2"	2-1/2"	1"	12
702-521	L104000300	702/41	4"	3"	1-1/16"	6
702-636	L106000408	702/41	6"	4 1/2"		6

* Standard Clayton Mark hole size
** Standard Midland hole size

Cup Leathers

CLAYTON MARK





704/46 Oil Fill Features:

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

- Oak tanned leather and oil treated.
- Oil treatment waterproofs and retards swelling of leather inside cylinders.
- Reduces rod breakage or overloading motors.
- Oil treatment preserves leather insuring longer life.
- Flesh side out.
- Used in cylinders and piston pumps.
- Made in USA.

ORDER IN TUBE QUANTITY ONLY

NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty
704/46 Oil Fill						
704-010	L600140002	704/46	7/8"	1/8"		12
704-048	L601020006	704/46	1-1/8"	3/8"	1/2"	12
704-092	L601060006	704/46	1-3/8"	3/8"	5/8"	12
704-105	L601080000	704/46	1 1/2"	SOLID	5/8"	12
704-198	L601130103	704/46	1-13/16"	1-3/16"	3/4"	12
704-220	L601140104 **	704/46	1-7/8"	1-1/4"	3/4"	12
704-255	L602000010	704/46	2"	5/8"	3/4"	12
704-264	L602000105	704/46	2"	1-5/16"	3/4"	12
704-333	L602040106	704/46	2-1/4"	1-3/8"	3/4"	12
704-354	L602080104	704/46	2-1/2"	1-1/4"		12
704-358	L602080110	704/46	2-1/2"	1-5/8"	13/16"	12
704-384	L602120114 *	704/46	2-3/4"	1-7/8"	13/16"	12
704-409	L603000105	704/46	3"	1-7/8"		12
704-410	L603000200	704/46	3"	2"	13/16"	12
704-464	L603080208	704/46	3-1/2"	2-1/2"	1"	12
704-521	L604000300	704/46	4"	3"	1-11/16"	6

* Standard Clayton Mark hole size
** Standard Midland hole size

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Cup Leathers



706/42 Black Perfection Features:

- Hard, high-polished black finish leather
- Hair side out.
- Used for deep well cylinders as well as developing & testing new wells.
- Made in USA.

ORDER IN TUBE QUANTITY ONLY

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372

NEW Part Number	OLD Part Number	Finish	Cylinder I.D. Leather O.D.	Hole Size Leather I.D.	C Height	Tube Qty
706/42 Black Perfection						
706-022	L201000006	706/42	1	3/8"	7/16"	12
706-063	L201040008	706/42	1-1/4"	1/2"	1/2"	12
706-064	L201040010	706/42	1 1/4"	5/8"	1/2"	12
706-095	L201060010	706/42	1-3/8"	5/8"	5/8"	12
706-105	L201080000	706/42	1-1/2"	-	5/8"	12
706-112	L201080010	706/42	1-1/2"	5/8"	5/8"	12
706-127	L201100006	706/42	1-5/8"	3/8"	5/8"	12
706-155	L201110102	706/42	1-11/16"	1-1/8"	5/8"	12
706-166	L201120006	706/42	1 3/4"	3/8"		12
706-175	L201120102	706/42	1-3/4"	1-1/8"	11/16"	12
706-198	L201130103	706/42	1-13/16"	1-3/16"	3/4"	12
706-219	L201140103	706/42	1-7/8"	1-3/16"	3/4"	12
706-220	L201140104 **	706/42	1-7/8"	1-1/4"	3/4"	12
706-221	L201140105 *	706/42	1-7/8"	1-5/16"	3/4"	12
706-255	L202000010	706/42	2"	5/8"	3/4"	12
706-262	L202000103	706/42	2"	1-3/16"	3/4"	12
706-263	L202000104	706/42	2"	1-1/4"	3/4"	12
706-264	L202000105	706/42	2"	1-5/16"	3/4"	12
706-285	L202010104	706/42	2-1/16"	1-1/4"	3/4"	12
706-286	L202010105	706/42	2-1/16"	1-5/16"	3/4"	12
706-308	L202020104	706/42	2-1/8"	1-1/4"	3/4"	12
706-310	L202020106	706/42	2-1/8"	1-3/8"	3/4"	12
706-333	L202040106	706/42	2-1/4"	1-3/8"	3/4"	12
706-334	L202040108 *	706/42	2-1/4"	1-1/2"	3/4"	12
706-335	L202040110	706/42	2-1/4"	1-5/8"	3/4"	12
706-345	L202080008	706/42	2-1/2"	1/2"		12
706-358	L202080110	706/42	2-1/2"	1-5/8"	13/16"	12
706-359	L202080111	706/42	2-1/2"	1-11/16"	13/16"	12
706-384	L202120114 *	706/42	2-3/4"	1-7/8"	13/16"	12
706-409	L203000114	706/42	3"	1-7/8"	13/16"	12
706-410	L203000200	706/42	3"	2"	13/16"	12
706-435	L203010114	706/42	3 1/16"	1 7/8"		12
706-464	L203080208	706/42	3-1/2"	2-1/2"	1"	12
706-492	L203120210	706/42	3-3/4"	2-5/8"	1"	12
706-520	L204000212	706/42	4"	2-3/4"	1-1/16"	6
706-521	L204000300	706/42	4"	3"	1-1/16"	12

* Standard Clayton Mark hole size

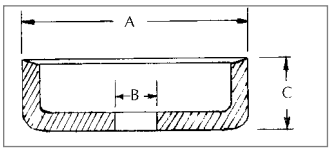
** Standard Midland hole size

Cup Leathers



707/45 Graphite Features:

- Selected from the center of hides.
- Flesh side out.
- Graphite coating prevents fast absorption of water and acts as a lubricant to reduce binding of the plunger in the cylinder.
- Made in USA.



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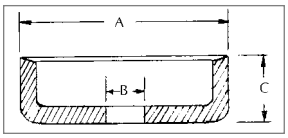
NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty
707/45 Graphite						
707-061	L501040006	707/45	1-1/4"	3/8"	1/2"	12
707-063	L501040008	707/45	1-1/4"	1/2"	1/2"	12
707-064	L501040010	707/45	1-1/4"	5/8"	1/2"	12
707-092	L501060006	707/45	1-3/8"	3/8"	5/8"	12
707-095	L501060010	707/45	1-3/8"	5/8"	5/8"	12
707-109	L501080006	707/45	1-1/2"	3/8"	5/8"	12
707-112	L501080010	707/45	1-1/2"	5/8"	5/8"	12
707-130	L501100010	707/45	1-5/8"	5/8"		12
707-149	L501110010	707/45	1-11/16"	5/8"		12
707-175	L501120102	707/45	1-3/4"	1-1/8"		12
707-198	L501130103	707/45	1-13/16"	1-3/16"	3/4"	12
707-215	L501140114	707/45	1-7/8"	7/8"	3/4"	12
707-220	L501140104 **	707/45	1-7/8"	1-1/4"	3/4"	12
707-221	L501140105 *	707/45	1-7/8"	1-5/16"	3/4"	12
707-255	L502000010	707/45	2"	5/8"	3/4"	12
707-264	L502000105	707/45	2"	1-5/16"	3/4"	12
707-286	L502010105	707/45	2-1/16"	1-5/16"	3/4"	12
707-300	L502020010	707/45	2-1/8"	5/8"	3/4"	12
707-333	L502040106	707/45	2-1/4"	1-3/8"	3/4"	12
707-334	L502040108 *	707/45	2-1/4"	1-1/2"	3/4"	12
707-639	L502060108	707/45	2 3/8"	1 1/2"	3/4"	12
707-357	L502080108	707/45	2-1/2"	1-1/2"	3/4"	12
707-358	L502080110	707/45	2-1/2"	1-5/8"	13/16"	12
707-359	L502080111	707/45	2-1/2"	1-11/16"	13/16"	12
707-384	L502120114 *	707/45	2-3/4"	1-7/8"	13/16"	12
707-410	L503000200	707/45	3"	2"	13/16"	12
707-436	L503010200	707/45	3 1/16"	2"		12
707-464	L503080208	707/45	3-1/2"	2-1/2"	1"	12
707-492	L503120210	707/45	3-3/4"	2-5/8"	1"	12
707-520	L504000212	707/45	4"	2-3/4"		6
707-521	L504000300	707/45	4"	3"	1-1/16"	6
707-615	L506000010	707/45	6"	5/8"		6

* Standard Clayton Mark hole size
** Standard Midland hole size

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Cup Leathers





711/44 Waterproof Features:

- Soft, pliable waterproof.
- Hair side out.
- For use on piston pumps, shallow setting brass-cylinder barrels, air pumps and other applications where minimum water absorption and swelling is desired.
- Made in USA.

CLAYTON MARK

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

ORDER IN TUBE QUANTITY ONLY

NEW Part Number	OLD Part Number	Finish	Cylinder I.D. Leather O.D.	Hole Size Leather I.D.	Height	Tube Qty
711/44 Waterproof						
711-021	L401000004	711/44	1"	1/4"	7/16"	12
711-022	L401000006	711/44	1"	3/8"	7/16"	12
711-024	L401000008	711/44	1"	1/2"	7/16"	12
711-037	L401010010	711/44	1-1/16"	5/8"		12
711-048	L401020006	711/44	1-1/8"	3/8"	1/2"	12
711-050	L401020008	711/44	1-1/8"	1/2"	1/2"	12
711-057	L401040000	711/44	1 1/4"	-	1/2"	12
711-061	L401040006	711/44	1-1/4"	3/8"	1/2"	12
711-062	L401040007	711/44	1-1/4"	7/16"	1/2"	12
711-063	L401040008	711/44	1-1/4"	1/2"	1/2"	12
711-064	L401040010	711/44	1-1/4"	5/8"		12
711-076	L401050006	711/44	1-5/16"	3/8"		12
711-078	L401050008	711/44	1-5/16"	1/2"		12
711-094	L401060008	711/44	1-3/8"	1/2"	5/8"	12
711-095	L401060010	711/44	1-3/8"	5/8"	5/8"	12
711-098	L401060014	711/44	1-3/8"	7/8"	5/8"	12
711-109	L401080006	711/44	1-1/2"	3/8"	5/8"	12
711-111	L401080008	711/44	1-1/2"	1/2"	5/8"	12
711-112	L401080010	711/44	1-1/2"	5/8"	5/8"	12
711-129	L401100008	711/44	1-5/8"	1/2"	5/8"	12
711-130	L401100010	711/44	1-5/8"	5/8"	5/8"	12
711-135	L401100100	711/44	1-5/8"	1"	5/8"	12
711-149	L401110010	711/44	1-11/16"	5/8"	5/8"	12
711-151	L401110103	711/44	1 11/16"	1 3/16"		12
711-154	L401110100	711/44	1-11/16"	1"	5/8"	12
711-155	L401110102	711/44	1-11/16"	1-1/8"	5/8"	12
711-169	L401120010	711/44	1-3/4"	5/8"	11/16"	12
711-174	L401120100	711/44	1 3/4"	1"	11/16"	12
711-175	L401120102	711/44	1-3/4"	1-1/8"	11/16"	12
711-192	L401130012	711/44	1-13/16"	3/4"		12
711-198	L401130103	711/44	1-13/16"	1-3/16"	3/4"	12
711-211	L401140008	711/44	1-7/8"	1/2"	3/4"	12
711-212	L401140010	711/44	1-7/8"	5/8"	3/4"	12
711-217	L401140100	711/44	1-7/8"	1"	3/4"	12
711-219	L401140103	711/44	1-7/8"	1-3/16"	3/4"	12
711-220	L401140104 **	711/44	1-7/8"	1-1/4"	3/4"	12
711-221	L401140105 *	711/44	1-7/8"	1-5/16"	3/4"	12

* Standard Clayton Mark hole size
** Standard Midland hole size

711/44 Waterproof - continued.
ORDER IN TUBE QUANTITY ONLY

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

CLAYTON MARK® SINCE 1888

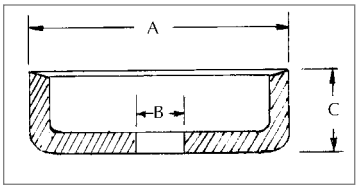
NEW Part Number	OLD Part Number	Finish	Cylinder I.D. Leather O.D.	Hole Size Leather I.D.	Height	Tube Qty
711/44 Waterproof - Continued						
711-240	L401150103	711/44	1-15/16"	1-3/16"	3/4"	12
711-242	L401150105	711/44	1-15/16"	1-5/16"	3/4"	12
711-248	L402000000	711/44	2"	SOLID	3/4"	12
711-254	L402000008	711/44	2"	1/2"	3/4"	12
711-255	L402000010	711/44	2"	5/8"	3/4"	12
711-259	L402000015	711/44	2"	15/16"	3/4"	12
711-262	L402000103	711/44	2"	1-3/16"	3/4"	12
711-263	L402000104	711/44	2"	1-1/4"	3/4"	12
711-264	L402000105	711/44	2"	1-5/16"	3/4"	12
711-267	L402000110	711/44	2"	1-5/8"	3/4"	12
711-277	L402010010	711/44	2-1/16"	5/8"	3/4"	12
711-284	L402010103	711/44	2-1/16"	1-3/16"	3/4"	12
711-285	L402010104	711/44	2-1/16"	1-1/4"	3/4"	12
711-286	L402010105	711/44	2-1/16"	1-5/16"	3/4"	12
711-300	L402020010	711/44	2-1/8"	5/8"	3/4"	12
711-308	L402020104	711/44	2-1/8"	1-1/4"	3/4"	12
711-316	L402040000	711/44	2 1/4"	SOLID	3/4"	12
711-323	L402040010	711/44	2-1/4"	5/8"	3/4"	12
711-331	L402040104	711/44	2-1/4"	1-1/4"	3/4"	12
711-332	L402040105	711/44	2-1/4"	1-5/16"	3/4"	12
711-333	L402040106	711/44	2-1/4"	1-3/8"	3/4"	12
711-334	L402040108 *	711/44	2-1/4"	1-1/2"	3/4"	12
711-335	L402040110	711/44	2-1/4"	1-5/8"	3/4"	12
711-339	L402080000	711/44	2-1/2"	SOLID	13/16"	12
711-346	L402080010	711/44	2-1/2"	5/8"	13/16"	12
711-354	L402080104	711/44	2-1/2"	1-1/4"	13/16"	12
711-355	L402080105	711/44	2-1/2"	1-5/16"	13/16"	12
711-356	L402080106	711/44	2-1/2"	1-3/8'	13/16"	12
711-357	L402080108	711/44	2-1/2"	1-1/2"	13/16"	12
711-358	L402080110	711/44	2-1/2"	1-5/8"	13/16"	12
711-359	L402080111	711/44	2-1/2"	1-11/16"	13/16"	12
711-384	L402120114 *	711/44	2-3/4"	1-7/8"	13/16"	12
711-637	L402140114	711/44	2-7/8"	1-7/8"	13/16"	12
711-406	L403000108	711/44	3"	1-1/2"	13/16"	12
711-409	L403000114	711/44	3"	1-7/8"	13/16"	12
711-410	L403000200	711/44	3"	2"	13/16"	12
711-638	L403000202	711/44	3"	2 1/8"	13/16"	12
711-435	L403010114	711/44	3-1/16"	1-7/8"	13/16"	12
711-436	L403010200	711/44	3-1/16"	2"	13/16"	12
711-464	L403080208	711/44	3-1/2"	2-1/2"	1"	12
711-492	L403120210	711/44	3-3/4"	2-5/8"	1"	12
711-495	L404000000	711/44	4"	SOLID	1-1/16"	6
711-518	L404000208	711/44	4'	2-1/2"	1-1/16"	6
711-520	L404000212	711/44	4"	2-3/4"	1-1/16"	6
711-521	L404000300	711/44	4"	3"	1-1/16"	12

* Standard Clayton Mark hole size
** Standard Midland hole size

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Cup Leathers





NEO/86 NEOFAB CUP Features:

- Enhanced endurance with lower replacement rates.
- Neoprene material with fabric insert in base.
- Outlasts all other leathers.
- Made in USA.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

ORDER IN TUBE QUANTITY ONLY

NEW Part Number	OLD Part Number	Finish	A Cylinder I.D. Leather O.D.	B Hole Size Leather I.D.	C Height	Tube Qty
NEO/86 NEOFAB CUP						
NEO-220	L901140104 **	NEO/86	1-7/8"	1-1/4"	3/4"	3
NEO-255	L902000010	NEO/86	2"	5/8"	3/4"	3
NEO-264	L902000105	NEO/86	2"	1-5/16"	3/4"	3
NEO-334	L902040108 *	NEO/86	2-1/4"	1-1/2"	3/4"	3
NEO-358	L902080110	NEO/86	2-1/2"	1-5/8"	13/16"	3
NEO-384	L902120114 *	NEO/86	2-3/4"	1-7/8"	13/16"	3
NEO-464	L903080208	NEO/86	3-1/2"	2-1/2"	1"	3

* Standard Clayton Mark hole size
** Standard Midland hole size

Leathers - Universal



V5 Series

Valve Leathers for use with pitcher pumps and cylinders
700/55 Universal Features:

- Lower valve leather.
- Uniform, heavy stock with russet finish.
- Made in USA.

Part Number	Cylinder I.D.	Leather O.D.	Standard I.D.	Ctn Qty
700/55 Universal				
V502080200	2"	2 1/2"	2"	6
V502120204	2 1/4"	2 3/4"	2 1/4"	6
V503000206	2 1/2"	3"	2 3/8"	6
V503080214	3"	3 1/2"	2 7/8"	6
V503120302	3 1/4""	3 3/4"	3 1/8"	6
V504000304	3 1/2"	4"	3 1/4"	6
V504080312	4"	4 1/2"	3 3/4"	6
V505000404	4 1/4"	5"	4 1/4"	6
V505040408	4 1/2"	5 1/4"	4 1/2"	6
V506120512	6"	6 3/4"	5 3/4"	6

Pitcher Pump Leather Selection Chart

Pump Size	Part Number	Cylinder I.D.	Leather O.D.
No. 1	V503000206	2-1/2"	3
No. 2	V503080214	3"	3-1/2"
No. 3	V504000304	3-1/2"	4"
No. 4	V504080312	4"	4-1/2"



708/57 Universal Packing Ring

708/57 Universal Packing Ring Features:

- General purpose leather washer or flat ring gasket.
- Universal finish for all applications.
- Soft, pliable leather for long life.
- Made in USA.

Part Number	Finish	Outside Diameter	Hole Size	Thickness
708/57 Universal Packing Ring				
R702000106	708/57	2"	1-3/8"	1/8"
R702080114	708/57	2-1/2"	1-7/8"	1/8"
R702120202	708/57	2-3/4"	2-1/8"	1/8"
R703000206	708/57	3"	2-3/8"	1/8"
R703080214	708/57	3-1/2"	2-7/8"	5/32"

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Jet-Lube®

Add extra years to the life of any drill rig with the products used for years.

Use Jet-Lube specialty lubricants, thread compounds and sealants on drill rods, pipe, collars, stabs, subs, wire and cable for lower down-time and longer rig life.

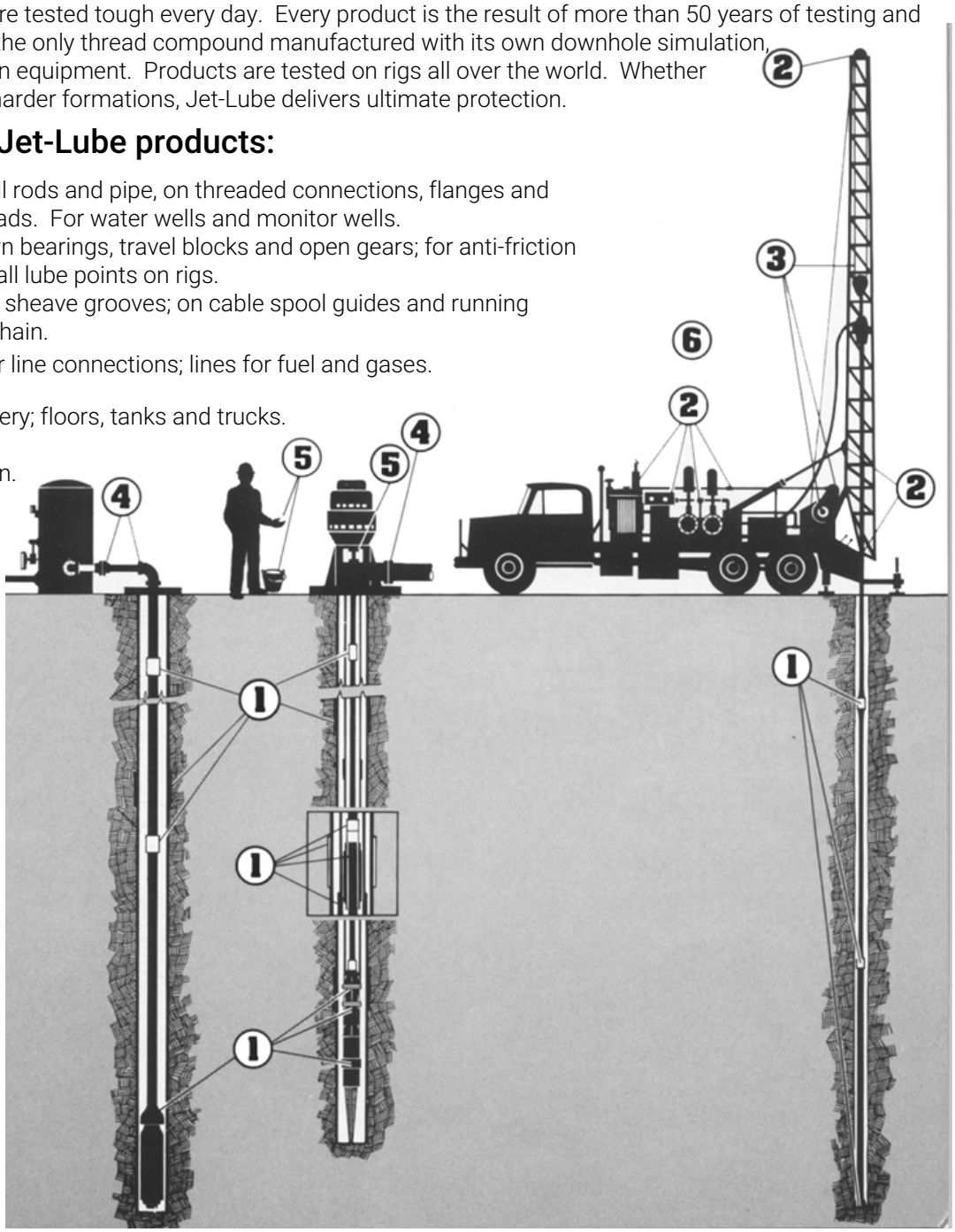
ISO 9001

Water well drillers use Jet-Lube products on pumps, compressors and potable water connections. You name it, there's a Jet-Lube product for it. There's even environmental safe cleaners and degreasers.

Jet-Lube products are tested tough every day. Every product is the result of more than 50 years of testing and research. Jet-Lube is the only thread compound manufactured with its own downhole simulation, testing and certification equipment. Products are tested on rigs all over the world. Whether drilling in soft rock or harder formations, Jet-Lube delivers ultimate protection.

Where to apply Jet-Lube products:

1. On tool joints, drill rods and pipe, on threaded connections, flanges and exposed threads. For water wells and monitor wells.
2. For swivels, crown bearings, travel blocks and open gears; for anti-friction bearings; for all lube points on rigs.
3. On cables, ropes, sheave grooves; on cable spool guides and running gears; roller chain.
4. For potable water line connections; lines for fuel and gases.
5. For truck machinery; floors, tanks and trucks.
6. Jobsite protection.



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1.97
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Jet-Lube®



JL101 Series
formerly JL100 Series

1

Kopr-Kote® Heavy Duty Drill Pipe Compound (Lead Free)

A high performance, lead free, copper based thread compound for heavy duty drilling. Protects against seizure, galling and downhole makeup.
ARCTIC grade also available. Temp. rating -65°F to 300°F.

ISO 9001

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL10123	1 gal pail	11 lbs.	1	1
JL10112	2 gal pail	21 lbs.	1	1
JL10115	5 gal pail	52 lbs.	2	1
JL10512	ARCTIC GRADE 2 gal pail	21 lbs.	1	1
JL10515	ARCTIC GRADE 5 gal pail	52 lbs.	2	1



JL110 Series
formerly JL109 Series

1

Jet-Lube 21® Intermediate Grade Drill Pipe Compound (Lead Free)

The lead free professional choice for intermediate drilling applications in softer formations. Environmentally safe.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL11023	1 gal pail	10 lbs.	1	1
JL11012	2 gal pail	20 lbs.	1	1
JL11015	5 gal pail	49 lbs.	2	1



JL145 Series

NO LEAD
LEAD-FREE

1

Eco-Safe™ Nonmetallic Thread Compound

Premium quality, nonmetallic thread compound containing carbon based fibers and additives and other extreme pressure and anti-wear additives.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL14523	1 gal pail	12 lbs.	1	1
JL14512	2 gal pail	22 lbs.	1	1



JL668 Series

NO LEAD
LEAD-FREE

1

Bullseye™ Water Well and Environmental Compound

High purity thread compound designed for sensitive water well and other environmental drilling applications requiring a petroleum hydrocarbon-free product.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL66823	1 gal pail	12 lbs.	1	1



JL03 Series

1

Jet-Lube Dope Brushes

Thread compound dope brushes, taper or bevel style. 1 1/8" x 16". Can be used in 1, 2 or 5 gallon pails.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL03000	1 1/8" x 16" Taper	9 lbs.	1	12
JL03500	1 1/8" x 16" Bevel	9 lbs.	1	12

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Jet-Lube®



1

JL118 Series
formerly JL119 Series

JLS® Economy Grade Drill Pipe Compound (Lead Free)

Economical choice for use only where drilling conditions are least demanding. For use in light to medium drilling in sandy formations. Environmentally safe.

ISO 9001

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL11823	1 gal pail	10 lbs.	1	1
JL11813	2 gal pail	20 lbs.	1	1
JL11815	5 gal pail	50 lbs.	2	1



NO LEAD ✓ LEAD-FREE

1

JL185 Series

Well-Guard® Monitor Well Drill Thread Compound

A thread compound which provides state-of-the-art protection against galling, seizure and thread damage while being in full compliance with all EPA guidelines. Petroleum hydrocarbon-free and brushable to -10°F. Test results available.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL18523	1 gal pail	11 lbs.	1	1



2

JL37341

769 Lubricant® and Penetrant

Heavy duty penetrating lubricant for all environments. When drilling in marshland or near coastlines, protects operating parts against salt corrosion. Frees rusted and frozen parts, displaces moisture, cleans and prevents rust. Non-flammable.
MIL-C-23411A. Federal spec V V-P-216B. USDA-H2

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL37341	12 oz. aerosol	12 lbs.	1	12



3

JL28541

WLD™ Wire Rope, Cable and Roller Chain Dressing and Lubricant

Extend the life of wirelines, ropes, cables, grooves. Specially formulated with molybdenum disulfide and graphite to reduce friction and wear on cable strands. Tacky and adhesive for lasting protection. Penetrates wire strands to lubricate the core, then keeps on working to prevent moisture from corroding the cable. Black

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL28541	12 oz. aerosol	12 lbs.	1	12



4

JL71741

Pitless Adapter Lube™ Assembly Lubricant

Preservative designed to aid in installation of pitless adapters. **USDA H-1 authorized.** Corrosion preventative contains anti-bacterial/anti-fungal additive.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL71741	12 oz. aerosol	13 lbs.	1	12

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Jet-Lube®

V-2® Multi Purpose PTFE Thread Sealant



JL355 Series

A soft setting, non-petroleum based thread sealant for use where immediate pressurization is desired. Non-staining, low odor, off white color. Use on all types of metals, reinforced fiberglass and PVC. **MIL-TT-S-1732. USDA H-2 Authorized. IAPMO Approved.**

ISO 9001

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL35502	1/2 pint brush top can	11 lbs.	1	12
JL35504	1 pint brush top can	19 lbs.	1	12

TFW™ Anti-Sieze Thread Sealant with PTFE



JL240 Series

Low friction and non-toxic, TFW is used to prevent thread leaks of almost all fluids, gases or steam, even at temperatures up to 500 F. Can be used on metal, PVC, ABS and CPVC fittings and piping. **IAPMO approved.**

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL24002	1/2 pint brush top can	9 lbs.	1	12
JL24004	1 pint brush top can	17 lbs.	1	12

TF-15® Thread Sealant with PTFE for fiberglass pipe



JL23023

High pressure thread sealant containing PTFE and EP additives that allow for easy breakout without seizing, stripping or galling. Highly recommended for use as a sealant on fiberglass tubing and casing threads. **Passes California COR Title 22**

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL23023	1 gal pail	11 lbs.	1	1

Clean-Up Plus™ Organic Solvent Cleaner



JL72542

Environmentally safe cleaner and degreaser. Blend of organic solvents, safe non-flammable CO2 propellant. Citrus scent. Residue free product is safe on all metals. 29KV dielectric strength. No Tri 1-1-1. **USDA authorized.**

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL72542	15 oz. aerosol	16 lbs.	1	12

Clean-Up™ Industrial Cleaner and Safety Solvent



JL61542

Heavy duty low foaming cleaner/degreaser. Fast working, non-flammable residue free product formulated with an ozone friendly chlorinated solvent. 29 KV dielectric strength. No Tri 1-1-1.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL61542	18 oz. aerosol	15 lbs.	1	12

Moly Mist™ Dry Film Lubricant



JL16041

Use to break in equipment and assemble moving parts. Micro-fine molybdenum disulfide suspended in a quick-drying carrier. Bonds to any surface in seconds to provide low coefficient of friction, extended lubrication and improved operation.

Part Number	Net Contents & Container Type	Shipping Weight/Case	Case Equivalents	Case Qty
JL16041	12 oz. aerosol	13	1	12

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FOOT & CHECK VALVES
YARD HYDRANTS



Check & Foot Valves
- Clayton Mark 7-10
- NL Brass, Brass, Bronze, Stainless Steel 1-6
- Plastic 15
- Simmons 11-13

Foot Valves - Cast Iron 16
Yard Hydrants 17-20

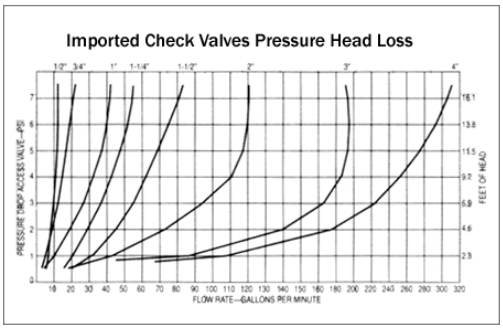
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Check Valves - NO LEAD Brass, Bronze, Stainless Steel



CHECK VALVE Features:

- NO LEAD cast brass, bronze body & poppet.
- Buna-N o-ring.
- Stainless steel springs, washers, locknuts.
- Delrin poppet stem guide.
- 200 psi WOG working pressure.
- 300 lb. max hang weight (down pull) tension.
- For use in water well systems.
- Individually cartoned.
- **Third party certified to NSF/ANSI 372.**





CVNL-BS Series

CVNL-BS Series NO LEAD BRASS Check Valves

- Rough body finish.
- For cold water applications only.

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Part Number	Size	Ctn Qty
CVNL50BS	1/2"	100
CVNL75BS	3/4"	80
CVNL100BS	1"	60
CVNL125BS	1 1/4"	40
CVNL150BS	1 1/2"	30
CVNL200BS	2"	20
CVNL300BS	3"	6
CVNL400BS	4"	3



CVNL-B Series

CVNL-B Series NO LEAD BRONZE Check Valves

- Machined body finish.
- For cold water applications only.

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Part Number	Size	Ctn Qty
CVNL50B	1/2"	100
CVNL75B	3/4"	80
CVNL100B	1"	60
CVNL125B	1 1/4"	40
CVNL150B	1 1/2"	30
CVNL200B	2"	20
CVNL300B	3"	6



SSCV Series

SSCV Series STAINLESS STEEL Check Valves

- 304 cast stainless steel casting, springs, washers, lock nut.
- Viton o-ring.
- For cold water applications only.

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

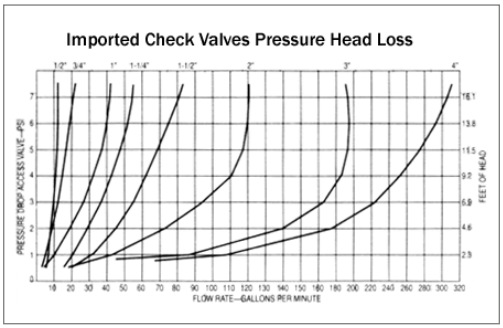
Part Number	Size	Ctn Qty
SSCV50	1/2"	100
SSCV75	3/4"	80
SSCV100	1"	60
SSCV125	1 1/4"	40
SSCV150	1 1/2"	30
SSCV200	2"	20
SSCV300	3"	6
SSCV400	4"	3
SSCV1025	1" fpt x 1 1/4" mpt	60

Check Valves - NO LEAD Brass



CHECK VALVE Features:

- NO LEAD cast brass or stainless steel body & poppet.
- Buna-N o-ring.
- Stainless steel springs, washers, locknuts.
- Delrin poppet stem guide.
- 200 psi WOG working pressure.
- 300 lb. max hang weight (down pull) tension.
- For use in water well systems.
- Individually cartoned.
- **Third party certified to NSF/ANSI 372.**





CVXLDNL Series

CVXLDNL Series NO LEAD BRASS Check Valves

- Rough body finish.
- Extra long at discharge end.
- For cold water applications only.

Part Number	Size	Ctn Qty
CVXLDNL100BS	1" x 1"	60
CVXLDNL125BS	1 1/4" x 1 1/4"	40

ALS NSF/ANSI/CAN 61-4 & 372

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372



CVMNL-BS Series

CVMNL-BS Series NO LEAD BRASS Submersible Check Valves

- Rough body finish.
- FPT x MPT
- For cold water applications only.

Part Number	Size (FPT x MPT)	Ctn Qty
CVMNL100BS	1" x 1"	60
CVMNL125BS	1" x 1 1/4"	40
CVMNL1252BS	1 1/4" x 1 1/4"	60

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



CVMXLNL Series

CVMXLNL Series NO LEAD BRASS Submersible Check Valves

- Rough body finish.
- Extra long body.
- For cold water applications only.

Part Number	Size (M x F)	Ctn Qty
CVMXLNL100BS	1" x 1"	60
CVMXLNL125BS	11/4" x 1 1/4"	40

ALS NSF/ANSI/CAN 61-4 & 372

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

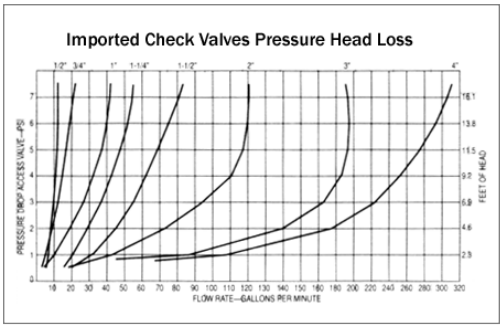
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Check Valves - NO LEAD Brass



CHECK VALVE Features:

- NO LEAD cast brass body & poppet.
- Buna-N o-ring.
- Stainless steel springs, washers, locknuts.
- Delrin poppet stem guide.
- 200 psi WOG working pressure.
- 300 lb. max hang weight (down pull) tension.
- For use in water well systems.
- Individually cartoned.
- **Third party certified to NSF/ANSI 372.**





CVTNL-1B Series

CVT-1B Series NO LEAD BRASS Single Tap Check Valves

- 1/8" inlet tap.
- For cold water applications only.

Part Number	Size	Ctn Qty
CVTNL1001BS	1"	60
CVTNL1251BS	1 1/4"	40



CVTNL-2BS Series

CVRT-2BS Series NO LEAD BRASS Double Tap Check Valves

- One 1/8" inlet tap.
- One 1/4" outlet tap.
- For cold water applications only.

Part Number	Size	Ctn Qty
CVTNL1002BS	1"	60
CVTNL1252BS	1 1/4"	40
CVTNL1502BS	1 1/2"	30
CVTNL2002BS	2"	20



CVTNL-3BS Series

CVT-3B Series NO LEAD BRASS Control Center Check Valves

- One 1/8" inlet tap.
- One 1/8" and one 1/4" outlet taps.
- For cold water applications only.

Part Number	Size	Ctn Qty
CVTNL1003BS	1"	60
CVTNL1253BS	1 1/4"	40



CVCNL-BS Series

CVC-B Series NO LEAD BRASS Control Center Check Valves

- One 1/8" inlet tap.
- One 1/8" and two 1/4" outlet taps.
- For cold water applications only.

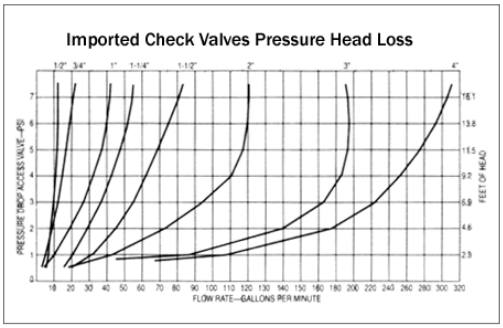
Part Number	Size	Ctn Qty
CVCNL100BS	1"	60
CVCNL125BS	1 1/4"	40

Check Valves - LEADED Brass



CHECK VALVE Features:

- Cast brass, bronze body & poppet.
- Buna-N o-ring.
- Stainless steel springs, washers, locknuts.
- Delrin poppet stem guide.
- 200 psi WOG working pressure.
- 300 lb. max hang weight (down pull) tension.
- For use in water well systems.
- Individually cartoned.
- Imported.





CV-BS Series

CV-BS Series LEADED BRASS Check Valves

- Rough body finish.
- For cold water applications only.



Part Number	Size	Ctn Qty
CV50BS	1/2"	100

*** Discontinued product. Limited quantities available.**

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Foot Valves - NO LEAD Brass, Bronze, Stainless Steel



FOOT VALVE Features:

- NO LEAD Cast Brass, bronze or stainless steel body & poppet.
- Buna-N o-ring (Viton on stainless steel).
- Stainless steel springs, washers, locknuts and strainers.
- 200 psi WOG working pressure.
- For use in water well systems.
- Individually cartoned.
- **Third party certified to NSF/ANSI 372.**



FVNL-BS Series

FVNL Series LEAD FREE BRASS Foot Valves

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

LOW-LEAD IAPMO R&T

- Rough body finish.
- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty
FVNL50BS	1/2"	1 1/4"	100
FVNL75BS	3/4"	1 1/2"	80
FVNL100BS	1"	2"	60
FVNL125BS	1 1/4"	2 1/2"	40
FVNL150BS	1 1/2"	3"	30
FVNL200BS	2"	3 1/2"	20
FVNL300BS	3"	5"	8
FVNL400BS	4"	-	4



FVNL-B Series

FV-B Series NO LEAD BRONZE Foot Valves

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty
FVNL50B	1/2"	1 1/4"	100
FVNL75B	3/4"	1 1/2"	80
FVNL100B	1"	2"	60
FVNL125B	1 1/4"	2 1/2"	40
FVNL1251B	1 1/4"	2"	50
FVNL150B	1 1/2"	3"	30
FVNL200B	2"	3 1/2"	20
FVNL300B	3"	5"	8
FVNL400B	4"	-	4



FVNL-B Series

FV-B Series NO LEAD BRONZE Dual Purpose Foot Valves

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty
FVNL100125B	1" FPT x 1 1/4"MPT	2"	60



SSFV Series

SSFV Series STAINLESS STEEL Foot Valve Features:

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

- 304 Stainless steel casting, spring, washer, locknut, strainer
- Viton o-ring.
- For cold water applications only.

Part Number	Size	Enters Pipe	Ctn Qty
SSFV50	1/2"	1 1/4"	100
SSFV75	3/4"	1 1/2"	80
SSFV100	1"	2"	60
SSFV125	1 1/4"	2 1/2"	40
SSFV150	1 1/2"	3"	30
SSFV200	2"	3 1/2"	20
SSFV300	3"	5"	8
SSFV400	4"	-	4

Foot Valves - Replacement parts

FVSC, CVSP Series Stainless Screen, Endcap, Screw, Spring

- Spring replacement for all imported check and foot valves



FVSC & CVSP Series

Screen/Cap/Screw Part Number	Spring Part Number	Size
FVSC50	CVSP50	1/2"
FVSC75	CVSP75	3/4"
FVSC100	CVSP100	1"
FVSC125	CVSP125	1 1/4"
FVSC150	CVSP150	1 1/2"
FVSC200	CVSP200	2"
FVSC300	CVSP300	3"
FVSC400	CVSP400	4"

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NO LEAD Check Valves - Clayton Mark

- **FOR USE IN WATER WELL SYSTEMS**
- **Third party certified to NSF/ANSI 372.**

CLAYTON MARK®

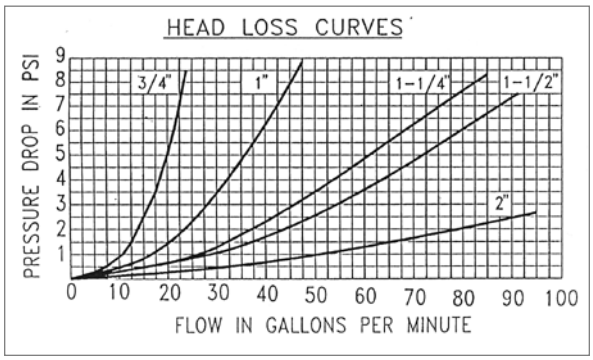
LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



6300 No Lead Brass Check Valve Features:

- The Buna-N rubber coated poppet seals under high & low pressure applications.
- Delrin Stem Guide to improve flow.
- Self locking nut is vibration proof.
- Stainless steel spring.
- 400 PSI rated (WOG).
- For cold water applications only.
- Hex ends for easy installation.

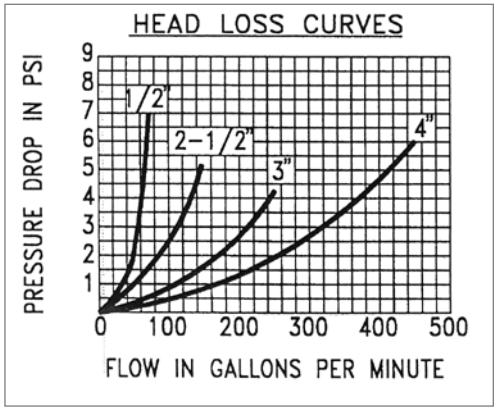


Part Number	Size	Enters Casing	Ctn Qty
6300-3/4	3/4"	1-1/2"	48
6300-1	1"	2"	35
6300-11/4	1-1/4"	2-1/2"	24
6300-11/2	1-1/2"	3"	20
6300-2	2"	3-1/2"	12



5300 No Lead Brass Check Valve Features:

- Highly finished no lead brass body with a flat seated poppet to withstand increased water pressure for a continuous period of time.
- 400 PSI (W.O.G.)
- For cold water applications only.
- Corrosion resistant, stainless steel poppet core on 5300-1/2".
- No Lead Brass poppet on 5300-2 1/2, 3 & 4".
- Not suitable for all types of oil and gas.
- Heavy hex ends for easy installation.



Part Number	Size	Enters Casing	Ctn Qty
5300-1/2	1/2"	1-1/2"	48
5300-21/2	2-1/2"	5"	1
5300-3	3"	6"	1
5300-4	4"	8"	1

NO LEAD Check Valves - Clayton Mark

- FOR USE IN WATER WELL SYSTEMS
- **Third party certified to NSF/ANSI 372.**

CLAYTON MARK®

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



6300-1 No Lead Brass One Hole Control Center

- 1/8"-27NPS tapping on inlet side for snifter valve.
- NOTE: 2-1/2 inch size has the 5300 poppet design.

Part Number	Size	Ctn Qty
63001-1	1"	35
63001-11/4	1-1/4"	30
63001-11/2	1-1/2"	20
63001-2	2"	12



6300-2 No Lead Brass Two Hole Control Center

- 1/8"-27NPS tapping on inlet side for snifter valve.
- 1/4"-18NPS tapping on outlet side for pressure switch.
- NOTE: 4 inch has the 5300 poppet design.

Part Number	Size	Ctn Qty
63002-1	1"	35
63002-11/4	1-1/4"	30
63002-11/2	1-1/2"	20
63002-2	2"	12



63000218 No Lead Brass Two Hole Control Center

- Two 1/4"-18NPS tappings on outlet side.

Part Number	Size	Ctn Qty
6300218-1	1"	35
6300218-11/4	1-1/4"	30



6300-3 No Lead Brass Three Hole Control Center

- 1/8"-27NPS tapping on inlet side for snifter valve.
- 1/4"-18NPS tapping on outlet side for pressure switch.
- 1/4"-18NPS tapping on outlet side for pressure gauge.

Part Number	Size	Ctn Qty
63003-1	1"	35
63003-11/4	1-1/4"	30

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NO LEAD Check Valves - Clayton Mark

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LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



6300-4 No Lead Brass Four Hole Control Center

- 1/8"-27NPS tapping on inlet side for snifter valve.
- 1/4"-18NPS tapping on outlet side for pressure gauge.
- 1/4"-18NPS tapping on outlet side for pressure switch.
- 1/8" tapping on outlet side for drain(1/8" brass plug furnished).

Part Number	Size	Ctn Qty
63004-1	1"	35
63004-11/4	1-1/4"	30



6302 No Lead Brass Submersible Check Valves

- Fits directly on pump discharge.

Part Number	Size (mpt x fpt)	Ctn Qty
6302-11/4x1	1-1/4" x 1"	30
6302-11/4x11/4	1-1/4" x 1-1/4"	30
6302-2x2	2" x 2"	12
6302-3x3	3" x 3"	1
6302-4x4	4" x 4"	1



479 No Lead Brass BREMER CHECK VALVES

- Non corrosive no lead brass with tapered seat and poppet with Perma-Kleen facing for positve seal.
- Uses a tapered rubber packer to seal in the well bore.

Part Number	Size	Ctn Qty
8669A	2"	12
8034C	2" Rubber Check Packer	150

NO LEAD Foot Valves - Clayton Mark

- FOR USE IN WATER WELL SYSTEMS
- **Third party certified to NSF/ANSI 372.**

CLAYTON MARK®

6340 SERIES No Lead Brass Foot Valves



- 400 PSI rating. (W.O.G.)
- Tapered ABS strainer.
- Corrosion resistant, stainless steel core with exclusive cup shape.
- For cold water applications only.
- Jam proof delrin stem guide.

Part Number	Size	Enters Casing	Ctn Qty
6340-3/4	3/4"	1-1/2"	48
6340-1	1"	2"	35
6340-11/4	1-1/4"	2"	30
6340-11/2	1-1/2"	3"	20
6340-2	2"	3-1/2"	12

5340 SERIES No Lead Brass Foot Valves



- No. 8 perforated stainless steel screen strainer.
- 400 PSI rating.
- Corrosion resistant, stainless steel core with exclusive cup shape.
- For cold water applications only.

Part Number	Size	Enters Casing	Ctn Qty
5340-3/4	3/4"	1 1/4"	48
5340-1	1"	1 1/2"	35
5340-11/4	1 1/4"	2"	24
5340-11/2	1 1/2"	2 1/2"	20
5340-2	2"	3 1/2"	12

5330 Series No Lead Brass Foot Valves



- No 8 perforated stainless steel strainer.
- Heavy hex end.

Part Number	Size	Enters Casing	Ctn Qty
5330-21/2	2-1/2"	5"	1
5330-3	3"	6"	1
5330-4	4"	6"	1

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NO LEAD Check Valves - Simmons

- **FOR USE IN WATER WELL SYSTEMS**

* **Silicon bronze components contain less than 0.05% (1/20 of 1%) lead.**



LF5100 Series Silicon Bronze LEAD FREE* check valves

- Silicon bronze cast body and poppet..
- Buna-N o-ring, stainless steel spring, washer and lock nut.
- 400 PSI (WOG working pressure).
- Made in U.S.A.

Part Number	Simmons	Size	Ctn Qty
LF5100-1/2	501SB	1/2"	50
LF5100-3/4	502SB	3/4"	50
LF5100-1	503SB	1"	50
LF5100-1LT	513SB	1" w/ Longer Threads	50
LF5100-11/4	504SB	1 1/4"	36
LF5100-11/2	505SB	1 1/2"	24
LF5100-2	506SB	2"	16
LF5100-21/2	507SB	2 1/2"	1
LF5100-3	508SB	3"	1
LF5100-4	509SB	4"	1
LF5100-5	510SB	5" w/ MPT both ends	1
LF5100-6	511SB	6"	1



LF5100A Series Silicon Bronze LEAD FREE* check valves

- Sames as 5100 Series plus:
- 1/8" single inlet tapping.
- Made in U.S.A.

Part Number	Simmons	Size	Ctn Qty
LF5100A1	522SB	1"	50
LF5100A11/2	524SB	1 1/2"	24
LF5100A2	525SB	2"	16



LF5100B Series Silicon Bronze LEAD FREE* Check Valves

- Sames as 5100 Series plus:
- With 1/8" Inlet Tapping, 1/4" Outlet Tappings.
- Made in U.S.A.

Part Number	Simmons	Size	Ctn Qty
LF5100B3/4	541SB	3/4"	50
LF5100B1	542SB	1"	50
LF5100B11/4	543SB	1 1/4"	36
LF5100B11/2	544SB	1 1/2"	24
LF5100B2	545SB	2"	16
LF5100B3	547SB	3	1

NO LEAD Check Valves - Simmons

- **FOR USE IN WATER WELL SYSTEMS**

* **Silicon bronze components contain less than 0.05% (1/20 of 1%) lead.**



LF5100C Series Silicon Bronze LEAD FREE* Control Center

- Made in U.S.A.

Part Number	Simmons	Size	Inlet Tap	Outlet Tap	Ctn Qty
LF5100C1	601SB	1"	1/8" (1)	1/4" (2)	1
LF5100C11/4	602SB	1 1/4"	1/8" (1)	1/4" (2)	1
LF5100C11/2	603SB	1 1/2"	1/8" (1)	1/4" (2)	1
LF5101C1	606SB	1"	-	1/4" (2)	1
LF5101C11/4	607SB	1 1/4"	-	1/4" (2)	1



LF5100D Series Silicon Bronze LEAD FREE* submersible Check Valves

- Installation between pump and column pipe.
- Made in U.S.A.

Part Number	Simmons	Size (FxM)	Ctn Qty
LF5100D1x1	616SB	1"x1"	1
LF5100D1x1LT	610SB	1"x1" w/ longer threads	1
LF5100D1x11/4	617SB	1"x1 1/4"	1
LF5100D11/4x11/4	618SB	1 1/4"x1 1/4"	1



LF6700 Series DUCTILE IRON LEAD FREE* Check Valve

- Ductile iron body - STEMMED
- Silicon bronze poppet and stainless steel spring and nut.
- Non toxic paint.
- For use with large submersible pumps.
- Made in U.S.A.

Part Number	Simmons	Size	Pipe	Ctn Qty
LF6700-1	653SB	1"	1 7/8"	1
LF6700-11/4	654SB	1 1/4"	2 5/16"	1
LF6700-11/2	655SB	1 1/2"	2 5/8"	1
LF6700-2	680SB	2"	3 1/4"	1
LF6700-3	670SB	3"	4 1/8"	1
LF6700-4	671SB	4"	5 5/8"	1
LF6700-8	673SB	8"	9 5/8"	1



LF7000 Series Silicone Bronze LEAD FREE* Pressure Regulator Valve

- Silicon bronze cast body.
- Adjustable bronze cylinder control
- For deep well pumps.
- Positive o-ring seat.
- PT series with pressure line tapping.
- Made in U.S.A.

Part Number	Simmons	Size	Line Tap	Ctn Qty
LF7000-3/4	730SB	3/4 x 3/4 x 3/4"	-	1
LF7000PT1	731SB	1 x 1 x 1"	1/8"	1

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NO LEAD Foot Valves - Simmons

- **FOR USE IN WATER WELL SYSTEMS**

* **Silicon bronze components contain less than 0.05% (1/20 of 1%) lead.**



5000S Series Silicone Bronze Foot Valve Features:

- Silicon bronze cast body and poppet.
- Stainless steel perforated screen.
- Specify LFN5000S 1-1/4 special valve for 2" ID casing.
- 400 PSI working pressure
- Made in U.S.A.

Part Number	Simmons	Size	Ctn Qty
LF5000S3/4	452SB	3/4"	60
LF5000S1	453SB	1"	60
LFN5000S11/4	404SB	1 1/4"	36
LF5000S11/4	455SB	1 1/4"	36
LFS5000S11/4	454SB	1 1/4"	36
LF5000S11/2	456SB	1 1/2"	24
LF5000S2	457SB	2"	12
LF5000S21/2	458SB	2 1/2"	1
LF5000S3	459SB	3"	1
LF5000S4	460SB	4"	1



LF4000 Series SILICON BRONZE Dual Purpose Foot Valve Features:

- Same as LF5000S Series plus:
- Dual purpose foot valve. Threaded inside and outside.
- Made in U.S.A.

Part Number	Simmons	Size (F x M)	Ctn Qty
LF4000-1 x 11/4	466SB	1" x 1 1/4"	1



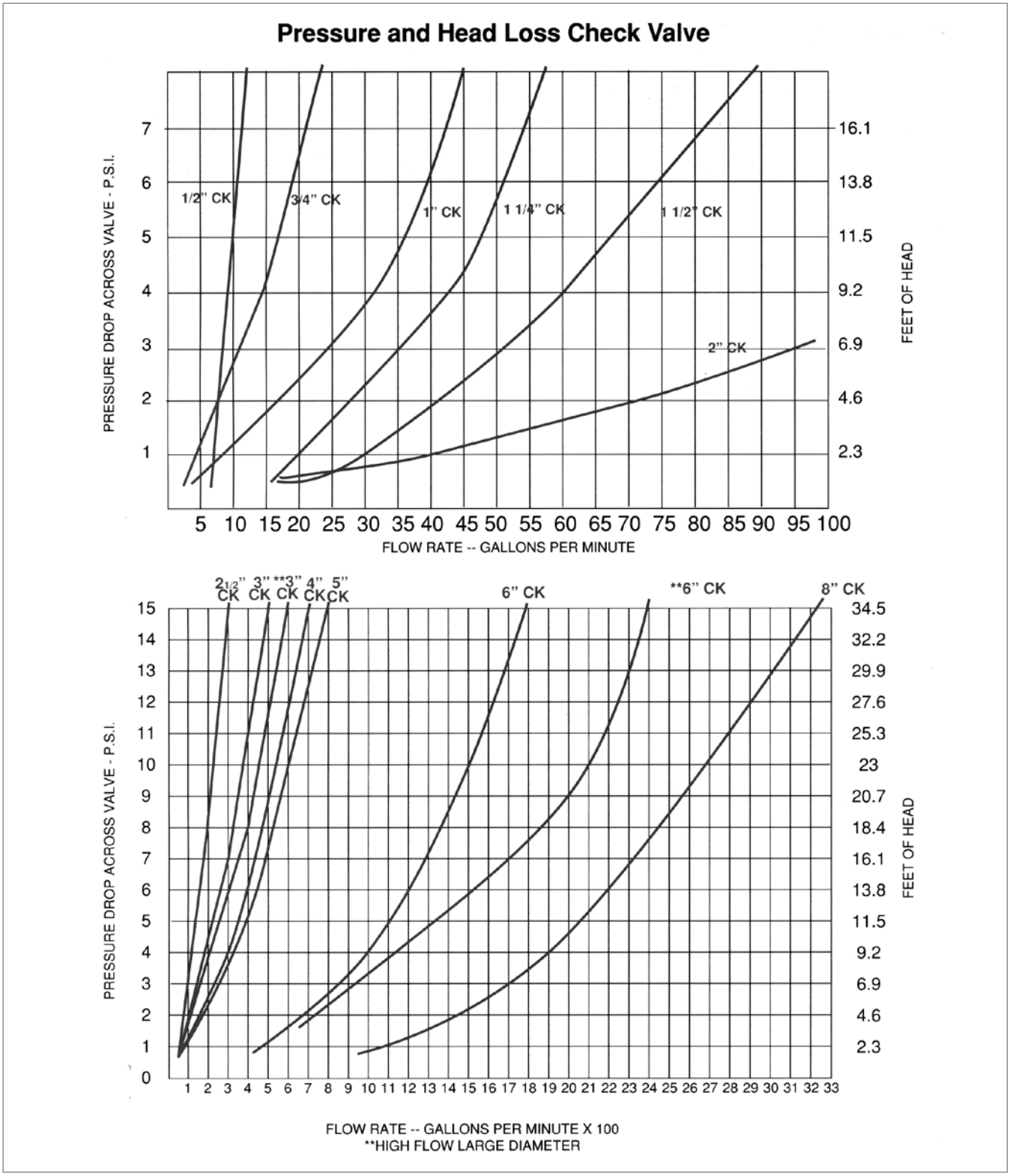
LF50S Series SILICON BRONZE Suction Strainer Features:

- Same as LF5000S Series plus:
- Full flow suction strainer.
- Made in U.S.A.

Part Number	Simmons	Size	Diameter	Length	Ctn Qty
LF50S11/4	492SB	1 1/4"	2 5/16"	5 1/4"	1
LF50S11/2	493SB	1 1/2"	2 1/2"	6 5/16"	1
LF50S2	494SB	2"	3 1/8"	7 3/16"	1
LF50S21/2	495SB	2-1/2"	4"	9 3/8"	1

Check Valves - LF5100 Series Pressure, Head Loss

Applies to all Simmons LF5100 Series check valves on previous pages



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Foot & Check - Plastic



FV441

HARVARD Four in One Plastic Foot Valve

- Positive sealing - spring loaded valve poppet closes against a smooth tapered seat.
- Corrosion resistant nylon body and internals.
- Self cleaning design for continuous positive sealing.
- Large screen designed to assure smooth water passage and better suction.
- Tapered screen eliminates pipe joint hang-ups during installation.
- Fits four pipe sizes., 3/4" through 1 1/2".
- **Third party certified to NSF/ANSI 372.**

Part Number	Size	Ctn Qty
FV441	3/4" through 1 1/2"	100



FV Series



LC Series



FV SN Series

Brady Plastic Foot & Check Valve Features:

- "Nose Cone" diffuser reduces friction.
- 50% greater water flow.
- Acetal copolymer construction.
- Non-electrolytic, non-corrosive.
- Spring loaded, 316 stainless steel
- BUNA-N seal
- Pressure max: 175 psi
- Temperature max: 180 F
- LC check valve, FPT x FPT
- **Third party certified to NSF/ANSI 372.**

Part Number	Size	Ctn Qty
Brady Foot Valve - Spring Loaded		
FV75	3/4"	125
FV100	1"	100
FV125	1-1/4"	50
FV150	1-1/2"	50
Brady Check Valve- Spring Loaded		
LC75	3/4"	24
LC100	1"	24
LC125	1-1/4"	24
LC150	1-1/2"	12
Brady Foot Valve Strainer		
FV75SN	3/4"	50
FV100SN	1"	50
FV125SN	1-1/4"	50
FV150SN	1-1/2"	50

Foot Valves - Cast Iron

CLAYTON MARK®

NO LEAD ✓ LEAD-FREE

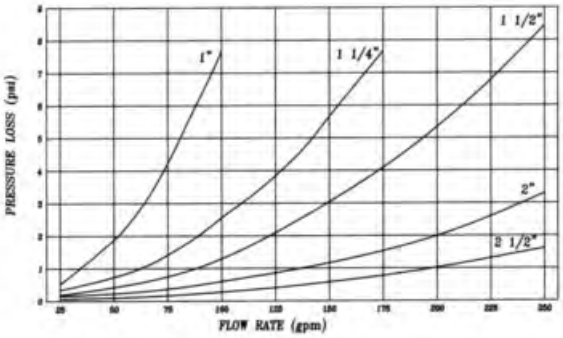
Cast Iron Foot Valve Features:

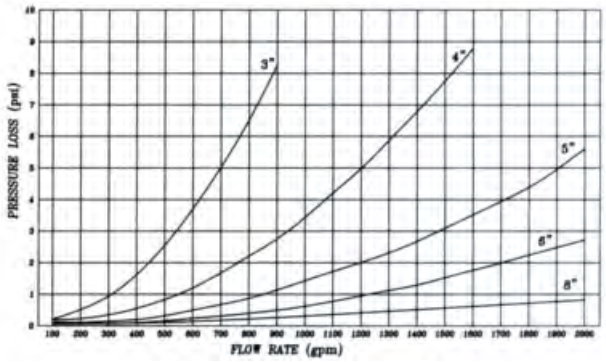
- Painted red finish.
- Includes NBR rubber flapper check to maintain prime.
- For use in drainage on construction sites, irrigation projects, pumping from ponds or streams.



5400 Series

Part Number	Valve Size	Flapper OD Size
5400-1	1"	2 1/2"
5400-11/4	1-1/4"	2 3/4"
5400-2	2"	4 1/4"
5400-21/2	2-1/2"	5"
5400-3	3"	5 3/4"
5400-4	4"	7"
5400-6	6"	10 1/8"
5400-8	8"	12 7/8"







5400-LR Series

NO LEAD ✓ LEAD-FREE

Replacement Leathers for 5400 Series Foot Valves

Valve Size	LEATHER FLAPPER ONLY Part No.	NEOPRENE FLAPPER ONLY Part No.
1"	5400-1LR	
1 1/4"	5400-11/4LR	
1 1/2"	5400-11/2LR	8367C
2"	5400-2LR	8367D
2 1/2"	5400-21/2LR	8367E
3"	5400-3LR	8367F
4"	5400-4LR	8367G
5"	5400-5LR	
6"	5400-6LR	8367J
8"	5400-8LR	8367K

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NO LEAD Yard Hydrants - Frost Proof



NO LEAD Series Frost Proof Yard Hydrant Features:

CLAYTON MARK®

Independent LAB tested flow rates 45 gpm @ 50 psi

- Fully frost proof, shut-off valve below frost line.
- Heavy cast iron head with 3/4" brass discharge connection and bucket hook. All weather **powder coated** finish.
- Can be padlocked.
- Heavy, galvanized steel, corrosion resistant, 1" stand-pipe.
- Galvanized carbon steel connecting rod. Stainless steel operating rod.
- Long lasting Buna-N rubber plunger with solid brass core.
- Integral valve seat cast into brass valve body. 3/4" FPT connection with double bypass bottom valve for superior flow, less risk of debris blockage.
- 1/8" FPT back drain hole.
- Rated to 80 PSI, adjustable. See page 2.18 for adjustment procedure.
- Packed securely in individual heavy weight carton.
- Independent lab tested.
- Lead Free. **Third party certified to NSF/ANSI 372.**

Part Number	Bury Depth	Overall Length	Weight (lbs)
54511NL	1	42"	12.4
54512NL	2	54"	15.2
54513NL	3	66"	17.8
54514NL	4	78"	21.0
54515NL	5	90"	22.3
54516NL	6	102"	26.2
54518NL	8	126"	30.7



HVBAD75NL

Part Number	Description	Ctn/Case Qty
NO LEAD Vacuum Breaker Meets ASSE 1011		
HVBAD75NL	3/4"NL Brass w/ auto back drain fght x mght	10/100



NLRBHE Series



NLRBHT Series



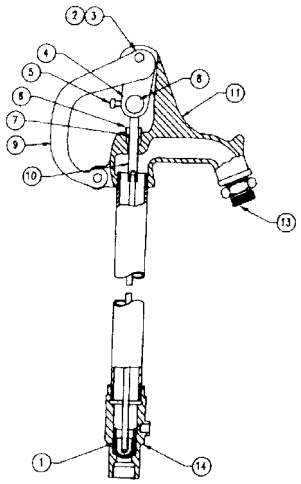
SSHE Series



SSHT Series

Part Number	Size	# Barbs	Ctn/Case Qty
No Lead Cast Bronze Hydrant Elbow (INSxMIP)			
NLRBHE3/4	3/4"x 3/4"	5	10/100
NLRBHE1X3/4	1" x 3/4"	5	10/100
NLRBHE1	1" x 1"	5	10/100
NLRBHE11/4	1 1/4" x 1 1/4"	5	5/50
No Lead Cast Bronze Extra Long Hydrant Elbow (INS x MIP)			
NLXLRBHE1	1"x 1"	8	10/100
NLXLRBHE1X3/4	1" x 3/4"	10	10/100
No Lead Cast Bronze Hydrant Tee (INS x MIP)			
NLRBHT3/4	3/4" x 3/4"	6	10/100
NLRBHT1x3/4	1" x 3/4"	6	10/100
NLRBHT1	1" x 1"	6	10/100
Stainless Steel Hydrant Elbow (INSxMIP)			
SSHE3/4	3/4"x 3/4"	5	10/100
SSHE1X3/4	1" x 3/4"	5	10/100
SSHE1	1" x 1"	6	10/100
SSHE11/4	1 1/4" x 1 1/4"	5	10/50
Stainless Steel Hydrant Tee (INS x MIP)			
SSHT3/4	3/4" x 3/4"	4	10/100
SSHT1x3/4	1" x 3/4"	6	10/100
SSHT1	1" x 1"	4	10/100

Yard Hydrants - Replacement Parts



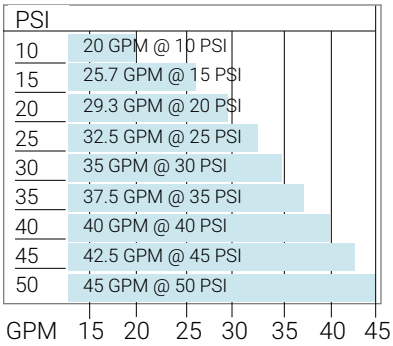
5451NL Series Hydrant Replacement Parts

Part Number	Item Number	Description
YRK1		Repair Kit (Items 1-8)
9175B	1	Plunger - BUNA N rubber/brass
9023B	2	Fulcrum Bolt - zinc plated steel
9023C	3	Fulcrum Nut - zinc plated steel
9023E	5	Set Screw square head - zinc plated steel
9023A	6	Packing Nut - brass
29609G	7	Packing - graphite (2 - 1 old, 1 new style)
9023G	8	Connector - brass
2506K	9	Handle - **powder coated** cast iron
2222AHSS	10	Clevis Rod - SS NEW STYLE (for double bypass)
2500K	11	Head only - painted cast iron
382914	13	Hose Adapter - brass
381504	14	Valve Body - brass
2575K		Complete Head Assembly (Items 2-13)

STEEL ROD (use with double bypass valve 5451 Series)

TA7100099NS	54511 Rod (32.4")
TA7100100NS	54512 Rod (44.4")
TA7100101NS	54513 Rod (56.4")
TA7100102NS	54514 Rod (68.4")
TA7100103NS	54515 Rod (80.4")
TA7100104NS	54516 Rod (92.4")
TA7100105NS	54518 Rod (116.4)

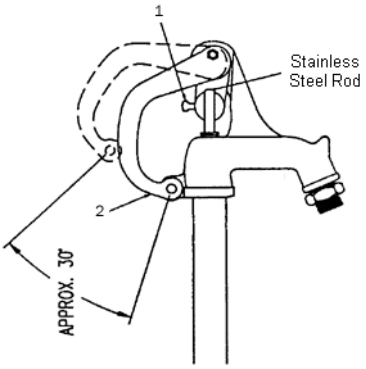
3/4" 5451NL Hydrant Flow Rates



NOTE: All 5451NL Series Hydrants are preset at factory.
There should be no need for any adjustment on initial installation.
Adjust only if water does not shut off or hydrant does not operate properly.

5451NL HYDRANT ADJUSTMENT PROCEDURE

1. Turn water supply OFF.
2. Open hydrant to relieve pressure.
3. Loosen set screw. (Item 1)
4. Push brass rod down as far as it will go by hand to be sure the plunger is touching seat.
5. Open handle (Item 2) approximately 30° from closed position.
6. Tighten set screw snugly.
7. Turn water supply ON.
8. Operate hydrant and make sure hydrant is shutting off properly and flowing properly.
9. **If hydrant still does not shut off, repeat steps 1 through 8.**
10. Flow water through hydrant and then close completely to check for proper drainage by
    a) listening for water draining down pipe or
    b) putting your hand over the hose connection to feel for a vacuum.
    If hydrant does not drain, see step 11.



11. To clear drain hole blockage, close off hydrant spout by using hose cap or by attaching and kinking a hose. Open and close hydrant to allow water pressure to clear blockage. Repeat step 10 to verify proper drainage. If hydrant still does not drain, repeat steps 1 through 10 to fully uncover drain hole.

CAUTION: Do not try to make the shutoff adjustment in one attempt or you may overadjust and cause damage to the plunger and rods. For this reason adjust in multiple small increments.

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NO LEAD Yard Hydrants - Frost Proof



NOT FOR SALE IN CALIFORNIA.
Does NOT meet CA Prop 65.

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Deluxe NO LEAD Frost Proof Yard Hydrant Features:

- FROST-PROOF Stainless steel shut-off valve operates below the frost line.
- Pistol type handle eliminates pinching.
- Can be padlocked.
- Wheel handle controls water flow at rate desired.
- Stainless steel extension rod will not rust or cut into packing.
- Water in standpipe drains out when hydrant is off.
- Aluminum nozzle threaded for standard 3/4" hose coupling.
- Inner parts removable without digging.
- 120 PSI maximum pressure.
- Individually boxed.

ALS NSF/ANSI/CAN 61-4 & 372

NL Series is Lead Free and certified to NSF/ANSI 372 <0.25% Pb by weighted average.

NO LEAD Part No.	Bury Depth	Pipe Length	Overall Length	Ctn Qty
H800NL	1 ft	30"	40"	1
H801NL	1.5 ft	38"	48"	1
H802NL	2 ft	44"	54"	1
H803NL	3 ft	56"	66"	1
H804NL	4 ft	68.5"	78.5"	1
H805NL	5 ft	80.5"	90.5"	1
H806NL	6 ft	92.25"	102.25"	1
H807NL	7 ft	104"	114"	1
H808NL	8 ft	116"	126"	1



HVBAD75NL

Part Number	Description	Ctn/Case Qty
NO LEAD Vacuum Breaker Meets ASSE 1011		
HVBAD75NL	3/4"NL Brass w/ auto back drain fght x mght	10/100



NLRBHE Series



NLRBHT Series



SSHE Series

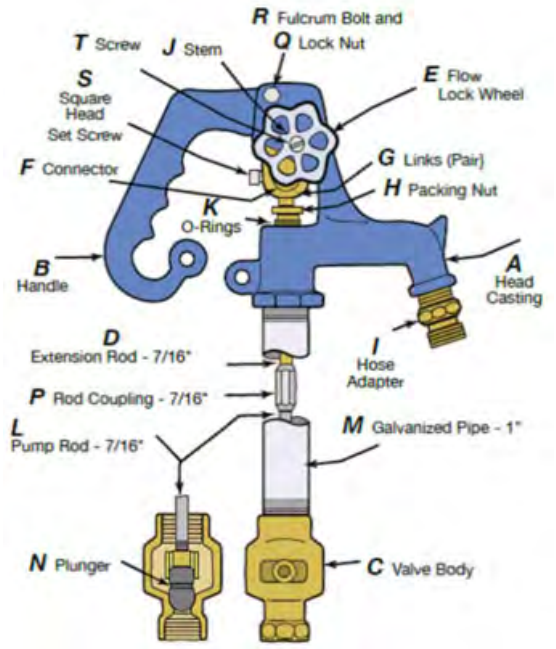


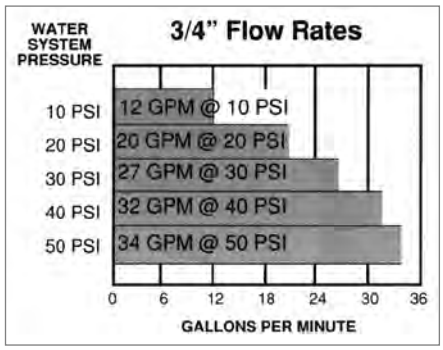
SSHT Series

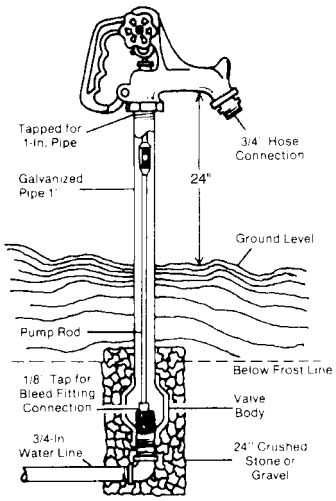
Part Number	Size	# Barbs	Ctn/Case Qty
No Lead Cast Bronze Hydrant Elbow (INSxMIP)			
NLRBHE3/4	3/4"x 3/4"	5	10/100
NLRBHE1X3/4	1" x 3/4"	5	10/100
NLRBHE1	1" x 1"	5	10/100
NLRBHE11/4	1 1/4" x 1 1/4"	5	5/50
No Lead Cast Bronze Extra Long Hydrant Elbow (INS x MIP)			
NLXLRBHE1	1"x 1"	8	10/100
NLXLRBHE1X3/4	1" x 3/4"	10	10/100
No Lead Cast Bronze Hydrant Tee (INS x MIP)			
NLRBHT3/4	3/4" x 3/4"	6	10/100
NLRBHT1x3/4	1" x 3/4"	6	10/100
NLRBHT1	1" x 1"	6	10/100
Stainless Steel Hydrant Elbow (INSxMIP)			
SSHE3/4	3/4"x 3/4"	5	10/100
SSHE1X3/4	1" x 3/4"	5	10/100
SSHE1	1" x 1"	6	10/100
SSHE11/4	1 1/4" x 1 1/4"	5	10/50
Stainless Steel Hydrant Tee (INS x MIP)			
SSHT3/4	3/4" x 3/4"	4	10/100
SSHT1x3/4	1" x 3/4"	6	10/100
SSHT1	1" x 1"	4	10/100

Yard Hydrants - Replacement Parts

Replacement Parts For H800 Series Hydrants







Part Number	Reference Number	Name of Part
8820	A	Head
8821	B	Handle
8822SB	C	Valve Body SS
8843	D	Stainless Steel Extension Rod 7/16"NL
8825 *	F	Connector - brass
8826 *	G	Links(pair) - brass
8827 *	H	Packing Nut - brass
8844	I	Aluminum Hose Adapter NL
8839 *	K	O-Ring Packing, BUNA-N (pair)
8814-0	L	7/16" Pump Rod for H800NL
8814-1		7/16" Pump Rod for H801NL
8814-2		7/16" Pump Rod for H802NL
8814-3		7/16" Pump Rod for H803NL
8814-4		7/16" Pump Rod for H804NL
8814-5		7/16" Pump Rod for H805NL
8814-6		7/16" Pump Rod for H806NL
8814-7		7/16" Pump Rod for H807NL
8814-8		7/16" Pump Rod for H808NL
8815-0	M	Pipe Casing for H800NL
8815-1		Pipe Casing for H801NL
8815-2		Pipe Casing for H802NL
8815-3		Pipe Casing for H803NL
8815-4		Pipe Casing for H804NL
8815-5		Pipe Casing for H805NL
8842 *	N	Plunger - one piece NL
8834	P	Rod Coupling, 7/16"
8301 *	Q	Lock Nut - stainless steel
8836 *	R	Fulcrum Bolt - stainelss steel
8837 *	S	Square Head Set Screw - stainless steel
840SB		Head, Complete NL
850SB		Parts Kit NL (* Included)

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PLUMBING VALVES



Ball Valves - NL Brass, Stainless Steel, Brass 1-6, 9
Ball Valves - PVC & CPVC Molded-in-Place 17-20
Ball Valves - PVC Single Union 21-22
Ball Valves - PVC True Union 23-24
Butterfly Valves, Flanges, Bolt Kits, Gaskets, Installation Kits . .27-31
Float Valves, Bronze 10
Gate Valves 11
Plumbing Valves - Low Pressure NL Brass, Brass 13-16
Slice Gate Valves 25-26
Supply Valves 7
Swing Check Valves 12
Wall Hydrants 32

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Ball Valves - NO LEAD Brass



HFBV6-NL Series

NO LEAD Forged Brass Full Port Ball Valve Features:

- Heavy pattern NO LEAD forged brass construction.
- Full port allows maximum flow & minimum pressure drop or turbulence.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow out proof stem design.
- **600 PSI** W.O.G. non-shock; **150 PSI** S.W.P.
- **CSA Certified (TXT only)**
- **Third party certified to NSF/ANSI 61 & 372.**

MATERIAL SPECIFICATIONS	
Handle nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Gland Follower	NL Forged Brass
Stem Packing	PTFE
Ball	Chrome Plated NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

Part Number Threaded	Part Number Sweat	Size	Ctn/Case Qty
HFBV6-25TNL		1/4"	15/120
HFBV6-38TNL		3/8"	15/120
HFBV6-50TNL	HFBV6-50SNL	1/2"	15/120
HFBV6-75TNL	HFBV6-75SNL	3/4"	10/60
HFBV6-100TNL	HFBV6-100SNL	1"	8/48
HFBV6-125TNL	HFBV6-125SNL	1 1/4"	4/24
HFBV6-150TNL	HFBF6-150SNL	1 1/2"	2/24
HFBV6-200TNL	HFBV6-200SNL	2"	2/12
HFBV6-250TNL		2 1/2"	3/6
HFBV6-300TNL		3"	2/4
HFBV6-400TNL		4"	1/2



HFBV4-PEXNL Series

NO LEAD Forged Brass FULL Port Ball Valve with PEX Connections Features:

- Heavy pattern, full port, forged NO LEAD brass constuction.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE packing.
- Blow-out proof stem design.
- **400 PSI** W.O.G**.** non-shock; **125 PSI** S.W.P.
- PEX ends for use with PEX tubing connections.
- **Third party certified to NSF/ANSI 61 & 372.**

MATERIAL SPECIFICATIONS	
Handle Nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Packing	PTFE
Packing Nut	Brass
Ball	Chrome Plated NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

Part Number	Size	Ctn/Case Qty
HFBV4-50PEXNL	1/2"	25/100
HFBV4-75PEXNL	3/4"	10/60
HFBV4-100PEXNL	1"	10/40

Ball Valves - NO LEAD Brass



HFBV4-PEXDNL Series

MATERIAL SPECIFICATIONS	
Handle Nut	Stainless Steel
Handle	Zinc Coated Steel
Packing	PTFE
Ball	CP NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass FULL Port Ball Valve with PEX Connections and DRAIN Features:

- Heavy pattern, full port, forged NO LEAD brass constuction.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE packing.
- Blow-out proof stem design.
- **400 PSI** W.O.G**.** non-shock; **125 PSI** S.W.P.
- PEX ends for use with PEX tubing connections.
- Drain cap.
- **Third party certified to NSF/ANSI 61 & 372.**

Part Number	Size	Ctn/Case Qty
HFBV4-50PEXDNL	1/2"	10/100
HFBV4-75PEXDNL	3/4"	10/100
HFBV4-100PEXDNL	1"	10/80
HFBV4PEXDNL CAP	5/16"-24UNF	1



HFBV4-PEXSWNL Series

MATERIAL SPECIFICATIONS	
Handle Nut	ZInc Coated Steel
Handle	Zinc Coated Steel
Stem O-ring (2)	NBR
Ball	NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass STANDARD Port Ball Valve with PEX x SWEAT Connections Features:

- Heavy pattern, standard port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- NBR double o-ring stem seal.
- Blow-out proof stem design.
- **400 PSI** W.O.G**.** non-shock; **125 PSI** S.W.P.
- PEX x SWEAT ends for use with PEX tubing to copper tubing connections.
- **Third party certified to NSF/ANSI 61 & 372.**

Part Number	Size	Ctn/Case Qty
HFBV4-50PEXSWNL	1/2"	25/100
HFBV4-75PEXSWNL	3/4"	10/60



HFBV4-CENL Series

MATERIAL SPECIFICATIONS	
Handle Nut	ZInc Coated Steel
Handle	Zinc Coated Steel
Stem O-ring (2)	NBR
Ball	NL Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass FULL Port Ball Valves with F1960 Cold Expansion Connections Features:

- Heavy pattern, full port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- NBR double o-ring stem seal.
- Blow-out proof stem design.
- **400 PSI** W.O.G**.** non-shock; **125 PSI** S.W.P.
- F1960 Cold Expansion ends for use with PEX tubing connections.
- **Third party certified to NSF/ANSI 61 & 372.**

Part Number	Size	Ctn/Case Qty
HFBV4-50CENL	1/2"	25/100
HFBV4-75CENL	3/4"	10/60
HFBV4-100CENL	1"	10/40

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Ball Valves - NO LEAD Brass



HFBV6-INL Series

MATERIAL SPECIFICATIONS	
Handle	Zinc Plated Steel
Handle Nut	Zinc Plated Steel
Stem Packing	PTFE
Packing Nut	Brass
Ball	1/2"-1" Lead Free Brass 1 1/4" SS #316
Seats	PTFE
Body	NL Brass
End Adapter	NL Brass

NO LEAD Forged Brass FULL Port Ball Valve with HOSE BARBS for Poly Pipe Connection Features:

- Heavy pattern, full port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow-out proof stem design.
- **600 PSI** W.O.G**.** non-shock; **150 PSI** S.W.P.
- Insert hose barb ends for use with **polyethylene pipe** connections.
- **Third party certified to NSF/ANSI 61 & 372.**

Part Number	Size	Ctn/Case Qty
HFBV6-50INL	1/2"	50/80
HFBV6-75INL	3/4"	6/60
HFBV6-100INL	1"	6/36



HFBV6-IFTNL Series

MATERIAL SPECIFICATIONS	
Handle	Zinc Plated Steel
Handle Nut	Zinc Plated Steel
Stem Packing	PTFE
Packing Nut	Brass
Ball	3/4"-1" Lead Free Brass 1 1/4" SS #316
Seats	PTFE
Body	NL Brass
End Adapter	NL Brass

NO LEAD Forged Brass FULL Port Ball Valve with HOSE BARB for Poly Pipe x FPT Connection Features:

- Heavy pattern, full port, forged NO LEAD brass construction.
- PTFE seats, chrome plated NO LEAD brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow-out proof stem design.
- **600 PSI** W.O.G**.** non-shock; **150 PSI** S.W.P.
- Insert hose barb x FPT ends for use with **polyethylene pipe** and IPS connections.
- **Third party certified to NSF/ANSI 61 & 372.**

Part Number	Size	Ctn/Case Qty
HFBV6-75IFTNL	3/4"	6/60
HFBV6-100IFTNL	1"	6/36
HFBV6-125IFTNL	1 1/4"	5/20



BPBVNL

MATERIAL SPECIFICATIONS	
Handle	Zinc Coated Steel
Handle Nut	Stainless Steel
Packing	PTFE
Packing Nut	Brass
Ball	Chrome Plated Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forges Brass Full Port Ball Valve with PUSH FIT Connection Features:

- Heavy pattern, full port, forges NO LEAD Brass construction.
- PTFE seat, shrome plated NO LEAD brass ball.
- PTFE packing.
- **200 psi, 125 psi S.W.P.**
- Push connect ends for use with copper tubing or PEX/PERT tubing connections.
- **Third party Certified lead free to NSF/ANSI 61& 372.**

Part Number	Size	Ctn Qty
Brass Push Ball Valve	**FIT x FIT**	
BPBV1/2NL	1/2X1/2	10/40
BPBV3/4NL	3/4X3/4	7/28
BPBV1NL	1X1	5/20

Ball Valves - NO LEAD Brass

Press End Connections ball valve features:

- Press end connections eliminate the need for soldering, reducing labor and material costs.
- Press end connections are designed for installation onto ASTMB88 types K, L and M hard-drawn copper tubing 1/2" - 4" and soft copper tubing 1/2" - 1 1/4"
- Use with Rigid, Milwaukee, Dewalt and Rothenburger tools.



HFBV25-PRSNL Series

MATERIAL SPECIFICATIONS	
Handle Nut	Plated Steel
Handle	Plated Steel
Packing	PTFE
Ball	Stainless Steel 304
Seats	PTFE
Body	Lead Free Brass
Stem	Brass 1/2-2"
	Stainless Steel 21/2-4"
Stem O-ring	BUNA-N
Press O-ring	EPDM

NO LEAD Brass Press End Ball Valve Features:

NEW

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

LOW LEAD

- Dezincification resistant brass.
- Gland follower and single o-ring stem design.
- Blow out proof stem.
- 250 psi WOG/CWP, Max Temp 250ºF
- **Third party certified to NSF/ANSI 61&372.**

Part Number	Size	Ctn/Case Qty
HFBV25-50PRSNL	1/2"	10/100
HFBV25-75PRSNL	3/4"	10/60
HFBV25-100PRSNL	1"	8/40
HFBV25-125PRSNL	1 1/4"	4/36
HFBV25-150PRSNL	1 1/2"	2/16
HFBV25-200PRSNL	2"	2/12
HFBV25-250PRSNL	2 1/2"	1/6
HFBV25-300PRSNL	3"	1/4
HFBV25-400PRSNL	4"	1/2



HFBV25-PRSDNL Series

MATERIAL SPECIFICATIONS	
Handle Nut	Plated Steel
Handle	Plated Steel
Packing	PTFE
Ball	Stainless Steel 304
Seats	PTFE
Body	Lead Free Brass
Stem	Brass 1/2-2"
Stem O-ring	BUNA-N
Press O-ring	EPDM

NO LEAD Brass Press End Ball Valve with DRAIN Features:

NEW

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

LOW LEAD

- Dezincification resistant brass.
- Gland follower and single o-ring stem design.
- Blow out proof stem.
- 250 psi WOG, Max Temp 250ºF
- **Third party certified to NSF/ANSI 61&372.**

Part Number	Size	Ctn/Case Qty
HFBV25-50PRSDNL	1/2"	10/100
HFBV25-75PRSDNL	3/4"	10/100
HFBV25-100PRSDNL	1"	8/40
HFBV25PRSDNL CAP	5/16"-24UNF	100/500

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Ball Valves - NO LEAD Brass



HFBV25-PRSXPEXNL Series

MATERIAL SPECIFICATIONS	
Handle Nut	Plated Steel
Handle	Plated Steel
Packing	PTFE
Ball	Stainless Steel 304
Seats	PTFE
Body	Lead Free Brass
Stem	Brass 1/2-2"
Stem O-ring	BUNA-N
Press O-ring	EPDM

NO LEAD Brass Press x PEX End Ball Valve Features:

NEW

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

LOW LEAD

- Dezincification resistant brass.
- Gland follower and single o-ring stem design.
- Blow out proof stem.
- 250 psi WOG, Max Temp 250ºF
- **Third party certified to NSF/ANSI 61&372.**

Part Number	Size	Ctn/Case Qty
HFBV25-50PRSXPEXNL	1/2"	10/100
HFBV25-75PRSXPEXNL	3/4"	10/60
HFBV25-100PRSXPEXNL	1"	8/40



HFBV25-PRSXCENL Series

MATERIAL SPECIFICATIONS	
Handle Nut	Plated Steel
Handle	Plated Steel
Packing	PTFE
Ball	Stainless Steel 304
Seats	PTFE
Body	Lead Free Brass
Stem	Brass 1/2-2"
Stem O-ring	BUNA-N
Press O-ring	EPDM

NO LEAD Brass Press x F1960 Cold Expansion End Ball Valve Features:

NEW

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

LOW LEAD

- Dezincification resistant brass.
- Gland follower and single o-ring stem design.
- Blow out proof stem.
- 250 psi WOG, Max Temp 250ºF
- **Third party certified to NSF/ANSI 61&372.**

Part Number	Size	Ctn/Case Qty
HFBV25-50PRSXCENL	1/2"	10/100
HFBV25-75PRSXCENL	3/4"	10/60
HFBV25-100PRSXCENL	1"	8/40

Ball Valves - Stainless Steel



SSBV Series

MATERIAL SPECIFICATIONS	
Handle Nut	Stainless Steel
Handle	Stainless Steel
Gland Follower	Stainless Steel
Stem Packing	PTFE
Packing Nut	Stainless Steel
Ball	Stainless Steel
Seats	PTFE
Body	Stainless Steel
End Adapter	Stainless Steel
Seal Gasket	PTFE

Stainless Steel Full Port Ball Valve Features:

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

- 304 Stainless steel ball valves
- Full Port, 1000 psi WOG
- Locking Handle (padlock not included)
- Investment castings.
- PTFE seal and packing.
- Blow-out proof stem.
- FPT x FPT
- **Third party certified no lead to NSF/ANSI 372.**

Part Number	Description	Size T x T	Case Qty
SSBV25TLH	Stainless 1000#	1/4"	2/80
SSBV38TLH	Stainless 1000#	3/8"	2/80
SSBV50TLH	Stainless 1000#	1/2"	4/80
SSBV75TLH	Stainless 1000#	3/4"	4/60
SSBV100TLH	Stainless 1000#	1"	4/40
SSBV125TLH	Stainless 1000#	1 1/4"	4/20
SSBV150TLH	Stainless 1000#	1 1/2"	2/12
SSBV200TLH	Stainless 1000#	2"	2/8
SSBV250TLH	Stainless 1000#	2 1/2"	2/4
SSBV300TLH	Stainless 1000#	3"	2/4
SSBV400TLH	Stainless 1000#	4"	2/4



SSBV Series

Stainless Steel Ball Valve with PEX connections Features:

NEW

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

LEAD FREE NSF/ANSI 61 IAPMO R&T

- 304 Stainless steel ball valves
- Investment casting
- 304 Stainless steel body, ball, stem and handle
- PTFE stem seal, NBR packing.
- PEX x PEX ends
- 600 psi CWP
- Temperature Range: -40°F to 200°F
- cUPC certified
- **Third party certified no lead to NSF/ANSI 61 & 372.**

Part Number	Description	Size	Case Qty
SSBV50PEX	**Stainless 600#**	**1/2"**	**20/120**
SSBV75PEX	**Stainless 600#**	**3/4"**	**10/100**
SSBV100PEX	**Stainless 600#**	**1"**	**10/60**

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Supply Valves - NO LEAD Chrome Plated Brass

NO LEAD Brass Chrome Plated Supply Valve with PEX, PUSH FIT and F1960 COLD EXPANSION Connections

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

LOW LEAD

Features:

- Chrome Plated No Lead DZR Brass.
- 1/4 Turn ABS Oval Handle.
- For use with PEX, Push Fit and Cold Expansion tubing connections.
- Maximum pressure rating: 125 psi
- Maximum temperature rating: 180°F (82°C)
- Stem Packing: Double NBR o-ring.
- Seat Material: PTFE
- **Third party certified to NSF/ANSI 61&372.**



PEX Angle Valve



PEX Straight Valve



CE Angle Valve



CE Straight Valve



PUSH Angle Valve



PUSH Straight Valve

Part Number	Size Description	Inner/Ctn Qty
PEX Insert x Compression		
ANGLE STOP Valve	**PEX Insert x Compression**	
CPSVA1/2PX1/4CNL	1/2 x 1/4 Angle Stop Ch Plated NL	12/144
CPSVA1/2PX3/8CNL	1/2 x 3/8 Angle Stop Ch Plated NL	12/144
STRAIGHT STOP Valve	**PEX Insert x Compression**	
CPSVS1/2PX3/8CNL	1/2 x 3/8 Straight Stop Ch Plated NL	12/144
F1960 Cold Expansion Insert x Compression		
ANGLE STOP Valve	**F1960 Cold Expansion Insert x Compression**	
CPSVA1/2CEX1/4CNL	1/2 x 1/4 Angle Stop Ch Plated NL	12/144
CPSVA1/2CEX3/8CNL	1/2 x 3/8 Angle Stop Ch Plated NL	12/144
STRAIGHT STOP Valve	**F1960 Cold Expansion Insert x Compression**	
CPSVS1/2CEX3/8CNL	1/2 x 3/8 Straight Stop Ch Plated NL	12/144
PUSH FIT x Compression		
ANGLE STOP Valve	**PUSH FIT x Compression**	
CPSVA1/2PFX1/4CNL	1/2 x 1/4 Angle Stop Ch Plated NL	10/100
CPSVA1/2PFX3/8CNL	1/2 x 3/8 Angle Stop Ch Plated NL	10/100
STRAIGHT STOP Valve	**PUSH FIT x Compression**	
CPSVS1/2PFX3/8CNL	1/2 x 3/8 Straight Stop Ch Plated NL	10/100

NEW

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Ball Valves - NON POTABLE Brass



HFBV6 Series

Forged NON POTABLE Brass Full Port Ball Valve Features:

- Heavy pattern forged leaded brass construction.
- Full port allows maximum flow & minimum pressure drop or turbulence.
- PTFE seats, chrome plated brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow out proof stem design.
- **600 PSI** W.O.G. non-shock; **150 PSI** S.W.P. (400 PSI 21/2", 3" 4")
- **CSA Certified (TxT only), UL Listed.**

CAUTION DO NOT USE WITH POTABLE WATER

MATERIAL SPECIFICATIONS	
Handle nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Gland Follower	Forged Brass
Stem Packing	PTFE
Ball	Chrome Plated Brass
Seats	PTFE
Body	Forged Brass
End Adapter	Forged Brass

Part Number Threaded	Part Number Sweat	Size	Ctn/Case Qty
HFBV6-25T		1/4"	50/100
HFBV6-38T		3/8"	50/100
HFBV6-50T	HFBV6-50S	1/2"	50/100
HFBV6-75T	HFBV6-75S	3/4"	30/60
HFBV6-100T	HFBV6-100S	1"	20/40
HFBV6-125T	HFBV6-125S	1- 1/4"	12/24
HFBV6-150T	HFBF6-150S	1-1/2"	9/18
HFBV6-200T	HFBV6-200S	2"	6/12
HFBV6-250T		2-1/2"	3/6
HFBV6-300T		3"	2/4
HFBV6-400T		4"	2



HFBV6-I Series

Forged NON POTABLE Brass FULL Port Ball Valve with Hose Barbs Features:

- Heavy pattern, full port, forged leaded brass constuction.
- PTFE seats, chrome plated brass ball.
- PTFE stem packing with adjustable gland follower.
- Blow-out proof stem design.
- **600 psi W.O.G.** non-shock; **150 psi S.W.P.**
- Insert hose barb ends for use with polyethylene pipe connections.

CAUTION DO NOT USE WITH POTABLE WATER

MATERIAL SPECIFICATIONS	
Handle nut	Zinc Coated Steel
Handle	Zinc Coated Steel
Gland Follower	Forged Brass
Stem Packing	PTFE
Ball	Chrome Plated Brass
Seats	PTFE
Body	Forged Brass
End Adapter	Forged Brass

Part Number	Size	Ctn/Case Qty
HFBV6-50I	1/2"	50/100
HFBV6-75I	3/4"	30/60
HFBV6-100I	1"	20/40
HFBV6-125I	1-1/4"	12/24



HGBVL Series

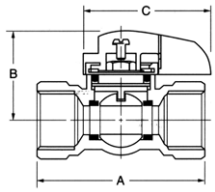
ISO 9001

Forged Brass Gas Ball Valve Features:

- Heavy duty two piece forged brass body.
- For use with natural, manufactured, mixed, liquified petroleum and LP gas/air mixtures.
- Meets ANSI standard Z21.15 for use as a gas appliance connector valve (1/2 lb. system). CSA, US/AGA B-16.44
- Pressure rated at 175 psi W.O.G. non-shock.
- Imported, Mfg for American Granby in an ISO 9001 facility.

CAUTION DO NOT USE WITH POTABLE WATER

MATERIAL SPECIFICATIONS	
Handle Screw	Steel
Handle	Aluminum
Stem O-Rings	NBR
Stem	Forged Brass
Ball	Chrome Plated Brass
Seats	PTFE
Body	Forged Brass
End Adapter	Forged Brass



DIMENSIONS (IN.) SIZE	A	B	C	BTU Capacity/Hr.
1/2"	2.21	1.46	1.81	295,000
3/4"	2.38	1.75	1.81	795,000
1"	2.91	1.89	1.81	1,200,000

Part Number	Size t x t	Ctn/Case Qty
HGBVL50T	1/2"	12/144
HGBVL75T	3/4"	12/96
HGBVL100T	1"	6/96

Float Valves - NO LEAD





NO LEAD Brass Float Valve Features:

- NO LEAD Brass or Bronze* body
- Heavy Duty
- NBR rubber seals
- Threaded outlet up to 1". Plain over 1"
- Tapped for 1/4"-20SAE rod up to 1"
- Tapped for 3/8"-16UNC rod over 1"
- Rated at 125 psi
- **Third party certified to NSF61/ANSI 372.**

* Bronze body third party certified to NSF/ANSI 372

NEW SIZES

Part Number	Size	Inlet	Outlet	Tapped	Ctn Qty
BFVNL3/8	**3/8"**	**3/8" mpt**	**3/8" mpt**	**1/4"-20UNC**	**10/100**
BFVNL1/2	1/2"	1/2" mpt	1/2" mpt	1/4"-20UNC	10/100
BFVNL3/4	3/4"	3/4" mpt	3/4" mpt	1/4"-20UNC	10/80
BFVNL1 *	1"	1" mpt	1" mpt	1/4"-20UNC	10/40
BFVNL11/4	**1 1/4"**	**1 1/4" fpt**	**plain**	**3/8"-16UNC**	**2/20**
BFVNL11/2	**1 1/2"**	**1 1/2" fpt**	**plain**	**3/8"-16UNC**	**2/16**
BFVNL2	**2"**	**2" fpt**	**plain**	**3/8"-16UNC**	**2/12**

BFVR Series

Stainless Steel Rods Features:

- Stainless Steel 304 SAE
- Male thread both ends
- **Third party certified to NSF/ANSI 372.**

Part Number	Length	Thread	Fits Valve Size	Ctn Qty
BFVR8	8"	1/4"-20SAE	1/2" - 1"	50/400
BFVR10	10"	1/4"-20SAE	1/2" - 1"	50/300
BFVR10-3/8	**10"**	**3/8"-16UNC**	**1 1/4" - 2"**	**50/100**
BFVR12	12"	1/4"-20SAE	1/2" - 1"	50/300
BFVR12-3/8	**12"**	**3/8"-16UNC**	**1 1/4" - 2"**	**50/100**
BFVR14-3/8	**14"**	**3/8"-16UNC**	**1 1/4" - 2"**	**40/80**
BFVR16-3/8	**16"**	**3/8"-16UNC**	**1 1/4" - 2"**	**40/80**



BFVFP Series

Plastic Float Features:

- Corrosion resistant HDPE.
- Lightweight
- Up to 175°F
- For open tank service only
- NO LEAD brass threaded connection.
- **Third party certified to NSF/ANSI 372.**

Part Number	Float Diam.	Buoyancy	Female Connection	Ctn Qty
BFVFPNL5	5"	1.93 lbs.	1/4"-20SAE	100
BFVFPNL6	6"	3.03 lbs.	1/4"-20SAE	100
BFVFPNL8	8"	8.54 lbs.	1/4"-20SAE	20
BFVFPNL8-3/8	**8"**	**8.54 lbs.**	**3/8"-16UNC**	**20**
BFVFPNL10-3/8	**10"**	**16.26 lbs.**	**3/8"-16UNC**	**8**

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GV200 Series

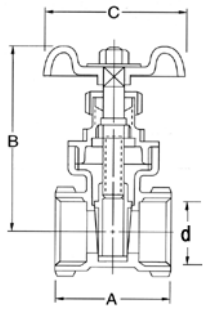
GV200 Series Forged NON POTABLE Brass Gate Valve

CAUTION
DO NOT USE WITH POTABLE WATER

Features:

- Constructed of heavy duty forged non potable brass.
- **Die-cast** body, **forged** bonnet are connected with a PTFE body to bonnet gasket for a leak proof seat.
- Screwed bonnet, non-rising stem, solid wedge disc and integral seats.
- Graphite stem seal packing.
- Cast iron hand wheel
- Rated at **200 PSI WOG; 125 PSI SWP** (working pressure, non shock)
- Threaded ends produced to ANSI/ASME B1.20.1 (NPT) standards.
- Sweat ends produced to ANSI B16.18-1984 standards
- Imported

MATERIAL SPECIFICATIONS	
Wheel Nut	Stainless Steel
Hand Wheel	Gray Iron
Packing Nut	Brass
Gland Follower	Brass
Stem Seal Packing	Graphite
Bonnet	Brass
Body-Bonnet Gasket	PTFE
Lock Nut	Brass
Stem	Brass
Disc	Brass
Body	Brass



DIMENSIONS (IN.) SIZE	A (IPS)	A (CxC)	B (IPS)	B (CxC)	C	d
1/2"	1.68	1.76	2.80	2.79	2.17	.51
3/4"	1.76	2.34	2.99	3.10	2.17	.67
1"	1.97	2.69	3.45	3.63	2.36	.83
1 1/4"	2.30	3.01	4.06	4.37	2.84	1.07
1 1/2"	2.46	3.36	4.47	4.96	2.84	1.34
2"	2.69	3.98	5.26	6.13	3.15	1.77
2 1/2"	3.43		6.44		3.94	2.21
3"	3.71		7.48		4.33	2.68
4"	4.45		9.25		5.12	3.55

Threaded Part Number	Sweat Part Number	Size	Ctn/Case Qty
GV200-50T		1/2"	10 / 100
	GV200-50S	1/2"	10 / 100
GV200-75T		3/4"	10 / 100
	GV200-75S	3/4"	10 / 100
GV200-100T		1"	5 / 50
	GV200-100S	1"	5 / 50
GV200-125T		1 1/4"	5 / 50
	GV200-125S	1 1/4"	5 / 50
GV200-150T		1 1/2"	2 / 30
	GV200-150S	1 1/2"	2 / 30
GV200-200T		2"	2 / 20
	GV200-200S	2"	2 / 20
GV200-250T		2 1/2"	1 / 10
GV200-300T		3"	1 / 10
GV200-400T		4"	1 / 4

Valves - Swing Check



NO LEAD Brass and NON POTABLE Brass Swing Check Valve Features:

- Constructed of heavy duty cast NO LEAD brass or non potable brass.
- Screwed cap, swing type disc and integral seat.
- Prevents backflow while offering full flow performance with a minimum of turbulence or pressure loss.
- Rated **200 PSI W.O.G**. (working pressure non-shock)
- NO LEAD Brass swing check valves third party certified to NSF/ANSI 61&372.
- Manufactured for American Granby in an ISO 9001 factory.

ISO 9001

DIMENSIONS (IN.)	BRASS				NO LEAD BRASS			
SIZE	A (TxT)	A (CxC)	B (TxT)	B (CxC)	A (TxT)	A (CxC)	B (TxT)	B (CxC)
1/2"	2.05	2.05	1.47	1.49	2.09	2.40	1.42	1.40
3/4"	2.32	2.32	1.58	1.58	2.36	3.15	1.56	1.52
1"	2.56	2.56	1.68	1.68	2.62	3.50	1.77	1.73
1 1/4"	3.12	3.12	1.84	1.84	3.19	4.15	2.07	2.07
1 1/2"	3.45	3.45	2.15	2.15	3.54	4.57	2.17	2.13
2"	4.16	4.16	2.69	2.69	4.21	5.47	2.74	2.68
2 1/2"	5.11		2.93		5.14		3.09	
3"	5.74		3.78		5.77		3.80	
4"	6.79		3.90		6.84		4.25	

Brass - NO LEAD

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

ALS NSF/ANSI/CAN 61-4 & 372

MATERIAL SPECIFICATIONS	
Cap	No Lead Brass
Body	No Lead Brass
Disc	No Lead Brass
Hinge Pin	No Lead Brass
Screw	No Lead Brass

NL Threaded Part Number	NL Sweat Part Number	Size	Ctn/Case Qty
HSCV50TNL		1/2"	12/120
	HSCV50SNL	1/2"	12/120
HSCV75TNL		3/4"	10/80
	HSCV75SNL	3/4"	10/80
HSCV100TNL		1"	5/60
	HSCV100SNL	1"	5/60
HSCV125TNL		1-1/4"	5/40
	HSCV125SNL	1-1/4"	5/40
HSCV150TNL		1-1/2"	5/30
	HSCV150SNL	1-1/2"	5/30
HSCV200TNL		2"	2/24
	HSCV200SNL	2"	2/24
HSCV250TNL		2-1/2"	1/15
HSCV300TNL		3"	1/6
HSCV400TNL		4"	1/4

Brass - Non Potable

CAUTION DO NOT USE WITH POTABLE WATER

MATERIAL SPECIFICATIONS	
Cap	Brass
Body	Brass
Disc	Brass
Hinge Pin	Brass
Screw	Brass

Threaded Part Number	Sweat Part Number	Size	Ctn/Case Qty
HSCV50T		1/2"	10/120
	HSCV50S	1/2"	10/120
HSCV75T		3/4"	10/80
	HSCV75S	3/4"	10/80
HSCV100T		1"	5/60
	HSCV100S	1"	5/60
HSCV125T		1-1/4"	5/40
	HSCV125S	1-1/4"	5/40
HSCV150T		1-1/2"	5/30
	HSCV150S	1-1/2"	5/30
HSCV200T		2"	2/24
	HSCV200S	2"	2/24
HSCV250T		2-1/2"	1/15
HSCV300T		3"	1/10
HSCV400T		4"	1/6

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BOILER DRAINS • HOSE BIBBS

- 125 PSI WOG (working pressure - non-shock), 200 PSI WOG (1/4 turn ball valve hose bibbs)
- All valves shown are UPC rated and third party certified to NSF/ANSI 372.
- Imported



HNKDNL Series



HBDNL Series



HBD-SBNL Series



EIBD-SBNL Series



IBD-SBNL Series



IBDBVNL Series

Part Number	Size	Description	Ctn/Case Qty
NO LEAD Brass No-Kink Boiler Drains			
HNKD50NL ☺	1/2"	mip x ght	12/144
HNKD75NL	3/4"	mip x ght	12/144
NO LEAD Brass Boiler Drains			
HBD50NL ☺	1/2"	mip x ght	12/144
HBD75NL	3/4"	mip x ght	12/144
HBD50SBNL ☺	1/2	w/ stuffing box mip x ght	12/144
HBD75SBNL	3/4"	w/ stuffing boxmip x ght	12/144
NO LEAD Brass Full Flow Boiler Drains - ECONOMY			
EIBD50SBNL ☺	1/2"	w/ stuffing box mip x ght	12/144
EIBD75SBNL	3/4"	w/ stuffing box mip x ght	12/144
NO LEAD Brass Full Flow Boiler Drains			
IBD50SBNL ☺	1/2"	w/ stuffing box mip x ght	12/144
IBD75SBNL	3/4"	w/ stuffing box mip x ght	12/144
NO LEAD 1/4 turn Ball Valve Brass Boiler Drain w/ Butterfly Handle			
IBDBV50NL ☺	1/2"	mip x ght	12/144
IBDBV75NL	3/4"	mip x ght	12/144



HHBNL Series



HHBNHTNL Series



HHBSBHDNL Series

NEW

ALS NSF/ANSI/CAN 61-4 & 372

NO LEAD Brass Hose Bibbs			
HHB50NL ☺	1/2"	mip x ght	12/144
HHB75NL	3/4"	mip x ght	12/144
NO LEAD Brass Hose Bibbs - No Garden Hose Thread, Sampling Valve			
HHB50NHTNL ☺	1/2"	mip x spout	12/144
HHB75NHTNL	3/4"	mip x spout	12/144
NO LEAD Brass Hose Bibbs - HEAVY PATTERN - Certified NSF61			
HHB50SBHDNL	1/2"	mip x ght	12/72
HHB75SBHDNL	3/4"	mip x ght	12/72

☺ Has combination 1/2" mip and 1/2" solder connection

1/4 TURN BALL VALVE HOSE BIBBS • BENT NOSE GARDEN • ANGLE SILL COCKS

- 200 PSI WOG (1/4 turn ball valve hose bibbs)
- Valves shown are UPC rated and third party certified to NSF/ANSI 372.
- Imported



IHBB NL Series



IHBBNHTNL Series



IHBBSS Series



IHBBSSNHT Series



HBNGNL



HSCNL

Part Number	Size	Description	Ctn/Case Qty
NO LEAD Brass 1/4 turn Ball Valve Hose Bibb w/ T Handle - 200 psi WOG non-shock- NSF61			
IHBB50NL ☺	1/2"	1/4 turn NL mip x ght	12/144
IHBB75NL	3/4"	1/4 turn NL mip x ght	12/144
NO LEAD Brass 1/4 turn Ball Valve Brass Hose Bibbs w/ T Handle - 200 psi WOG non-shock - No garden hose thread - Sampling valve - NSF61			
IHBB50NHTNL ☺	1/2"	1/4 turn NL mip x spout	12/144
IHBB75NHTNL	3/4"	1/4 turn NL mip x spout	12/144
304 STAINLESS STEEL 1/4 turn Ball Valve Hose Bibbs w/ T Handle - 200 psi WOG non-shock (with stainless steel T handle) - NSF61			
IHBB50SS	1/2"	STAINLESS mip x ght	12/144
IHBB75SS	3/4"	STAINLESS mip x ght	12/144
304 STAINLESS STEEL 1/4 turn Ball Valve Hose Bibbs w/ T Handle - 200 psi WOG non-shock - No garden hose thread - Sampling valve - NSF61			
IHBB50SSNHT	1/2"	STAINLESS mip x spout	12/144
IHBB75SSNHT	3/4"	STAINLESS mip x spout	12/144
NO LEAD Brass Full Flow Bent Nose Garden Valves (CA AB1953 certified)			
HBNG50NL	1/2"	fip x ght	12/72
HBNG75NL	3/4"	fip x ght	12/72
HBNG100NL	1"	fip x ght	12/72
NO LEAD Brass Angle Sill Cocks (CA AB1953 certified)			
HSC50TNL	1/2"	fip x ght	12/144
HSC75TNL	3/4"	fip x ght	12/144

☺ Has combination 1/2" mip and 1/2" solder connection



HVB75NL



HVBAD75NL

No Lead Brass Vacuum Breaker Features:

- HVBAD has automatic back drain and can be manually drained.
- ASSE 1011
- **Third party certified to NSF/ANSI 372. HVBAD75NL to NSF/ANSI 61&372**

Part Number	Description	Ctn/Case Qty
NO LEAD Vacuum Breaker		
HVB75NL	3/4" NL Brass fght x mght	10/100
HVBAD75NL	3/4"NL Brass w/ auto back drain fght x mght	10/100

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BOILER DRAINS • HOSE BIBBS

- 125 PSI WOG (working pressure - non-shock), 200 PSI WOG (1/4 turn ball valve hose bibbs)
- All valves shown below are UPC rated except IHBB Series
- Imported

CAUTION
DO NOT USE WITH POTABLE WATER



HNKD Series



HBD Series



HBD-SB Series



IBD-SB Series



IBDBV Series



HHB Series

☺ Has combination 1/2" mip and 1/2" solder connection

Part Number	Size	Description	Ctn/Case Qty
Brass No-Kink Boiler Drains			
HNKD50 ☺	1/2"	mip x ght	12/144
HNKD75	3/4"	mip x ght	12/144
Brass Boiler Drains			
HBD50 ☺	1/2"	mip x ght	12/144
HBD75	3/4"	mip x ght	12/144
HBD50SB ☺	1/2	w/ stuffing box mip x ght	12/144
HBD75SB	3/4"	w/ stuffing boxmip x ght	12/144
Brass Full Flow Boiler Drains			
IBD50SB ☺	1/2"	w/ stuffing box mip x ght	12/144
IBD75SB	3/4"	w/ stuffing box mip x ght	12/144
1/4 turn Ball Valve Brass Boiler Drain w/ Butterfly Handle			
IBDBV75	3/4"	mip x ght	12/144
Brass Hose Bibbs			
HHB50 ☺	1/2"	mip x ght	12/144
HHB75	3/4"	mip x ght	12/144

Plumbing Valves - NON POTABLE

MULTI-TURN FROST-FREE SILL COCKS



- Durable chrome plated body offers corrosion resistance.
- 360º multi-turn handwheel for easy on/off operation.
- Tapered sill wedge for easy installation at correct angle.
- Anti-siphon vacuum breaker prevents backflow.
- 3/4" GHT spout
- Cold working pressure 125 psi
- Certified to ASSE Standard 1019, type A.
- MIP/SWT ends conform to ANSI/ASME B1.20.1, ANSI/ASME B16.18
- PEX crimp ends conform to ASTM F1807
- CE cold expansion pex ends conform to ASTM F1960.

CAUTION
DO NOT USE WITH POTABLE WATER



H500 Series

Part Number	Size	Connections	Ctn/Case Qty
Frost Free Sill Cocks - MIP x SWT connection			
H504	1/2 x 4"	MIP x SWT	2/40
H506	1/2 x 6"	MIP x SWT	2/40
H508	1/2 x 8"	MIP x SWT	2/40
H510	1/2 x 10"	MIP x SWT	2/40
H512	1/2 x 12"	MIP x SWT	2/40
H514	1/2 x 14"	MIP x SWT	2/40



H500AS Series

Anti-Siphon Frost Free Sill Cocks* w vacuum breaker - MIP x SWT			
H506AS	1/2 x 6"	MIP x SWT	2/30
H508AS	1/2 x 8"	MIP x SWT	2/30
H510AS	1/2 x 10"	MIP x SWT	2/30
H512AS	1/2 x 12"	MIP x SWT	2/30
H514AS	1/2 x 14"	MIP x SWT	2/30



H500ASPEX Series

Anti-Siphon Frost-Free Sill Cock w/ vacuum breaker - PEX 1807 connection			
H504ASPEX	**1/2 x 4"**	**PEX**	**2/30**
H506ASPEX	**1/2 x 6"**	**PEX**	**2/30**
H508ASPEX	**1/2 x 8"**	**PEX**	**2/30**
H510ASPEX	**1/2 x 10"**	**PEX**	**2/30**
H512ASPEX	**1/2 x 12"**	**PEX**	**2/30**
H514ASPEX	**1/2 x 14"**	**PEX**	**2/30**



H500ASCE Series

Anti-Siphon Frost-Free Sill Cock w/ vacuum breaker - PEX/CE 1960 connection			
H504ASCE	**1/2 x 4"**	**CE**	**2/30**
H506ASCE	**1/2 x 6"**	**CE**	**2/30**
H508ASCE	**1/2 x 8"**	**CE**	**2/30**
H510ASCE	**1/2 x 10"**	**CE**	**2/30**
H512ASCE	**1/2 x 12"**	**CE**	**2/30**
H514ASCE	**1/2 x 14"**	**CE**	**2/30**



H500ASPF Series

Anti-Siphon Frost-Free Sill Cock w/ vacuum breaker - PUSH FIT connection*			
H504ASPF	**1/2 x 4"**	**PUSH FIT**	**2/30**
H506ASPF	**1/2 x 6"**	**PUSH FIT**	**2/30**
H508ASPF	**1/2 x 8"**	**PUSH FIT**	**2/30**
H510ASPF	**1/2 x 10"**	**PUSH FIT**	**2/30**
H512ASPF	**1/2 x 12"**	**PUSH FIT**	**2/30**
H514ASPF	**1/2 x 14"**	**PUSH FIT**	**2/30**

* Push Fit connection includes 1/2" removal tool.



HVB75

Vacuum Breaker	**Meets ASSE 1011 specifications**	
HVB75	3/4" fght x mght	20/200

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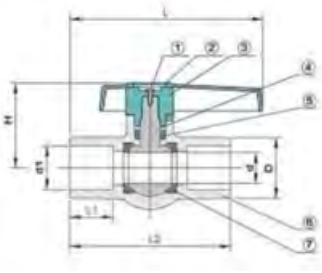
Ball Valves - Economy PVC Molded-in-Place



Economy Series PVC Molded-In-Place Ball Valve Features:

- Heavy duty thermoplastic white PVC (Type 1, Grade 1) construction.
- White body, blue handle.
- **Straight lever** handle on 1/2" through 2". **Curved lever** handle on 2 1/2", 3" and 4".
- EPDM seats provide excellent chemical resistance.
- EPDM "o" ring stem seal.
- 150 PSI working pressure at 73ºF water, non-shock.
- Maintenance free compact design.
- Severe shock loads and misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Third party certified no lead to NSF/ANSI 61&372.
- Individually cartoned.
- Imported.

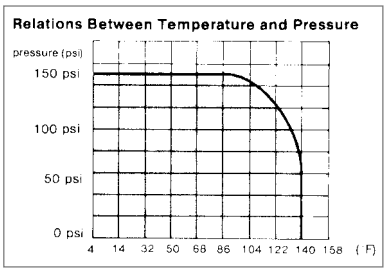
CV ($GPM/(1\ lbf/in^2)^{1/2}$) Opening Rate: 90"	
SIZE	**CV**
1/2"	14.5
3/4"	29.5
1"	48.0
1 1/4"	71.0
1 1/2"	135.0
2"	180.0
2 1/2"	225.0
3"	400.0
4"	865.9



EMIP TE/SE Series
IPS DIMENSIONS (mm)

SIZE	d	d1	D	L1	L	H
1/2"	15	21.54	31.4	19.6	91	34.5
3/4"	20	26.87	36.8	20.4	103	51.0
1"	25	33.65	43.0	26.4	119	58.5
1 1/4"	32	24.42	42.5	27.0	134	67.4
1 1/2"	36	48.56	63.2	30.9	154	73.2
2"	48	60.63	76.4	38.0	180	87.0
2 1/2"	63	73.38	90	45.0	182	103.5
3"	75	89.31	109	50.4	223	118.5
4"	97	114.76	132	62.6	252	130.3

MATERIAL SPECIFICATIONS		
1	Screw	Zinc Plated Steel
2	Cap	ABS
3	Handle	ABS
4	Ball	PVC
5	Stem Seal o-ring	EPDM
6	Body	PVC
7	Seat Seal	EPDM



Threaded Part Number	Slip Part Number	Size	Master Case Qty
EMIP50TE	EMIP50SE	1/2"	210
EMIP75TE	EMIP75SE	3/4"	137
EMIP100TE	EMIP100SE	1"	95
EMIP125TE	EMIP125SE	1 1/4"	56
EMIP150TE	EMIP150SE	1 1/2"	36
EMIP200TE	EMIP200SE	2"	24
EIMP250TE	EMIP250SE	2 1/2"	9
EMIP300TE	EMIP300SE	3"	8
EMIP400TE	EMIP400SE	4"	6

Ball Valves - PVC Sch 80 Molded-in-Place



SCH 80 Series PVC Molded-In-Place Ball Valve Features:

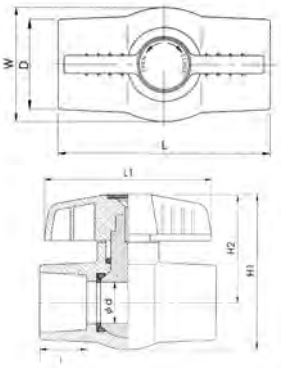
- Heavy duty thermoplastic white PVC (Type 1, Grade 1) construction. Materials meet NSF standards.
- Meets ASTM 2467 Schedule 80.
- White body, red handle.
- Available with PTFE or EPDM seats providing excellent chemical resistance.
- EPDM “o" ring stem seal
- 150 PSI working pressure at 73ºF water, non-shock.
- Maintenance free compact design.
- Severe shock loads and misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Individually cartoned.
- Manufactured for AGI in an ISO9002 facility.
- **Third party certified to NSF/ANSI 61&372.**
- Imported.

MATERIAL SPECIFICATIONS	
Body	PVC
Seat Seal	EPDM, PTFE
Ball	PVC
Stem Seal o-ring	EPDM
Handle	ABS
Bolt	Zinc Plated Steel
Cap	ABS

NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

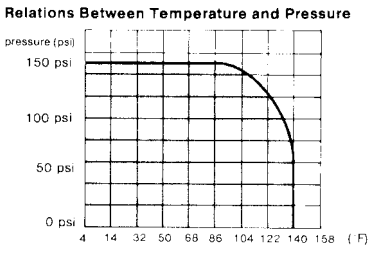
NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

ISO 9002



HMIP TE/SE and T/S Series
IPS DIMENSIONS (IN.)

SIZE	d	D	L	L1	I	H1	H2	W
1/2"	.55	1.17	3.24	2.73	.87	2.42	1.68	1.48
3/4"	.78	1.48	3.71	3.43	1.00	3.04	2.11	1.67
1"	.98	1.76	4.13	3.90	1.12	3.63	2.54	2.22
1 1/4"	1.17	2.11	4.45	3.90	1.25	3.82	2.61	2.46
1 1/2"	1.40	2.42	5.07	4.25	1.37	4.49	3.04	2.93
2"	1.82	3.00	5.74	5.23	1.50	5.27	3.47	3.59
2 1/2"	2.34	3.59	7.96	6.94	1.75	6.24	4.10	4.29
3"	3.00	4.13	8.93	8.74	1.88	7.41	4.84	5.19
4"	3.94	5.27	11.70	10.76	2.25	9.09	5.77	6.63



CV (GPM/(1 lbf/in^2)$^{1/2}$) Opening Rate: 90"	
SIZE	CV
1/2"	14.5
3/4"	29.5
1"	48.0
1 1/4"	71.0
1 1/2"	135.0
2"	180.0
2 1/2"	225.0
3"	400.0
4"	865.9

WITH EPDM SEATS NSF

Threaded Part Number	Slip Part Number	Size	Ctn Qty
HMIP50TE	HMIP50SE	1/2"	100
HMIP75TE	HMIP75SE	3/4"	100
HMIP100TE	HMIP100SE	1"	100
HMIP125TE	HMIP125SE	1 1/4"	100
HMIP150TE	HMIP150SE	1 1/2"	48
HMIP200TE	HMIP200SE	2"	24
HIMP250TE	HMIP250SE	2 1/2"	12
HMIP300TE	HMIP300SE	3"	12
HMIP400TE	HMIP400SE	4"	6

WITH PTFE SEATS NSF

Threaded Part Number	Slip Part Number	Size	Ctn Qty
HMIP50T	HMIP50S	1/2"	100
HMIP75T	HMIP75S	3/4"	100
HMIP100T	HMIP100S	1"	100
HMIP125T	HMIP125S	1 1/4"	100
HMIP150T	HMIP150S	1 1/2"	48
HMIP200T	HMIP200S	2"	24

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Ball Valves - Economy CPVC Molded-in-Place



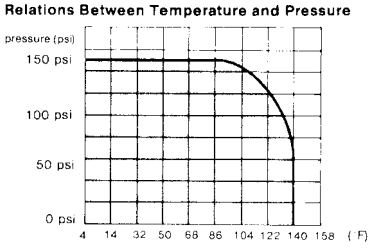
Certified
NSF/ANSI 61&372

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

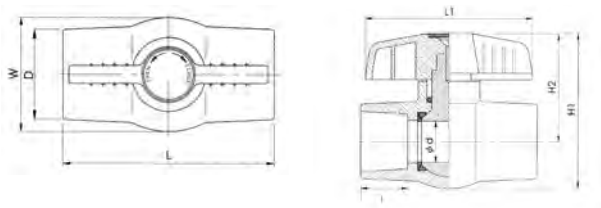
SCH 80 Series CPVC Molded-in-Place Ball Valve Features:

- Heavy duty thermoplastic CPVC construction for hot water use.
- NSF listed.
- Meets ASTM 2467 Schedule 80.
- CTS slip x slip - cream body, red handle.
- PTFE seats providing excellent chemical resistance.
- EPDM O-Ring stem seal.
- Working pressure 75 PSI at 180°F.
- Maintenance free compact design.
- Severe shock loads & misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Individually cartoned.
- Imported
- **Third party certified to NSF/ANSI 372.**

MATERIAL SPECIFICATIONS	
Body	CPVC
Seat Seal	PTFE
Ball	CPVC
Stem Seal	EPDM
Handle	ABS
Bolt	Zinc Plated Steel
Cap	ABS



CV (GPM/(1 lbf/in²)^1/2) Opening Rate: 90"	
SIZE	**CV**
1/2"	14.5
3/4"	29.5
1"	48.0



ECMIP "C" Series CTS DIMENSIONS (IN.)

SIZE	d	D	L	L1	I	H1	H2	W
1/2"	0.49	0.95	2.70	2.36	0.74	2.29	1.60	1.29
3/4"	0.72	1.26	3.31	2.78	0.89	2.86	2.03	1.65
1"	0.81	1.51	3.58	3.07	0.95	3.09	2.06	2.00

Part Number	Description	Master Ctn Qty
CPVC Ball Valve, Copper Tube Size, SLIP X SLIP		
ECMIP50C	1/2" SLIP X SLIP	160
ECMIP75C	3/4" slip x slip	80
ECMIP100C	1" slip x slip	60

Ball Valves - CPVC Sch 80 Molded-in-Place



Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

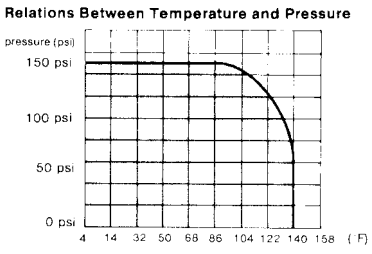
ISO 9002

FLOWGUARD GOLD PIPE & FITTINGS

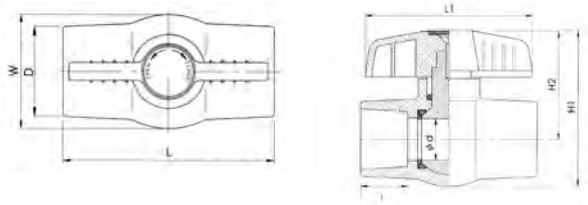
SCH 80 Series CPVC Molded-in-Place Ball Valve Features:

- Made with **Flo Guard Gold CPVC** material.
- Heavy duty thermoplastic CPVC construction for hot water use.
- NSF listed.
- Meets ASTM 2467 Schedule 80.
- CTS slip x slip - cream body, orange handle.
- PTFE seats providing excellent chemical resistance.
- EPDM O-Ring stem seal.
- Working pressure 75 PSI at 180°F.
- Maintenance free compact design.
- Severe shock loads & misalignment stress are absorbed by the valve body, not the ball & seat, minimizing the chance of uneven wear & leakage.
- Individually cartoned.
- Manufactured for AGI in an ISO 9002 facility.
- Imported
- **Third party certified to NSF/ANSI 61&372.**

MATERIAL SPECIFICATIONS	
Body	CPVC
Seat Seal	PTFE
Ball	CPVC
Stem Seal	EPDM
Handle	ABS
Bolt	Zinc Plated Steel
Cap	ABS



CV (GPM/(1 lbf/in²)^1/2) Opening Rate: 90"	
SIZE	**CV**
1/2"	14.5
3/4"	29.5
1"	48.0



CMIP "C" Series CTS DIMENSIONS (IN.)

SIZE	d	D	L	L1	I	H1	H2	W
1/2"	.47	.94	2.65	2.34	.50	1.91	1.33	1.21
3/4"	.55	1.17	3.24	2.73	.87	2.42	1.68	1.48
1"	.78	1.48	3.71	3.43	.90	3.04	2.11	1.91

Part Number	Description	Ctn Qty
CPVC Ball Valve, Copper Tube Size, SLIP X SLIP		
CMIP50C	1/2" SLIP X SLIP	100
CMIP75C	3/4" slip x slip	100
CMIP100C	1" slip x slip	100

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Ball Valves - PVC Single Union



PV1450 Series



PV1452, PV1453 Series

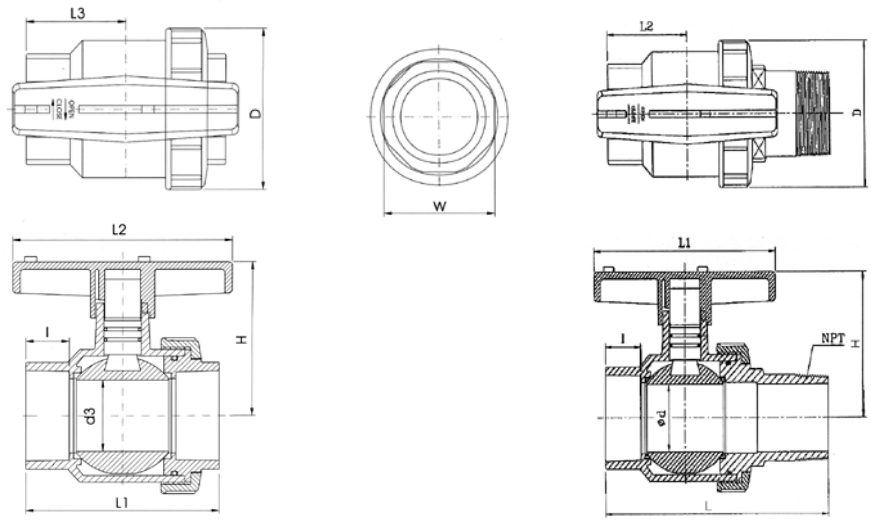
ISO 9002

NO LEAD
LEAD-FREE

PVC Single Union Ball Valve Features:

- PVC Type 1 construction for compatibility in joining rigid PVC and flex vinyl pipes.
- **PTFE seats.**
- **Double EPDM o-ring seal on stem: single EPDM o-ring seal on union end.**
- Fully round ball prevents foreign matter from scoring seats.
- Tee handle for quarter turn on/off with stops.
- Working pressure: 150 PSI at 72ºF, 100 PSI at 120ºF.
- Threaded or socket.
- Manufactured for AGI in an ISO 9002 facility.
- Imported

MATERIAL SPECIFICATIONS	
Body	PVC
End Adapter	PVC
Union Nut	PVC
Ball	PVC
Stem	PVC
Handle	ABS
Union o-rings	EPDM
Seat Seals	PTFE
Stem o-rings	EPDM



PV1450 Series DIMENSIONS (IN.)

SIZE	d3	D	L1	L2	L3	H	W	I
1 1/2"	1.50	3.42	4.49	4.72	2.21	3.32	2.34	1.09
2"	1.88	4.10	5.07	5.74	2.53	4.07	2.73	1.15

PV1452 Series DIMENSIONS (IN.)

SIZE	d	D	L	L1	L2	H	W	I
1 1/2"	1.50	3.42	6.55	4.72	2.21	3.32	2.34	1.09
2"	1.87	4.10	7.02	5.73	2.52	4.07	2.73	1.15

Part Number	Threaded/Slip	Size	Ctn Qty
PV1450-11/2	Slip	1-1/2"	48
PV1450-2	Slip	2"	24
PV1451-11/2	Threaded	1-1/2"	48
PV1451-2	Threaded	2"	24
PV1452-11/2	Slip x Extended MIP	1 1/2"	24
PV1452-2	Slip x Extended MIP	2"	24
PV1453-11/2	FPT x Extended MIP	1 1/2"	24
PV1453-2	FPT x Extended MIP	2"	12

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Ball Valves - PVC True Union



ITUV Series

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

SCH 80 PVC True Union Ball Valve Features:

- Heavy duty thermoplastic grey Sch 80 PVC (Type 1, Grade 1).
- Full port design.
- Available with either EPDM or Viton® o-ring stem, carrier and union seals.
- **PTFE** seats are resistant to chemical corrosion.
- 150 PSI working pressure at 73º water, non-shock.
- Working temperature -4ºF to 140ºF.
- Unique double union/double block design permits in-line maintenance without disconnecting pipe and with no special tools.
- Both ends are blocked with bayonet-style locks which prevents the ball from being blown out. Ball remains in place upon removal of valve.
- External adjustment for seat wear.
- Individually cartoned.
- Imported.

EPDM O-Rings

Socket Part Number	Threaded Part Number	Ctn Qty
ITUV50SE	ITUV50TE	48
ITUV75SE	ITUV75TE	36
ITUV100SE	ITUV100TE	24
ITUV125SE	ITUV125TE	24
ITUV150SE	ITUV150TE	24
ITUV200SE	ITUV200TE	12
ITUV250SE	ITUV250TE	12
ITUV300SE	ITUV300TE	6
ITUV400SE	ITUV400TE	1

VITON O-RINGS

Socket Part Number	Threaded Part Number	Ctn Qty
ITUV50SV	ITUV50TV	48
ITUV75SV	ITUV75TV	36
ITUV100SV	ITUV100TV	24
ITUV125SV	ITUV125TV	24
ITUV150SV	ITUV150TV	24
ITUV200SV	ITUV200TV	12
ITUV250SV	ITUV250TV	12
ITUV300SV	ITUV300TV	6
ITUV400SV	ITUV400TV	1

ADDITIONAL ENDS - SET OF 2 INCLUDED

Part Number	Part Number
ITUV50 SOCKET END	ITUV50 THREADED END
ITUV75 SOCKET END	ITUV75 THREADED END
ITUV100 SOCKET END	ITUV100 THREADED END
ITUV125 SOCKET END	ITUV125 THREADED END
ITUV150 SOCKET END	ITUV150 THREADED END
ITUV200 SOCKET END	ITUV200 THREADED END
ITUV250 SOCKET END	ITUV250 THREADED END
ITUV300 SOCKET END	ITUV300 THREADED END
ITUV400 SOCKET END	ITUV400 THREADED END

Ball Valves - PVC True Union

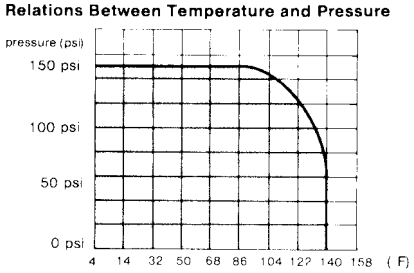
ITUV Series PVC True Union Ball Valve Specifications:

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

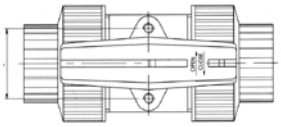


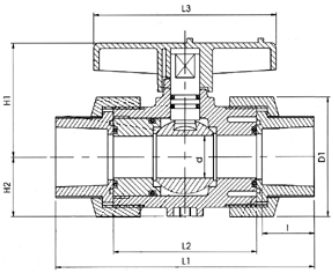
MATERIAL SPECIFICATIONS:

Part	Material
Body	PVC
Stem o-ring	EPDM or Viton
Stem	PVC
Ball	PVC
Seat Seal	PTFE
Carrier o-ring	EPDM or Viton
Seal Carrier	PVC
Union o-ring	EPDM or Viton
End Connector	PVC
Union Nut	PVC
Handle	ABS
Inserted Nut	C3604 (on 1/2" - 2" only)



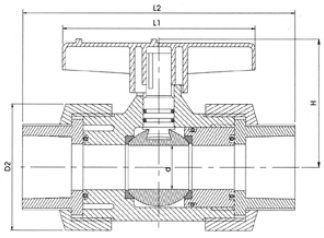
CV ($GPM/(1\ lbf/in^2)^{1/2}$) Opening Rate: 90"	
SIZE	CV
1/2"	7.39
1"	25.16
1 1/4"	43.22
1 1/2"	60.21
2"	101.56
2 1/2"	170.39
3"	
4"	906.95





ITUV Series
1/2" thru 2" DIMENSIONS (IN.)

SIZE	d	D1	L1	L2	L3	H1	H2
1/2"	.51	1.76	4.33	2.347	3.04	1.87	--
3/4"	.70	2.15	5.07	2.85	3.59	2.26	1.01
1"	.90	2.57	5.66	3.04	3.90	2.54	1.29
1 1/4"	1.17	3.16	6.44	3.39	4.29	2.95	1.48
1 1/2"	1.48	3.74	6.67	3.59	4.72	3.43	1.64
2"	1.87	4.64	7.80	4.37	5.73	4.19	2.07



ITUV Series
2 1/2" thru 4" DIMENSIONS (IN.)

SIZE	d	D2	L1	L2	H
2 1/2"	2.34	5.30	7.08	10.73	4.64
3"	2.69	6.08	9.32	11.70	5.03
4"	3.90	8.74	10.84	12.79	6.86

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Slice Gate Valves - PVC



VSGV Uni-Body



VSGV 3 piece body



VSGV 3 piece body with union

PVC Slice Gate Valve Features:

- Designed for pool & spa, irrigation, plumbing, waste water and agricultural applications.
- Stainless steel shaft prevent rust and corrosion.
- Ozone & chemical resistant Santoprene™ materials.
- Santoprene™ seals are integrated to the paddle to eliminate any chance of torn or punctured gaskets.
- Maximum working pressure 50 psi (through 2").
- Solvent cement traps to catch excess glue.
- Every valve tested at double recommended working pressure.
- Valterra's patent pending triple o-ring neck seal to ensure against any chance of shaft leakage.

NO LEAD ✓ LEAD-FREE

Unibody Design

- One piece uni-body design.
- Combination socket ID x spigot OD for installation flexibility.
- Locking handle provides positive shut-off and easy gate opening.

3 Piece body

- Three piece configuration allows for repair or can be used as a union.
- Three piece configuration easily disassembles for inline service.

Part Number	Description	Max PSI	Ctn Qty
Uni-Body			
VSGV2101	1 1/2" slip x slip	45	30
VSGV2201	2" slip x slip	40	20
*** Unibody 2" slip hubs are 2" slip or 2 1/2" spig**			
Three Piece Body			
VSGV150SL	1 1/2" slip x slip	45	30
VSGV150FIPTXMIPT	1 1/2" fipt x mipt	45	40
VSGV150SLU	1 1/2" slip x union slip	45	38
VSGV150SD	1 1/2" step down pool hose x mipt ABS		40
VSGV200SL	2" slip x slip	40	20
VSGV200SP	2" slip x spigot	40	34
VSGV300SL	3" slip x slip	30	15
VSGV400SL	4" slip x slip w/ metal handle	20	6
VSGV600SL	6" slip x slip w/ stainless handle	10	1
VSGV800SL	8" slip x slip w/ stainless handle	10	1
VSGV1000SL	10" slip x slip w/ stainless handle	10	1
VSGV1200SL	12" slip x slip w/ stainless handle	10	1

Slice Gate Valves - PVC



SGV - SL Series



SGV-SP and SGV-SLU Series

PVC Slice Gate Valve Features:

- One piece “Uni-Body" PVC Construction. Guaranteed NO HUB LEAKS or loose bolts.
- 1/4 turn “Cam-Lock" for 100% shut-off..
- Internal “snap-lock" feature ensures valve will remain totally open, providing 100% flow with no restriction.
- Stainless steel shaft prevents rust and corrosion.
- Glass filled poly-pro tapered gate design for 100% sealing.
- Integrally molded seal on gate. - No pinched or torn gaskets.
- Seals are “Santoprene" that have been impregnated with a permanent lubricant. Never needs lube yet will provide continuous smooth operation. Ozone and chemical resistant for much longer life.
- Santoprene buttons on gate provides smooth operation without sticking.
- Every valve water tested at 100PSI and random quick burst tested at 400 PSI. Virtually no chance of leaky valves in the field at standard operating pressures.
- Maximum recommended operating pressure is 50 PSI.
- Glue wells on all slip-socket configuration catches excess glue during plumbing.
- Constructed and tested for use in pool & spa applications.
- Made in USA

Part Number	Size	Description	Ctn/Case Qty
SGV150SL	1 1/2"	Slip x Slip	14/56
SGV200SL	2"	Slip x Slip	12/48
SGV250SL	2 1/2"	Slip x Slip	5/20
SGV150SP	1 1/2"	Slip x Spigot	14/56
SGV200SP	2"	Slip x Spigot	12/48
SGV150SLU	1 1/2"	Slip x Slip with Union	10/40
SGV200SLU	2"	Slip x Slip with Union	10/40

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Butterfly Valves - Ductile Iron



HBFV Series

Ductile Iron Butterfly Valve Features:

- Designed for swimming pool, irrigation and water systems.
- Wafer body features 4 alignment holes.
- Lever lock handle (spring loaded) provides excellent manual control for balancing or shut off services.
- Notched throttling plate allows balancing in 10º increments in any position desired within 90º arc rotation of the disc.
- Positive bubble-tight shutoff with minimum torque.
- Seat face eliminates need for flange gaskets.
- Phenolic backed seats prevent collapse, are stretch resistant, blowout proof and field replacable.
- **EPDM seats** temperature rated at -30°F to 275°F.
- 420 stainless steel shaft
- Bidirectional dead-end capability for 250 psi (2" - 12").
- Compatible with ANSI 125/150 flanges.
- Designed to comply with MSS SP-67 and API 609.
- **Ductile iron, ENP plated** disc.
- Third party certified no-lead.
- Imported

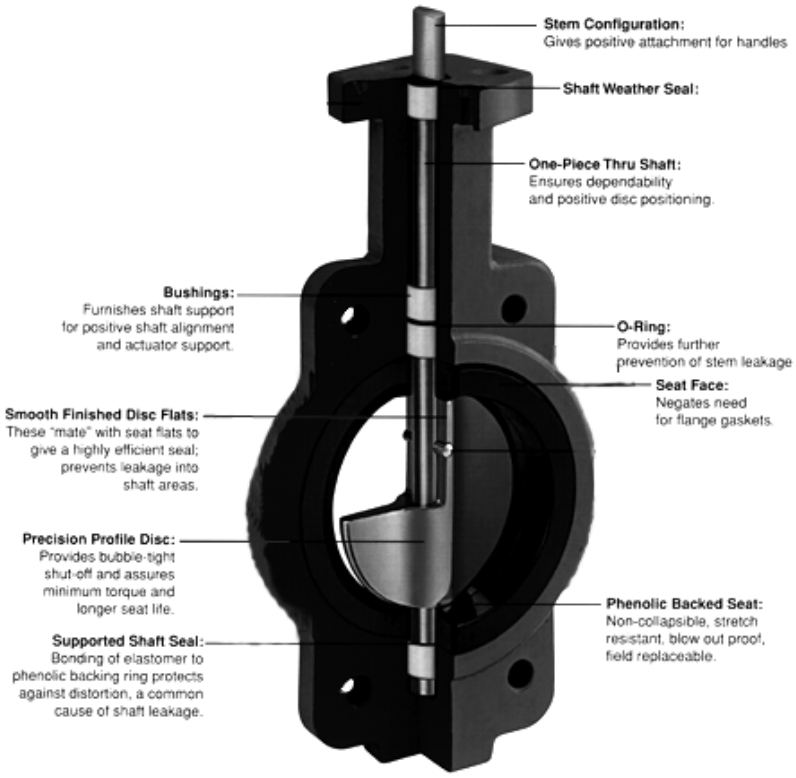


HFBV GEAR Series

Part No.	Size	Weight(lbs)	Ctn Qty
Ductile Iron ENP Plated Disc			
HBFV2	2"	7	1
HBFV21/2	2-1/2"	8	1
HBFV3	3"	10	1
HBFV4	4"	12	1
HBFV5	5"	15.5	1
HBFV6	6"	17.5	1
HBFV8	8"	33	1
HBFV10	10"	50	1
HBFV12	12"	74	1
Ductile Iron ENP Plated Disc - GEAR DRIVE			
HBFV6-GEAR	6"	28.5	1
HBFV8 GEAR	8"	54	1

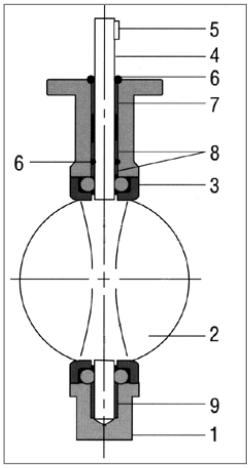
Flanges & Bolt kits available, see page 3.30

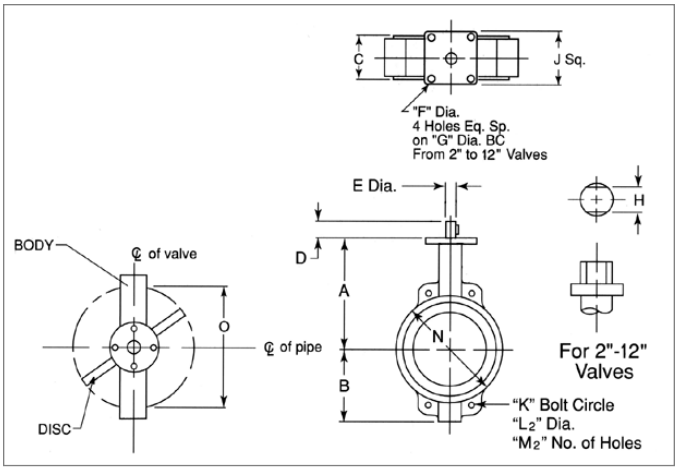
Butterfly Valves - Ductile Iron



MATERIAL SPECIFICATIONS

No.	Part	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron
3	Seat	EPDM
4	Shaft	420 Stainless Steel
5	Key	Carbon Steel
6	O-ring	EPDM
7-9	Bushing	Nylon





SIZE \ DIMENSION (in) for HBFV Series

	A	B	C	D	E	F	G	H	J	K	L2	M2	N	O
2"	5.51	2.44	1.64	1.26	.50	.375	2.76	.39	2.75	4.75	.75	4	4.75	2.12
2 1/2"	6.02	2.76	1.75	1.26	.50	.375	2.76	.39	2.75	5.5	.75	4	5.50	2.57
3"	6.26	2.89	1.75	1.26	.50	.375	2.76	.39	2.75	6.0	.75	4	6.00	3.14
4"	7.01	4.49	2.00	1.26	.625	.375	2.76	.47	2.75	7.50	.75	4	7.50	4.13
5"	7.50	4.79	2.13	1.26	.75	.375	2.76	.55	2.75	8.50	.87	4	8.50	5.12
6"	8.01	5.55	2.12	1.26	.75	.375	2.76	.55	2.75	9.50	.87	4	9.50	6.13
8"	9.50	6.85	2.50	1.26	.875	.438	4.02	.67	3.75	11.75	.87	4	11.75	8.15
10"	10.75	8.19	2.50	1.58	1.125	.438	4.02	.87	3.75	14.25	1.00	4	14.29	9.98
12"	12.25	9.53	2.99	1.58	1.125	.438	4.02	.95	3.75	17.00	1.00	4	17.00	11.89

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Butterfly Valves - PVC Sch 80



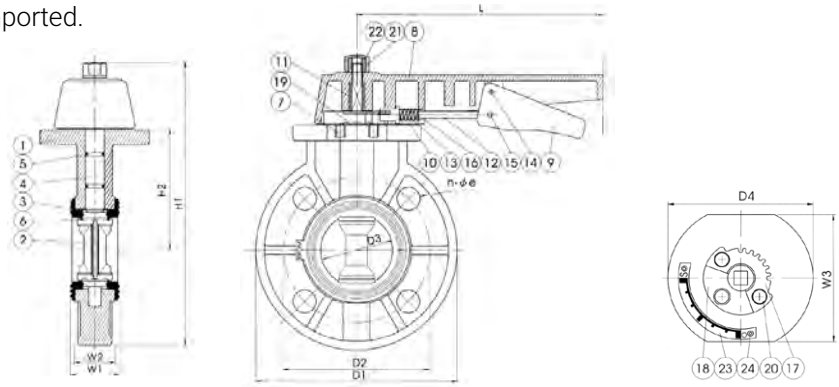
PBFV Series

ISO 9002

PVC Sch 80 Butterfly Valves Features:

NO LEAD ✓ LEAD-FREE

- 150 PSI working pressure.
- PVC body, polypropylene disc, and EPDM seat and o-ring.
- Flanged end design.
- Corrosion resistant.
- Excellent flow characteristics.
- Ideally suited for flow control in a minimum piping space.
- Clear indication of disc opening degree.
- Built in seat requires no additional gaskets between flanges.
- Manufactured for AGI in an ISO 9002 facility.
- Imported.



MATERIAL SPECIFICATIONS			
No.	**Part**	**Material**	**Qty**
1	Body	PVC	1
2	Disc	PP	1
3	Seat Seal	EPDM	1
4	Stem	SS 410	1
5	O-ring	EPDM	2
6	O-ring	EPDM	2
7	Inserted Nut	SS 41	3
8	Large Handle	ABS	1
9	Small Handle	ABS	1
10	Spring Lock	ABS	1
11	Handle Insert	SS	1
12	Handle Lever	SS 304	1
13	Spring	SS 304	1
14	Spring Pin	SS 304	1
15	Spring Pin	SS 304	1
16	Washer	SS 304	1
17	Locking Plate	SS 304	1
18	Gear Seat	PP + GF	1
19	Washer	SS 304	1
20	Bolt	SS 304	3
21	Nut	PVC	1
22	Insert Nut	C3604	1
23	Level	SS 304	1
24	Rivet	SS	2

CV ($GPM/(1\ lbf/in^2)^{1/2}$)	
Opening Rate: 90"	
SIZE	**CV**
2"	100.87
2 1/2"	137.82
3"	224.08
4"	409.51
5"	523.92
6"	1243.00

DIMENSIONS \ SIZE (in)							
	2"	**2 1/2"**	**3"**	**4"**	**5"**	**6"**	**8"**
D1	6.44	7.22	7.80	8.93	9.98	11.12	13.38
D2	4.70	5.44	5.94	7.43	8.42	9.42	11.64
D3	2.20	2.71	3.10	4.01	5.11	6.02	7.91
D4	4.13	4.66	4.84	5.26	6.40	6.64	7.84
L	7.92	7.92	7.92	9.91	11.86	11.86	11.86
H1	9.59	10.37	10.76	12.40	15.21	15.80	18.17
H2	4.02	4.41	4.49	5.27	5.85	6.90	8.19
W1	1.67	1.85	1.85	2.23	2.57	2.88	3.41
W2	1.35	1.45	1.45	1.83	2.22	2.53	3.06
W3	3.67	3.67	3.66	3.89	4.31	3.93	4.76
n-oe	.741	.741	.741	.741	.858	.858	.858

Part Number	Description	Ctn Qty
PBFV2	2" PVC Butterfly valve	4
PBFV21/2	2 1/2" PVC Butterfly valve	4
PBFV3	3" PVC Butterfly valve	4
PBFV4	4" PVC Butterfly valve	4
PBFV5	5" PVC Butterfly valve	4
PBFV6	6" PVC Butterfly valve	4
PBFV8	8" PVC Butterfly valve	1
Replacement handles		
PBFV2 HANDLE	2" PVC valve handle	1
PBFV21/2 HANDLE	2 1/2" PVC valve handle	1
PBFV3 HANDLE	3" PVC valve handle	1
PBFV4 HANDLE	4" PVC valve handle	1
PBFV5 HANDLE	5" PVC valve handle	1
PBFV6 HANDLE	6" PVC valve handle	1
PBFV8 HANDLE	8" PVC valve handle	1

Flanges, Bolt Kits, Gaskets



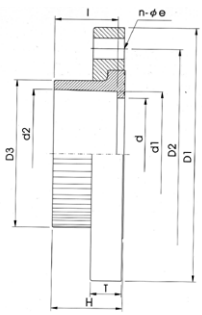
PF Series

ISO 9002

PVC Sch 80 Van Stone Flange Features:

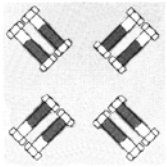
NO LEAD LEAD-FREE

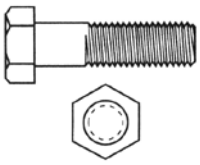
- Two-piece van stone socket style.
- Class 150, Schedule 80
- Improve the security and safety of connections between pipes, valves & fittings.
- Imported - Manufactured for AGI in an ISO 9002 facility.



DIMENSIONS \ SIZE (in)	2"	3"	4"	6"	8"	10"	12"
D1	5.93	7.49	8.93	11.08	13.38	15.83	18.76
D2	4.72	5.93	7.45	9.40	11.62	14.12	16.85
D3	2.96	4.21	5.19	7.45	9.28	12.09	14.20
d	1.99	3.00	3.98	6.08	7.96	9.98	11.97
d1	2.35	3.46	4.45	6.55	8.53	10.64	12.62
d2	2.37	3.48	4.48	6.59	8.57	10.68	12.67
H	1.68	2.11	2.50	3.32	4.60	5.85	7.45
T	.78	1.01	1.09	1.25	1.40	1.64	1.64
l	1.49	1.86	2.23	2.97	3.98	4.80	6.44
n-oe	.741	.741	.741	.858	.858	.936	.975

Part Number	Description	Ctn Qty
PF2	2" Flange	60
PF21/2	2 1/2" Flange	36
PF3	3" Flange	30
PF4	4" Flange	20
PF6	6" Flange	10
PF8	8" Flange	4
PF10	10" Flange	2
PF12	12" Flange	2





BBK Series

Bolt Kit Features:

- For use with cast iron & PVC butterfly valves. BF8200, HBFV and PBFV Series
- ASTM-A307 grade zinc plated carbon steel bolts and A563 finished nuts.
- Washers and Gaskets NOT included- Available upon request.

Part Number	Valve Size	Bolt Size	Bolts/Kit	Ctn Qty
BBK2	2"	5/8" x 5"	4	16
BBK2.5/3	2 1/2" and 3"	5/8" x 5 1/2"	4	16
BBK4	4"	5/8" x 6"	8	8
BBK5/6	5" and 6"	3/4" x 6 1/2"	8	8
BBK8	8"	3/4" x 7"	8	8
BBK10	10"	7/8" x 7 1/2"	12	3
BBK12	12"	7/8" x 8 1/2"	12	3



GSK Series

Red Rubber Gasket Features:

NO LEAD LEAD-FREE

- For use with butterfly valves, Sch 80 flanges
- Red rubber, 150 lbs., 1/8" full face.

Part Number	Valve Size
GSK11/2R	1 1/2"
GSK2R	2"
GSK21/2R	2 1/2"
GSK3R	3"
GSK4R	4"

Part Number	Valve Size
GSK5R	5"
GSK6R	6"
GSK8R	8"
GSK10R	10"
GSK12R	12"

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Butterfly Valve Installation Kits

Butterfly Valve Installation Kits Features:

- Everything needed for a quick, easy butterfly valve installation.
- Available with PVC Sch 80 or Ductile Iron butterfly valves.
- Custom kits available upon request.

NO LEAD LEAD-FREE



PBVIK Series

PVC Butterfly Valve Installation Kit Includes:

- One PBFV Series PVC Sch 80 Butterfly valve.
- Two PF Series PVC Sch 80 Van Stone flanges.
- Two red rubber GSK gaskets.
- Bolt kit with steel nuts and bolts.
- Steel washers.

Part Number	Size	Number of Nuts/Bolts	Number of Washers	Ctn Qty
PBVIK2	2" Kit	4	8	1
PBVIK21/2	2 1/2" Kit	4	8	1
PBVIK3	3" Kit	4	8	1
PBVIK4	4" Kit	8	16	1
PBVIK6	6" Kit	8	16	1
PBVIK8	8" Kit	8	16	1



PHBFV Series

Ductile Iron Butterfly Valve Installation Kit Includes:

NO LEAD LEAD-FREE

- One HBFV Series Ductile Iron Butterfly valve.
- Two PF Series PVC Sch 80 Van Stone flanges.
- Bolt kit with steel nuts and bolts.
- Steel washers.
- Rubber gaskets NOT included. (Extended EPDM seat on the HBFV valve acts as gasket seal with flange.)

Part Number	Size	Number of Nuts/Bolts	Number of Washers	Ctn Qty
PHBFV2NG	2" Kit	4	8	1
PHBFV3NG	3" Kit	4	8	1
PHBFV4NG	4" Kit	4	8	1
PHBFV6NG	6" Kit	4	8	1
PHBFV12NG	12" Kit	4	8	1 *

* Shipped in two cartons

Wall Hydrants - Commercial

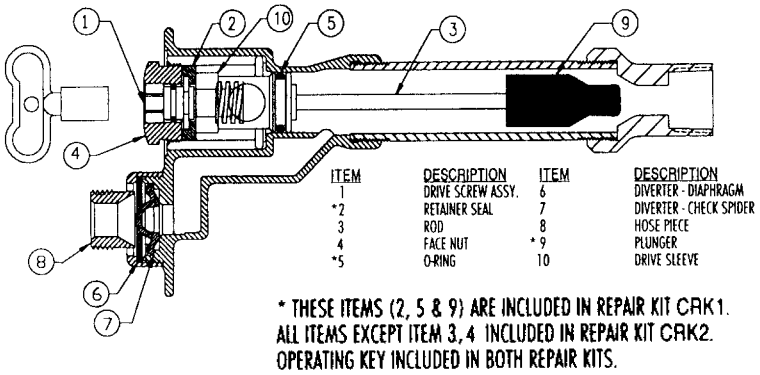
CLAYTON MARK SINCE 1888



WALL HYDRANT REPLACEMENT PARTS ONLY



- We no longer offer commercial wall hydrant units, but do offer replacement part kits for Clayton Mark Model 6500 series units.
- Items 2, 5 & 9 are included in minor repair kit CRK1
- All items except 3 & 4 are included in major repair kit CRK2



Part Number	Description	Ctn Qty
Wall Hydrant Repair Kits		
CRK1	Repair Kit I (Minor)	1
CRK2	Repair Kit II (Major)	1

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WATER FILTRATION & DISINFECTION



Automatic Flush Valve 39
Filter Housings, Cartridges, Kits & Accessories 1-8
Filter Housings & Cartridges - Big Bubba 9-10
Filter Housings, Cartridges, Kits & Accessories - Pentair 13-22
Filtration PFOA/PFOS Systems - Pentair 23
Harmsco™ Filter Systems 25-30
Iron Out 24
LMI Uni-Dose Electronic Metering Pumps 49-50
Pulsafeeder Chemical Feed Pumps 43-48
R/O & Chemical Containment Systems 11-12
Saddle Tap Valve and Kit 24
Ultraviolet Disenfection Systems 40-42
Vu-Flow Filters & Sand Separators 31-39

Harvard Filter Housings



Harvard Series Housing Features:

- Available in slim and large diameter styles.
- 10" and 20" lengths. Blue and Clear sumps.
- All housings have a pressure relief button.
- 3/4" inlet/outlets on slimline, 1" inlet/outlets on large diameter.
- Maximum temperature rating to 125°F and pressure rating to 125 psi.
- Recommended maximum operating pressure 85 psi for slim style and 90 psi for large diameter.
- Filter housings are bulk packed. Cartridges available separately.



Double o-ring on standard slimline

Standard Housing Features:

- Standard Housings manufactured from NSF listed, FDA grade 100% polypropylene (polycarbonate for clear).
- Patented double EPDM o-ring seals on slimline assures long term seal. Single o-ring seal on large diameter.



Housing with Stainless Steel Inserts Features:

- Manufactured from NSF listed, FDA grade 100% polypropylene, polycarbonate or tinted AS for clear.
- 10" and 20" length. Blue or clear/tinted blue sumps.
- **Stainless Steel** threaded inserts on inlets and outlets.
- Single EPDM o-ring seals assures long term seal.



Single o-ring on SS inserts

NO LEAD ✓ LEAD-FREE

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Ctn Qty
SLIM STYLE Housing only with pressure relief for 2 1/2" OD cartridges						
HH75BSLBP	Slim	Blue	Black	3/4"	10"	12
HH75CSLWP	Slim	Clear	Black	3/4"	10"	12
LARGE DIAMETER STYLE Housing only with pressure relief for 4 1/2" O.D. cartridges						
HHLD10BP	Lg. Diam	Blue	Black	1"	10"	6
HHLD10BP20	Lg. Diam	Blue	Black	1"	20"	6
HHLD10CP	Lg. Diam	Clear	Black	1"	10"	6
SLIM STYLE Housing only with SS inserts, pressure relief for 2 1/2" OD cartridges						
HH75BSLBPSS	Slim	Blue	Black	3/4" SS insert	10"	12
HH75CSLWPSS	Slim	Clear Tint	Black	3/4" SS insert	10"	12
LARGE DIAMETER STYLE Housing only with SS inserts, pressure relief for 4 1/2" O.D. cartridges						
HHLD10BPSS	Lg. Diam	Blue	Black	1" SS insert	10"	6
HHLD10CPSS	Lg. Diam	Clear	Black	1" SS insert	10"	6
HHLD10BPSS20	Lg. Diam	Blue	Black	1" SS insert	20"	6
HHLD10CPSS20	Lg. Diam	Clear	Black	1" SS insert	20"	6

WARNING: Prevent Freezing. Never exceed recommended maximum operating pressures. Use proper pressure reducing valves to protect filter housings from excessive pressure surges.

DO NOT over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape OR non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - NOT BOTH.

Harvard Filter Kits and Accessories



NO LEAD ✓ LEAD-FREE

Standard Filter Housing Kit Features:

- Slim and Large diameter styles.
- Complete with full size white, powder coated steel mounting bracket, stainless steel screws, sump removal wrench, extra o-ring. (2 o-rings on slim, 1 o-ring on large diameter.)
- Individually cartoned with label.
- Custom kits available. Call Customer Service for quotations.

Part Number	Style	Sump	Head	Inlet/Outlet	Length	Case Qty
HFHP75BSLBP	Slim	Blue	Black	3/4"	10"	10
HFHP75BSLBP20	Slim	Blue	Black	3/4"	20"	10
HFHP75CSLWP	Slim	Clear	Black	3/4"	10"	10
HFHPLD10BP	Large Dia	Blue	Black	1"	10"	6
HFHPLD10BP20	Large Dia	Blue	Black	1"	20"	4
HFHPLD10CP	Large Dia	Clear	Black	1"	10"	6



NO LEAD ✓ LEAD-FREE

Stainless Steel Insert Filter Housing Kit Features:

- Slim and Large diameter styles **with stainless steel** threaded inserts.
- Complete with full size white, powder coated steel mounting bracket, stainless steel screws, sump removal wrench and extra o-ring.
- Individually cartoned with label.
- Custom kits available. Call Customer Service for quotations.

Part Number	Style	Sump	Head	Inlet/Outlet	Length	Case Qty
HFHP75BSLBPSS	Slim	Blue	Black	3/4" SS	10"	10
HFHP75CSLWPSS	Slim	Clear	Black	3/4" SS	10"	10
HFHPLD10BPSS	Large Dia	Blue	Black	1" SS	10"	6
HFHPLD10CPSS	Large Dia	Clear	Black	1" SS	10"	6
HFHPLD10BPSS20	Large Dia	Blue	Black	1" SS	20"	6
HFHPLD10CPSS20	Large Dia	Clear	Black	1" SS	20"	6



HS-BA Series



HW Series



HOR Series

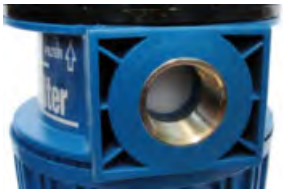
Part Number	Fits Style	Material	Color
Mounting Brackets for Harvard Series Filter Housings			
Includes stainless steel head and wall mounting screws			
HS10BA	Slim (L)	Powder coated steel	White
HS25BA	Large Diam. (L)	Powder coated steel	White
Wrenches for Harvard Series Filter Housing sump removal			
HWSL	Slim	Polypropylene	White
HWLD	Large Diam.	Polypropylene	White
O-rings for Harvard Series Filter Housings			
HOR4	Slim	EPDM	
HOR5	Large Diam.	EPDM	
HOR4SS	Slim w/ SS Insert	EPDM	
HOR5SS	Large Diam w/SS Insert	EPDM	

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Harvard VIH Filter Housing, Kit and Accy











Harvard Series Valve-In-Head with By-Pass and 304 Stainless Steel Insert Housing Features:

- Three piece design includes ring nut for quick and easy assembly.
- Valve-in-head design offers shut off and by-pass modes. No need for separate shut-off valves to isolate the filter.
- Automatic pressure venting.
- 3/4" 304 stainless steel inserts reinforce threaded I/O ports.
- Clear, tinted sump.
- Accepts 2 1/2" x 10" filter cartridges.
- Made from food grade materials.
- Maximum temperature rating to 100°F and pressure rating to 125 psi.
- Kit contains: By-pass housing, steel U mounting bracket, mounting screws, wrench and extra o-ring.
- ANSI/NSF 42 listed.
- ANSI/NSF 372 Low Lead certified and listed.

MATERIAL SPECIFICATIONS	
Head	Reinforced polypropylene
Clear Sump	SAN
Valve	Acetal
ORing	EPDM
SS FPT inserts	304 SS

Part No.	Style	Sump	Head	Inlet/Outlet	Ctn Qty
By-Pass VIH Housing ONLY with SS inserts					
HH75VCPSS	**By-Pass**	**Blue Tint**	**Black/Blue**	**3/4" SS insert**	**12**
By-Pass VIH Housing KIT with SS inserts					
HFHP75VCPSS	**By-Pass Filter with SS inserts - KIT**				**1**
HS35BA	**U Mounting Bracket for HH75VCPSS**				**1**
HWVCPSS	**Wrench for HH75VCPSS**				**125**
HOR6SS	**O-Ring for HH75VCPSS**				**250**

Economy Filter Housings & Kits



EH Series

NO LEAD LEAD-FREE

EH Series Economy Housing Features:

- Manufactured from NSF listed, FDA grade 100% polypropylene.
- Available in slim, standard and large diameter styles, 10" and 20" lengths.
- Opaque and clear sumps with EPDM o-ring seals.
- 3/8" - 3/4" inlet/outlets.
- All housings have a pressure relief button.
- Slim and Standard rated for temperature to 125°F, pressures to 125 psi.
- Filter housings are bulk packed. Cartridges available separately.

DO NOT over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape OR non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - NOT BOTH.

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Ctn Qty
SLIM STYLE Housings with pressure relief for 2 1/2" OD cartridges						
EH38BSLBP	Slim	Blue	Black	3/8"	10"	12
EH50BSLBP	Slim	Blue	Black	1/2"	10"	12
EH75BSLBP	Slim	Blue	Black	3/4"	10"	12
STANDARD STYLE Housings with pressure relief for 2 1/2" OD cartridges						
EH75BP	Standard	Blue	Black	3/4"	10"	12



EFHP75VCP

NO LEAD LEAD-FREE

Filter Housing Kit Features:

- Slim, VIH, Standard and Large diameter styles.
- Complete with mounting bracket (with stainless steel screws) and sump removal wrench.
- Individually cartoned with label.
- Custom kits available. Call Customer Service for quotations.

Part Number	Style	Sump	Inlet/Outlet	Length	Bracket	Case Qty
EFHP75VCP	**Standard VIH***	Clear	3/4"	10"	YES	4
EFHP75VP	Std VIH w/SS Inserts	White	3/4"	10"	YES	6

* Pentek

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Economy Filter Accessories



ES-BA Series



EW Series



EOR Series

Part Number	Fits Style	Material	Color
Mounting Brackets for EH Series Filter Housings			
Includes stainless steel head and wall mounting screws			
ES10BA	EH Slim (L)	Aluminum	White
ES20BA	EH Standard (L)	Aluminum	White
ES25BA	EH Large Diam. (L)	Aluminum	---
Wrenches for EH Series Filter Housing sump removal			
EWSL	Slim	Polypropylene	White
EWSTND	Standard	Polypropylene	White
EWLD	Large Diam.	Polypropylene	Black
O-rings for EH PFH Series Filter Housings			
EOR4	Slim	EPDM	
EOR8	Standard	EPDM	
EOR5	Large Diam.	EPDM	



EIC100

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Inline Ice Maker Carbon Filter Features:

- NSF listed.
- Granular activated carbon medium.
- Removes chlorine, taste and odor from water
- Ideal for refrigerator ice makers, water dispensers and coffee makers.
- Furnished with or without 1/4" fittings.

Part Number	OD	Length	Fits Pipes	Pipe Ftgs	Ctn Qty
EIC100	2"	10"	1/4" FPT	NO	25
EIC100JG	2"	10"	1/4" plastic or copper tubing	1/4" John Guest	25

Economy Filter Cartridges



EFP Series

EFP Series Melt Blown Polypropylene Filter Cartridge Features:

- Melt blown polypropylene for purity and chemical compatibility.
- Ideal for aggressive chemicals and general sediment filtration when depth filtration is required.
- Max Flow rate 2-8 gpm based on micron.
- Contains no binders, agents, solvents, antistatic materials or wetting agents.
- Meets FDA requirements for food and beverage contact.
- No leachables or extractables to contaminate.
- No surface binders to reduce flow & increase change-out frequency.
- Rated for tempertures up to 140° F
- Shrink wrapped for purity.

Part Number	Micron	O.D.	Length	Ctn Qty
MELT BLOWN POLYPROPYLENE Filter cartridges: SLIM & STANDARD housings				
EFP1	1	2 1/2"	9 7/8"	48
EFP5	5	2 1/2"	9 7/8"	48
EFP20	20	2 1/2"	9 7/8"	48
EFP50	50	2 1/2"	9 7/8"	48
EFP1-20	1	2 1/2"	20"	24
EFP5-20	5	2 1/2"	20"	24
EFP20-20	20	2 1/2"	20"	24
EFP50-20	50	2 1/2"	20"	24
MELT BLOWN POLYPROPYLENE Filter cartridges: LARGE DIAMETER housings				
EFPBB1	1	4 1/2"	9 3/4"	24
EFPBB5	5	4 1/2"	9 3/4"	24
EFPBB20	20	4 1/2"	9 3/4"	24
EFPBB50	50	4 1/2"	9 3/4"	24
EFPBB1-20	1	4 1/2"	20"	12
EFPBB5-20	5	4 1/2"	20"	12
EFPBB20-20	20	4 1/2"	20"	12
EFPBB50-20	50	4 1/2"	20"	12



EFP_G Series

EFP-G Series Grooved Melt Blown Polypropylene Filter Cartridge Features:

- Grooved cartridges for increased surface area and greater dirt handling capacity.
- Melt blown polypropylene.
- Maximum tempertures 140° F
- Maximum pressure: 40 psid
- Recommended change out 30 psid.
- Maximum flow rate 2-8 gpm based on micron.
- Shrink wrapped for purity.
- Fits slim and standard style housings.

Part Number	Micron	OD	Length	Ctn Qty
EFP5G	5	2 1/2"	9 3/4"	48
EFP20G	20	2 1/2"	9 3/4"	48

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Economy Filter Cartridges



EFWP Series

EFW Series Wound Filter Cartridge Features:

- Excellent depth filtration.
- FDA grade polypropylene fibers.
- Polypropylene center tubes.
- For tempertures to 140 F.
- Individually wrapped.

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Part Number	Medium	Type of Construct	Micron	O.D.	Length	Ctn Qty
WOUND POLYPROPYLENE Filter cartridges for SLIM and STANDARD style housings						
EFWP1	Polypropylene	Wound	1	2 1/2"	9 7/8"	25
EFWP5	Polypropylene	Wound	5	2 1/2"	9 7/8"	25
EFWP20	Polypropylene	Wound	20	2 1/2"	9 7/8"	25
EFWP50	Polypropylene	Wound	50	2 1/2"	9 7/8"	25
EFWP1-20	Polypropylene	Wound	1	2 1/2"	20"	25
EFWP5-20	Polypropylene	Wound	5	2 1/2"	20"	25
EFWP20-20	Polypropylene	Wound	20	2 1/2"	20"	25
EFWP50-20	Polypropylene	Wound	50	2 1/2"	20"	15
WOUND POLYPROPYLENE Filter cartridges for LARGE DIAMETER style housings						
EFWPBB1	Polypropylene	Wound	1	4 1/2"	9 3/4"	8
EFWPBB5	Polypropylene	Wound	5	4 1/2"	9 3/4"	8
EFWPBB20	Polypropylene	Wound	20	4 1/2"	9 3/4"	8
EFWPBB50	Polypropylene	Wound	50	4 1/2"	9 3/4"	8
EFWPBB1-20	Polypropylene	Wound	1	4 1/2"	20"	4
EFWPBB5-20	Polypropylene	Wound	5	4 1/2"	20"	4
EFWPBB20-20	Polypropylene	Wound	20	4 1/2"	20"	4
EFWPBB50-20	Polypropylene	Wound	50	4 1/2"	20"	4



EFGAC Series

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EFGAC Series Granulated Activated Carbon Filter Cartridge Features:

- For removal of taste, odor, organic chemicals and chlorine.
- 5 micron

Part Number	Fits Housing Style	O.D.	Length	Ctn Qty
EFGAC10	Slim, Standard	2 1/2"	9 3/4"	24
EFGAC20	Slim, Standard	2 1/2"	20"	24
EFGACBB	Large Diameter	4 1/2"	9 3/4"	8
EFGACBB20	Large Diameter	4 1/2"	20"	4

Economy Filter Cartridges



EFSP Series

NO LEAD
LEAD-FREE

EFSP Series Pleated Filter Cartridge Features:

- Pleated cartridges provide increased surface area, lower pressure drop and longer service life than other cartridges.
- Cellulose-free, 100% synthetic media is washable and reusable, 5 micron and up, to reduce filter costs.
- Contains no binders or additives to breakdown which may cause foaming and filter degradation.
- Color coded end caps 2 3/4" OD.
- Individually wrapped for purity.

Specifications:

Maximum temperature	140° F
Minimum temperature	40° F
Maximum pressure	40 psid
Recommended change out	25 psid
Filter Media (1 & 5 micron)	Polypropylene
Filter Media (20 & 50 micron)	Polyester
Material - center tube	Polypropylene
Material - end caps	Molded Polyurethane
ID	1 1/6"

Part Number	Micron	End Cap Color	O.D.	Length	Ctn Qty
PLEATED Filter cartridges for STANDARD style housings					
EFSP1	1	Tan	2 3/4"	9 3/4"	50
EFSP5	5	White	2 3/4"	9 3/4"	50
EFSP20	20	Blue	2 3/4"	9 3/4"	50
EFSP50	50	Yellow	2 3/4"	9 3/4"	50
EFSP1-20	1	Tan	2 3/4"	20"	25
EFSP5-20	5	White	2 3/4"	20"	25
EFSP20-20	20	Blue	2 3/4"	20"	25
EFSP50-20	50	Yellow	2 3/4"	20"	25
PLEATED Filter cartridges for LARGE DIAMETER style housings					
EFSPBB1	1	Blue	4 1/2"	9 3/4"	18
EFSPBB5	5	Blue	4 1/2"	9 3/4"	18
EFSPBB20	20	Blue	4 1/2"	9 3/4"	18
EFSPBB50	50	Blue	4 1/2"	9 3/4"	18
EFSPBB1-20	1	Blue	4 1/2"	20"	9
EFSPBB5-20	5	Blue	4 1/2"	20"	9
EFSPBB20-20	20	Blue	4 1/2"	20"	9
EFSPBB50-20	50	Blue	4 1/2"	20"	9

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Big-Bubba Filter Housings



Big-Bubba® High Flow Non-Metallic Filter Housing Features:

Big-Bubba® high flow filters are bigger and better than other non-metallic filter housings because of their economical plastic construction, while pressure rating is nearly equal to stainless steel.

Features:

- Made of glass-reinforced polypropylene for greater strength and chemical resistance.
- Will not dent, rust, chip or corrode.
- Filters accept a single cartridge for convenience.
- Swing-bolt lid closure is easy, safe and secure.
- Pressure release for safety.
- Cartridge “lock" adapter to hold cartridge in place.
- Double o-rings on cartridges for superior sealing.
- Two outlets on opposite sides to allow more flexibility with piping configurations.

Typical Applications:

- Whole house filtration for chlorine, taste, odor and sediment reduction.
- Industrial applications for chemical compatability.
- Pre-filtration for reverse osmosis.
- Community water systems for cyst reduction.
- Sea water filtration for non corrosion.

NSF Certified to ANSI-NSF 61

NO LEAD ✓ LEAD-FREE

Specifications:

Materials	
Body, cartridge end caps	Glass reinforced PP
Swing Bolts	304SS
O-Ring (lid)	EPDM
Lid closure	Swing Bolt
Pipe Fittings (2 inlet, 1 outlet)	2" slip
Overall height	40"
Width(vessel OD)	12"
Maximum Flow Rate	150 gpm *
Maximum temperature (housing)	125° F
Maximum working pressure	125 psi
Burst test	300 psi
Cycle test (0 to 150 psi)	100,000

* Dependent on micron rating (see pressure drop chart)

Parallel Installation



Parallel installations are recommended to achieve high flow rates, by installing filters on a common manifold, feeding all filters installed in a row.

Series Installation



Series installations are recommended for applications such as surface water filtration, where cartridges having different micron ratings are used.

Part No.	Description	Max Flow Rate	Pipe Fitting
BBH150	Big-Bubba Housing	150 gpm	2" slip

Big Bubba Filter Cartridges



BBC-P Series



BBC-D Series



BBC-AC Series

Big-Bubba® High Flow Filter Cartridge Features:

Replacement cartridges for Big-Bubba filters, all with double o-ring seals for superior performance.
Cartridges are easy to install, service and replace.

Pleated:

Pleated cartridges are recommended for typical water filtration applications to remove sediment, hard solids and when high efficiency filtration is required. Available in a wide range of micron ratings, including one micron absolute for surface water filtration to reduce Giardia Cycts and Cryptosporidium.

Depth:

Select depth cartridges to remove sediment, gelatinous substances and when chemical compatibility is an issue. Big-Bubba melt blown depth cartridges are 100% polypropylene with EPDM o-rings.

Activated Carbon Cartridges:

Ideal for whole house filtration and other applications to reduce chlorine, tastes, odors and sediment from water. Rated at 5 micron.

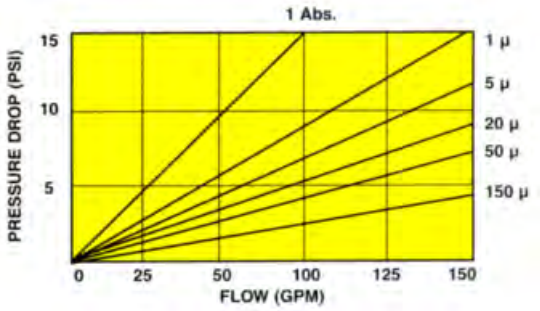
NO LEAD ✓ LEAD-FREE

Specifications:

	PLEATED	DEPTH
Media	PP or PE	PP
End Caps	PP & FG	PP & FG
Center Tubes	PP	PP
Maximum Flow Rate*	150 gpm	100 gpm
Maximum temperature	125° F	125° F
Maximum Chg pressure (psi)	30	40
Chemical Resistance	Excellent	Excellent
Length (media)	26 1/4"	26 1/4"
O-rings (dual)	EPDM	EPDM

* Flow rates based on each specific application, micron rating, solids content and other factors. End user should consider these factors when selecting the filter housing (or housings) needed for their particular requirement.

PLEATED Cartridge Pressure drop



Part Number	Micron	Media Type	Seals	Ctn Qty
PLEATED				
BBC-150-P5	5	Polypropylene	Double O-rings	1
BBC-150-P20	20	Polypropylene	Double O-rings	1
BBC-150-P50	50	Polypropylene	Double O-rings	1
DEPTH				
BBC-150-D1	1	Polypropylene	Double O-rings	1
BBC-150-D5	5	Polypropylene	Double O-rings	1
BBC-150-D20	20	Polypropylene	Double O-rings	1
BBC-150-D50	50	Polypropylene	Double O-rings	1
ACTIVATED CARBON				
BBC-150-AC	5 nominal	Activated carbon	Double O-rings	1

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Residential Reverse Osmosis Systems



HROK4



HROK5

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HARVARD Residential Reverse Osmosis System Features:

- Pre-assembled, easy to install 4 or 5 stage RO system.
- Complete with all installation accessories and instructions.
- High rejection, thin film membrane up to 98% efficient with 50 gal/day (4 stage) or 75 gal/day (5 stage) capacity. (Note: Feed water requirements below)
- NSF Standard 58 listed, CE certified, polypropylene tank rated to 100 psi.
- All fittings, tubing, housings, valves, cartridges and membranes are NSF listed or made from NSF listed materials.
- Automatic shut-off valve made from NSF listed materials.
- Lead free, long reach chrome faucet included. Meets California AB1953 requirements.
- Cartridges, valves, fittings, sump wrench, white mounting bracket and complete installation instructions included.

NOTE: Every HROK, HROK-BP has been pressure and water tested after assembly. Due to the variety of installation methods, environments and systems components, standard AGI warrenty does not apply to HROK, HROK-BP systems or components.

Feed Water Requirements:

- Maximum TDS: 2,000 ppm
- Maximum Iron: 0.3 ppm
- Maximum hardness: 12 gpg
- Temperature: 45-100°F
- Maximum hydrogen sulfate:0
- Maximum manganese: 0.05 ppm
- Pressure: 40-85 psi (min/max)
- pH: 4-10

HROK Systems Include:

- NSF listed John Guest style quick connect fittings.
- Filter housings made from NSF listed materials.
- NSF Standard 58, CE listed polypropylene tank. (10" diam x 15" high)
- 5 micron sediment pre-filter cartridge.
- Activated GAC granular carbon cartridge (5 stage)
- Activated carbon block cartridge.
- NSF listed Dow/Filmtec thin film membrane. 50 gpd (4 stage) 75 gpd (5 stage).
- Inline post carbon polishing cartridge.
- Automatic shutoff valve made with NSF materials.
- Long reach, lead free chrome faucet, meets California AB1953.
- Sump wrench, tubing, service valve, check valve, ball valves, flow restrictor included.
- Complete installation instructions.
- 5 stage with booster pump for sink water pressure lower than 40 psi.
- Booster pump rated to 125 psi with 110V/60 Hz, 24VDC power.

Note: For cold water use only. Do not install on hot water line. To insure that the membrane is fuctioning properly, the product water must be tested regularly.

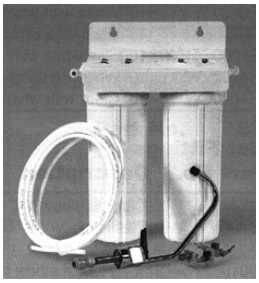
The Benefits (nominal ion rejection characteristics)*

Aluminum	96-98%	Manganese	96-98%
Ammonium	80-90%	Mercury	94-97%
Borate	30-50%	Nickel	96-98%
Boron	50-70%	Nitrate	90-95%
Bromide	90-95%	Orthophosphate	96-98%
Cadmium	93-97%	Phosphate	95-98%
Calcium	93-98%	Polyphosphate	96-98%
Chloride	92-95%	Potassium	92-96%
Chromate	85-95%	Radioactivity	93-97%
Copper	96-98%	Silica	80-90%
Cyanide	85-95%	Silicate	92-95%
Fluoride	92-95%	Silver	93-96%
Hardnes Ca & Mg	93-97%	Sodium	92-98%
Iron	96-98%	Sulfate	96-98%
Lead	95-98%	Thiosulfate	96-98%
Magnesium	93-98%	Zinc	96-98%

• The above percent rejection is for reference only. Actual rejection will depend heavily on the exact chemistry, temperture, pressure & TDS content of the feed water.

Part No.	Description
HROK4	4 stage RO system, 50 gpd
HROK5	5 stage RO system, 75 gpd
HROK5BP	5 stage RO system, 75 gpd w/ booster pump
HROK4MEM50	Dow/Filmtec TFC membrane 50 gpd
HROK5MEM75	Dow/Filmtec TFC membrane 75 gpd
HROKTANK32	3.2 gal plastic tank, NSF58/CE
HROKASV	Auto shutoff valve

Economy Drinking Water Systems



DWS2

NO LEAD
LEAD-FREE

Economy Drinking Water System Features:

- Pre-assembled, easy to install.
- Complete with all installation accessories and instructions.
- Carbon and sediment filter cartridges sold separately.
- Select the appropriate carbon cartridge to reduce taste and odor, chlorine, giardia, cryptosporidium, VOC's, lead and mercury.

DWS Series Includes:

- NSF listed housings
- NSF listed John Guest fittings.
- NSF listed tubing.
- Lead free, long reach chrome faucets. Meets State of California requirements.
- WQA validated, 1800 gallon.
- White aluminum bracket with stainless steel mounting screws.
- Saddle valve.
- Carbon filter cartridges **NOT** included.

Part No.	Description
DWS2	2 Stage system (no Auto shut-off)

Available Carbon Filter Cartridges
See page 4.19-4.20 for description and list prices.



Series	PFC	PFGAC	PFCEP	PFCC	PFCBC	PFCBR2
Sediment	5 micron	N/A	5 micron	N/A	1 micron	0.5 micron
Taste & Odor	Yes	Yes	Yes	Yes	Yes	Yes
Chlorine	Yes	Yes	Yes	Yes	Yes	Yes
Cyst Reduction Giardia & Cryptosporidium	No	No	No	No	Yes	Yes
VOC Reduction	No	No	No	Yes	Yes	Yes
Lead & Mercury	No	No	No	No	No	Yes

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Filter Housings

Styles:
- Standard
- Slim Line™
- Valve-in-Head
- High Temperature
- Big Blue®

Materials:
- Opaque - Reinforced Polypropylene
- Clear - FDA Styrene-Acrylonitrile (SAN)

Applications:
- Residential/Whole house, Commercial/Industrial, Institutional, OEM

ISO 9001

NO LEAD LEAD-FREE

DO NOT over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape OR non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - NOT BOTH.



PFH75B



PFH75C

Standard Housing Features:

- Ideal for a wide range of residential, commercial and industrial applications.
- 3/4" NPT inlet/outlet.
- Available in 10" and 20" lengths.
- Equipped with pressure relief button on the inlet side of the head.
- NPsuffix - no pressure relief button.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty
PFH75B	Standard	Blue	Black	3/4" NPT	12 1/4"	5 1/8"	12
PFH75C	Standard	Clear	Black	3/4" NPT	12 1/4"	5 1/8"	12
PFH75B20	Standard	Blue	Black	3/4" NPT	22 3/8"	5 1/8"	8



PFH38SLC5



PFH38SLC

Slim Line™ Housing Features:

- Ideal for a wide range of residential, commercial and industrial applications.
- 3/8" NPT inlet/outlet.
- Available in 5" and 10" lengths.
- Equipped with pressure relief button on the inlet side of the head.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty
PFH38SLC5	Slimline	Clear	Blue	3/8" NPT	7"	4 3/8"	12
PFH38SLB	Slimline	Blue	Black	3/8" NPT	11 3/4"	4 3/8"	12
PFH38SLC	Slimline	Clear	Blue	3/8" NPT	11 3/4"	4 3/8"	12

Filter Housings

DO NOT over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape OR non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - NOT BOTH.



PFH75V Series

Valve-in-Head Housing Features:

- Valve-in-Head (VIH) feature closed both the inlet and outlet ports simultaneously with a half turn of the handle.
- Makes cartridge change outs quick and easy.
- Available in 5", 10" and 20" lengths.
- Includes pressure relief button on the inlet side of the head.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty
PFH75VB	VIH	Blue	Black w/ VIH	3/4" NPT	12 1/2"	5 1/8"	12
PFH75VC	VIH	Clear	Blue w/ VIH	3/4" NPT	12 1/2"	5 1/8"	12
PFH75VB20	VIH	Blue	Black w/ VIH	3/4" NPT	22 3/8"	5 1/8"	8



PFH75HR

High Temperature Housing Features:

- Low cost alternative to stainless and carbon steel housings.
- Durable glass reinforced nylon construction.
- Available with 1/2" and 3/4" NPT inlet/outlet
- Maximum temperature rating of 160°F.
- Maximum operating pressure 125 PSI.

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty
PFH75HR	High Temp	Red	Red	3/4" NPT	12 1/8"	5 1/8"	12



Big Blue

Big Blue® Large Diameter Housing Features:

- Large capacity housing designed for whole house and high-flow applications.
- Available with 3/4", 1" or 1 1/2" NPT inlet/outlet.
- Available in 10" and 20" lengths.
- Equipped with a pressure relief button on the inlet side of the head.
- Accepts large capacity 4 1/2" diameter cartridges.
- Maximum operating pressure 100PSI @ 100° F
- PFHD10 packed in white box with a spanner wrench.
- Bulk packed without spanner wrench

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty
CPFHD75	Big Blue®	Blue	Black	3/4" NPT	13 1/8"	7 1/4"	6
CPFHD75BB	Big Blue®	Blue	Black	3/4" NPT	23 3/8"	7 1/4"	4
CPFHD10	Big Blue®	Blue	Black	1" NPT	13 1/8"	7 1/4"	6
PFHD10	Big Blue®	Blue	Black	1" NPT	13 1/8"	7 1/4"	1
PFHD10HFP20	Big Blue®	Blue	Black	1" NPT	23 3/8"	7 1/4"	4
PFHD15HFP20	Big Blue®	Blue	Black	1 1/2" NPT	23 3/8	7 1/4"	4

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Filter Cartridges

PENTAIR

ISO 9001

Cartridge Selection Guide

SEDIMENT







Series	PFWP	PFS	PFR	PFP	PFPD
Micron Rating	5, 25, 50	20	30, 50	1, 5, 25	1, 5,25
Avail Lengths	10"	10" & 20"	10"	10" & 20"	10" & 20"
Construction Style	String Wound	Pleated	Pleated	Spun	Therm Bonded
Medium	Polypropylene	Cellulose	Polyester	Polypropylene	Polypropylene
Filtration Style	Depth	Surface	Surface	Depth	Depth
Applications	Chlorinated & Non-Chlorinated	Chlorinated	Chlorinated & Non-Chlorinated	Chlorinated & Non-Chlorinated	Chlorinated & Non-Chlorinated
Avail for Big Blue	Yes	Yes	Yes	No	No

TASTE/ODOR & SEDIMENT







Series	PFC	PFGAC	PFCEP	PFCBC	PFCBR2
Sediment	5 micron	N/A	5 micron	0.5 micron	0.5 micron
Taste & Odor	Yes	Yes	Yes	Yes	Yes
Chlorine	Yes	Yes	Yes	Yes	Yes
Cyst Reduction Giardia & Cryptosporidium	No	No	No	Yes	Yes
VOC Reduction	No	No	No	Yes	Yes
Lead & Mercury	No	No	No	No	Yes
Avail for Big Blue	No	Yes	Yes	Yes	No
Est Filter Life	6 mo.	12 mo.	12 mo.	12 mo.	12 mo.

Filter Cartridges

Sediment Cartridges:

- String wound
- Pleated cellulose
- Pleated polyester
- Spun polypropylene
- Thermally Bonded polypropylene



PFWP String Wound



PFWP-BB String Wound



PFWPX-BB Fibrillated

String Wound Cartridges

ISO 9001

PFWP & PFCW Series String Wound Polypropylene Cartridges

- Ideal for fine sediment reduction, including sand, silt , scale and rust.
- These cord wound cartridges are compatible with most acids, alkalies, corrosive fluids & gases.
- Precise winding pattern ensures high efficiency rate and high dirt loading capacity.
- Core material: FDA Polypropylene
- Max temperture: 180° F
- General purpose filtration.

PFWP-BB Series String Wound Polypropylene Cartridges

- Constructed of fiberous polypropylene over polypropylene core.
  Note: An antistatic agent has been used in the processing of the fiberous polypropylene and may cause some foaming in water.

PFWPX-BB String Wound Fibrillated Polypropylene Cartridges

- Constructed of fibrillated polypropylene on a polypropylene core.
- For use when pressures require minimization of exactables and/or fiber migration.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Length	Ctn Qty
Standard Housings 2 3/8" diameter						
PFWP1	Polypropylene	Wound	1	5	9-7/8"	30
PFWP5	Polypropylene	Wound	5	5	9-7/8"	30
PFWP10	Polypropylene	Wound	10	5	9-7/8"	30
PFWP20	Polypropylene	Wound	20	5	9-7/8"	30
PFWP25	Polypropylene	Wound	25	5	9 7/8"	30
PFWP30	Polypropylene	Wound	30	5	9-7/8"	30
PFWP50	Polypropylene	Wound	50	5	9-7/8"	30
PFCWMF	Polypropylene	Wound	med. fine	10	9 7/8"	24
PFWP1-20	Polypropylene	Wound	1	5	20"	30
PFWP5-20	Polypropylene	Wound	5	5	20"	30
PFWP10-20	Polypropylene	Wound	10	5	20"	30
PFWP20-20	Polypropylene	Wound	20	5	20"	30
Large Diameter Housings 4 1/2" diameter						
PFWP.5BB97P	Polypropylene	Wound	0.5	5	9-7/8"	9
PFWP1BB97P	Polypropylene	Wound	1	5	9-7/8"	9
PFWP5BB97P	Polypropylene	Wound	5	5	9-7/8"	9
PFWP10BB97P	Polypropylene	Wound	10	5	9-7/8"	9
PFWP20BB97P	Polypropylene	Wound	20	5	9-7/8"	9
PFWP30BB97P	Polypropylene	Wound	30	5	9-7/8"	9
PFWP50BB97P	Polypropylene	Wound	50	5	9-7/8"	9
PFWP.5BB20P	Polypropylene	Wound	0.5	5	20"	9
PFWP1BB20P	Polypropylene	Wound	1	5	20"	9
PFWP5BB20P	Polypropylene	Wound	5	5	20"	9
PFWP10BB20P	Polypropylene	Wound	10	5	20"	9
PFWP20BB20P	Polypropylene	Wound	20	5	20"	9
PFWP25BB20P	Polypropylene	Wound	25	5	20"	9
PFWP50BB20P	Polypropylene	Wound	50	5	20"	9
PFWP60BB20P	Polypropylene	Wound	60	5	20"	9
PFWPX5BB97P	Fibrillated Polypropylene	Wound	5	10	9-7/8"	8
PFWPX10BB97P	Fibrillated Polypropylene	Wound	10	15	9-7/8"	8
PFWPX50BB97P	Fibrillated Polypropylene	Wound	50	30	9-7/8"	8

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Filter Cartridges



PFECP

PFECP Series Pleated Cellulose Cartridge

- Used for general water filtration purposes.
- This filter is comprised of 6 square feet of cellulose, providing maximum suface area and strength to prolong cartridge life.
- End caps fused to body assure an integral sealing area and prevent by-pass.
- Nominal 20 micron rating.
- Temperature Rating: 40-125°F

Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty
PFECP2020	Cellulose	Pleated	20	10	Standard	20"	14
PFECP20BB	Cellulose	Pleated	20	20	Big Blue	9-3/4"	8
PFECP2020BB	Cellulose	Pleated	20	20	Big Blue	20"	6



PFR

PFR Series Pleated Polyester Cartridges

- Excellent for water well, institutional and light industrial applications.
- Four square feet of media on standard and 20 square feet of media on BB
- Pleated polyester fabric filter can be washed and resued several times.†Reuse is not recommended in potable water applications.
- Synthetic construction will not support bacteria growth.
- Available with nominal 30 and 50 micron ratings.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty
PFR30	Polyester	Pleated	30	12	Standard	9-3/4"	24
PFR50	Polyester	Pleated	50	12	Standard	9-3/4"	24
PFR30BB	Polyester	Pleated	30	25	Big Blue	9 3/4"	8
PFR50BB	Polyester	Pleated	50	25	Big Blue	9 3/4"	8



PFCP

PFCP Series Pleated Cellulose Polyester Cartridges

- 6 sq. feet of media on standard and 16 sq.ft. on BB provide additional surface area and allow increased dirt holding capacity and low pressure drop
- Ideal for high flow applications.
- Cartridges are encapsulated in polyester outer sheath for added support.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty
PFCP5	Cellulose Polyester	Pleated	5	15	Standard	9-3/4"	24
PFCP20	Cellulose Polyester	Pleated	20	15	Standard	9-3/4"	24
PFCP5BB	Cellulose/Poly Blend	Pleated	5	30	Big Blue	9-3/4"	8
PFCP5-20BB	Cellulose/Poly Blend	Pleated	5	30	Big Blue	20"	6

Filter Cartridges



PFP Series Spun Polypropylene Fiber Cartridges

- Excellent bacteria and chemical resistance.
- Manufactured from pure 100% polypropylene.
- Fibers are carefully spun to form a cartridge w/ variable density. The density increases closer to core.
- Available in three different lengths and micron ratings

PFP

Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty
PFP5-478	Polypropylene	Spun	5	5	Compact	4-7/8"	24
PFP1	Polypropylene	Spun	1	10	Standard	9-7/8"	24
PFP5	Polypropylene	Spun	5	10	Standard	9-7/8"	24
PFP25	Polypropylene	Spun	25	10	Standard	9-7/8"	24
PFP1-20	Polypropylene	Spun	1	20	Standard	20"	20
PFP5-20	Polypropylene	Spun	5	20	Standard	20"	20
PFP25-20	Polypropylene	Spun	25	20	Standard	20"	20



PFDGD Spun Polypropylene Dual Gradient Cartridge

- Dual gradient filter included pre and post filtration reduce large and fine particles to enhance cartridge performance.
- Eliminates need for multiple housing step-down systems
- Three times the dirt holding capacity

PFDGD

Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty
PFDGD2501-10	Polypropylene	Spun	Pre 25/Post 1	10	Big Blue	10"	8
PFDGD2501-20	Polypropylene	Spun	Pre 25/Post 1	20	Big Blue	20"	6
PFDGD5005-10	Polypropylene	Spun	Pre 50/Post 5	10	Big Blue	10"	8
PFDGD5005-20	Polypropylene	Spun	Pre 50/Post 5	20	Big Blue	20"	6
PFDGD7525-10	Polypropylene	Spun	Pre 75/Post 25	10	Big Blue	10"	8
PFDGD7525-20	Polypropylene	Spun	Pre 75/Post 25	20	Big Blue	20"	6

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Filter Cartridges

Taste/Odor/Sediment Cartridges:

- Carbon Impregnated
- Granular Activated Carbon (GAC)
- Carbon Block



PFC1

PFC Series Carbon Impregnated Cellulose Cartridges

- Dual purpose cartridge provides taste/odor/chlorine reduction plus sediment filtration.
- A combination of carbon and cellulose creates a dual filter used for removing fine particles and reducing unwanted tastes and odors occasionally found in tap water.
- Excellent “polishing" filter when used in process or closed loop systems.
- Design maximuzed dirt holding capacity.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty
PFC2	Carbon/Cellulose	Wrap	5	2500 @ 2 gpm	Compact	4 3/4"	24
PFC1	Carbon/Cellulose	Wrap	5	5000 @1 gpm	Standard	9 7/8"	24
PFC1-20	Carbon/Cellulose	Wrap	5	10,000 @1 gpm	Standard	20"	14



PFGAC PFCC

PFGAC Series Granular Activated Carbon (GAC) Cartridges

- Designed to reduce or eliminate unwanted tastes and odors such as chlorine.
- Water enters the filter from the bottom and travels through the entire charcoal bed before exiting at the top. This filtration technique maximizes contact time with carbon to insure maximum absorption.
- Internal expansion pad maintains a tight compact column to minimize channeling or by-pass.
- Nominal 20 micron post filter reduces the content of carbon fines & suspended particles

PFCC Series Granular Activated Coconut Carbon Cartridges

- Coconut Shell based activated carbon to reduce organic chemicals like EDB, TCE & THM plus chlorine.
- Nominal 20 micron post filter to reduce carbon fines and other particles.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty
PFGAC10	Granular Carbon	Canister	N/A	5000 @ 1gpm	Standard	9 7/8"	12
PFGAC20	Granular Carbon	Canister	N/A	10000 @ 2gpm	Standard	20"	6
PFGACBB	Granular Carbon	Canister	N/A	12500 @ 2gpm	Big Blue	9 3/4"	8
PFGAC20BB	Granular Carbon	Canister	N/A	30000@ 4gpm	Big Blue	20"	10
PFCC10	Granular Carbon	Canister	N/A	7500 @ 1gpm	Standard	9 3/4"	12

Filter Cartridges



PFCEP



PFCBC



PFCBR

PFCEP Series Carbon Block Cartridges

- Designed for post RO applications.
- Minimizes chlorine and pH rise and produces low extractables.
- Acid washed coconut formulation
- Light brown end cap

PFCBC Series Carbon Block Cartridges

- Designed to reduce VOC's, chlorine, color bodies, plus remove fine sediment from the residual, commercial & industrial liquids. Filters giardia & cryptosporidium cysts from potable water.
- High chemical adsorption provided by acid washed bituminous powdered, activated carbon block.
- Sediment filter eliminates unwanted particles down to 0.5 nominal micron.
- Excellent polishing filter or prefilter.

PFCBR Series Carbon Block Multimedia Cartridge

- Removes both metals and chemicals with one cartridge.
- All purpose carbon block cartridge removes unpleasant tastes and odors plus greatly reduces the amount of dissolved heavy metals and the taste of chlorine.
- Removes lead up to 96% and mercury up to 98%.
- Also removes up to 99% of giardia and cryptosporidium cysts and sediment particles down to .5 micron in size.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty
PFCEPBB20	Acid washed	Carbon Block	5	32000 @ 4 gpm	Big Blue	20"	6
PFCBC10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4"	12
PFCBC20	Acid washed	Carbon Block	0.5	45000 @ 1 gpm	Standard	20"	12
PFCBCBB	Acid washed	Carbon Block	0.5	50000 @ 2 gpm	Big Blue	9 3/4"	4
PFCBCBB20	Acid washed	Carbon Block	0.5	150000 @ 4 gpm	Big Blue	20"	6
PFCBR2-10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4	12

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Specialty Cartridges



PFRFC Series Radial Flow Carbon Cartridges

- Radial flow carbon cartridge designed for gas and liquid filtration.
- Activated carbon bed and inner layers of polypropylene remove particles over nominal 7 microns.
- Removes organic and particulate contaminates from plating, acid alkaline and hydrocarbon solutions when used for liquid filtration.

PFRFC

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty
PFRFCBB	Carbon/Polypropylene	Canister	25	3-10	Big Blue	9 3/4"	8
PFRFC20BB	Carbon/Polypropylene	Canister	25	5-15	Big Blue	20"	6

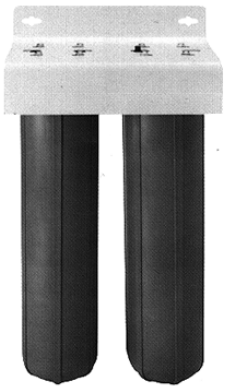
Filter Kits, Systems & Accessories



Housing & Cartridge Combination Kit Features:

- Each kit contains one complete housing, one cartridge and installation sheet.

Part No.	Size	Sump	Cartridge
Housing & Cartridge Combination Kits			
PFH75C-C1	3/4" standard	transparent	taste/odor/sediment



BBFS22

BBFS Filtration System Features:

- Large capacity, multi-housing system.
- Allows for greater cartridge capacity and high flow rates.
- Consists of (2) or (3) 20" big Blue Filter housings with 1" NPT I/O mounting bracket.
- Designed for residential, commercial and industrial applications.
- System does NOT include filter cartridges.

Part No.	Description
BBFS22	2 housing Big Blue System (15 1/4" x 8 1/2" x 26 1/2")
BBFS222	3 housing Big Blue System (23 1/4" x 8 1/2" x 26 1/2")

"PF" Series Housing Replacement Parts:

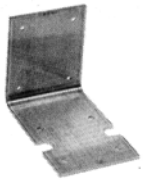
Including replacement heads, sumps, o-rings, mounting brackets and wrenches.



PFMB75



PFMC1



PFWBBS



PFSW

Part Number	Description	Ctn Qty
PF75CS	Clear Sump for 3/4" Housing	1
PFBBS	Big Blue Sump only	1
PFOR38	O-Ring for 3/8" Series	1
PFOR75	O-Ring for 3/4" Series	1
PFBBOR	O-Ring for Big Blue	1
PFMB3814	Mounting Bracket for 3/8"	1
PFMB75	Mounting Bracket for 3/4" - U Shaped	1
PFMC1	Mounting Bracket for 3/4" caps w/ Bosses	1
PFWBBS	Mount Bracket for 1-1 1/2"Big Blue, Zinc plated	1
Housing Wrenches		
PFSW1	3/8" Black Wrench for Slimline Housing	1
PFSW2	3/4" Black Wrench for Standard Housing	1
PFSW3	Black Wrench for Large Diameter Housing	1

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PFOA/PFOS Filtration Systems

PFOA/PFOS Filtration Systems Features:

- Professional grade PFOA/PFOS reduction systems for whole house or point of use undersink applications.
- Systems are certified by IAPMO R&T to reduce up to 98% of PFOA/PFOS, commonly known as “forever chemicals".
- Complete systems include housing, cartridge, wrench, mounting bracket with screws and installation and operation manual.
- Integrated pressure relief valve for easier cartridge change-outs.

Systems Certified by IAPMO R&T to NSF/ANSI 53



CHLORPLUS PROTECT™ System Features:

- For undersink point of use.
- 10" filter housing
- 3/4" FPT inlet
- Maximum 1 gpm service flow rate.
- Also features premium sediment, chlorine and chloramine reduction.

Part No.	Description	Ctn Cty
150742	Chlorplus™ Protect 10" undersink system kit	1
655226-43	Chlorplus™ Protect 10" replacement cartridge	12



FLOPLUS PROTECT System Features:

- Whole house use.
- 20" filter housing
- 1 1/4" FPT inlet
- Maximum 5 gpm service flow rate.
- Maximum filtration with minimum pressure drop.

Part No.	Description	Ctn Cty
150736	FloPlus Protect 20"BB whole house system kit	1
655223-43	FloPlus Protect 20" BB replacement cartridge	6

Specifications:

SYSTEM	CHLORPLUS	FLOPLUS
Housing Size:	10" Heavy Duty	20" Heavy Duty
Inlet Size:	3/4" FPT	1 1/2" FPT
Flow Rate:	1 gpm	5 gpm
Housing Material:	Polypropylene	Polypropylene
System Dimensions:	5.13" W x 12.23" H	7.45" W x 23.22"H
Cartridge Type:	Carbon Block	Fibredyne Carbon Block
Micron Rating:	1	0.5
Capacity:	1,000 gal	15,000 gal
Approx. Filter Life:	4-5 months	4-5 months
Contaminant Reduction:	PFOA/PFOS	PFOA/PFOS
Certification:	NSF/ANSI Std. 53	NSF/ANSI Std. 53
Feed Pressure Range:	0-125 psi	30-90 psi
Temperature Range:	40°-100°F	40°-100°F
Replacement Cartridge:	655226-43	655223-43

Installation and Operation Tips:

- Choose a mounting location suitable to support the full weight of the system while operating.
- Make sure to properly lubricate the 0-ring prior to use.
- Install vertically with sump hanging down.
- Allow clearance below the cartridge for easy replacement.
- Replace cartridge if flow rate decreases.
- Do not exceed service flow rate.
- Inspect o-ring during each cartridge change. Lubricate or replace if necessary.
- Filter life dependent on gallon usage and overall incoming water quality.
- Please install a 5 micron sediment filer before these systems.

Chlorplus™ is a trademark of Pentair.

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Iron Out®



Super Iron Out®

Removes the toughest rust and iron stains quickly and easily from white clothes, laundry, toilets, sinks, tubs, dishwashers, exterior surfaces and much more. Also keeps water softeners clean and operating at peak efficiency.

Part Number	Description	Ctn Qty
IOUT30	Iron Out, 28 oz.	6
IOUT5	Iron Out, 76 oz.	6

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Harmsco® Filters



NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Harmsco™ Up Flow Cartridge Filtration

HARMSCO® Filtration Products

A design so superior it's patented!

Harmsco® Up-Flow Cartridge filters outperform conventional filter designs because the outlet is located above the inlet to eliminate air entrapment during operation. With Up-Flow Filters, liquid enters the vessel through the inlet, located at the bottom of the filter. As the liquid travels upward, it flows through the media, past the top seal, separating the dirty and clean water chambers, and down the standpipe as it exits the filter. Because the top of the standpipe is located above the top seal, air is self-purged from the filter to eliminate vents and improve filtration efficiency.

Features:

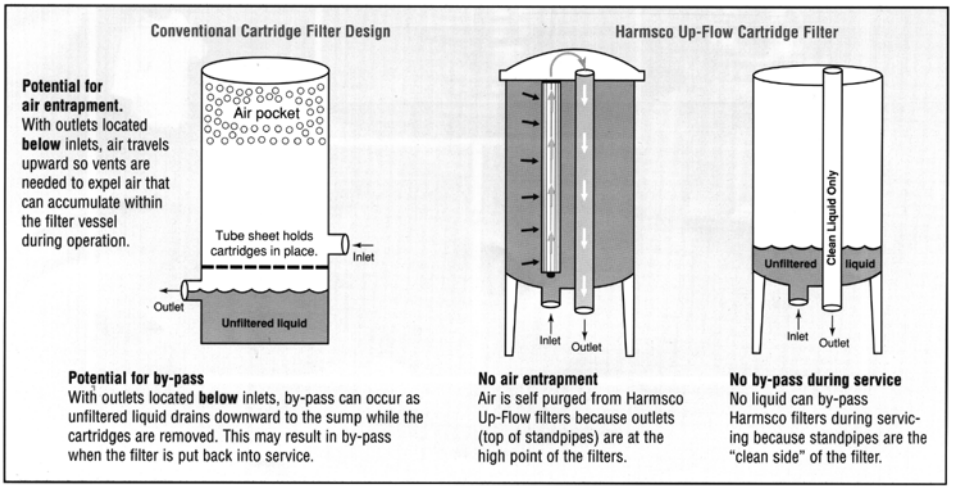
- Constructed of low carbon 304 stainless steel for durability and long life.
- All stainless steel components are electro-polished for superior finish, resistance to corrosion an dincreased durability.
- Individual studs for optium security. No v-clamps with only one bolt to secure lids.
- Wing nuts are used so no tools are required. Finger tight is generally suffi cient. Hex nuts are recommended with 75 ft-lbs. or torque above 100 psi.
- All filters are pressure rated to 150 PSI (10bar) and hydrostatically tested.
- Cartridges in some models are arranged in a single "cluster" for easy cartridge installation, removal and service.

Typical Applications:

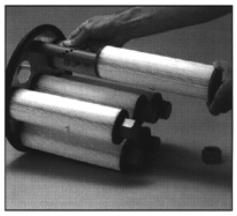
- Drinking water
- Bottled water
- Ground Water
- Asbestos abatement
- Chill water
- Industrial
- Process water
- Beverages
- Surface water
- Plating baths
- Desalination prefilters
- Commercial
- R/O pre-filtration
- Drinking fountains
- Rinse water
- Cooling water
- Ultrafiltration
- Municipal
- Industrial waste water
- Whole house filtration
- Environmental
- Heating loops
- Spray nozzles

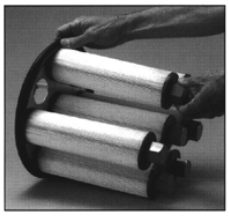
Harmsco Up-Flow Filters Outperform the Competition!

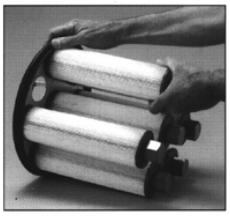
With conventional cartridge filter designs, inlets are located **above** outlets. Therefore, vents are required to relieve air that can accumulate within the filter vessel during operation. By-pass can also occur when unfiltered liquid drains to the sump while the cartridges are removed, when the filter is put back in service. Please see diagrams, below:

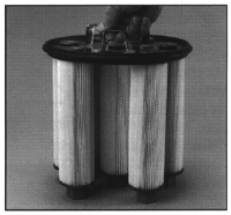


Easy Cartridge Installation and Replacement:


Install cartridge on holding rod.


Tighten threaded pipe cap securely.

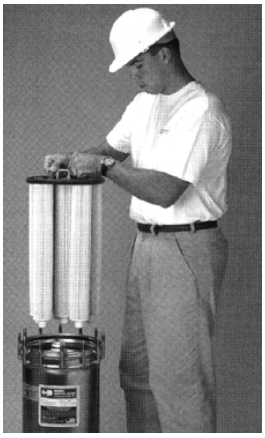

Hold cartridge by end cap and rotate until secure.


Cartridge cluster is ready for installation.

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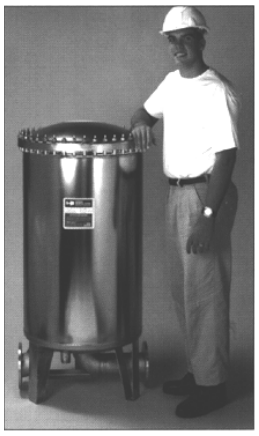
Harmsco® Filters

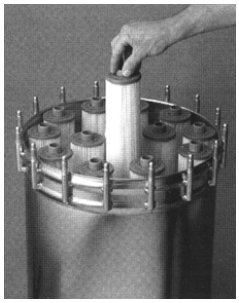
Two Filter Styles
Cartridge Cluster Filters and High Capacity Models



Cartridge Cluster Filters

Cartridges in the HIF7, HIF14, HIF16, HIF21 and HIF24 models are arranged in a single "cartridge cluster", ao all cartridges are removed at one time.

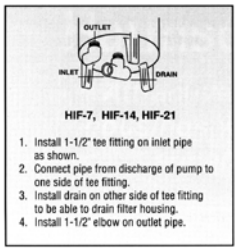




Hi Capacity Filters

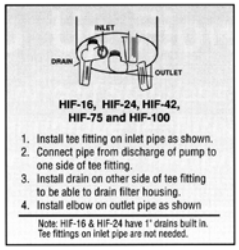
Cartridges in the HIF42, HIF75, HIF100, HIF150-FL, HIF200FL models are installed on lifting rods so a single stack of cartridges are removed at one time for convenience.

Typical Installations:



HIF-7, HIF-14, HIF-21

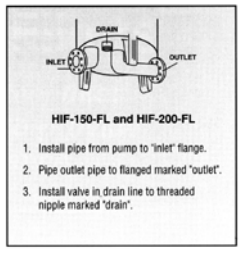
1. Install 1-1/2" tee fitting on inlet pipe as shown.
2. Connect pipe from discharge of pump to one side of tee fitting.
3. Install drain on other side of tee fitting to be able to drain filter housing.
4. Install 1-1/2" elbow on outlet pipe.



HIF-16, HIF-24, HIF-42, HIF-75 and HIF-100

1. Install tee fitting on inlet pipe as shown.
2. Connect pipe from discharge of pump to one side of tee fitting.
3. Install drain on other side of tee fitting to be able to drain filter housing.
4. Install elbow on outlet pipe as shown

Note: HIF-16 & HIF-24 have 1" drains built in. Tee fittings on inlet pipe are not needed.



HIF-150-FL and HIF-200-FL

1. Install pipe from pump to "inlet" flange.
2. Pipe outlet pipe to flanged marked "outlet".
3. Install valve in drain line to threaded nipple marked "drain".

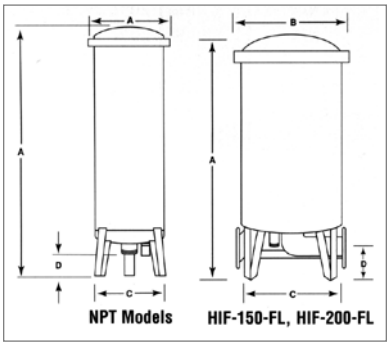
Specifications:

Filter Vessel & Metal components	Low carbon 304 stainless steel, electro polished
Rods & standpipes	CPVC, standard models; 304 stainless steel, all stainless models
Pipe caps	CPVC, standard models; 304 stainless steel, all stainless models
Rim gaskets	EPDM, standard. Buna-N and Viton available
O-Rings	Buna-N, standard. EPDM and Viton available
Bottom seals	Natural gum rubber, standard; EPDM and Buna-N available
Wing Nuts	Brass, Brass nuts and stainless steel flat washers available
Temperature	Rated to 140°F (60°C) with CPVC rods, pipe caps, stanf pipes & standard Harmsco cartridges. To 200°F (93°C) for all stainless models with stainless steel rods, pipe caps, standpipes and Harmsco High-temp cartridges . Temperature limits vary and depend on pressure & time under load.
Pressure	Rated for pressure to 150 psid(10 bar) maximum.
Flow	Typical flow rates are 3-6 GPM per single length 9 3/4" Harmsco cartridges.

Chemical Resistant Coatings:



Harmsco™ filters are available with a DYKOR coating, a high performance material like PTFE used to provide increaded resistance to chemicals, abrasion & the environment. The coating is applied to all stainless steel surfaces (inside & out).



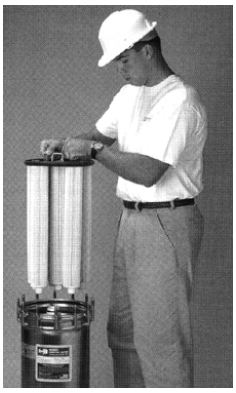
Dimensions:

Model	A	B	C	D	Service Height	Inlet/ Outlet	Drain
HIF7	19 1/2"	13"	13"	3 1/2"	35"	1 1/2" NPT	None*
HIF14	28"	13"	13"	3 1/2"	48"	1 1/2" NPT	None*
HIF16	28"	13"	13"	4"	48"	2" NPT	1" NPT
HIF21	37"	13"	13"	3 1/2"	68"	1 1/2" NPT	None*
HIF24	37"	13"	13"	4"	68"	2" NPT	1" NPT
HIF42	40"	18"	18"	5 3/8"	68"	2" NPT	None*
HIF75	42"	20"	20"	5 7/8"	70"	3" NPT	None*
HIF100	52"	20"	20"	5 7/8"	87"	3" NPT	None*
HIF150FL	48"	28"	28"	5 3/16"**	76"	4" Flange	1 1/2" NPT
HIF200FL	58"	28"	28"	5 3/16"**	93"	4" Flange	1 1/2" NPT

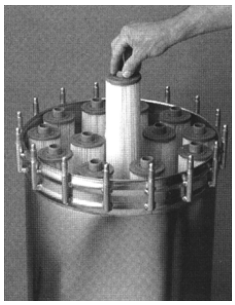
* Install tee fittings and valve on inlet for drain. ** To center of flange fittings.

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Harmsco® Filters



Cluster Models



High Capacity Models

Harmsco™ Filters Features:
Cartridge Cluster Models:

- Entire set of filter cartridges is removed at one time for cleaning or replacement.
- Filter rack assembly is made of CPVC (stainless steel available)
- Rugged 304 electro-polished stainless steel housing.
- Individual studs for safe, secure lid closure.
- Brass wing nuts for hand tightening.
- Pressure rated to 150 PSI.
- For whole house, commercial, industrial, municipal applications.

High Capacity Models:

- Same features as above with:
- CPVC lifing rods to remove a single stack of cartridges at one time.

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



HIF 7-100

Part Number	HIF21	HIF24
Flow Rate (USGPM)	Up to 90	Up to 100
Flow Rate (LPM)	Up to 340	Up to 397
Flow Rate (M3HR)	Up to 21	Up to 24
# of Std Cartridges	21	24
Alternative cartridge	Triples	Triples
Pipe size	1 1/2" NPT	2" NPT
Filter Height	37"	37"
Floor space required	13" x 13"	13" x 13"
Service Height clearance	68"	68"
Shipping weight	50 lbs.	50 lbs.
Carton dimensions	14"x14"x41"	14"x14"x41"

*cartridges not included



HIF - FL Series

Part Number	HIF42	HIF75
Flow Rate (USGPM)	Up to 175	Up to 300
Flow Rate (LPM)	Up to 662	Up to 1135
Flow Rate (M3HR)	Up to 42	Up to 75
# of Std Cartridges	42	75
Alternative cartridge	Triples	Triples
Pipe size	2" NPT	3" NPT
Filter Height	40"	42"
Floor space required	18"x18"	20"x20"
Service Height clearance	68"	70"
Shipping weight	100 lbs.	129 lbs.
Carton dimensions	19"x19"x43"	23"x23"x53'

*cartridges not included

Recommended flow rates for guidelines only. Typical flow rates are 3 to 6 GPM per 9 3/4" cartridge. Standard Harmsco Up-Flow filter housings and filter cartridges rated for temperatures to 140°F (60°C) ratings based on pressure and time under load. All stainless filter housings and high temperature cartridges recommended for temperature over 140°F (60°C) to 200°F (93°C).

Harmsco® Filters



HUR-AP Series

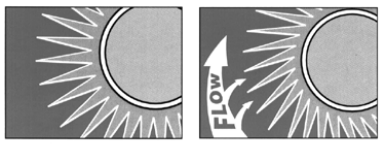
Harmsco™ Hurricane Filters

It's a Separator & Cartridge Filter in One

Hurricane filters provide unsurpassed performance becuase they separate dense solids prior to cartridge filtration for extended filter life, increased dirt holding capacity and reduced maintenance costs. In many respects Hurricane filters are two filters in one. Components include outer chamber for particle separation, inner chamber for cartridge filtration and built-in drain for purge, if required.

Features:

- Outer chamber collects heavy solids at the bottom due to centrifugal force & rotational flow.
- Inner chamber filters liquid through a single cartridge. Liquid enters the filter tangentially to provide rotational flow and centrifugal force for partical separation. Liquid flows out of the filter through the standpipe and outlet fitting.
- Rotational flow pattern continuously "fluffs" filter cake to increase dirt and debris holding capacity to extend filter life and time between cleaning.
- In heavy solid applications, manual or automatic valves may be used to purge solids from the outer chamber. Tests demonstrate approximately half of the heavy solids, like sand, separate prior to the filtration chamber at 50 GPM.
- Constructed of low carbon 3/4 stainless steel for durability and long life.
- All stainless steel components are electro-polished for superior finish, resistance to corrosion & increased durability. (Special chemical resistant coatings available.)
- Fail safe lids with individual studs for optium security. No v-clamps with only one bolt to secure lids.
- Bronze wing nuts are used so no tools are required. Finger tight is generally sufficient. Hex nuts are recommended with 75 ft-lbs. of torque above 100 psi.
- 90° elbow and 45° sweep on outlet for staggered in-line installation.
- CPVC standpipe for up-flow design.
- 1/4" couplers are installed in inlet and outlet fittings for pressure gauges.

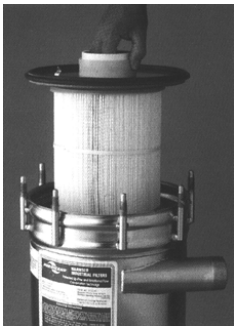


Conventional straight pleat Angled Hurricane pleat

Unlike convential designs, Hurricane's patented cartridges are made with deep, angles pleats to direct the flow into the pleated area for increased solids removal.

Single "Jumbo" Cartridge Filter

Design of a single, jumbo cartridge is easy to install, remove, clean and replace. Hurricane Cartridges are cleanable and re-usable in most applications.





Part Number	HUR40HP	HUR170HP
Flow Rate (USGPM)	Up to 50	Up to 150
Flow Rate (LPM)	Up to 189	Up to 568
Flow Rate (M3HR)	Up to 12	Up to 36
Pipe size (NPT)	2"	2"
Drain (NPT)	1"	1"
Filter Height	21"	41"
Floor space required	15" x 15"	15" x 15"
Service Height clearance	31"	72"
Shipping weight	40 lbs.	64 lbs.

*cartridges not included

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Harmsco® Filter Cartridges



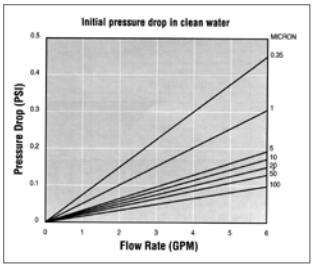
801 Series

Genuine Harmsco® Filter Cartridge Features:

- Heavy duty filter applications.
- Pleated polyester design for more surface area, longer life.
- **Six Sq Ft**. of filtration, 50% more than the competition per 9 3/4". (12 sq ft for 19 1/2")
- Thermally bonded construction with FDA listed materials.
- Color coded & branded end caps for easy micron identification.
- Cleanable, reusable in most applications.
- Low pressure drop.
- Individually wrapped.

Specifications:

Media:	Polyester-Plus™
End Caps:	Plastisol (pliable PVC)
Center tubes:	Rigid PVC perforated
Surface Area:	Approx 6 sq.ft. (9 3/4")
Temp limit:	Up to 140°F depending on time & load
pH:	3-11
Flow rate:	3-6 GPM per 9 3/4"
Dimensions:	2 3/4" OD, 1 1/16" ID



Part Number	Micron Size	Cap Color	OD	Length	Ctn Qty
801-0.35-W	0.35	Brown	2 3/4"	9 3/4"	24
801-1-W	1	Tan	2 3/4"	9 3/4"	24
801-5-W	5	White	2 3/4"	9 3/4"	24
801-10-W	10	Red	2 3/4"	9 3/4"	24
801-20-W	20	Blue	2 3/4"	9 3/4"	24
801-50-W	50	Yellow	2 3/4"	9 3/4"	24
801-100-W	100	Green	2 3/4"	9 3/4"	24
921-20-W	20	Blue	2 3/4"	19 1/2"	24



HB Series

Harmsco® Calypso Blue™ Filter Cartridge Features:

- Premium quality made of pleated polyester filter media for long life and high dirt holding.
- Cartridges can be cleaned and reused in most applications.
- Individually shrink wrapped.

Part Number	Micron Size	OD	Length	Ctn Qty
HB-10-0.35-W	0.35	4 1/2"	9 3/4"	8
HB-10-1-W	1	4 1/2"	9 3/4"	8
HB-10-5-W	5	4 1/2"	9 3/4"	8
HB-10-50-W	50	4 1/2"	9 3/4"	8
HB-20-1-W	1	4 1/2"	20"	4
HB-20-5-W	5	4 1/2"	20"	4
HB-20-20-W	20	4 1/2"	20"	4
HB-20-50-W	50	4 1/2"	20"	4



HAC10W

Genuine Harmsco® Activated Carbon Filter Cartridge Features:

- Composite of pulverized activated carbon & polyolefin fibers bonded together.
- 5 micron rating.
- Max temp 160°F.
- Substantially removes chlorine, organic chemicals, tastes and odors.
- Max capacity; 3000 gal.chlorine, 500 gal. organic chemicals.

Part Number	Micron Size	OD	Length	Ctn Qty
HAC10W	5	2 3/4"	9 3/4"	24

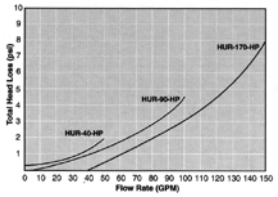
Harmsco® Filter Cartridges



HC Series

NSF Certified to ANSI-NSF 61

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



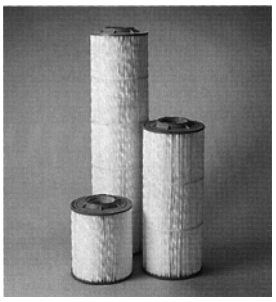
Pressure drop shown above is for filter housing and 20 micron filter cartridge in clean water. Data developed by NSF International.

Genuine Hurricane Replacement Cartridge Features:

HARMSCO® Filtration Products

- Standard pleated polyester filter elements.
- Polyester-Plus™ filter media is cleanable and reusable in most applications.
- Rated to 140°F and to 50 psi.
- Separates solids in liquids with pH of 3 to 11.
- Cartridge OD 7 3/4", ID 3" FPT
- Packaged one per carton.

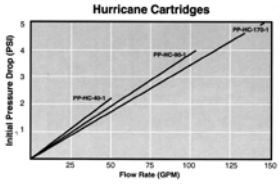
Part Number	Micron Size	Length	Ctn Qty
HUR40HP Replacement Cartridges			
HC40-1	1	9 5/8"	1
HC40-5	5	9 5/8"	1
HUR90HP Replacement Cartridges			
HC90-0.35	0.35	19 1/2"	1
HUR170HP Replacement Cartridges			
HC170-5	5	30 3/4"	1
HC170-20	20	30 3/4"	1



PP Series

NSF Certified to ANSI-NSF 61

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



Data include cartridge and Hurricane filter housing.

Genuine Hurricane Poly-Pleat™ Replacement Cartridge Features:

- Designed for drinking water applications to remove **cryptosporidium** and **Giardia Cysts**.
- Rated to 140°F
- Polypropylene filter media offers compatability with many aggressive chemicals.
- PP-S Series Cartridges OD 2 3/4"
- PP-BB Series Cartridges OD 4 1/4"
- PPHC Series Cartridge OD 7 3/4", ID 3" FPT.
- Individually wrapped.

Part Number	Micron Size	Length	Ctn Qty
PP-S-1	1 absolute	9 3/4"	24
PP-BB-10-1	1 absolute	9 3/4"	8
PP-BB-20-1	1 absolute	19 1/2"	1
PPHC40-1	1 absolute	9 5/8"	1
PPHC90-1	1 absolute	19 1/2"	1

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Vu-Flow Screen Filters



NO LEAD
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Vu-Flow Filter Features:

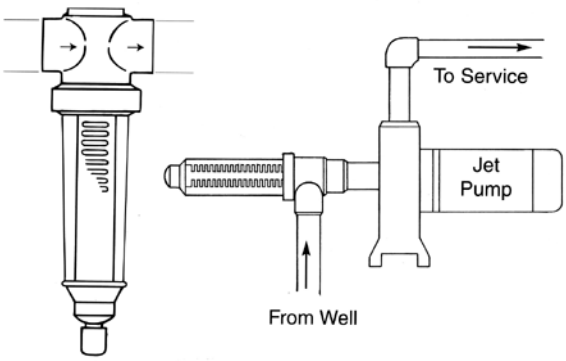
- Easy installation on suction or discharge side of pump.
- Filtered material collects on the outside of the screen, making it easy to clean.
- Clear polycarbonate housing permits instant visual inspection.
- Molded PVC filter body allows glue together installation similar to standard PVC pipe fittings.
- Molded from UV stabilized weather resistant materials for long service life.
- Most models have 1/2" MNPT cover drain outlet for quick one step purge cleaning.
- Inlet and outlet slip can be bushed to fit required pipe size.
- Polyester screens are easily cleaned and re-used eliminating expensive replacement.
- Stainless steel screens are available on some filters.
- Maximum operating pressure: 150 psi @ 73°F.
- Flow rates from 1-100 gallons per minute.
- Screen mesh sizes smaller than 250 (61 microns) are supported with No. 30 mesh to assure durability.

- **WATER USE ONLY**

EQUIVALENCY CHART

MESH	MICRONS	INCHES
24	711	0.028
* 30	533	0.021
40	381	0.015
* 60	254	0.010
* 100	152	0.006
* 140	104	0.004
250	61	0.0024
500	30	0.0012
1000	15	0.0006

* Also available with stainless steel by special order



INSTALLATION

- Install on suction or discharge side of system.
- Install on discharge to allow use of purge valve for easy one step purge cleaning. * Do not install filters with purge valves on suction side of pump.
- Manifold two or more filters for applications with flow rates higher than 100 GPM.
- Hand tighten only - Use of tools voids warranty

Vu-Flow Screen Filters



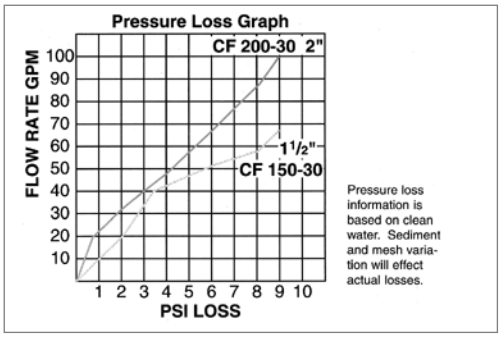
CF Series

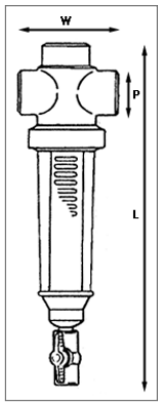
NO LEAD
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Third Party Certified to NSF / ANSI 372

Combination Style Screen Filter Features:

- Installs as a 90° "L" or 180° in-line "T" installation.
- 10-100 GPM models.
- 1-1/4" plug (supplied) adds versatility to unused outlet.
- Maximum pressure: 150 PSI @ 73ºF.
- 1/2" MPT drain cleanout with purge valve.
- Supplied with polyester filter screens.

- **WATER USE ONLY**





Part Number	Inlet/Outlet "P" Slip x Slip x Slip	Mesh # Size	Mesh # Opening	Min*/Max Flow GPM	"L"	"W"
CF150-24P	1 1/2"	24 (711 mic)	0.028	10-50	16 5/8"	5 1/4"
CF150-40P	1 1/2"	40 (381 mic)	0.015	10-50	16 5/8"	5 1/4"
CF150-60P	1 1/2"	60 (254 mic)	0.0100	10-50	16 5/8"	5 1/4"
CF150-100P	1 1/2"	100 (152 mic)	0.006	10-50	16 5/8"	5 1/4"
CF150-140P	1 1/2"	140 (104 mic)	0.004	10-50	16 5/8"	5 1/4"
CF150-250P	1 1/2"	250 (61 mic)	0.0024	10-50	16 5/8"	5 1/4"
CF150-500P	1 1/2"	500 (30 mic)	0.0012	10-50	16 5/8"	5 1/4"
CF150-1000P	1 1/2"	1000 (15 mic)	0.0006	10-50	16 5/8"	5 1/4"
CF200-24P	2"	24 (711 mic)	0.028	18-100	18 7/8"	5 1/2"
CF200-40P	2"	40 (381 mic)	0.015	18-100	18 7/8"	5 1/2"
CF200-60P	2"	60 (254 mic)	0.0100	18-100	18 7/8"	5 1/2"
CF200-100P	2"	100 (152 mic)	0.006	18-100	18 7/8"	5 1/2"
CF200-140P	2"	140 (104 mic)	0.004	18-100	18 7/8"	5 1/2"
CF200-250P	2"	250 (61 mic)	0.0024	18-100	18 7/8"	5 1/2"
CF200-500P	2"	500 (30 mic)	0.0012	18-100	18 7/8"	5 1/2"

• Do not use metal valve or fitting on 1/2" drain connection.
• Do not install filters with purge valve on suction side of pump.
* Minimum flow needed for "spin-out" action.

Carton Quantity of 10 for all products

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Vu-Flow Screen Filters



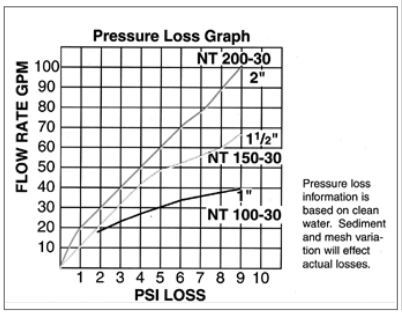
NT Series

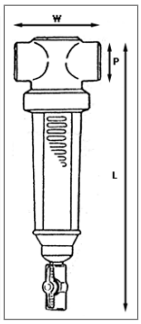
T Style Screen Filter Features:

- 180° in-line "T" style installation.
- 1-100 GPM models.
- 1/2" MPT cleanout with purge valve.
- Supplied with polyester filter screens.

- **WATER USE ONLY**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372





Part Number	Inlet/Outlet "P"	Mesh # Size	Mesh Opening	Min*/Max Flow GPM	"L"	"W"
IPS x IPS						
NT75-24P	3/4" x 3/4"	24 (711 mic)	0.028	1-25	11 3/8"	5"
NT75-60P	3/4" x 3/4"	60 (254 mic)	0.010	1-25	11 3/8"	5"
NT75-100P	3/4" x 3/4"	100 (152 mic)	0.006	1-25	11 3/8"	5"
NT75-140P	3/4" x 3/4"	140 (104 mic)	0.004	1-25	11 3/8"	5"
NT75-250P	3/4" x 3/4"	250 (61 mic)	0.0024	1-25	11 3/8"	5"
NT75-500P	3/4" x 3/4"	500 (30 mic)	0.0012	1-25	11 3/8"	5"
NT75-1000P	3/4" x 3/4"	1000 (15 mic)	0.0006	1-25	11 3/8"	5"
Slip x Slip						
NT100-24P	1" x 1"	24 (711 mic)	0.028	1-25	11 3/8"	5"
NT100-30P	1" x 1"	30 (533 mic)	0.021	1-25	11 3/8"	5"
NT100-40P	1" x 1"	40 (381 mic)	0.015	1-25	11 3/8"	5"
NT100-60P	1" x 1"	60 (254 mic)	0.01	1-25	11 3/8"	5"
NT100-100P	1" x 1"	100 (152 mic)	0.006	1-25	11 3/8"	5"
NT100-140P	1" x 1"	140 (104 mic)	0.004	1-25	11 3/8"	5"
NT100-250P	1".x 1"	250 (61 mic)	0.0024	1-25	11 3/8"	5"
NT100-500P	1" x 1"	500 (30 mic)	0.0012	1-25	11 3/8"	5"
NT100-1000P	1" x 1"	1000 (15 mic)	0.0006	1-25	11 3/8"	5"
Slip x Slip						
NT150-24P	1-1/2" x 1-1/2"	24 (711 mic)	0.028	10-50	15 3/8"	5 1/4"
NT150-30P	1-1/2" x 1-1/2"	30 (533 mic)	0.021	10-50	15 3/8"	5 1/4"
NT150-40P	1-1/2" x 1-1/2"	40 (384 mic)	0.015	10-50	15 3/8"	5 1/4"
NT150-60P	1-1/2" x 1-1/2"	60 (254 mic)	0.010	10-50	15 3/8"	5 1/4"
NT150-100P	1-1/2" x 1-1/2"	100 (152 mic)	0.006	10-50	15 3/8"	5 1/4"
NT150-140P	1-1/2" x 1-1/2"	140 (104 mic)	0.004	10-50	15 3/8"	5 1/4"
NT150-250P	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	10-50	15 3/8"	5 1/4"
NT150-500P	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	10-50	15 3/8"	5 1/4"
NT150-1000P	1-1/2" x 1-1/2"	1000 (15 mic)	0.0006	10-50	15 3/8"	5 1/4"
Slip x Slip						
NT200-24P	2" x 2"	24 (711 mic)	0.028	18-100	17 7/8"	5 1/2"
NT200-30P	2" x 2"	30 (533 mic)	0.021	18-100	17 7/8"	5 1/2"
NT200-40P	2" x 2"	40 (384 mic)	0.015	18-100	17 7/8"	5 1/2"
NT200-60P	2" x 2"	60 (254 mic)	0.010	18-100	17 7/8"	5 1/2"
NT200-100P	2" x 2"	100 (152 mic)	0.006	18-100	17 7/8"	5 1/2"
NT200-140P	2" x 2"	140 (104 mic)	0.004	18-100	17 7/8"	5 1/2"
NT200-250P	2" x 2"	250 (61 mic)	0.0024	18-100	17 7/8"	5 1/2"
NT200-500P	2" x 2"	500 (30 mic)	0.0012	18-100	17 7/8"	5 1/2"
NT200-1000P	2" x 2"	1000 (15 mic)	0.0006	18-100	17 7/8"	5 1/2"

* Minimum flow needed for "spin-out" action.

• Do not install filters with purge valve on suction side of pump.

Carton Quantity of 10 for all products

Vu-Flow Screen Filters

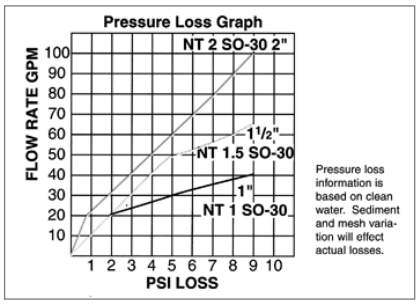


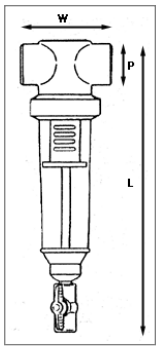
NT SO Series

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

T Style Sand Separator Filter Features:

- 180° in-line "T" style.
- 1-100 GPM models
- "Spin-out" action separates heavier than water particles away from screen into the collection chamber.
- Screen portion of element removes lighter than water particles.
- Extended sump provides greater collection area for sediment.
- Supplied with a 1/2" cleanout with purge valve.
- Supplied with polyester filter screens.
- **WATER USE ONLY**





Part Number	Inlet/Outlet "P"	Mesh # Size	Mesh Opening	Min*/Max Flow GPM	"L"	"W"
IPS x IPS (Female Thread 3/4" only)						
NT75SO-60P	3/4" x 3/4"	60 (254 mic)	0.01	1-25	14 3/8"	5
NT75SO-100P	3/4" x 3/4"	100 (152 mic)	0.006	1-25	14 3/8"	5
NT75SO-140P	3/4" x 3/4"	140 (104 mic)	0.004	1-25	14 3/8"	5
NT75SO-250P	3/4" x 3/4"	250 (61 mic)	0.0024	1-25	14 3/8"	5
Slip x Slip						
NT1SO-60P	1" x 1"	60 (254 mic)	0.01	1-25	14 3/8"	5
NT1SO-100P	1" x 1"	100 (254 mic)	0.006	1-25	14 3/8"	5
NT1SO-140P	1" x 1"	140 (104 mic)	0.004	1-25	14 3/8"	5
NT1SO-250P	1" x 1"	250 (61 mic)	0.0024	1-25	14 3/8"	5
Slip x Slip						
NT1.5SO-24P	1-1/2" x 1-1/2"	24 (711 mic)	0.028	10-50	15 3/8"	5 1/4"
NT1.5SO-30P	1-1/2" x 1-1/2"	30 (533 mic)	0.021	10-50	15 3/8"	5 1/4"
NT1.5SO-40P	1-1/2" x 1-1/2"	40 (384 mic)	0.015	10-50	15 3/8"	5 1/4"
NT1.5SO-60P	1-1/2" x 1-1/2"	60 (254 mic)	0.010	10-50	15 3/8"	5 1/4"
NT1.5SO-100P	1-1/2" x 1-1/2"	100 (152 mic)	0.006	10-50	15 3/8"	5 1/4"
NT1.5SO-140P	1-1/2" x 1-1/2"	140 (104 mic)	0.004	10-50	15 3/8"	5 1/4"
NT1.5SO-250P	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	10-50	15 3/8"	5 1/4"
NT1.5SO-500P	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	10-50	15 3/8"	5 1/4"
Slip x Slip						
NT2SO-24P	2" x 2"	24 (711 mic)	0.028	18-100	17 7/8"	5 1/2"
NT2SO-30P	2" x 2"	30 (533 mic)	0.021	18-100	17 7/8"	5 1/2"
NT2SO-40P	2" x 2"	40 (384 mic)	0.015	18-100	17 7/8"	5 1/2"
NT2SO-60P	2" x 2"	60 (254 mic)	0.010	18-100	17 7/8"	5 1/2"
NT2SO-100P	2" x 2"	100 (152 mic)	0.006	18-100	17 7/8"	5 1/2"
NT2SO-140P	2" x 2"	140 (104 mic)	0.004	18-100	17 7/8"	5 1/2"
NT2SO-250P	2" x 2"	250 (61 mic)	0.0024	18-100	17 7/8"	5 1/2"
NT2SO-500P	2" x 2"	500 (30 mic)	0.0012	18-100	17 7/8"	5 1/2"

•Do not use metal valve or fitting on 1/2" drain connections

• Do not install filters with purge valves on the suction side of pump

* Minimum flow needed for "spin-out" action.

Carton Quantity of 10 for all products

americangranby.com
Ph: 800-776-2266 Fax: 800-729-3299

Vu-Flow Screen Filters



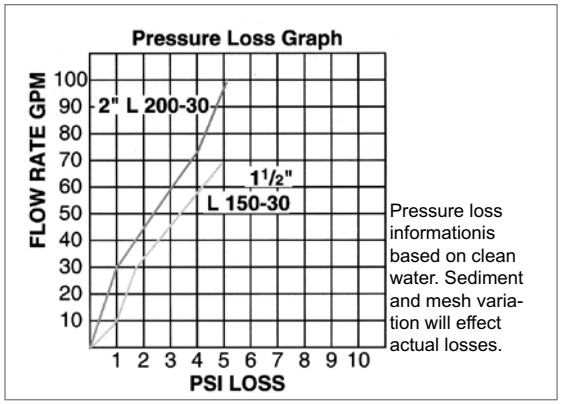
L Series

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

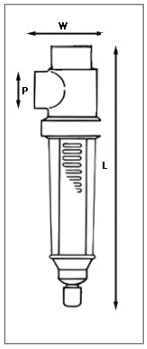
L Style Screen Filter Features:

- 90° "L" style installation.
- Install on suction or discharge side of pump.
- 0-100 GPM models.
- 1/2" MPT drain cleanout is not available on this model.
- Maximum pressure: 150 PSI @ 73ºF.
- Supplied with polyester filter screens.

- **WATER USE ONLY**



Pressure loss informationis based on clean water. Sediment and mesh variation will effect actual losses.



Part Number	Inlet/Outlet "P" Slip	Mesh # Size	Mesh Opening	Normal Flow GPM	"L"	"W"
L150-24	1-1/2" x 1-1/2"	24 (711 mic)	0.028	0-50	14 1/4	4-1/2
L150-30	1-1/2" x 1-1/2"	30 (533 mic)	0.021	0-50	14 1/4	4-1/2
L150-60	1-1/2" x 1-1/2"	60 (254 mic)	0.010	0-50	14 1/4	4-1/2
L150-100	1-1/2" x 1-1/2"	100 (152 mic)	0.006	0-50	14 1/4	4-1/2
L150-250	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	0-50	14 1/4	4-1/2
L150-500	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	0-50	14 1/4	4-1/2
L200-24	2" x 2"	24 (711 mic)	0.028	0-100	18	5 1/2"
L200-30	2" x 2"	30 (533 mic)	0.21	0-100	18	5 1/2"
L200-60	2" x 2"	60 (254 mic)	0.010	0-100	18	5 1/2"
L200-100	2" x 2"	100 (152 mic)	0.006	0-100	18	5 1/2"
L200-250	2" x 2"	250 (61 mic)	0.0024	0-100	18	5 1/2"
L200-500	2" x 2"	500 (30 mic)	0.0012	0-100	18	5 1/2"

"L" Style filters do not use purge valves.

Carton Quantity of 10 for all products

Vu-Flow Screen Filters



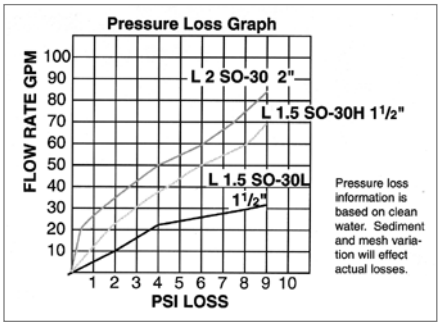
L SO Series

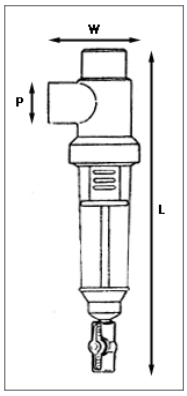
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

L Style Sand Separator Filter Features:

- 90° "L" style installation.
- "Spin out action"separates heavier than water particles away from the screen into the collection chamber.
- 5-90 GPM
- Screen portion of element removes lighter than water elements.
- Available in 5-20, 15-40 and 5-90 GPM models.(A minimum flow rate of 5 GPM is required to operate the filter).
- Extended sump provides greater collection area for sediment.
- 1/2" MPT cleanout with purge valve.
- Supplied with polyester filter screens.
- Available in Low Flow(LF) or High Flow(HF) models.

- **WATER USE ONLY**





Part Number	Inlet/Outlet Slip x Slip "P"	Mesh # Size	Mesh Opening	Min*/Max GPM	"L"	"W"
L1.5SO-60LFP	1-1/2"	60 (254 mic)	0.01	5-20	14 7/8"	4-1/2
L1.5SO-60HFP	1-1/2"	60 (254 mic)	0.01	15-40	14 7/8"	4-1/2
L1.5SO-100LFP	1-1/2"	100 (152 mic)	0.006	5-20	14 7/8"	4-1/2
L1.5SO-100HFP	1-1/2"	100 (152 mic)	0.006	15-40	14 7/8"	4-1/2
L1.5SO-140LFP	1-1/2"	140 (104 mic)	0.004	5-20	14 7/8"	4-1/2
L1.5SO-140HFP	1-1/2"	140 (104 mic)	0.004	15-40	14 7/8"	4-1/2
L1.5SO-250LFP	1-1/2"	250 (61 mic)	0.0024	5-20	14 7/8"	4-1/2
L1.5SO-250HFP	1-1/2"	250 (61 mic)	0.0024	15-40	14 7/8"	4-1/2
L1.5SO-500HFP	1-1/2"	500 (30 mic)	0.0012	15-40	14 7/8"	4-1/2
L2SO-60P	2"	60 (254 mic)	0.01	35-90	20 7/8"	5-1/2
L2SO-100P	2"	100 (152 mic)	0.006	35-90	20 7/8"	5-1/2
L2SO-140P	2"	140 (104 mic)	0.004	35-90	20 7/8"	5-1/2
L2SO-250P	2"	250 (61 mic)	0.0024	35-90	20 7/8"	5-1/2

• Do not use metal valve or fitting on 1/2" drain connection
• Do not install filters with purge valves on the suction side of pump
• LF suffix denotes low flow, HF suffix demotes high flow.
* Minimum flow needed for "spin-out" action.

Carton Quantity of 10 for all products

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Vu-Flow Replacement Screens

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

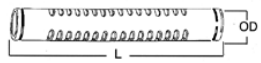
VU-FLOW

REPLACEMENT SCREENS FOR FILTERS



NT Screen	L	OD
NT30	5 1/8	1 1/8
NT60	8 1/8	1 5/8
NT120	10	1 7/8

3/4" & 1" NT Filters Part No.	1-1/2" NT or Combo Filters Part No.	2" NT or Combo Filters Part No.
NT30SC24	NT60SC24	NT120SC24
NT30SC30	NT60SC30	NT120SC30
NT30SC40	NT60SC40	NT120SC40
NT30SC60	NT60SC60	NT120SC60
NT30SC100	NT60SC100	NT120SC100
NT30SC140	NT60SC140	NT120SC140
NT30SC250	NT60SC250	NT120SC250
NT30SC500	NT60SC500	NT120SC500
NT30SC1000	NT60SC1000	NT120SC1000



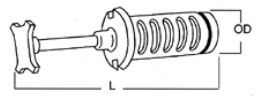
L Screen	L	OD
L60	9 7/8	1 5/8
L120	14 7/8	1 7/8

	1-1/2" L Filters Part No.	2" L Filters Part No.
	L60SC24	L120SC24
	L60SC30	L120SC30
	L60SC40	L120SC40
	L60SC60	L120SC60
	L60SC100	L120SC100
	L60SC140	L120SC140
	L60SC250	
	L60SC500	
	L60SC1000	L120SC1000

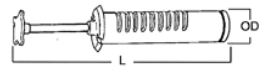
REPLACEMENT SCREENS FOR SAND SEPARATORS



NT Sep Scrn	L	OD
NT1SC	5 1/4	1 1/8



NT Sep Scrn	L	OD
NT1.5SC	8 1/8	1 5/8
NT2SC	10	1 7/8



L Sep Scrn	L	OD
L1.5SC	10	1 5/8
L2SC	13 3/4	1 7/8

3/4" & 1" NT Sand Separators Part No.	1-1/2" NT Sand Separators Part No.	2" NT Sand Separators Part No.
NT1SC24	NT1.5SC24	NT2SC24
NT1SC30	NT1.5SC30	NT2SC30
NT1SC40	NT1.5SC40	NT2SC40
NT1SC60	NT1.5SC60	NT2SC60
NT1SC100	NT1.5SC100	NT2SC100
NT1SC140	NT1.5SC140	NT2SC140
NT1SC250	NT1.5SC250	NT2SC250
NT1SC500	NT1.5SC500	NT2SC500
NT1SC1000	NT1.5SC1000	NT2SC1000

	1-1/2" L Sand Separators Part No.	2" L Sand Separators Part No.
		L2SC24
	L1.5SC30	L2SC30
	L1.5SC40	
	L1.5SC60	L2SC60
	L1.5SC100	L2SC100
	L1.5SC140	L2SC140
	L1.5SC250	L2SC250
	L1.5SC500	L2SC500
	L1.5SC1000	

Vu-Flow Strainers & Replacement Parts

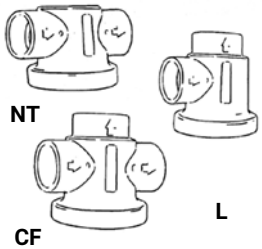
Basket Strainer Features:

- Intake screen for lakes or ponds
- High volume capacity, up to 100 GPM.
- Three mesh sizes.
- All PVC construction with easy clean nylon screen.
- Debris accumulates on outside of strainer screen.
- 2" IPS female inlet slip fittings.



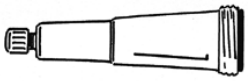
4BSK Series

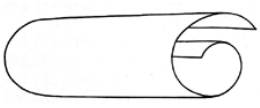
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



NT **L** **CF**







Part Number	Description	Ctn Qty
Basket Strainers		
4BSK24	2"x 4"x 24", 24 Mesh Nylon Screen	10
4BSK60	2"x 4"x 24", 60 Mesh Nylon Screen	10
4BSK100	2"x 4"x 24", 100 Mesh Nylon Screen	10
4BSK250	2"x 4"x 24", 250 Mesh Nylon Screen	10
Filter Bodies (HEADS)		
NT30B	1" NT Screen & NT Separator	1
NT60B	1-1/2" NT Screen & NT Separator	1
NT120B	2" NT Screen & NT Separator	1
CF60B	1-1/2" Combo Screen & Separator	1
CF120B	2" Combo Screen & Separator	1
L60B	1-1/2" L Screen	1
L120B	2" L Screen	1
L2B	2" L Separator	1
Screen Filter Covers (CLEAR SUMPS)		
NT30C	1" & 3/4" NT & Combo Style	1
NT60C	1-1/2" NT & Combo Style	1
NT120C	2" NT & Combo Style - CLEAR	1
NT120W	2" NT & Combo Style - WHITE	1
Separator Filter Covers (CLEAR SUMPS)		
NT1C	1" NT, Combo & L Style	1
"O" Ring Kits Separator & Screen Filter		
NT30S	1" & 3/4" NT & Combo Style	1
NT60S	1-1/2" NT & Combo Style	1
NT120S	2" NT & Combo Style	1
L60S	1-1/2" L Style	1
L120S	2" L Style	1
Cover Guard		
CG100	Black Filter Protector, 1"	1
CG150	Black Filter Protector, 1-1/2"	1
CG200	Black Filter Protector, 2"	1

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Automatic Ball & Flush Valves

VU-FLOW

NEW



APV Series

APV Series - Automatic Stainless Steel Ball Valve

Features:

- Use where automating water flow is required in residential, commercial, irrigation or agricultural applications.
- Reduces maintenance time and ensures optimal system performance.
- Integrated unit with 304 stainless steel ball valve.

Part Number	Description	Box/Case Qty
APV1/2	Automatic Ball Valve 1/2" SS304	6/12
APV3/4	Automatic Ball Valve 3/4" SS304	6/12
APV1	Automatic Ball Valve 1" SS304	6/12



AFV Series

AFV - Automatic Flush Valve Kit Includes:

- (2) 1/2" barb x 1/2" NPT male hose fittings
- (2) SAE size 8 SS worm drive clamps
- (24") 1/2" braid reinforced flexible PVC tubing. (Rated at 215 psi)
- Please Note: To insure optimum performance of automatic flush valve, it is recommended that you use the above rated tubing only.

KIT DOES NOT INCLUDE FILTER OR AUTOMATIC FLUSH VALVE.

Part Number	Description	Ctn Qty
AFV	Automatic Flush Valve	1
AFV-KIT	Automatic Flush Valve Kit	1

Specifications:	APV	AFV
Adjustable cycle time	Programable up to 99 hours	5 min - 24 hours
Working Pressure	145 PSI Max	200 PSIG
Full Port Ball Valve	1/2" 3/4" 1"	1/2" NPT
Valve Construction	304 Stainless Steel	Brass
Seals	FKM & PTFE	Reinforced PTFE
Voltage	9-24V AC/DC	115V, 1 Phase, 60 Hz
Current	500 mA Max	2.5 Amps
Adapter Output	12V DC, 1A (compatible)	
Adapter Input	100-240 V AC, 50/60 Hz, 0.5A Max	
Ambient Temperature		25°F to 165°F
Enclosure		Nema 4
Discharge Volume		1/2" NPT-.92
(Gal per cycle @ 30 PSIG)		
Discharge Time (non-adjustable)		3.5 seconds
Power Cord		8' heavy duty grounded

Warranty and Disclaimer

*A one year warranty applies to the original purchaser. The manufacturer warrants that the AFV will be free from original defects in material and workmanship. Manufacturer will **repair or replace** all parts without charge, found to be defective under normal use and service within the warranty period upon return of product at customer's expense.*

Ultraviolet Disinfection Systems

Ultraviolet disinfection is an effective way to provide bacteria free water for home or industry.

NO LEAD ✓ LEAD-FREE



UVSL Series

- Completely automatic.
- Compact and easy to install.
- No chemicals required.
- Low operating costs.
- Low maintenance.
- No taste or odor.

SAFE LITE Economy Series UV Disinfection System Features:

- Quick installation.
- Economical.
- 304 stainless steel chamber. Electropolished.
- Sight port to safely view operation.
- 8 gallon complete with flow control.



UV, UVGDS & UV-W Series

Standard Series UV Disinfection System Features:

UV Series:

- Constructed for wall mounting.
- 304 stainless steel chamber. Electropolished.
- Sight port to safely view operation.
- 7 & 15 gallon complete with flow control.

UV-W Series:

- Same as UV series with:
- Internal wiper unit for manual cleaning of quartz sleeve.
- 8 & 15 gallon complete with flow control.

UV-GDS Series:

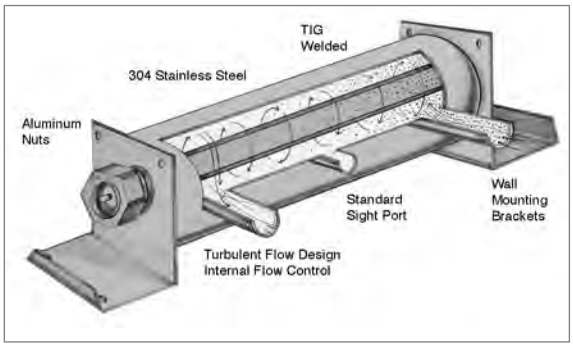
- Same as UV series with:
- 7 & 15 gallon complete with flow control. Remote flow control adder for 24 gallon (not included)
- Electronic built-in “lamp-out" circuit/alarm.
- ON/OFF indicator light.
- Standard auxillary output terminal for optional solenoid shut-off (UVS077 not included).
- Built in surge protector and fuse.

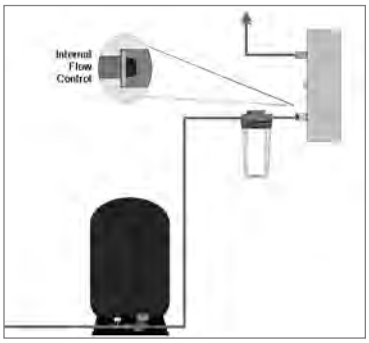
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Ultraviolet Disinfection Systems

NO LEAD
LEAD-FREE

Water entering the disinfection unit flows in the space between the quartz sleeve and the chamber wall. Turbulent flow through the unit insures exposure of micro-organisms to lethal dosages of ultraviolet rays. Water exiting the chamber is safe and ready to use.





Typical Installation

Part Number	Supplier Part #	Max GPM	# of Lamps	KW @ 120V	AMPS @ 120V	AMPS @ 220V	Pipe Size	Dimensions LxWxD	Weight	Lamp Out Alarm
Safe Lite Economy Series										
UVSL8		8	1	0.07	.60	.30	1" MIP 3/4" FIP	18"x4"x7"	8.5	No
Standard Series										
UV7		7	1	0.07	.60	.30	1" MIP 3/4" FIP	18"x4"x7"	17	No
UV15		15	1	0.07	.60	.30	1" MIP 3/4" FIP	36"x4"x7"	28	No
GDS Series w/ Lamp out alarm										
UV7SE	UV7GDS	7	1	0.07	.60	.30	1" MIP 3/4" FIP	18"x4"x7"	17	Yes
UV15SE	UV15GDS	15	1	0.07	.60	.30	1" MIP 3/4" FIP	36"x4"x7"	28	Yes

Lamp out circuit board provides a visual and audible alarm when a lamp outage occurs.
Solenoid protection can be added via the on-board relay and the purchase of an UVS079 Solenoid.
220V 50Hz less power cord net adder $ 35.72. Not available on SE series.



UVM254



UVS079

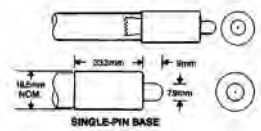
Part Number	Description	For Use With Series
Accessories		
UVM254	UV Dosage meter w/ alarm	UV, UV-W
UVS079	Shut-0ff Solenoid 1" FNPT, use w/ UVM254, or UVM257 Specify when ordering	UV, UV-W, UV-SE, UVC

Ultraviolet Disinfection Parts

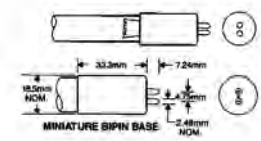
Part Number	Description	For Use With Series
Maintenance & Repair Parts		
UVP4025	Brass end nut assembly - complete (new)	All models
UVP8544	O-ring - Standard for end nut	
UVP1421DWS7	Ballast	UV7
UVP1421SL8	Ballast	UVSL8
UVP8222	Ballast - (120V, 60 Hz)	UV7SE
UVP8224	Ballast - (120V, 60Hz)	UV15SE
UVP8225	Ballast - (120V, 60Hz)	UV15C

Service Kits - Include bulb, quartz sleeve, o-rings and small tube of silicone.
Recommended 1 per year.

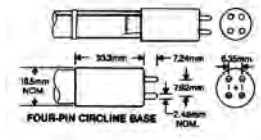
UVKO7	Includes (1) UVB1805 bulb, (1) UVQS6211 sleeve, (2) UVP8544 o-rings	UV7, UV7SE
UVKO8	Includes (1) UVB4450 bulb, (1) UVQS476D sleeve, (1) UVP8544 o-ring	UVSL8
UVKO15	Includes (1) UVB8246 bulb, (1) UVQS6608 sleeve, (2) UVP8544 o-rings	All 15 models
UVKO24	Includes (2) UVB8246 bulb, (2) UVQS6608 sleeve, (4) UVP8544 o-rings	All 24 models



UVB Series - 1 pin each end



UVB Series - 2 pins each end

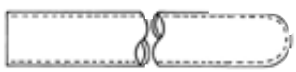


UVB Series - 4 pins one end

Part Number	Bulb Length	Description	For Use With Series
UV Bulbs			
UVB1805	14"	1 pin each end	UV7, UV7SE
UVB1814	27.3"	1 pin each end	
UVB8246	32.5"	1 pin each end	All 15 UVC80 24 28 60 120
UVB11149	45.88"	1 pin each end	
UVB11550	61.2"	1 pin each end	UVC130 bulb
UVB2436	17"	2 pins each end	
UVB2457	18"	2 pins each end	DWSW-8
UVB2793	31.34"	2 pins each end	
UVB4287	11.3"	4 pins one end	
UVB4330	13"	4 pins one end	
UVB4357	14.5"	4 pins one end	
UVB4409	16"	4 pins one end	
UVB4436	17"	4 pins one end	
UVB4450	17.71"	4 pins one end	DWS-8V, SE8V, SL5, SL8, SL8V
UVB4739	29"	4 pins one end	DWS-12V, SE12V
UVB4793	31.34"	4 pins one end	
UVB4810	32"	4 pins one end	
UVB4854	33.2"	4 pins one end	

Bulb length is from end to end excluding pin connection.


UVQS Series


UVQS-D Series

Quartz Sleeves - Open Ends (22 mm ID, 24.5mm OD)			
UVQS6211	14.37"	Quartz Sleeve	UV7, UV7SE
UVQS1483	19"	Quartz Sleeve	DWSW-8
UVQS6608	32.62"	Quartz Sleeve	All 12 15 24 48 60 80 120
Quartz Sleeves - Domed Ends (22 mm ID, 24.5mm OD)			
UVQS1435D	17"	Dome End Quartz Sleeve	
UVQS476D	19"	Dome End Quartz Sleeve	SL5, SL8, DWS-8V
UVQS335D	34"	Dome End Quartz Sleeve	

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Chemical Feed Pumps - CHEMTECH



Chem Tech Series 100

CHEM-TECH Series 100 Features:

- Positive displacement diaphragm metering pump.
- Feed ranges of 15 and 30 gallons per day.
- Operating pressure up to 100 PSI.
- Life-time lubricated, sealed and self-maintaining gear train.
- Four ball valve design for trouble-free operation.
- Strong chemical resistant, flame retardant housing.
- Metal reinforced, short-stroke diaphragm for extra-long life.
- Injection back pressure valve assembly enables injection at an angle and inhibits syphoning.
- Fully adjustable output capacity over operating range.
- Bleed valve assembly aids in priming and relieves pressure from discharge.
- UL, CSA approved for outdoor and indoor applications.
- Manufactured for AGI in an ISO9002 facility.

ISO 9002

CHEM-TECH Motorized Models:
Includes tubing and suction & discharge fittings

Part Number	Series	Max Pressure PSI	Output capacity @ Max psi GPD	Volts	Strokes/ Min.	OD Tube Size	Ctn Qty
015-115	100	100	15	115	25	1/2"	1
015-230	100	100	15	230	25	1/2"	1
030-115	100	100	30	115	51	1/2"	1
030-230	100	100	30	230	51	1/2"	1

Additional ChemTech models are available, please contact your sales representative.

Chemical Feed Pumps - CHEMTECH Parts

Pulsafeeder



Chem Tech Series 100



Chem Tech Series 200

ISO 9002

Stocked* Parts for Series 100 and Series 200 CHEMTECH Pumps

NEW Part Number	OLD Part Number	Description
25704	228P	Hypalon Diaphragm
28800	242P	SAN Head
J20560	278P	Ceramic Ball Check
J27903	237P	PTFE Gasket
J30515	J30515	PVC Bleed Valve Kit w/Tubing, 1/2" OD
J37440	638P	Hypalon Valve Seat
J38985	285P	Valve Spring
J40117	A50P	Foot Valve and Strainer Assembly, 1/2" OD
J41658	A52P	PVC Back Check Valve Assembly, 1/2" OD
J41694	J41694	1 1/2" long PVC Injection Ftg 1/2" OD tube size

* Other Series 100 & 200 parts may be ordered. Contact your sales representative.



Kop Kit®

KOP Kit® for Series 100 & Series 200 CHEMTECH Pumps Feature:

- Designed to guard against unnecessary down time.
- Kop Kit contains recommended spare parts most likely to require normal maintenance.
- Contains valve cartridges with o-rings, head, diaphragm, secondary o-ring seal, head screen, & washers.
- Carded and shrink wrapped for display.

Stocked KOP Kits for Repairs: Keep-On-Pumping Kits

Part Number	Series	Fits Models	Tubing Size
KX030XAAAAAXXX	100&200	3-100 GPD	1/2" OD

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Chemical Feed Pumps - PULSATRON



C Plus Series

PULSAtron®

Pulsafeeder

PULSATRON “C" Series Electronic Metering Pump Features:

- Solenoid driven assembly - no motors.
- Reliable metering performance.
- Rated “hot" for continuous use.
- High viscosity capable up to 1000 cps.
- Leak free, seal-less liquid end.
- Diaphragms are PTFE-faced, bonded to a composite of Hypalon & fabric layers and reinforced with a metal insert.
- Manual control by on-line adjustable stroke length (fixed stroke length.)
- Agency approved for outdoor and indoor use.
- Water resistant for outdoor applications.
- Highly reliable timing circuit.
- Guided ball check valve system to reduce back flow and enhance outstanding running characteristics.
- Premium standard wetted component material.
- Few moving parts, wall mountable.
- Safe and easy priming with durable leak-free bleed valve assembly.
- Max pressure rating: 80 psi.
- Maximum 30 gallons per day.

NO LEAD LEAD-FREE

ISO 9002

Materials of Construction:	
Pump Head	PVC
Diaphragm	PTFE faced, Hypalon backed
Valve Seats/ O-rings	Hypalon
Tubing	Clear PVC
Ball Checks	Ceramic
Fittings	PVC

PULSATRON “C PLUS" Series Electronic Metering Pump Features:

- Same as above plus:
- Manual control by on-line **adjustable** stroke length **and** stroke rate.
- Manufactured for AGI in a ISO 9002 facility.

PULSATRON Stocked Electronic Models

Part Number	Series	Pressure PSI	Max GPD	Voltage	Suction & Discharge Tube OD
LC54SA-VHC1-XXX	C	80	30	115	3/8"
LD54SA-VHC1-xxx	C Plus	80	30	115	3/8"

* Additional Pulsatron models are available. Contact your sales representative.

Chemical Feed Pumps - PULSATRON Parts



C Plus Series

PULSAtron® Pulsafeeder

ISO 9002

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Stocked* Parts for PULSATRON C and C Plus Series Pumps

Part Number	Description
L3300H01-PVC	3/8" OD Bleed Valve Assembly
L3300H03-PVC	1/2" OD Bleed Valve Assembly
L3101HC1-PVC	3/8" OD C+ Suction valve
L3201HC1-PVC	3/8" OD C+ Discharge Valve

* Other Series C and C Plus parts may be ordered. Contact your sales representative.



Kop Kit®

KOP Kit® for PULSATRON Series Pumps Feature:

- Designed to guard against unnecessary down time.
- Kop Kit contains recommended spare parts most likely to require normal maintenance.
- Contains valve cartridges with o-rings, head, diaphragm, secondary o-ring seal, head screen, & washers.
- Carded and shrink wrapped for display.

Stocked K.O.P. Kits for Repairs: Keep-On-Pumping Kits

NEW Part Number	Series	Fits Models	Suction Disch. Tubing Size
K4VHC1	C	30 GPD	3/8" OD
K3VHC1	C Plus	12 GPD	3/8" OD
K3VHCA	C Plus	12 GPD	1/2" OD
K4VHC1	C Plus	30 GPD	3/8" OD
K4VHCA	C Plus	30 GPD	1/2" OD



XP Series

CHEM-TECH XP Series Peristaltic Pump Features:

- Peristaltic technology delivers worry-free dosing, easy operations and minimal maintenance.
- Include adjustable, on/off with current interrupter timer.
- All metal drive gears and gear train. Metal gear housing.
- 3 piece roller design.
- Self priming.
- 115 V, 60 Hz

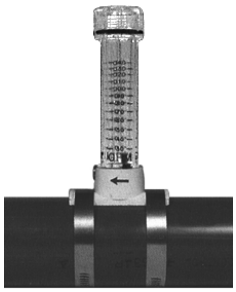
Part Number	Max PSI	GPD	RPM	Ctn Qty
XP015LAHX	110	15	50	1
XP030LAHX	80	30	30	1

Additional models are available with or without complete tank system.

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Chemical Feed Pumps - Accessories

Pulsafeeder



U88 Series



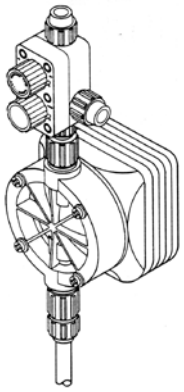
Flow Meter Features:

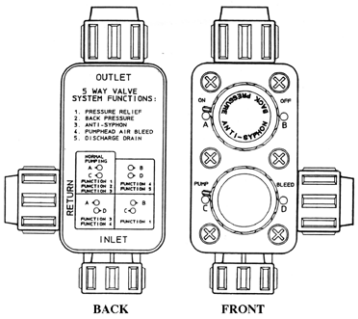
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- Economical, easy to install, easy to maintain.
- Calibrated in GPM/LPM with easy-to-read numbering.
- Available 1"- 4" pipe size.
- Durable acrylic construction.
- Supplied with 2 clamps and rubber gasket seal.
- Maximum temperature limit = 120°F, Maximum pressure limit = 120 psi.

Part Number	Nominal Pipe Size	Range GPM/LPM
U8800424	1"	5-35 / 20-130
U8800439	1 1/2"	20-80 / 80-300
U8800440	2"	30-140 / 120-550
U8800441	2 1/2"	40-200 / 160-750
U8800442	3"	80-350 / 300-1300
U8800443	4"	150-600 / 600-2200





L385 Series

DG/5FV De-gas Five Function Valve Features:

- De-Gas - Bypass gasses and fluid during normal pump operation. Allows for the constant removal of gases that would otherwise "air bind" the pump.
- Back Pressure - Maintains output reproducibility and allows metering into atmospheric discharge.
- Anti-siphon - Prevents siphoning through the pump when point of injection is lower than the pump or into the suction line of another pump. Rated at total vacuum.
- Air Bleed - Used during priming to manually remove air from the pump head.
- Discharge Drain - Depressurize pump discharge line without loosening tubing or fittings. Protects the operator from chemical exposure.

Operation:

- The functions are selected by setting two, independent dual position selector knobs.
- The DG/5FV' s compatible with most **PULSATRON** and **CHEMTECH** series pumps. Connected to the existing discharge valve the DG/5FV is capable of handling a large output flow as well as viscous liquids. A return port located on the side body provides flow of chemical back to the solution tank when in the degas, air bleed or drain discharge mode.
- Degas/bypass volume is adjustable, typically 1-10% of pump output.

Specifications:	
Maximum Flow	240 gpd
Minimum Flow	3 gpd
Max Viscosity	1000 cps
Max Pressure	Up to 250 psi

Materials of Construction:	
Valve Body	PVD
Diaphragm	PTFE faced Hypalon
O-rings	Viton or Hypalon
Hardware	188 Stainless steel (recessed)

Part Number	Description	O-rings	Valve Body	Connection
L385KH03-PVD	DG/5VF De-Gas Valve	Hypalon	PVD	1/2" OD tubing

Chemical Feed Pumps - Accessories

Pulsafeeder

ISO 9002

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Solution Tanks

Solution Tank Features:

- High density polyethylene
- 5 gallon marked increments.
- Add “AT" to fitting part number for factory installed bulkhead fittings.

Part Number	Description
40375	15 Gallon liner with cover 25" x 14 1/2"
40360	30 Gallon liner with cover 32" x 18 1/2" Brine Tank
J40366	50 Gallon liner with rigid cover 42 1/2" x 18 1/2" (b) 23 (t)
26860	3/8" Bulk Head Fitting (AT) installed at factory



40360

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Chemical Feed Pumps - Uni-Dose®

Uni-Dose



UD001-238NU

Certified to NSF/ANSI 61+372

c UL us LISTED

Uni-Dose® UD Series Chemical Metering Pump Features:

- Universal solution engineered to address common well water treatment requirements. Single model with simplified design eases installation, maintenance and operation.
- Single speed control knob with precise capacity control with output range of 1 to 24 gallons per day at 80 psi.
- Advanced noise reduction design for residential applications.
- Integrated FastPrime™ priming valve for fast and easy startup.
- Fully enclosed NEMA 4X/ IP65 housing for protection in either indoor or outdoor installations. Heat resistance to 122°F
- Universal 115-230V 50/60 Hz power supply with internal varistor and fuse protect from power surge damage.
- Includes pump, tubing connection hardware, injection check valve, foot valve with strainer, ceramic weight for suction tubing, UV resistant PE tubing, flexible vinyl tubing and USA 120V or 230V plug power cord.

Technical Data:	
Output Range	1-24 GPD (0.16-3.8LPH)
Pressure Range	80 PSI (5.5 Bar)
Flow Rate Control	Variable speed, fixed stroke
Min Stroke	1 SPM
Max Stroke	160 SPM
Electric Supply	115-230V, 50/60 Hz
Max Current @ 120 VAC	0.3 amps
Installation	Indoor/outdoor
NEMA/IP Rating	NEMA 4X/IP65
Certifications	NSF 61, UL
Suction/Discharge	Single cartridge check valve
Dimensions	4.69" w x 7.83" h x 8.5" d

Output Information: UD Model	
Gallons per Day	1.0 Min - 24.0 Max
Gallons per Hour	0.04 Min - 1.0 Max
Liters per Day	3.79 Min - 90.85 Max
Liters per Hour	0.16 Min - 3.80 Max
mL/cc per Min	2.7 Min - 63.0 Max

Part Number	**Description**
UD001-238NU	UD Series Pump 120V
UD002-238NU	UD Series Pump 230V

All LMI pumps are drop shipped direct from factory.

Comparison		**NEW UD Series**	**PREVIOUS U Series**
Performance	Output Range	1-24 GPD (0.16-3.8 LPH)	1.2-30 GPD (0.19-4.7 LPH)
	Pressure Range	80 PSI (5.5 Bar)	80 PSI (5.5 Bar)
	Max Stroking Frequency	160 SPM	60 SPM
	Flow Rate Control	Variable speed, Fixed length	Fixed or Variable speed, Variable length
	Electrical Input	115V or 230V (US 120 or 230 plug)	115V or 230V (US 120 or 230 Plug)
Liquid End	LE Materials	PVC head and fittings	PVC head and fittings
	LE diaphragm	Teflon faced	Sanoprene
Features	Model	1 model	14 models
	UV resistance	UV resistance plastic	Not UV resistant
	Weather and Heat	Outdoor rated to 122°F	Outdoor rated
	Surge Protection	Protective fuse	Integrated pulsar
	Priming	Integrated priming valve	3 Function valve
	Common Features	Mounting points, footprint, tubing connections, check valves, cartridges	
Approvals	Electrical Approvals	UL	UL
	NEMA/IP Rating	NEMA 4X/IP65	X
	NSF Rating	NSF 61	NSF 61
Sales	Warranty	1 year	1 year



UD001-238NU

Parts for Uni-Dose UD Series Pump

Part Number	Description	Ctn Qty
10123	Strainer, Foot Valve PP	10
10322	Ceramic Weight, Suction tubing	10
10469-06	Tubing Vinyl, 0.375 OD X 0.062, 6 Feet	1
27342-16	Tubing PE, 0.375 OD X 0.062, 16 Feet	1
36103	O-Ring, 0.549ID, Polyprel	10
48349	O-Ring, 0.424ID, Polyprel	10
48617	Injection Check Valve Body	10
48728	Injection Valve ASM	1
48795	Injection Cartridge Valve	10
70192	Ferrule, Male .375 OD	1
70193	Ferrule, Female .375 OD	1
77383	Tubing Connection Kit	1
SP-238	Rebuild Kit	1
U48851	Power Cord	1

SUMP & SEWAGE



Alarms & Switches 8
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Pumps - Utility & Sump

PANELLI



91025 & 91330

Submersible Utility Pump Features:

- 1/5 & 1/3 HP motors, 120 v, 60 Hz
- Corrosion resistant construction.
- 10' waterproof power cord.
- Clog resistant open type impeller.
- Fits in 6" opening.
- Capacities of 26 & 40 gpm.
- 3 year limited warranty.

Specifications:

Discharge: 1 1/4" MNPT or 3/4" GHT
Housing & Base: Thermoplastic
Impeller: Thermoplastic
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected



92250 & 92330
92335

Submersible Sump Pump Features:

- 1/4 & 1/3 HP motors, 120 v, 60 Hz
- Corrosion resistant construction.
- 10' waterproof power cord. 25' on #SP92335.
- Clog resistant open type impeller.
- Switch turns on at 9", off at 4".
- Handles 1/8" solids.
- 3 year limited warranty.

Specifications:

Discharge: 1 1/4" MNPT
Housing & Base: Thermoplastic
Impeller: Thermoplastic
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected



92341

Submersible Sump Pump Features:

- 1/3 HP split capacitor motor, 120 V
- Corrosion resistant cast iron construction.
- Bottom & side intake for clog resistant suction.
- 10' waterproof power cord.
- Vertical float switch allows pump to fit in 10" opening.
- Handles 3/8" solids.
- 5 year limited warranty.

Specifications:

Discharge: 1 1/2" MNPT
Housing & Base: Powder Coated Cast Iron
Impeller: Stainless Steel
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected



92501

Submersible Sump Pump Features:

- 1/2 HP heavy duty motor, 120 v, 60 Hz.
- Corrosion resistant cast iron construction.
- SP92501 has 10' waterproof power cord.
- SP92507 has 25' waterproof power cord.
- Will handle 1/2" solids.
- Switch turns on at 9", off at 4".
- 5 year limited warranty.

Specifications:

Discharge: 1 1/2" FNPT
Housing & Base: Powder Coated Cast Iron
Impeller: Thermoplastic
Bearing: Permanently lubricating
Motors: Permanent split capacitor, continuous duty, thermally protected

Model No.	HP	Gallons per minute at discharge height in feet 0'	5'	10'	15'	20'	25'	Min. Lift	Min. Amps
SP91025	1/5	26	21	14	10	7	1	25'	3.6
SP91330	1/3	40	34	28	22	12	2	25'	4.1
SP92250	1/4	30	22	20	16	9	2	25'	3.8
SP92330	1/3	40	34	28	22	12	2	25'	4.1
SP92335	1/3	40	34	28	22	12	2	25'	4.1
SP92341	1/3	46	36	30	25	12	1	25'	4.1
SP92501	1/2	70	66	58	48	25	10	25'	7.6
SP92507	1/2	70	66	58	48	25	10	25'	7.6

NOTE: Use of smaller diameter pipe, or long runs of pipe, will result in lower flow rates than those shown.

Pumps - Sump & Sewage



92511

Submersible Sump Pump Features:

- 1/2 HP split capacitor motor, 120 V
- Corrosion resistant cast iron construction.
- Bottom & side intake for clog resistant suction.
- Will handle gray water and up to 1/2" solids.
- 10' waterproof power cord.
- Vertical float switch allows pump to fit in 10" opening.
- 5 year limited warranty.

Specifications:

Discharge: 1 1/2" FNPT
Housing & Base: Powder Coated Cast Iron
Impeller: Non-clogging open type
Bearing: Permanently lubricating
Motors: Split capacitor, cool operation
continuous duty, thermally protected



92333 and 92551

Pedestal Sump Pump Features:

- Solid stainless steel drive shaft (92551)
- Plated steel drive shaft (92333).
- Corrosion resistant thermoplastic or cast iron.
- Metal switch arm for durability.
- 92551 uses stainless steel impeller & copper float.
- Full height pump allows cover to fit on basin.
- 1/3 & 1/2 HP motors.
- Capacities up to 60 gallons per minute.
- 10' waterproof power cord.
- 3 year limited warranty on 92333.
- 5 year limited warranty on 92551.

Specifications:

Discharge: 1 1/4" (92333),
1 1/2" (92551)
Housing: Thermoplastic (92333)
Powder Coated Cast Iron (92551)
Column: Thermoplastic (92333)
Stainless Steel (92551)
Impeller: Non-clogging open type
Bearing: Permanently lubricating
Motors: Permanent split capacitor,
continuous duty, thermally protected



93501 and 93507

Submersible Sewage Pump Features:

- 1/2 HP heavy duty motor, 120 v, 60 Hz.
- Corrosion resistant cast iron construction.
- SP93501 has 10' waterproof power cord.
- SP93507 has 25' waterproof power cord.
- Vortex impeller will handle 2" solids.
- 3 year limited warranty.

Specifications:

Discharge: 2" FNPT
Housing & Base: Painted Cast Iron
Impeller: Cast Aluminum
Non-clogging Vortex
Bearing: Permanently lubricating
Motors: Permanent split capacitor,
continuous duty, thermally protected

Model No.	HP	Gallons per minute at discharge height in feet 0'	5'	10'	15'	20'	25'	Min. Lift	Min. Amps
SP92511	1/2	70	66	58	48	25	10	25'	7.6
SP92333	1/3	50	45	38	35	15	0	20'	2.76
SP92551	1/2	60	55	45	30	12	5	25'	3.06
SP93501	1/2	80	68	60	44	13	2	25'	7.6
SP93507	1/2	80	68	60	44	13	2	25'	7.6

NOTE: Use of smaller diameter pipe, or long runs of pipe, will result in lower flow rates than those shown.

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Sump Pump Discharge Kits



SPDK Series

SPDK Sump Pump Discharge Kits Feature:

- 24 ft of heavy duty corrugated polyethylene tubing, with 8' cutting intervals.
- 1-1/4" or 1 1/2" full size plastic male adapter with stainless steel clamp.
- Individually packaged with instructions included.

Part Number	Description	Ctn Qty
SPDK125M	Male adapter to fit 1-1/4" FIPT pump discharge	8
SPDK150M	Reducing male adapter (1 1/2" mip x 1-1/4" ins) to fit 1-1/2" FIPT pump discharge with 1 1/4" sump hose	8
SPDK150MHD	Male adapter to fit 1 1/2" FIPT pump discharge w/ 1 1/2" sump hose	6
SPDH125-256	1 1/4" bulk hose, 256’	1

SS&E Check Valves

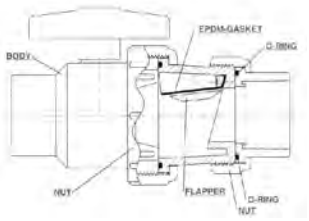


2200 Series

NO LEAD < 0.25% Pb by weighted average

2200 Series Checkmate Features:

- One piece ball/check valve combination.
- Save time, labor and hassle to applications requiring in-line ball valves and check valves.
- True union or compression design allows for removal of check valve for cleaning or repairs.
- Rates at 125 psi. May be installed in vertical or horizontal position.
- Made of PVC type 1 grade 1 material meeting ASTM-D1784.



Part Number	Description	Ctn Qty
2200-15	1 1/2" Union x Slip	12
2200-20	2" Union x Slip	12
2200-15TU	1 1/2" Union x Union	12
2200-20TU	2" Union x Union	12
2200-15UC	1 1/2" Compression x Compression	12
2200-20UC	2" Compression x Compression	12

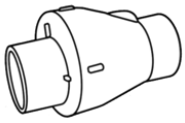


MCV Series

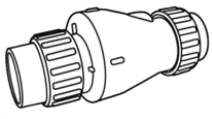
"Smart" Swing Check Valve Features:

- Patented innovation in swing check valve technology eliminates in-line flow restriction of conventional check valves.
- Spring loaded swing check flapper/gate allows full flow and reliable back flow prevention.
- Standard "smart" check valve remains closed to 1/2 psi, then open for full flow.
- Magnetic "smart" check valves remain closed to 2 psi, then open for full flow.

NO LEAD LEAD-FREE



MCV821 Series



MCV823 Series



MCV850 Series

Part Number	Size	Description	Spring Tension	Ctn Qty
MCV821-10	1"	Slip x Slip	1/2 lb.	12
MCV821-10C	1"	Slip x Slip CLEAR	1/2 lb.	12
MCV821-15	1 1/2"	Slip x Slip	1/2 lb.	12
MCV821-15C	1 1/2"	Slip x Slip CLEAR	1/2 lb.	12
MCV821-20	2"	Slip x Slip	1/2 lb.	12
MCV821-20C	2"	Slip x Slip CLEAR	1/2 lb.	12
MCV821-20M	2"	Slip x Slip w/magnet	2 lb.	12
MCV821-20MC	2"	Slip x Slip w/magnet CLEAR	2 lb.	12
MCV823-10	1"	Union x Union	1/2 lb.	12
MCV823-10C	1"	Union x Union CLEAR	1/2 lb.	12
MCV823-15	1 1/2"	Union x Union	1/2 lb.	12
MCV823-15C	1 1/2"	Union x Union CLEAR	1/2 lb.	12
MCV823-20	2"	Union x Union	1/2 lb.	12
MCV823-20C	2"	Union x Union CLEAR	1/2 lb.	12
MCV823-20M	2"	Union x Union w/magnet	2 lb.	12
MCV823-20MC	2"	Union x Union w/magnet CLEAR	2 lb.	12
MCV850-15	1 1/2"	Check/Slice Combo Union x Slip		12
MCV850-20	2"	Check/Slice Combo Union x Slip		12

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SS&E Check Valves



SUMP CHECK

Sump Check Features:

- Valve fits 1-1/4" or 1-1/2" IPS size PVC, ABS & Galvanized.
- 4 gaskets furnished with each valve (2)1- 1/4" and (2)1- 1/2".
- Easy installation, no hose clamps, cementing or threading.
- Long lasting EPDM weighted flapper.
- Body length 5 1/4"



1500 Series

1500 Series Features:

- Compression PVC Swing Check Valve.
- For IPS plastic or steel pipe.
- Body length is 7 1/2" for 1 1/4"and 1 1/2"; 9 3/4" for 2"



SPCV Series

SPCV Series Features:

- Swing Check Valve, rubber boot x rubber boot
- ABS body, Buna-N flapper, rubber boot w/stainless steel clamps.
- Available in 1-1/4", 1-1/2" and 2".

NO LEAD < 0.25% Pb by weighted average



SC Series

SC Series Features:

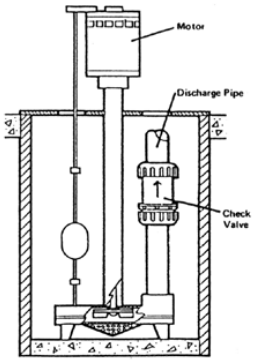
- Full flow - positive sealing flapper swing check design.
- Durable sonic welded thermoplastic body.
- Available in 1-1/4" & 1-1/2" and combo 1-1/4"-1-1/2".
- Stainless steel clamps provided on the RS models.
- Single (S) or Double (D) reducing rubber sleeves for flexibility.



SC SRS



SC125/150DRS



Typical Installation

Part Number	Inlet	Outlet	Ctn Qty
SUMP CHECK	1 1/4" or 1 1/2" IPS	1 1/4" or 1 1/2" IPS	12
1500-12	1 1/4" ips comp	1 1/4" ips comp	12
1500-15	1 1/2" ips comp	1 1/2" ips comp	12
1500-20	2" ips comp	2" ips comp	12
1500-30	3" ips comp	3" ips comp	2
SPCV125	1 1/4" rubber boot	1 1/4" rubber boot	10
SPCV150	1 1/2" rubber boot	1 1/2" rubber boot	10
SPCV200	2" rubber boot	2" rubber boot	12
SC125B	1 1/4" mpt	1 1/4" barb or 1 1/2" slip	20
SC150B	1 1/2" mpt	1 1/4" barb or 1 1/2" slip	20
SC125	1 1/4" mpt	1 1/4" or 1 1/2" slip	20
SC150SRS	1 1/2" mpt	1 1/4" or 1 1/2" rubber boot	10
SC125/150DRS	1 1/4" or 1 1/2" rub boot	1 1/4" or 1 1/2" rubber boot	10

SS&E Check Valves



SPCV SL Series

SPCV Silent Series Check Valve Features:

NO LEAD < 0.25% Pb by weighted average

- Double flapper design eliminates typical hammering of sump check valve after pump cycles.
- Nested flapper design allows for proper seating and eliminates stress at the hinge point.
- ABS body, Buna-N flapper, rubber boot w/stainless steel clamps.
- Available in 1-1/2" and 2", white or clear body.
- Made in USA.
- Pressure tested.

Part Number		Inlet	Outlet	Ctn Qty
SPCV150SL	White	1 1/2" RUBBER BOOT	1 1/2" RUBBER BOOT	16
SPCV200SL	White	2" RUBBER BOOT	2" RUBBER BOOT	12
SPCV150SLC	Clear	1 1/2" RUBBER BOOT	1 1/2" RUBBER BOOT	16
SPCV200SLC	Clear	2" RUBBER BOOT	2" RUBBER BOOT	12

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Mechanical Float Switches



GF2OW with plug



GF2OW NO plug

Mechanical Float Switch Features:

- Precison molded floats.
- Non-mercury design for potable and non-potable water appliations.
- Float switches have 16 gauge CPE jacketed cords (SJOW-A/CSA Type SJOW), with 120 or 240 volt series piggy back plugs.
- Unterminated float switches for direct wire applications.
- CSA / UL approved.
- 13 Amps - 1/2 hp @ 120/240 VAC 60 Hz.
- Max operating temp: 140°F (60°C) water resistant, 194°F (90°C) dry.
- Black ABS floats for **PUMP DOWN** (normally open) or emptying applications.
- White ABS floats for **PUMP UP** (normally closed) or filling applications.



Part Number	Description	Cord & Plug	Application	Ctn Qty
MECHANICAL BLACK ABS FLOAT - PUMP DOWN/NORMALLY OPEN				
GF2OW10F1	120V	10' with plug	Pump down	1
GF2OW15F1	120V	15' with plug	Pump down	1
GF2OW20F1	120V	20' with plug	Pump down	1
GF2OW30F1	120V	30' with plug	Pump down	1
GF2OW50F1	120V	50' with plug	Pump down	1
GF2OW10F2	240V	10' with plug	Pump down	1
GF2OW15F2	240V	15' with plug	Pump down	1
GF2OW20F2	240V	20' with plug	Pump down	1
GF2OW1000	120V/240V	10' NO plug	Pump down	1
GF2OW1500	120V/240V	15' NO plug	Pump down	1
GF2OW2000	120V/240V	20' NO plug	Pump down	1
GF2OW3000	120V/240V	30' NO plug	Pump down	1
GF2OW5000	120V/240V	50' NO plug	Pump down	1
MECHANICAL WHITE ABS FLOAT - PUMP UP/NORMALLY CLOSED				
GW2CW10F1	120V	10' with plug	Pump up	1
GW2CW15F1	120V	15' with plug	Pump up	1
GW2CW20F1	120V	20' with plug	Pump up	1
GW2CW30F1	120V	30' with plug	Pump up	1
GW2CW50F1	120V	50' with plug	Pump up	1
GW2CW10F2	240V	10' with plug	Pump up	1
GW2CW15F2	240V	15' with plug	Pump up	1
GW2CW20F2	240V	20' with plug	Pump up	1
GW2CW1000	120V/240V	10' NO plug	Pump up	1
GW2CW1500	120V/240V	15' NO plug	Pump up	1
GW2CW2000	120V/240V	20' NO plug	Pump up	1
GW2CW3000	120V/240V	30' NO plug	Pump up	1
GW2CW5000	120V/240V	50' NO plug	Pump up	1

SS&E Alarms & Switches



HWA Series

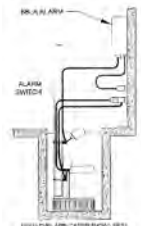
HWA Series High Water Alarm Features:

- 120v/1HP/60HZ.
- Both visible and audible horn alarms with horn silence switch.
- Nema 1 plastic PVC panel.
- 10' float cord.

Part Number		Power Cord	Ctn Qty
HWA115-10	High Water Alarm	6’	1



SP3000 Series



Indoor Water Alarm with Battery Backup Features:

- Monitors liquid levels in sump basins, lift stations tank, wastewater applications.
- Durable NEMA 1 thermoplastic 6" x 3 3/4" x 2 1/2" enclosure rated for indoor use.
- Red “Alarm ON" light, green “Power On" light and 85 decibel horn at 10 feet.
- Alarm test and horn silence button with auto reset.
- Battery backup.
- 6’ Power Cord, 15’ Float cord.
- Auxiliary contacts. 120 VAC, 5 AMP max 60 Hz.
- External terminal block float connection for easy installation. Do not apply power. Class Two Output, 12 VAC.
- Primary 120 VAC, Secondary 12 VAC, 60 Hz (Alarm condition 2.5 watts max).

Part Number	Description	Ctn Qty
SP3000-15	Indoor Water Alarm	1



9036DG Series

ISO 9001

DG Series Pumptrol™ Float Switch Features:

PUMPTROL™ BY YAGEO GROUP Telemecanique Sensors

- For open tank or sump applications.
- 2 Pole, Single lever operated.
- NEMA Type 1.
- Manufactured for AGI in an ISO 9001 facility.

AGI Part Number	Description	Ctn QtY
9036DG2	Contacts close on liquid rise	1
9036DG2R	Contacts open on liquid rise	1

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SS&E Basins, Covers & Hubs

AK INDUSTRIES, INC.

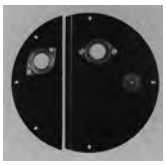


HSB Series

HSB Series Sump & Sewage Basin Features:

- Includes applicable cover, hardware and adapt-a-flex hub.
- Designed to accommodate most any pump on the market.
- Corrosion and impact resistant polyethylene.
- Easy installation with adapt-a-flex weather and gas tight fittings on ejector basins.
- A variety of steel and poly covers and hubs available to fit most any installations.
- Covers in stock have 2" vents, Covers with 3" & 4" vents available by special order.
- Use NH suffix for no hole in basin.

Sizes	Description	Ctn Qty
Sump Basin		
HSB1822	With 1 piece slotted poly cover, 22 gal	1
HSB18221SC	With 1 piece steel cover, 22 gal	1
HSB1822LC	Basin less cover, 22 gal	1
Sewage Basin		
HSB1830	With 1 piece steel cover, hub, 2" vent, 30 gal	1
HSB18302SC	With 2 piece steel cover, hub, 2" vent, 30 gal	1
HSB1830NH	With 1 piece steel cover, no hole in basin, 30 gal	1
HSB2424	With S2410SC steel cover, hub, 2" vent, 48 gal	1
HSB2436	With S2410SC steel cover, hub, 2" vent, 71 gal	1
HSB2436NH	With S2410SC steel cover, no hole in basin, 71 gal	1
HSB3036D	With D3008C duplex steel cover, hub, 2" vent, 110 gal	1



2SC



1PC

Sump and Sewage Basin Covers, Hubs and Kits

Part Number	Description	Ctn Qty
1SC	1 pc steel cover 18" dia w/ 2 2" holes & hardware	1
2SC	2 pc steel cover 18" dia w/ 2 2" holes & hardware	1
1PC	1 pc plastic cover 18" dia slotted w/ hardware	1
4AF-HUB	Adapt-a-flex 4" Hub	1
HSB1830KIT	Tape, nuts, bolts	1



HSBB2300STL



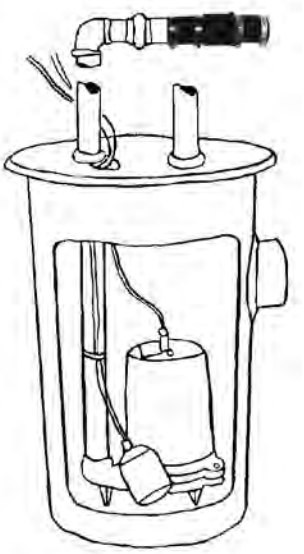
HSBC23RSL

HSBB Series Sump & Sewage Basin Features:

- Tapered Corrugated Sump Basin and locking cover
- Made of durable, corrosion resistant polyethylene resin.
- Radon sump lid has gasket kit to seal openings.

Sizes	Description
HSBB2300STL	18" x 24" basin only, 18 gal. capacity
HSBB2300STL30	18" x 30" basin only, 26 gal. capacity
HSBC23STL	Slotted Locking Cover only
HSBC23RSL	18" Radon Sump Lid only

Sump & Sewage Package Systems



Piping not included

HPA500S Sewage Package Includes:

- SP93501 Sewage pump with 2" FNPT discharge.
- HSB1830 18" x 30" Basin with 1 piece steel cover w/2" discharge.
- Adapt-a-flex hub.
- SPCV200 2" Check valve.
- Cast iron hub available.
- 2 piece cover available.
- 2" compression check valve 1500-20 available at additional cost.

Pricing & Performance Table [USGPM]

		Pumping Height for SP93501						Min
Model No.	HP	0’	5’	10’	15’	20’	Volts	Amps
HPA500S	1/2	80	68	60	44	13	120	7.6



Laundry Tray Systems LTS Package Features:

- 1/3 HP SP92341 Sump Pump, 120v, 1 1/2" discharge, vertical float switch.
- 11 x 17 x 14 basin with cover.
- SPCV125 Check Valve.
- Includes 1 1/4 x 18 PVC nipple and Sch 80 PVC 1 1/2" x 1 1/4"bushing
- Above the floor sump that accepts most any submersible pump.
- Rotationally molded from polyethylene with no seams.
- Bolt down cover allows easy access for installation or removal of sump pump.
- 1-1/2" threaded inlet connection.

Pricing & Performance Table [USGPM]

	Pumping Height for SP92341						Min
Model No.	0’	5'	10'	15'	20'	Volts	Amps
LTS33	40	34	28	22	12	120	
LTSB	Laundry Tray basin only						

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Closet Flanges/Gaskets 18
Compression Couplings, Imported PVC/CPVC 1
Compression Fittings, Galvanized 2
Couplings - Flexible and No-Hub 4
Installation Kits 13
Perforated Hanger Strapping 23
Pipe Clamps, Hangers, Hooks & Straps 24-30, 32
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Compression Couplings-Imported, PVC/CPVC



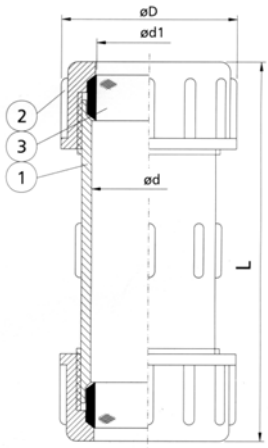
NO LEAD LEAD-FREE

MATERIAL SPECIFICATIONS

#	Part	Material
1	Body	UPVC, CPVC
2	Compression Nut	UPVC, CPVC
3	Gasket - PVC	NR
	Gasket - CPVC	EPDM

PVC Compressing Coupling Features:

- Iron Pipe Size (PVC), Copper Tube Size (CPVC)
- For use with cold water (PVC) or hot water (CPVC-CTS)
- Natural rubber gasket seals
- Rated at 200 psi at 70°F
- Imported



"PC" Series IPS DIMENSIONS (IN.)

SIZE	D	d	d1	L
1/2"	1.85	.91	.83	5.24
3/4"	2.09	1.18	1.04	5.32
1"	2.40	1.42	1.31	5.75
1 1/4"	2.87	1.81	1.65	6.30
1 1/2"	3.15	2.05	1.89	6.89
2"	3.62	2.56	2.37	7.87
2 1/2"	4.53	2.52	2.87	9.92
3"	5.28	3.62	3.49	10.87
4"	6.34	4.65	4.49	11.93
6"	8.78	6.85	6.62	11.22

"HW" Series CTS DIMENSIONS (IN.)

1/2"	1.30	.71	.63	4.49
3/4"	1.85	.95	.88	5.00

Part Number	Material	Size	Case Qty
PC10-1/2	PVC	1/2" IPS	100
PC10-3/4	PVC	3/4" IPS	90
PC10-1	PVC	1" IPS	60
PC10-11/4	PVC	1 1/4" IPS	40
PC10-11/2	PVC	1 1/2" IPS	30
PC10-2	PVC	2" IPS	20
PC10-21/2	PVC	2 1/2" IPS	10
PC10-3	PVC	3" IPS	4
PC10-4	PVC	4" IPS	2
PC10-6	PVC	6" IPS	2
HW10CTS1/2	CPVC	1/2" CTS	20/360
HW10CTS3/4	CPVC	3/4" CTS	20/240

Compression Fittings, Galvanized

Galvanized Long Pattern Compressing Fitting Features:

- Bodies made of malleable iron (GC10C)
- End nuts made of malleable iron.
- Galvanized finish
- Buna-N gaskets on domestic fittings.
- SBR gaskets on GC10C series.
- Maximum rated service temperature for gaskets: 212°F (100° C).

WARNING: Designer and/or contractor must provide suitable anchoring of piping to prevent pull-out from fittings when applications subject piping to external forces such as ground shift and temperature variations that cause linear pipe contraction.

Recommended Maximum Pressure (PSI)

Size	Torque Ft. Lbs	Anchored Piping
1/2"	150	150
3/4"	150	150
1"	225	100
1-1/4"	225	100
1-1/2"	225	100
2"	300	75



GC10C Series

ISO 9002

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

Coupling GC10C - Long Pattern - Imported - Malleable Iron, 125 PSI, 120° F

Part Number	Size	Pipe O.D.	Ctn/Case Qty
GC10C1/2	1/2"	.840	30 / 60
GC10C3/4	3/4"	1.050	25 / 50
GC10C1	1"	1.315	15 / 30
GC10C11/4	1-1/4"	1.660	12 / 24
GC10C11/2	1-1/2"	1.900	9 / 18
GC10C2	2"	2.375	14

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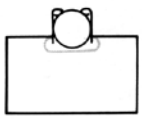
Pipe Repair Clamps



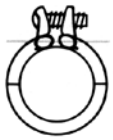
NO LEAD
< 0.25% Pb
by weighted
average



Straight through bolt pull on lugs gives more uniform pressure on the band, more pressure on pipe with less torque on nut.



Oval lug opening in band won't tear - no corners to rip out as with square hole.



Lugs above pipe level don't pull into pipe. Gives more tension on band - more sealing power yet won't crush pipe.



Band covers lead edge of lug. Equal pressure across entire band. No friction - no cutting into pipe surface by raw edge of band opening.

Repair Clamp Features:

- Pipe repair clamps eliminate the need for costly pipe replacement for simple leaks.
- Non-corrosive clamp band is made of annealed stainless steel.
- Nuts and bolts are cadmium plated with a chromate finish; heavy duty hex nut with washer.
- Lugs are made of annealed, malleable iron for maximum strength and permanence; iron phosphate finish.
- Neoprene gasket with maximum rated service temperature of 212° F (100°C).
- Imported

Part Number	Nominal Pipe Size	IPS Pipe O.D.	CTS Tube O.D.	Ctn Qty
3" Wide, 1 Bolt				
HRC3-3/8	3/8"	.675	.625	6/72
HRC3-1/2	1/2"	.840	.875	6/72
HRC3-3/4	3/4"	1.050	1.125	6/72
HRC3-1	1"	1.315	1.375	6/72
HRC3-11/4	1 1/4"	1.660	1.625	6/72
HRC3-11/2	1 1/2"	1.900		6/72
HRC3-2	2"	2.375		6/72
HRC3-21/2	2 1/2"	2.875		6/48
HRC3-3	3"	3.50		6/48
HRC3-4	4"	4.50		6/24
6" Wide, 2 Bolts				
HRC6-1/2	1/2"	.840	.875	6/56
HRC6-3/4	3/4"	1.050	1.125	6/56
HRC6-1	1"	1.315	1.375	6/56
HRC6-11/4	1 1/4"	1.660	1.625	6/56
HRC6-11/2	1 1/2"	1.900		6/56
HRC6-2	2"	2.375		6/56
HRC6-21/2	2 1/2"	2.875		6/24
HRC6-3	3"	3.50		6/24
HRC6-4	4"	4.50		6/24

Couplings, Caps - Flexible & No-Hub



Coupling, Cap Features:

- Flexible couplings for joining all types of sewer pipe, including transitions from one type to another.
- NO-HUB couplings for joining cast iron pipe sections
- End Caps for capping cast iron, steel, PVC and ABS pipe.
- 300 Series stainless steel clamps
- Meets IAPMO File #0317, BOCA ESI RR#90-68, SBCCI PST&ESI Report #9483B
- CSA Approved



C Series



MR Series



MRTC Series



07 Series

Part Number	Size	Connection	Ctn Qty
NO HUB COUPLINGS			
C150C	1 1/2 X 1 1/2	CI X CI	100
C200C	2 X 2	CI X CI	100
C300C	3 X 3	CI X CI	100
C400C	4 X 4	CI X CI	100
FLEXIBLE COUPLINGS			
MR0244	4 X 4	CLAY X CI/PL	18
MR56125	1 1/2" Tubing, Copper or 1 1/4" PL to Same		24
MR5615	1 1/2 x 1 1/2	CI/PL X CI/PL	24
MR5622/125	2 x 1 1/4	CI/PL x CI/PL	24
MR56215	2 X 1 1/2	CI/PL X CI/PL	24
MR5622	2 X 2	CI/PL X CI/PL	24
MR56315	3 x 1 1/2	CI/PL x CI/PL	24
MR5632	3 X 2	CI/PL X CI/PL	24
MR5633	3 X 3	CI/PL X CI/PL	18
MR5642	4 x 2	CI/PL x CI/PL	18
MR5643	4 X 3	CI/PL X CI/PL	18
MR5644	4 X 4	CI/PL X CI/PL	24
MR5655	5 X 5	CI/PL X CI/PL	14
MR5664	6 x 4	CI/PL x CI/PL	10
MR5666	6 X 6	CI/PL X CI/PL	12
DRAIN PIPING TO TUBULAR TRAP *			
MRTC150	1 1/4" x 1 1/2"		24
MRDTC150	1 1/4" or 1 1/2" x 1 1/4" or 1 1/2"		24
MRDTC215	2" x 1 1/4" or 1 1/2" 24		
* Any combination of 1 1/4" or 1 1/2" tubular drain (plastic, tubular or copper)			
END CAPS			
0701-011	1 1/2"		24
0702-019	2"		24
0703-017	3"		24
0704-015	4"		24
0705-020	5"		20
0706-028	6"		12

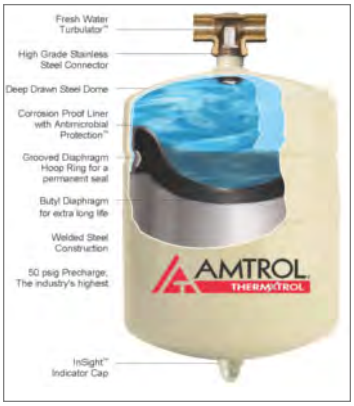
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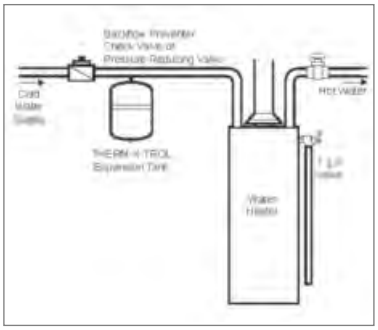
Tanks - Thermal Expansion



THERM-X-SPAN™
Hot Water Heater Safety Expansion Tank

THERM-X-SPAN™ tanks are diaphragm-type, pre-pressurized expansion tanks specifically designed for use with domestic hot water heaters. They act as a safety tank to accept the increased volume of water created when a water storage tank is heated, therefore keeping the system below the relief valve setting. These tanks are recommended in areas where a backflow preventer, check valve or pressure reducing valve is used, creating a closed system.





ANSI/NSF 61

IAPMO

REPORT #99126

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

City of Los Angeles Approved

Features and Benefits:

- Eliminates relief valve spillage
- Controls pressure build-up
- Protects plumbing fixtures
- Smothers water hammer
- Extends water heater life
- Eliminates hot water waste

Specifications:

- Steel shell
- Polypropylene liner, butyl diaphragm
- Brass system connection on G5 and G12
- Stainless steel connection on ST25V, ST30V.
- 200° F maximum operating temperature
- 150 PSI maximum working pressure
- Factory precharge: 50 PSI inline, 40 PSI stand models.

Part Number	Configuration	Tank Volume	System Connection	Dimensions Diameter	Height	Weight
G5	IN-LINE	2 gal	3/4" NPTM	8"	12 5/8"	5 lbs.
G12	IN-LINE	4.4 gal	3/4" NPTM	11"	15"	9 lbs.
ST25V	STAND	10.3 gal	1" NPTF	15 3/8"	19 1/4"	23 lbs.

Air Purgers, Vents



443

Air Purger Features:

- Reliable and continuous air separation with maintenance free operation.
- Designed using a double water passage way with internal contours and baffles.
- Efficiently separates air from water sending it to the vent for removal.
- In-line unit –– one piece cast iron construction.
- Individually packaged.



700-C

Float Type Air Vent Features:

- Designed to be installed at the hydronic system high points on heaters and baseboard convectors directly on top of the air purger.
- Improves system efficiency.
- Compact size to fit the smallest spaces.
- Rugged cast bronze body construction for durability.
- Industry proven servicable design with take-apart feature.
- Individually packaged.

Air Purger Part Number	Pipe Size	Dimensions(Ins.) "L"	"W"	"H"	Tank Conn	Vent Conn	Ctn Qty
443-1	1"	6	2-1/2	4	1/2 FIPT	1/8 FPS	1
444-11/4	1-1/4"	6	2-1/2	4	1/2 fipt	1/8 fps	1
445-11/2	1-1/2"	8	3-1/2	5	1/2 fipt	1/8 fps	1
446-2	2"	8	3-1/2	5	1/2 fipt	1/2 fps	1

Air Vent Part Number	Maximum PSI	Maximum Temp	Connection	Ctn Qty
700-C	150 PSI	230 ^{O}F (110 ^{O}F)	1/8 MPS (NPTM)	1

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Tubing - Polyethylene



Polyethylene Tubing Features:

- Conforms to FDA, NSF and USDA Standards.
- Temperature Range -100º F to +140º F
- Economical.
- Extremely Flexible.
- Translucent.
- Resists Corrosion.
- **NOT FOR USE WITH HOT WATER**

LOW-LEAD IAPMO R&T

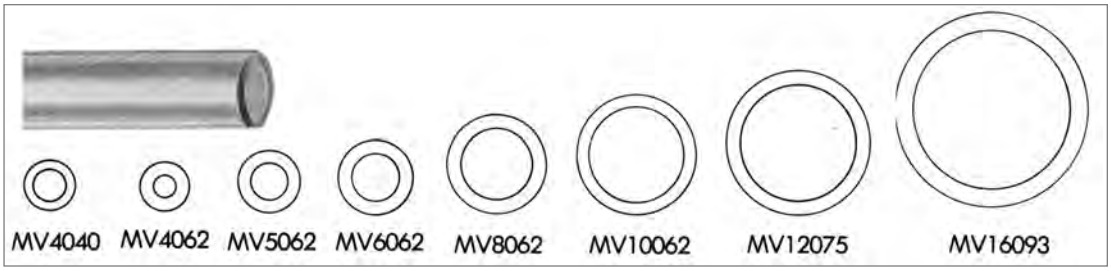
NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

- **SOLD IN COIL LENGTHS ONLY.**
- ORDER BY THE NUMBER COIL LENGTHS REQUIRED.
  Ex: For 500' of MV4040-5 order Qty 1 MV4040-5

Part Number Bulk Boxed	Part Number Dispenser Box	OD	ID	Wall Thickness	Max PSI @ 70ºF	Coil Length
MV4040-1BLACK		1/4"	.17"	0.04"	135	100'
MV4040-1		1/4"	.17"	0.04"	135	100'
MV4040-5		1/4"	.17"	0.04"	135	500'
MV4040M		1/4"	.17"	0.04"	135	1000'
MV4062-1		1/4"	1/8"(.125)	1/16"(.062)	180	100'
MV4062-5		1/4"	1/8"(.125)	1/16"(.062)	180	500'
MV4062M		1/4"	1/8"(.125)	1/16"(.062)	180	1000'
MV5062-1		5/16"	3/16"(.1875)	1/16"(.062)	140	100'
MV5062-5		5/16"	3/16"(.1875)	1/16"(.062)	140	500'
MV5062M		5/16"	3/16"(.1875)	1/16"(.062)	140	1000'
MV6062-1		3/8"	1/4"(.250)	1/16"(.062)	120	100'
MV6062-5		3/8"	1/4"(.250)	1/16"(.062)	120	500'
MV6062-5BLACK		3/8"	1/4" (.250	1/16"(.062)	120	500'
MV6062M		3/8"	1/4"(.250)	1/16"(.062)	120	1000'
MV8062-1		1/2"	3/8"(.375)	1/16"(.062)	90	100'
MV8062-5		1/2"	3/8"(.375)	1/16"(.062)	90	500'
MV10062-1		5/8"	1/2"(.500)	1/16"(.062)	70	100'
MV10062-5		5/8"	1/2"(.500)	1/16"(.062)	70	500'
MV12075-1		3/4"	.6	.075	60	100'
MV16093-1		1"	.814	3/32" (.094)	55	100'
	TP309	5/16"	3/16"(.1875)	1/16"(.062)		100'



POLYETHYLENE TUBING SIZING GUIDE



Tubing - Clear Vinyl



Vinyl Tubing Features:

- Temperature Range -20º F to +150º F
- Flexible.
- Transparent.
- Tasteless.
- Non-Toxic.
- **NOT FOR USE WITH HOT WATER**

LOW-LEAD IAPMO R&T

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Applications:

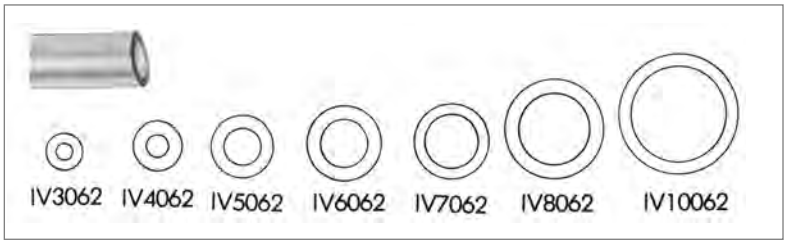
- Pool slides
- RV use cold water
- Water softeners
- Ice maker
- Livestock
- Food & Beverage

• SOLD IN COIL LENGTHS ONLY.
• ORDER BY THE NUMBER COIL LENGTHS REQUIRED.
Ex: For 500' of IV7062-5 order Qty 1 IV7062-5



Part Number Bulk Box	Dispenser Box	OD	ID	Wall Thickness	Length
IV4062-1		1/4"	1/8"(.125)	1/16"(.062)	100'
IV5062-1		5/16"	3/16"(.1875)	1/16"(.062)	100'
IV6062-1		3/8"	1/4"(.250)	1/16"(.062)	100'
IV7062-1		7/16"	5/16"(.3125)	1/16"(.062)	100'
IV8062-1		1/2"	3/8"(.375)	1/16"(.062)	100'
IV10062-1		5/8"	1/2"(.500)	1/16"(.062)	100'
	TV309	5/16"	3/16"(.1875)	1/16"(.062)	100'

VINYL TUBING SIZING GUIDE



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Fittings for Plastic Tubing - NL Brass

NO LEAD
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Barb Fitting Features:

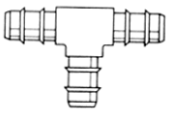
- Superior NO LEAD brass fittings for soft plastic tubing for oil, water, air, vacuum, gas and liquid low pressure lines.
- Exclusive self-clinching double barbs actually tighten under strain.

Compression Fitting Features:

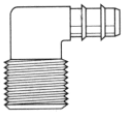
- NO LEAD Brass compression fittings designed for plastic tubing.
- Built-in tube support prevents tube collapse and allows easy assembly.



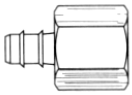
VT22



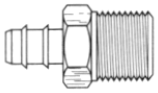
VT224



VT229



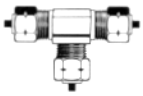
VT26



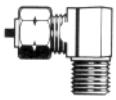
VT28



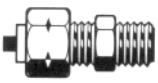
VT62



VT64



VT69



VT68

Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty
Coupling (Ins x Ins)				
VT22-4-4NL	3/8"	1/4"		Bulk
VT22-6-6NL	1/2"	3/8"		Bulk
Tee (Ins x Ins x Ins)				
VT224-6NL	1/2"	3/8"		Bulk
Elbow (Ins x MIP)				
VT229-4-4NL	3/8"	1/4"	1/4" mip	Bulk
VT229-6-4NL	1/2"	3/8"	1/4" mip	Bulk
Female Adapter (Ins x FIP)				
VT26-6-4NL	1/2"	3/8"	1/4" fip	Bulk
Male Adapter (Ins x MIP)				
VT28-4-2NL	3/8"	1/4"	1/8" mip	Bulk
VT28-4-4NL	3/8"	1/4"	1/4" mip	Bulk
VT28-6-4NL	1/2"	3/8"	1/4" mip	Bulk
Union w/ inserts (Comp x Comp)				
VT62-4NL	1/4" x 1/4"	.17"		Bulk
Tee w/ inserts (Comp x Comp x Comp)				
VT64-4NL	1/4" x 1/4" x 1/4"	.17"		Bulk
Male Elbow w/ inserts (Com x MIP)				
VT69-4-4NL	1/4"	.17"	1/4" mip	Bulk
Male Connector w/ inserts (Comp x MIP)				
VT68-4-4NL	1/4"	.17"	1/4" mip	Bulk
VT68-6-4NL	3/8"	1/4"	1/4" mip	Bulk

Fittings for Plastic Tubing - NL Brass

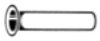
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Third Party Certified to NSF / ANSI 372



VT60



VT61



VT63

Part Number	Fits Tube OD	Fits Tube ID	Thread Size	Qty
Delrin Sleeve				
VT60-4	1/4"			Bulk
VT60-6	3/8"			Bulk
Nut				
VT61-4NL	1/4"			Bulk
VT61-5NL	5/16"			Bulk
VT61-6NL	3/8"			Bulk
Tube Support				
VT63-4NL	1/4"	.17"		Bulk
VT63-6NL	3/8"	1/4"		Bulk

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Clear Braided PVC Hose



Clear Braided PVC Hose
Standard Wall, Class 125 Features:

- Flexible, see through clear hose with braid pattern reinforcement of two polyester spirals.
- Flexible clear PVC NSF 51 certified to 100ºF (38ºC), USP CLASS V1 rated.
- All hose compound ingredients used are listed in US FDA CFR, Title 21.
- Temperature range + 25º to 150º F / -5º to +65ºC.
- Silicone free.
- Food and beverage grade, standard wall.
- Use for air, water lines.

NO LEAD LEAD-FREE

Part Number	Nominal (inches) ID	OD	Max Working Pressure PSI@68°F	PSI@122°F	Reel Length	Approx Wt per CFT.
CBH25-1	1/4	0.438	250	105	100’	5.7 lbs
CBH38-1	3/8	0.594	225	97	100’	9.0 lbs
CBH50-1	1/2	0.750	200	86	100’	13.8 lbs
CBH58-1	5/8	0.875	200	86	100’	16.5 lbs
CBH75-1	3/4	1.030	150	65	100’	21.9 lbs
CBH100-1	1	1.300	125	54	100’	31.5 lbs
CBH100-2	1	1.300	125	54	200’	31.5 lbs
CBH125-50	1 1/4	1.625	100	43	50’	45.0 lbs
CBH125-1	1 1/4	1.625	100	43	100’	45.0 lbs
CBH150-50	1 1/2	1.937	100	43	50’	64.0 lbs
CBH150-1	1 1/2	1.937	100	43	100’	64.0 lbs
CBH200-1	2	2.490	75	33	100’	95.0 lbs

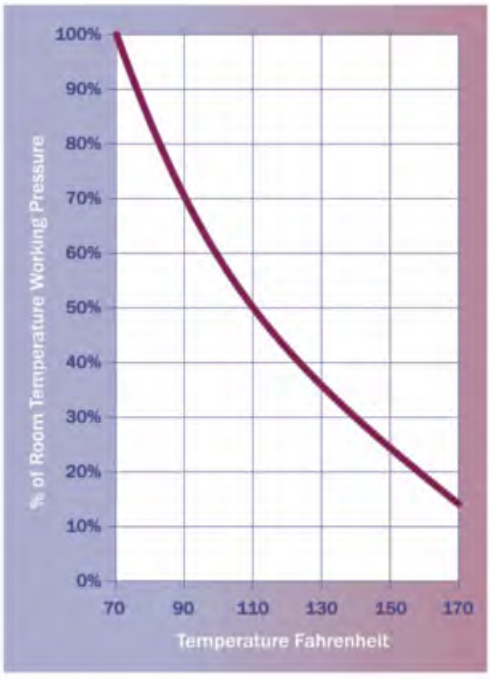
**** Temperatures higher than 68° F reduce available working pressure. See next page for temperature, working pressure calculation chart and cautionary note.**

Clear Braided PVC Hose

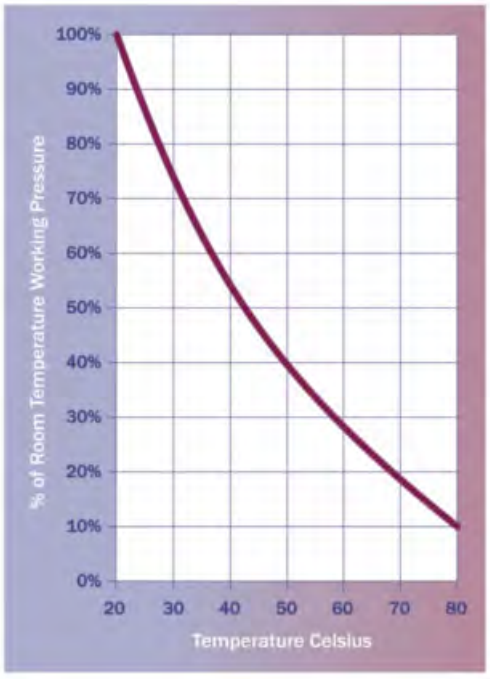
Effects of Elevated Temperatures on Thermoplastic Hose.

The compounds used in clear braided PVC hose are generally referred to as thermoplastics. These materials achieve their optimum physical properties at room temperature, 68ºF (20ºC). As these materials are exposed to increased ambient temperatures, they will soften and their physical properties will change. This will have the effect of sharply reducing the available working pressure. Coupling retention will also be reduced. The charts below illustrate this effect. In all cases, the product should be tested in a controlled, secure and safe environment, and all operating conditions should be considered prior to use.

All published working pressures of AGI Series CBH hose are based on a room temperature of 68ºF (20ºC).



Example from the Fahrenheit Chart
If working pressure at 68ºF is 200 psi, then the WP at 110ºF is 200 x 50%, or 100 psi



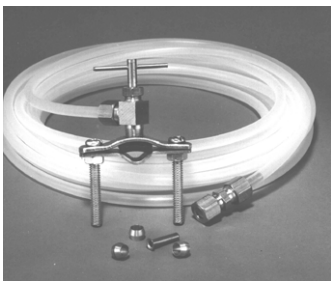
Example from the Celsius Chart
If working pressure at 20º is 14 bar, then the WP at 50ºC is 14 x 50%, or 5.6 bar

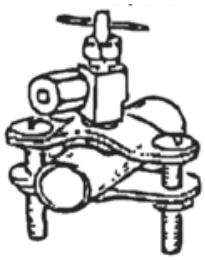
CAUTIONARY NOTE

The charts are to used as a guideline only. The information and recommendations contained here are, to the best of our manufacturer's knowledge, accurate and reliable, but no guarantee of their accuracy is made. All products are sold upon the condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses, and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Variability in length of exposure, temperature, pressure, velocity of fluid, and chemical concentration all contribute to reduced working pressure and hose reliability.

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Plumbing Installation Kits





NO LEAD
< 0.25% Pb
by weighted
average

NO LEAD Brass Saddle Tap Valve & Kit Features:

- Self piercing tap valve and clamp for 3/8" to 1" OD copper tube or 3/8" to 3/4" iron pipe.
- Plastic sleeve, brass compression nut and brass or no lead brass insert (for reinforcing polyethylene tubing).
- Brass compression union for connecting polyethylene tubing to 1/4" water inlet at refrigerator, humidifier or cooler.
- 25 feet of 1/4" OD polyethylene tubing.
- The saddle tap valve eliminates plumbing connections and fittings.
- Supplies water to most humidifiers, evaporative coolers and refrigerators with automatic ice maker or water dispenser in door.
- Use for installation of Reverse Osmosis and Chemical Contaminant Filter Systems.
- For use on copper tube or iron pipe.

Part Number	Description	Ctn QtY
HTVK381NL	NO LEAD Brass Tapping Valve Kit fits 3/8" -1" OD copper tube or 3/8"-3/4" iron pipe	6
PFSTVNL	No Lead Brass Saddle Tapping Valve Only	10

HARVARD



HARVARD Garbage Disposal Wiring Kit Features:

- Complete with 3 wire nuts and one SE/U oval cable connector.
- 6' long, 16 gauge, 3 conductor wire cord.
- Polybagged with header card.



Part Number	Description	Ctn Qty
HGDWK6ST	Kit w/ 6' cord straight plug	24

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Trap Wrap®



HC500R Series



Trap Wrap® brand insulation kits offer an economical way to professionally insulate exposed undersink piping. Integrally molded fasteners press together to provide an easy, seamless, retrofit installation.

Trap Wrap® Features:

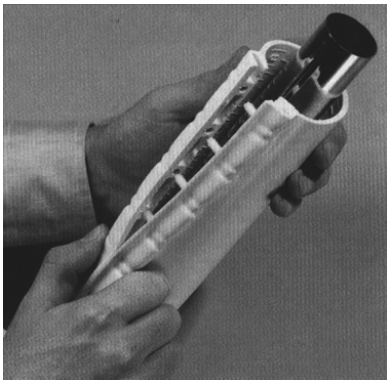
- Press-snap™ fasteners.
- Molded-in measurements.
- A.D.A. compliant.
- China White in color.
- Removable for service.
- Completely covers pipes and supplies.
- Sanitary surface.
- 2 piece P-trap assembly, 1 piece angle valve.
- Patented.

Satisfies the following requirements:

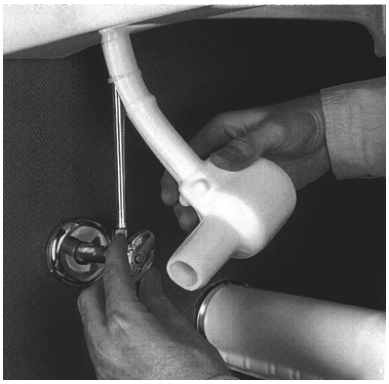
- ASME A112.18.9-2001,
- ADA article 4.19.4 (606.5)
- CABO/ANSI 4.20.4
- UFAS 4.19.4
- California Title 24,
- UPC, IPC, ICC, Canada Barrier-Free Code.

Part Number	Description	Ctn Qty
HC500R	Standard Trap Wrap	15
HC500RHS	Trap Wrap with extra sink bend	15

TrapWrap is a registered trademark of Water-Tite (IPS/Truebro).

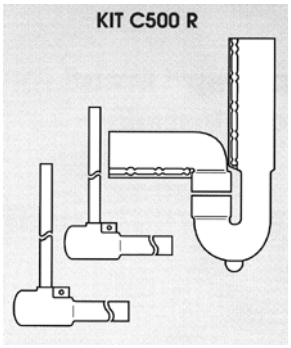


- **Virtually seamless for enhanced appearance**
- **Reinstallable after service**
- **Highly tamper resistant**
- **Easily cleaned.**

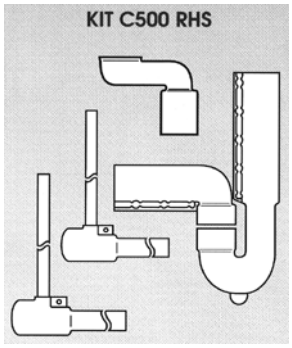


Angle valve cover allows for easy and quick emergency shut-off without removing cover

Trap Wrap®



Includes 15" tail piece and trap cover, 8" waste arm insulation, fasteners, and hot and cold angle valve cover.



Includes all parts of HC500R plus C500HS offset grid drain cover.

ASTM DATA		
ASTM G21	Anti-Bacterial	No measurable bacterial growth
ASTM G22	Anti-Fungal	No measurable fungal growth
ASTM D635	Burning Characteristics	Less then 5 sec (ATB) 10 MM (AEB)
ASTM C177	Thermal conductivity	BTU - in/hr - ft2 -°F k value = 1.02

Sample Specification:

Wheelchair accessible lavatories and sinks shall be insulated with TrueBro Trap Wrap® Insulation Kit (indicate model #, color and accessories). Trap assemblies shall have vinyl insulating outer shell with concealed integral fasteners for a virtually seamless finished installations. Angle stop covers shall permit unrestricted access to angle valves without removal of cover.

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Washer Boxes & Drains



Washer Box Features:

- Center drain or dual drain.
- High impact polystyrene.
- 4 support brackets.
- Easy drain knockout.
- Top mount knockouts
- Box dimensions: 8 3/4" w x 7 1/2" h x 3 5/8" d
- Faceplate dimensions: 11 3/4" w x 10 1/8" h

Part Number	Valve Connection	Valve Type	Drain	Ctn Qty
Standard Washer Boxes				
38100	1/2" Sweat	1/4 turn brass ball valves	Center	12
38104	1/2" PEX	1/4 turn brass ball valves	Center	12
Dual Drain Washer Boxes				
38200	1/2" Sweat	2X4 Single Lever ball valves	Dual	12



General Purpose

General Purpose & Shower Drain Features:

- Universal 4 1/2" Snap-Tite Strainer.
- Mechanically attach or solvent weld over 2" DWV pipe.
- No-Calk drain is designed for use with preformed shower bases and is ideal for slab construction.
- Solvent Weld drain body is sealed to shower base with rubber gasket and fiber slip washer.



42097 Shower Drain



42099 Shower Drain

Shower Drain for Tile Base Features:

- Designed for use on built-up shower bases of tile, marble, where a shower pan liner is used.
- Reversible clamping collar is secured with stainless steel bolts into brass inserts to prevent slipping.
- Low profile design for use in tight spaces.
- Solvent welds over 2" or inside 3" Sch 40 DWV.
- Universal 4 1/4" Screw-Tite strainer.

Part Number	Material	Description	Size	Ctn Qty
General Purpose Drains				
43583	PVC	Drain w/ 5" stainless steel Screw-Tite strainer	3" or 4"	12
43601	PVC	Drain w/ 5" nickle alloy grate	3"or 4"	12
43599	PVC	Drain w/ 5" brass grate and metal ring	3" or 4"	12
Shower Drains				
42097	PVC	Solvent weld drain w/ stainless steel strainer	2"	12
42099	PVC	No caulk drain w/ stainless steel strainer	2"	12

Closet Flanges & Gaskets



43503

Level Fit Closet Flange Features:

- 3" or 4" all plastic flange solvent welds inside of 4" or over 3" Sch 40 DWV pipe.
- Four mounting slots.
- Four countersunk holes for secure attachment to the floor.



43513

Level Fit Closet Flange with metal ring Features:

- The metal ring provides added strength and cracking resistance to the flange and can be rotated to allow precise alignment of bolts and screws.
- 3" or 4" flange solvent welds inside of 4" or over 3" Sch 40 DWV pipe.



43500

Level Fit Offset Closet Flange with metal ring Features:

- The metal ring provides added strength and cracking resistance to the flange and can be rotated to allow precise alignment of bolts and screws.
- 3" or 4" flange solvent welds inside of 4" or over 3" Sch 40 DWV pipe.
- 2" offset allows a margin of error for drain pipe/flange alignment.

Part Number	Material	Description	Size	Ctn Qty
Closet Flanges				
43505	PVC	Plastic ring closet flange w/ KO	3" x 4"	12
43503	PVC	Plastic ring closet flange	3" x 4"	12
43502	ABS	Plastic ring closet flange	3" x 4"	12
Closet Flanges with Metal Adjustable Ring				
43513	PVC	Metal ring closet flange	3" x 4"	12
43512	ABS	Metal ring closet flange	3" x 4"	12
Offset Closet Flanges				
43501	PVC	Offset closet flange	3" x 4"	12
43500	ABS	Offset closet flange	3" x 4"	12



Adjustable Urinal Flange Kit Features:

- Horizontal mounting slots accommodate urinals with 3 1/2" to 7" mount centers.
- Kit includes all bolts, nuts, washers and gaskets.
- Flanges solvent weld into any 2" fitting. They do not weld "over".

Part Number	Material	Description	Size	Ctn Qty
43543	PVC	Urinal flange kit	2"	10



Wax Closet Gasket Features:

- Amber-color.
- Meets Federal specifications HH-C-536A.

Part Number	Description & Material	Size	Ctn Qty
AGWAX	Standard wax gasket	3", 4"	48
AGWAXH	Wax gasket w/Horn	3", 4"	24
AGWAXJ	Jumbo wax gasket 1 1/2"	3", 4"	24

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Test Plugs, Caps



Sure-Grip® Test Plug Features:

- Polypropylene construction.
- Fits all types of pipe at nominal sizes.
- Permanent or temporary use.

Part Number	Description	Size	Pipe ID	Ctn Qty
271158	Sure-Grip® plug	1- 11/2"	1.48" - 1.63"	50
271208	Sure-Grip® plug	2"	1.89" - 2.09"	50
271308	Sure-Grip® plug	3"	2.89" - 3.09"	30
271408	Sure-Grip® plug	4"	3.87" - 4.09"	30



Techno-Cap Features:

- Heavy duty, PVC, high pressure.
- Easily solvent cemented over end of CWV pipe.
- Will not clog or go down in pipe.

Part Number	Description	Size	Ctn Qty
33468	Tests 1 1/2" DWV Pipe	1-1/2"	100
33470	Tests 2" DWV Pipe	2"	100
33472	Tests 3" DWV Pipe	3"	50
33474	Tests 4" DWV Pipe	4"	25



Knock-Out™ Test Cap Features:

- Solvent cements to Sch 40 ABS and PVC DWV pipe.
- Deeper design provides stronger leak-free connections.
- “Tab" feature keeps hands free of solvent cement.
- Will withstand 10 PSI or 30’ head pressure.

Part Number	Description	Size	Ctn Qty
39100	Knock-Out test cap	1-1/2"	50
39101	Knock-Out test cap	2"	50
39102	Knock-Out test cap	3"	50

Plumbing Specialty Accessories



Tub Box

Tub Box Features:

- Provides a quick, economical & clean way to install tub waste & drain.
- Made of a semi-flexible, very durable plastic polymer.
- Built in cut-out for up to 2" Sch 40 drain.

Part Number	Size	Ctn Qty
34080	13" x 13" x 6 1/2"	12



Shower Pan Liner 41597

Shower Pan Liner Features:

- Gray PVC shower pan liner is 40 mil – One roll per case.
- Liner marked in 6" increments for ease of measuring.
- Meets ASTM D-4551.

Part Number	Size	Ctn Qty
41597	5’ x 40’ 40 mil	1



Water Heater Pan

Plastic Water Heater Pan Features:

- Recommended for electric water heater protection.
- Pre-drilled to accept 1" or 1 1/2" fittings.
- Manufactured from semi-flexible, tough and durable 0.0625" plastic polymer.

Part Number	Size	Ctn Qty
34061	20"	12
34062	22"	12
34063	24"	12
34064	26"	12
34065	30"	12



Water Heater Stand

Gas Water Heater Stand Features:

- Allows the placement of the water heater tanks 18" above the ground as required by National Fuel Gas Code.
- Constructed of 18 gauge spangled galvanized sheet metal, holds up to 50 gallon water heaters.

Part Number	Size	Ctn Qty
34057	21" x 21" x 18" high	4

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Roof Flashings

Thermoplastic Self-Seal Roof Flashing Features:

- Non fading and non cracking rigid black thermoplastic base.
- Slides over pipe - for pitch to 40 degrees.
- 3" self-seal flashing can be used on 3" plastic, copper, steel or cast iron.
- Matte finish blends in better with roof surfaces.

Uni-Seal Flex Self-Seal Flexible Roof Flashing Features:

- Flexible base conforms to most flat or contoured roof surfaces including clay tile.
- No caulking needed.
- Slides over pipe - for pitch to 40 degrees.
- Unique dual bead configuration that seizes the vent pipe with a locking grip preventing leaking entirely.

Approvals:

Report #93126

File #2326

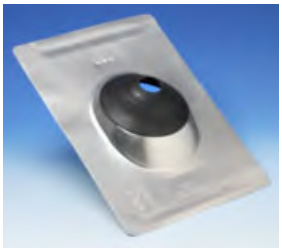
Aluminum Self-Seal Roof Flashing Features:

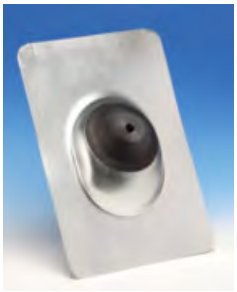
- Rustproof 0.032 stamped aluminum standard base. Non fading sealing collar.
- Slides over pipe - for pitch to 40 degrees.

Galvanized Base Roof Flashing Features:

- Rustproof, stamped galvanized, 24 to 28 gauge. Non fading sealing collar.
- Slides over pipe - for pitch to 40 degrees.







New Part No	Old Part No.	Description	Size	Ctn Qty
Thermoplastic Self-Seal Roof Flashings				
11908	14101	Thermoplastic Flashing	1-1/4", 1-1/2"	12
11909	14102	Thermoplastic Flashing	2"	12
11910	14103	Thermoplastic Flashing	3"	12
11919	14185	Thermoplastic Flashing	1 1/2, 2, 3"	12
11911	14104	Thermoplastic Flashing	4"	12
Aluminum Self-Seal Roof Flashings				
12920	12101	Aluminum Flashing	1-1/4", 1-1/2"	12
12933	12102	Aluminum Flashing	2"	12
12946	12103	Aluminum Flashing	3"	12
Galvanized Self-Seal Roof Flashings				
11840	12201	Galvanized Flashing	1 1/4", 1 1/2"	20
11853	12202	Galvanized Flashing	2"	20
11866	12203	Galvanized Flashing	3"	20
11871	12209	Galvanized Flashing	1 1/4, 1 1/2, 2, 3"	20
11879	12204	Galvanized Flashing	4"	20

Solder Preparation Accessories

Economy Fitting Brush Features:

- Galvanized stem wire with stainless steel bristles.

Standard Fitting Brush Features:

- High carbon crimped steel bristles.
- Two-wire galvanized stem with plastic hanging hole.



FB-E Series



FB Series

Part Number	Description	Ctn Qty
FB50E	1/2" Economy Fitting Brush	12
FB75E	3/4" Economy Fitting Brush	12
FB100E	1" Economy Fitting Brush	12
FB125E	1-1/4" Economy Fitting Brush	8
FB150E	1-1/2" Economy Fitting Brush	6
FB200E	2" Economy Fitting Brush	6
FB50	1/2" Standard Fitting Brush	12
FB75	3/4" Standard Fitting Brush	12
FB100	1" Standard Fitting Brush	12
FB125	1-1/4" Standard Fitting Brush	8
FB150	1-1/2" Standard Fitting Brush	6
FB200	2" Standard Fitting Brush	6



AC310

Plumber's Abrasive Cloth Features:

- 120 grit.
- Water resistant abrasive cloth.
- Sspecially processed for cleaning copper tubing and fittings.
- As a utility cloth, plumbers find many uses on metal and wood.

Part Number	Description	Size	Ctn Qty
AC310	120 grit abrasive	11/2" x 10 yards	24 rolls
OM5	Open Mesh cloth	1 1/2" x 5 yards	24 rolls
OM10	Open Mesh cloth	1 1/2" x 10 yards	24 rolls

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Perforated Hanger Strapping

101 Series Galvanized Duct Tape

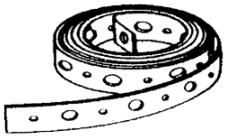
- 24 and 28 gauge
- Alternate 1/4" and 5/16" bolt and nail holes
- 3/4" width

102 Series Plastic Polypropylene Hanger Strapping

- 1/8" dia. holes
- Max working load - 15# @ 85° F
- Breaking Strength - 100# @ 68° F

100G Series Galvanized or Zinc Plated

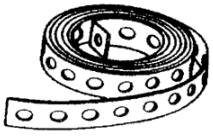
- Perforated hanger strapping
- 20 to 28 gauge
- 1/4" bolt holes
- 3/4" width



101 Series



102 Series



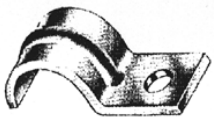
100G and 100S Series

Part Number	Size	Ctn Qty
101 Series - Galvanized Duct Tape		
101-10	3/4" x 10' x 24 gauge	50
101-50	3/4" x 50' x 24 gauge	10
101-100	3/4" x 100' x 24 gauge	5
101-10-28	3/4" x 10' x 28 gauge	50
101-50-28	3/4" x 50' x 28 gauge	10
101-100-28	3/4" x 100' x 28 gauge	5
102 Series - Plastic Polypropylene		
102-10	3/4" x 10' x .05 gauge	BULK/100
102-25	3/4" x 25' x .05 gauge	1/40
102-50	3/4" x 50' x .05 gauge	1/20
102-100	3/4" x 100' x .05 gauge	1/10
100G Series - Galvanized or Zinc Plated		
100G-10-24	3/4" x 10' x 24 gauge	50
100G-50-24	3/4" x 50' x 24 gauge	10
100G-100-24	3/4" x 100' x 24 gauge	5
100G-10-28	3/4" x 10' x 28 gauge	50
100G-10-22	3/4" x 10' x 22 gauge	50
100G-50-22	3/4" x 50' x 22 gauge	10
100G-100-22	3/4" x 100' x 22 gauge	5
100G-10-20	3/4" x 10' x 20 gauge	50
100G-50-20	3/4" x 50' x 20 gauge	10
100G-100-20	3/4" x 100' x 20 gauge	5
100S Series - Steel Plain		
100S-10-24	3/4" x 10' x 24 gauge	50

Pipe Clamps and Straps



500 Series



510 Series



513 Series

500 Series Tube Straps and Clamps

Part Number	Size	Ctn Qty
Copper Clad Tube Straps, TWO HOLE/EAR		
500-1/2	1/2"	100
500-3/4	3/4"	100
500-1	1"	100
500-11/4	1 1/4"	100
Copper Clad Tube Straps, ONE HOLE/EAR		
510-1/4	1/4"	100
510-3/8	3/8"	100
510-1/2	1/2"	100
510-3/4	3/4"	100
510-1	1"	100
510-11/2	1 1/2"	50
510-2	2"	50
Suspension Clamp - Plastic with nail		
513-1/2	1/2"	50
513-3/4	3/4"	50

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Pipe Straps

600 Series Galvanized Pipe Straps

- 2 ear
- 1/2 - 2" sizes available

603 Series Plastic Coated Pipe Straps

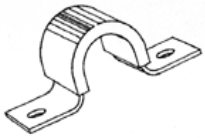
- 2 ear
- 1" - 2" sizes available

610 and 620 Series Galvanized Pipe Straps

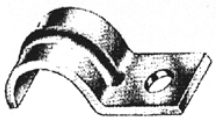
- 1 ear
- 1" - 2" sizes available



600 Series



603 Series

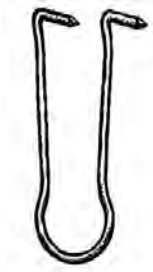


610/620 Series

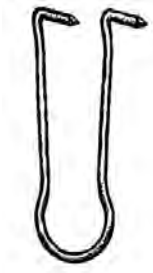
Part Number	Size	Ctn Qty
600 Series Galvanized Pipe Straps - 2 ear		
600-1/4	1/4"	100
600-3/8	3/8"	100
600-1/2	1/2"	100
600-3/4	3/4"	100
600-1	1"	100
600-11/4	1 1/4"	50
600-11/2	1 1/2"	50
600-2	2"	50
600-21/2	2 1/2"	25
600-3	3"	25
600-4	4"	25
603 Series Plastic Coated Pipe Straps - 2 ear		
603-11/4	1 1/4"	50
603-11/2	1 1/2"	50
603-2	2"	50
603-3	3"	25
603-4	4"	25
603-6	6"	10
610 Series One Hole Pipe Straps		
610-1/4	1/4" Pipe	100
610-3/8	3/8" Pipe	100
610-1/2	1/2" Pipe	100
610-3/4	3/4" Pipe	100
610-1	1" Pipe	100
610-11/4	1 1/4" Pipe	100
610-11/2	1 1/2" Pipe	50
610-2	2" Pipe	50
620 Series One Hole EMT Straps		
620-1/2	1/2" EMT	100
620-3/4	3/4" EMT	100
620-1	1" EMT	100
620-11/4	1 1/4" EMT	100
620-11/2	1 1/2" EMT	50
620-2	2" EMT	50

Tube & Pipe Hooks

200 S Series Bright Steel
200 C Series Copper Clad
200 P Series Plastic Coated



200S Series



200C Series



200P Series

Part Number	Size (pipe x length)	Ctn Qty
200S Series Bright Steel		
200S-1/2X4	1/2" X 4"	50
200S-1/2X6	1/2" X 6"	50
200S-1/2X8	1/2" X 8"	50
200S-3/4X4	3/4" X 4"	50
200S-3/4X6	3/4" X 6"	50
200S-1X4	1" X 4"	50
200S-1X6	1" X 6"	50
200S-1X8	1" X 8"	50
200S-11/4X6	1 1/4" X 6"	50
200S-11/4X8	1 1/4" X 8"	50
200S-11/2X6	1 1/2" X 6"	50
200S-11/2X8	1 1/2" X 8"	50
200S-2X6	2" X 6"	50
200S-2X8	2" X 8"	50
100C Series Copper Clad		
200C-1/2X4	1/2" X 4"	50
200C-1/2X6	1/2" X 6"	50
200C-1/2X8	1/2" X 8"	50
200C-3/4X4	3/4" X 4"	50
200C-3/4X6	3/4"X 6"	50
200C-3/4X8	3/4" X 8"	50
200C-1X4	1" X 4"	50
200C-1X6	1" X 6"	50
200C-1X8	1" X 8"	50
200C-11/4X6	1 1/4" X 6"	50
200C-11/4X8	1 1/4" X 8"	50
200C-11/2X6	1 1/2" X 6"	50
200C-11/2X8	1 1/2" X 8"	50
200C-2X6	2" X 6"	50
200C-2X8	2" X 8"	50
200P Series Plastic Coated		
200P-1/2X4	1/2" X 4"	50
200P-1/2X6	1/2" X 6"	50
200P-3/4X4	1/2" Pipe* x 4"	50
200P-3/4X6	1/2" Pipe* x 6"	50
200P-3/4X8	1/2" Pipe* x 8"	50
200P-1x4	3/4" Pipe* x 4"	50
200P-1X6	3/4" Pipe* x 6"	50
200P-1X8	3/4" Pipe* x 8"	50
200P-11/4X6	1" Pipe * x 6"	50

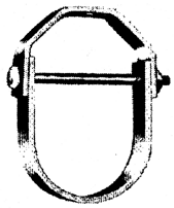
* For plastic coated steel pipe hooks, order tube hook of next larger size.
Ex: For 3/4" x 6" pipe use 1" x 6" hook.

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DWV Hanger - Galvanized

- Not plastic coated

Greenfield Manufacturing Co., Inc.



Clevis

Part Number	Size	Ctn Qty
Light Clevis		
104-1/2	1/2"	100
104-3/4	3/4"	100
104-1	1"	100
104-11/4	1 1/4"	100
104-11/2	1 1/2"	100
104-2	2"	50
104-21/2	2 1/2"	25
104-3	3"	25
104-4	4"	25
Copperclad Clevis		
406-1/2	1/2"	100
406-3/4	3/4"	100
406-1	1"	100
406-11/4	1 1/4"	100
406-11/2	1 1/2"	100
406-2	2"	50
Standard Clevis, Black		
204-1/2	1/2"	100
204-3/4	3/4"	100
204-1	1"	100
204-11/4	1 1/4"	100
204-11/2	1 1/2"	100
204-2	2"	50
204-21/2	2 1/2"	25
204-3	3"	25
204-4	4"	25
204-5	5"	15
204-6	6"	10
204-8	8"	8
204-10	10"	BULK
204-12	12"	BULK



DWV Hanger

DWV Hanger - Galvanized		
120-11/2	1 1/2"	50
120-2	2"	50
120-3	3"	50
120-4	4"	50

Pipe Hangers

Adjustable Swivel Ring

- Galvanized, or copperclad
- 1/2" to 4" - 3/8" rod
- 5" to 8" - 1/2" rod

900 All Thread Rod

- 6' length, plain



300 Swivel Ring

Part Number	Size	Ctn Qty
Adjustable Swivel Ring, Galvanized		
300-1/2	1/2"	100
300-3/4	3/4"	100
300-1	1"	100
300-11/4	1 1/4"	100
300-11/2	1 1/2"	100
300-2	2"	100
300-21/2	2 1/2"	50
300-3	3"	50
300-4	4"	25
300-5	5"	20
300-6	6"	20
300-8	8"	10
Adjustable Swivel Ring, Copperclad		
301-1/2	1/2"	100
301-3/4	3/4"	100
301-1	1"	100
301-11/4	1 1/4"	100
301-11/2	1 1/2"	100
301-2	2"	100



108 Riser Clamp

Riser Clamp, Black		
108-1	1"	25
108-11/4	1 1/4"	25
108-11/2	1 1/2"	25
108-2	2"	25
108-21/2	2 1/2"	25
108-3	3"	25
108-4	4"	25
108-5	5"	15
108-6	6"	10
108-8	8"	BULK
108-10	10"	BULK



900 Rod

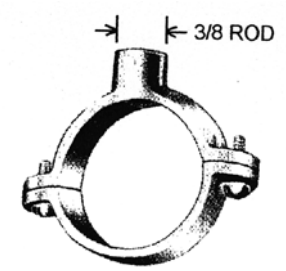
All Thread Rod		
900-1/4	1/4"	50
900-3/8	3/8"	25
900-1/2	1/2"	15
900-5/8	5/8"	9
900-3/4	3/4"	6

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Split Ring Pipe Hangers

Split Ring Hangers - Malleable Iron

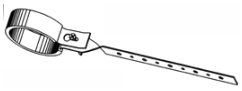
- Galvanized, black or epoxy coated.
- 3/8" to 2" - 3/8" rod
- 2 1/2" to 4" - 1/2" rod



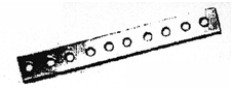
Split Ring Hangers

Part Number	Size	Rod Size	Ctn Qty
Split Ring Pipe Hanger, Black malleable			
202-3/8	3/8"	3/8"	50
202-1/2	1/2"	3/8"	50
202-3/4	3/4"	3/8"	50
202-1	1"	3/8"	50
202-11/4	1 1/4"	3/8"	25
202-11/2	1 1/2"	3/8"	25
202-2	2’	3/8"	25
Split Ring Pipe Hanger, Galvanized malleable			
385-3/8	3/8"	3/8"	50
385-1/2	1/2"	3/8"	50
385-3/4	3/4"	3/8"	50
385-1	1"	3/8"	50
385-11/4	1 1/4"	3/8"	25
385-11/2	1 1/2"	3/8"	25
385-2	2"	3/8"	25
385-21/2	2 1/2"	1/2"	25
385-3	3"	1/2"	25
385-4	4"	1/2"	25
Split Ring Pipe Hanger, Ductile Iron coated with copper color powder coated epoxy			
485-3/8	3/8"	3/8"	50
485-1/2	1/2"	3/8"	50
485-3/4	3/4"	3/8"	50
485-1	1"	3/8"	50
485-11/4	1 1/4"	3/8"	25
485-11/2	1 1/2"	3/8"	25
485-2	2"	3/8"	25
485-21/2	2 1/2"	1/2"	25
485-3	3"	1/2"	25
485-4	4"	1/2"	25

Plastic Pipe Hangers & Accessories



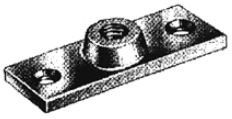
DWV Hanger



DWV Extension Bar



Stop Keys



Flanges



C Clamps



Top Beam Clamp

Part Number	Size	Ctn Qty
DWV Hanger Plastic Coated		
220-11/2	1 1/2"	50
220-2	2"	50
220-3	3"	50
220-4	4"	50
220-6	6"	25
DWV Extension Bar		
221-3	16 gauge x 3'	25
Stop Keys		
413-6	6'	6
413-8	8'	6
413-10	10'	6
Ceiling Flanges		
208-3/8BT	3/8" bolt thread, malleable iron	100
389-3/8BT	3/8" bolt thread, galvanized	100
389-1/2BT	1/2" bolt thread, galvanized	100
489-3/8BT	3/8" bolt thread, copper clad	100

C Clamps	For Pipe Sizes	Fits Rods Size	
122-3/8	1/2" - 2"	3/8" without locknut	100
122-1/2	2 1/2" - 3 1/2"	1/2" without locknut	100
123-3/8	1/2" - 2"	3/8" with locknut	100
123-1/2	2 1/2" - 3 1/2"	1/2" with locknut	100
123-5/8	4" - 5"	5/8" with locknut	50

Top Beam Clamp , 3/4" Standard Opening		
125-3/8	3/8" rod	100
125-1/2	1/2"rod	100

J-Hook Features:

- Made of high impact ABS for increased load capacity.
- Supports copper, CPVC, drain, waste and vent plastic pipe from joists and rafters.



337 Series

Part Number	Description	Bag/Ctn Qty
J-Hooks		
33745	1/2" x 4" CTS	25/300
33746	3/4" x 4" CTS	25/300
33747	1" x 4" CTS	25/200
33740	1 1/2" x 7 1/2" DWV	25/300
33741	2" x 7 1/2" DWV	25/300
33742	3" x 7 1/2" DWV	25/300

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Stud Protectors

918, 919, 916 and 913 FHA Plates

- 1 1/2" width and 3" width in 18 gauge
- 18, 16 and 13 gauge

530 Stud Guards

- Triangle points
- 1 1/2" width
- 18 gauge

531 Stud Guards

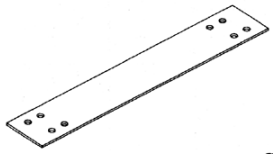
- Triangle points
- 1 1/2" width
- 20 gauge

920 Stud Guards

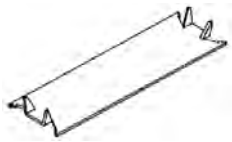
- Twist points
- 1 1/2" width
- 19 gauge

922 Stud Guards

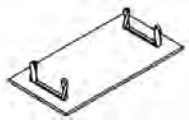
- Interlocking
- 1 1/2" width
- 20 gauge



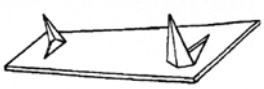
918/916/913 FHA Plates



530 & 531 Stud Guards



920 Stud Guards



922 Stud Guards

Part Number	Size and Gauge	Ctn Qty
FHA Plates		
918-11/2X9	1 1/2" X 9", 18 gauge	50
918-11/2X12	1 1/2" X 12", 18 gauge	50
918-11/2X18	1 1/2" X 18", 18 gauge	50
916-11/2X9	1 1/2" X 9", 16 gauge	50
916-11/2X12	1 1/2" X 12", 16 gauge	50
916-11/2X18	1 1/2" X 18", 16 gauge	50
913-11/2X9	1 1/2" X 9", 13 gauge	50
913-11/2X12	1 1/2" X 12", 13 gauge	25
913-11/2X18	1 1/2" X 18", 13 gauge	25
919-3X9	3" X 9", 18 gauge	50
919-3X12	3" X 12", 18 gauge	50
919-3X18	3" X 18", 18 gauge	50
Stud Guards		
530-11/2X3	1 1/2" X 3", 18 gauge	100
530-11/2x5	1 1/2" x 5", 18 gauge	100
530-11/2X6	1 1/2" X 6", 18 gauge	100
531-11/2X3	1 1/2" X 3", 20 gauge	100
531-11/2x5	1 1/2" x 5", 20 gauge	100
531-11/2X6	1 1/2" X 6", 20 gauge	100
920-11/2X3	1 1/2" x 3", 19 gauge	100
920-11/2X6	1 1/2" X 6", 19 gauge	100
922-11/2X6	1 1/2" X 6", 20 gauge	100

Clip and Tube Hangers



601 Series

601 Series American Tube Hanger Features:

- Designed to utilize scrap 1/2" copper tube for extension.
- Packaged 10 sets (hanger clamp and tube brace).
- Copper clad wood mounting screws are included.

Part Number	Pipe Diameter	Fits Extension Tube Size	Mounting Hardware Included	Ctn Qty
American Tube Hangers				
601-11/2	1-1/2"	1/2"	Wood Screws	10

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PEX, PE-RT & RADIANT TUBING, FITTINGS & ACCESSORIES



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Contact your sales representative for pricing.

CanPex™ UV Potable Tubing 3
CanPex™ OXY Oxygen Barrier Radiant Tubing 4
PEX Insert Fittings - Cold Expansion 12-14
PEX Insert Fittings - NL Brass 7-10
PEX Insert Fittings - Polyalloy PAL 11
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Tubing Cutters 21
Tubing Installation Accessories 19-24
Vipert™ Potable Tubing 1
Vipert™ Radiant Tubing 2

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VIPERT™ Potable Tubing



VIPERT™ Potable Tubing Features:

- VIPERT polyethylene raised temperature tubing is based on patented technology and made with Hypertherm PE-RT resins from The Dow Chemical Company.
- VIPERT provides increased flexibility and excellent hydrostatic strength at high temperatures and burst pressures that surpass required industry standards.
- Offers improved flexibility with relaxed memory for less spring back than PEX. Maintains excellent flexibility in extreme cold or hot environments.
- Compatible with all popular fittings systems: F-1960, F-1807 and F-2159
- Can be used with cold expansion, crimp, brass and push fittings.
- VIPERT is recyclable and requires less energy to produce than PEX.
- 25 year warranty.
- 100 PSI@180°F, 200 PSI@73°F SDR-9
- CSA B137.18, ASTM D2769, ASTM E84
- CAN/ULC S101/UL263, CAN/ULC S102.2-03

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

NEW SIZES

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #741
PE-RT Potable Tubing





SLEEVED Tubing



*** Minimum order 20 assorted CANPEX/VIPERT bundles shipped to one location.**

Nominal Size	Type	Length	Bundle Qty *	PART NUMBER per COLOR WHITE	RED	BLUE
VIPERT™ POTABLE TUBING						
1/4"	**Coils**	**100'**		**PRT1C1**		
1/4"	**Coils**	**500'**		**PRT1C5**		
3/8"	**Coils**	**100'**		**PRT2C1**	**PRTR2C1**	**PRTB2C1**
3/8"	**Coils**	**500'**		**PRT2C5**	**PRTR2C5**	**PRTB2C5**
1/2"	Sticks	10'	500'	PRT3L-S	PRTR3L-S	PRTB3L-S
1/2"	Sticks	20'	500'	PRT3L5	PRTR3L5	PRTB3L5
1/2"	Coil	100'		PRT3C1	PRTR3C1	PRTB3C1
1/2"	**Coil**	**100'**	**SLEEVED**		**PRTR3S1**	**PRTB3S1**
1/2"	Coil	300'		PRT3C3	PRTR3C3	PRTB3C3
1/2"	**Coil**	**300'**	**SLEEVED**		**PRTR3S3**	**PRTB3S3**
1/2"	Coil	500'		PRT3C5	PRTR3C5	PRTB3C5
1/2"	Coil	1000		PRT3C10 *	PRTR3C10	PRTB3C10
3/4"	Sticks	10'	250'	PRT4L-S	PRTR4L-S	PRTB4L-S
3/4"	Sticks	20'	200'	PRT4L2	PRTR4L2	PRTB4L2
3/4"	Coil	100'		PRT4C1	PRTR4C1	PRTB4C1
3/4"	**Coil**	**100'**	**SLEEVED**		**PRTR4S1**	**PRTB4S1**
3/4"	Coil	300'		PRT4C3	PRTR4C3	PRTB4C3
3/4"	**Coil**	**300'**	**SLEEVED**		**PRTR4S3**	**PRTB4S3**
3/4"	Coil	500'		PRT4C5	PRTR4C5	PRTB4C5
3/4"	Coil	1000'		PRT4C10	PRTR4C10	PRTB4C10
1"	Sticks	10'	100'	PRT5L-S	PRTR5L-S	PRTB5L-S
1"	Sticks	20'	100'	PRT5L1	PRTR5L1	PRTB5L1
1"	Coil	100'		PRT5C1	PRTR5C1	PRTB5C1
1"	**Coil**	**100'**	**SLEEVED**		**PRTR5S1**	**PRTB5S1**
1"	Coil	300'		PRT5C3	PRTR5C3	PRTB5C3
1"	**Coil**	**300'**	**SLEEVED**		**PRTR5S3**	**PRTB5S3**
1"	Coil	500'		PRT5C5	PRTR5C5	PRTB5C5
11/4"	Sticks	20'	100'	PRT6L1	PRTR6L1	PRTB6L1
11/4"	**Coils**	**100'**		**PRT6C1**	**PRTR6C1**	**PRTB6C1**
11/4"	**Coils**	**300'**		**PRT6C3**	**PRTR6C3**	**PRTB6C3**
11/2"	**Sticks**	**20'**	**100'**	**PRT7L1**	**PRTR7L1**	**PRTB7L1**
11/2"	**Coils**	**100'**		**PRT7C1**	**PRTR7C1**	**PRTB7C1**
11/2"	**Coils**	**300'**		**PRT7C3**	**PRTR7C3**	**PRTB7C3**
2"	**Sticks**	**20'**	**100'**	**PRT8L1**	**PRTR8L1**	**PRTB8L1**
2"	**Coils**	**100'**		**PRT8C1**	**PRTR8C1**	**PRTB8C1**
2"	**Coils**	**300'**		**PRT8C3**	**PRTR8C3**	**PRTB8C3**

* Discontinued - Limited Stock

VIPERT™ Oxy Barrier Radiant Tubing



VIPERT™ Oxy Barrier Radiant Tubing Features:

- VIPERT Radiant tubing is polyethylene raised temperature with oxy-barrier. Made with Dowlex PE-RT resins based on patented technology from The Dow Chemical Company.
- It is Ideal for hydronic radiant heating, cooling and snow melting systems utilizing water or a water/glycol mix as the heat or cold transfer medium.
- Offers improved flexibility with relaxed memory for less spring back than PEX. Maintains excellent flexibility in extreme cold or hot environments.
- Compatible with F-1960 cold expansion, crimp or push fittings systems.
- VIPERT is recyclable and requires less energy to produce than PEX.
- 25 year warranty.
- 100 PSI@180°F, 160 PSI@73°F SDR-9 CTS-OD Coils.
- Meets the requirements of ASTM F2623, ASTM E84.
- CAN/ULC-S101, UL 263, CAN/ULC S102.2.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

NEW SIZES

STANDARD AGI DISCOUNTS DO NOT APPLY. Contact your sales representative for pricing.

CB SUBCAT CODE #791
PE-RT OXY Radiant Tubing





SLEEVED Tubing



*** Minimum order 20 assorted CANPEX/VIPERT bundles shipped to one location.**

Nominal Size	Type	Length	Bundle Qty *	Color	Part Number
VIPERT™ Oxygen Barrier TUBING					
3/8"	Coil	300'		Green	PRTOB2C3
1/2"	Sticks	20'	500' BDL	Green	PRTOB3L5
1/2"	Coil	100'		Green	PRTOB3C1
1/2"	Coil	250' *		Green	PRTOB3C2.5 *
1/2"	Coil	300'		Green	PRTOB3C3
1/2"	**Coil**	**300'**	**SLEEVED**	**Green**	**PRTOB3S3**
1/2"	Coil	500'		Green	PRTOB3C5
1/2"	Coil	1000'		Green	PRTOB3C10
1/2"	Coil	1200'		Green	PRTOB3C12
5/8"	Coil	300'		Green	PRTOB58C3
5/8"	Coil	500'		Green	PRTOB58C5
5/8"	Coil	1000'		Green	PRTOB58C10
5/8"	**Coil**	**1200'**		**Green**	**PRTOB58C12**
3/4"	Sticks	20'	200' BDL	Green	PRTOB4L2
3/4"	Coil	100'		Green	PRTOB4C1
3/4"	Coil	250' *		Green	PRTOB4C2.5 *
3/4"	Coil	300'		Green	PRTOB4C3
3/4"	**Coil**	**300'**	**SLEEVED**	**Green**	**PRTOB4S3**
3/4"	Coil	500'		Green	PRTOB4C5
3/4"	Coil	1000'		Green	PRTOB4C10
1"	Sticks	20'	100' BDL	Green	PRTOB5L1
1"	Coil	100'		Green	PRTOB5C1
1"	Coil	300'		Green	PRTOB5C3
1"	Coil	500'		Green	PRTOB5C5
1 1/4"	**Sticks**	**20'**	**100' BDL**	**Green**	**PRTOB6L1**
1 1/4"	**Coil**	**100'**		**Green**	**PRTOB6C1**
1 1/2"	**Sticks**	**20'**	**100' BDL**	**Green**	**PRTOB7L1**
1 1/2"	**Coil**	**100'**		**Green**	**PRTOB7C1**
2"	**Sticks**	**20'**	**100' BDL**	**Green**	**PRTOB8L1**
2"	**Coil**	**100'**		**Green**	**PRTOB8C1**

* Discontinued - Limited Stock

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CANPEX™ UV Plus Tubing



PEX Tubing

CANPEX™ UV PLUS Tubing Features:

- Single layer PEX in white, red and blue.
- NSF-PW PEX 5306 certification for maximum protection against UV radiation and chlorine resistance.
- 100% continuous hot water recirculation up to 140°F.
- Includes metal deactivation additive to protect against polymer degradation.
- 100 PSI@180°F, 160 PSI@73°F SDR-9
- CSA B137.5
- ASTM F876/F877/F2023
- CL-R/CL-TD
- CAN/ULC S101/UL263, CAN/ULC S102.2-03/UL E84, CTS-OD Coils

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

STANDARD AGI DISCOUNTS DO NOT APPLY. Contact your sales representative for pricing.

CB SUBCAT CODE #74/75.
PEX Potable Tubing





*** Minimum order 20 assorted CANPEX/VIPERT bundles shipped to one location.**

Nominal Size	Type	Length	Bundle Qty	PART NUMBER per COLOR WHITE	RED	BLUE
CANPEX™ UV PLUS TUBING						
1/8" (1/4" OD)	Coil	100'		TB0C1		
1/4" (3/8" OD)	Coil	100'		PX1C1	PXR1C1	PXB1C1
1/4" (3/8" OD)	Coil	500'		PX1C5	PXR1C5	PXB1C5
3/8" (1/2" OD)	Coil	100'		PX2C1	PXR2C1	PXB2C1
3/8" (1/2" OD)	Coil	500'		PX2C5	PXR2C5	PXB2C5
3/8" (1/2" OD)	Coil	1000'		PX2C10	PXR2C10	PXB2C10
1/2" (5/8" OD)	Sticks	20'	500'	PX3L5	PXR3L5	PXB3L5
1/2" (5/8" OD)	Coil	100'		PX3C1	PXR3C1	PXB3C1
1/2" (5/8" OD)	Coil	300'		PX3C3	PXR3C3	PXB3C3
1/2" (5/8" OD)	Coil	500'		PX3C5	PXR3C5	PXB3C5
1/2" (5/8" OD)	Coil	1000'		PX3C10	PXR3C10	PXB3C10
3/4" (7/8" OD)	Sticks	10'	250'	PX4L-S	PXR4L-S	PXB4L-S
3/4" (7/8" OD)	Sticks	20'	200'	PX4L2	PXR4L2	PXB4L2
3/4" (7/8" OD)	Coil	100'		PX4C1	PXR4C1	PXB4C1
3/4" (7/8" OD)	Coil	300'		PX4C3	PXR4C3	PXB4C3
3/4" (7/8" OD)	Coil	500'		PX4C5	PXR4C5	PXB4C5
3/4" (7/8" OD)	Coil	1000'		PX4C10	PXR4C10	PXB4C10
1" (1 1/8" OD)	Sticks	10'	100'	PX5L-S	PX55L-S	PXB5L-S
1" (1 1/8" OD)	Sticks	20'	100'	PX5L1	PXR5L1	PXB5L1
1" (1 1/8" OD)	Coil	100'		PX5C1	PXR5C1	PXB5C1
1" (1 1/8" OD)	Coil	300'		PX5C3	PXR5C3	PXB5C3
1" (1 1/8" OD)	Coil	500'		PX5C5	PXR5C5	PXB5C5

CANPEX™ OXY Oxygen Barrier Radiant PEX Tubing



PEX OXY Tubing

CANPEX™ OXY Oxygen Barrier Tubing Features:

- For use in both residential and commercial hydronic radiant heating systems.
- Extruded with an oxygen barrier layer to prevent system component corrosion.
- Manufactured and tested to the requirements of ASTM F876/F877/F2023 and to CSA B137.5.
- 100 PSI@180°F, 160 PSI@73°F SDR-9 CTS-OD Coils
- DIN 4726 Standard
- Third Party Certified
- CAN/ELC S101/UL 263, CAN/ULC S102.2-3/E84

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #79
OXY BARRIER Radiant Tubing

Nominal Size	Type	Length	Bundle Qty	Color	Part Number
CANPEX™ OXY Oxygen Barrier PEX TUBING					
3/8" (1/2" OD)	Coil	300'		OXY Red	PXOB2C3
1/2" (5/8" OD)	Sticks	20'	500'	OXY Red	PXOB3L5
1/2" (5/8" OD)	Coil	100'		OXY Red	PXOB3C1
1/2" (5/8" OD)	Coil	300'		OXY Red	PXOB3C3
1/2" (5/8" OD)	Coil	500'		OXY Red	PXOB3C5
1/2" (5/8" OD)	Coil	1000'		OXY Red	PXOB3C10
1/2" (5/8" OD)	Coil	1200'		OXY Red	PXOB3C12
5/8" (3/4" OD)	Coil	100'		OXY Red	PXOB58C1
5/8" (3/4" OD)	Coil	300'		OXY Red	PXOB58C3
5/8" (3/4" OD)	Coil	500'		OXY Red	PXOB58C5
5/8" (3/4" OD)	Coil	1000'		OXY Red	PXOB58C10
3/4" (7/8" OD)	Stick	20'	200'	OXY Red	PXOB4L2
3/4" (7/8" OD)	Coil	100'		OXY Red	PXOB4C1
3/4" (7/8" OD)	Coil	300'		OXY Red	PXOB4C3
3/4" (7/8" OD)	Coil	500'		OXY Red	PXOB4C5
3/4" (7/8" OD)	Coil	1000'		OXY Red	PXOB4C10
1" (1 1/8" OD)	Stick	20'	100'	OXY Red	PXOB5L1
1" (1 1/8" OD)	Coil	100'		OXY Red	PXOB5C1
1" (1 1/8" OD)	Coil	300'		OXY Red	PXOB5C3
1" (1 1/8" OD)	Coil	500'		OXY Red	PXOB5C5





*** Minimum order 20 assorted CANPEX/VIPERT bundles shipped to one location.**

americangranby.com
Ph: 800-776-2266 Fax: 800-729-3299

Stainless Steel PEX Insert Fittings

304 Stainless Steel PEX Insert Fitting Features:

Stainless Steel Insert PEX and PE-RT lead free fittings are the ideal choice for PEX and PE-RT applications. They deliver premium quality and durability, featuring excellent corrosion resistance, suited for areas with acidic conditions and water quality concerns.

- 304 Stainless Steel
- Compatible with SDR9 PE-RT pipe (ASTM F2769; ASTM F2623)
- Compatible with SDR9 PEX pipe (ASTM F876)
- PEX / PE-RT ends conform to ASTM F1807
- Threads conform to ASME B1.20.1
- Maximum Pressure Rating*: 100 PSI
- Temperature Range*: Up to 180º F (82º C)
- Approved for underground burial applications following local plumbing codes.
- NSF/ANSI 61 & 372 certified

* Maximum Pressure Rating and Temperature Range align with the performance of the PEX & PE-RT systems.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

NEW SIZES UP to 2"

CB SUBCAT CODE #786
PEX SS Insert Fittings



PEX Ins Elbow



PEX Ins Male Elbow



PEX Ins Drop Ear Elbow



PEX Ins Tee

Part Number	Size Description	Bag/Box Qty
90 ELBOWS	**PEX x PEX**	
786006005	SS304 PEX 90 ELBOW 1/2	10 / 1000
786006007	SS304 PEX 90 ELBOW 3/4	10 / 500
786006043	**SS304 PEX 90 ELBOW 3/4 X 1/2**	**10 / 500**
786006010	SS304 PEX 90 ELBOW 1	10 / 250
786006054	**SS304 PEX 90 ELBOW 1X3/4**	**10 / 250**
786006012	**SS304 PEX 90 ELBOW 1 1/4**	**10/180**
786006015	**SS304 PEX 90 ELBOW 1 1/2**	**10/100**
786006020	**SS304 PEX 90 ELBOW 2**	**10/50**
MALE 90 ELBOWS	**PEX x MIP**	
786010005	SS304 PEX x MPT ELBOW 1/2	10 / 300
786010007	SS304 PEX X MPT ELBOW 3/4	10 / 200
DROP EAR ELBOWS	**PEX x FPT 3 hole**	
786014005	SS304 PEX X FPT DROP EAR ELBOW 1/2	10 / 250
786014007	SS304 PEX X FPT DROP EAR ELBOW 3/4	10 / 200
786014043	SS304 PEX X FPT DROP EAR ELB 3/4X1/2	10 / 250
TEES	**PEX x PEX x PEX**	
786001005	SS304 PEX TEE 1/2	10 / 600
786001007	SS304 PEX TEE 3/4	10 / 400
786001010	SS304 PEX TEE 1	10 / 150
786001012	**SS304 PEX TEE 11/4**	**10/125**
786001015	**SS304 PEX TEE 11/2**	**10/75**
786001020	**SS304 PEX TEE 2**	**10/40**
REDUCING TEES	**PEX x PEX x PEX**	
786001332	**SS304 PEX TEE 1/2X1/2X3/8**	**10 / 600**
786001433	SS304 PEX TEE 3/4X1/2X1/2	10 / 400
786001434	SS304 PEX TEE 3/4X1/2X3/4	10 / 400
786001442	**SS304 PEX TEE 3/4X3/4X3/8**	**10 / 400**
786001443	SS304 PEX TEE 3/4X3/4X1/2	10 / 400
786001445	SS304 PEX TEE 3/4X3/4X1	10 / 250
786001534	SS304 PEX TEE 1X1/2X3/4	10 / 250
786001535	SS304 PEX TEE 1X1/2X1	10 / 200
786001543	SS304 PEX TEE 1X3/4X1/2	10 / 250
786001544	SS304 PEX TEE 1X3/4X3/4	10 / 200
786001545	SS304 PEX TEE 1X3/4X1	10 / 200
786001553	SS304 PEX TEE 1X1X1/2	10 / 200
786001554	SS304 PEX TEE 1X1X3/4	10 / 200

Stainless Steel PEX Insert Fittings

CB SUBCAT CODE #786
PEX SS Insert Fittings

NEW SIZES UP to 2"

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

CB SUPPLIES

Part Number	Size Description	Bag/Box Qty
786001663	**SS304 PEX TEE 11/4X11/4X1/2**	**10/150**
786001664	**SS304 PEX TEE 11/4X11/4X3/4**	**10/140**
786001665	**SS304 PEX TEE 11/4X11/4X1**	**10/130**
786001774	**SS304 PEX TEE 11/2X11/2X3/4**	**10/90**
786001775	**SS304 PEX TEE 11/2X11/2X1**	**1/90**
786001776	**SS304 PEX TEE 11/2X11/2X1/4**	**10/80**
786001866	**SS304 PEX TEE 2X11/4X11/4**	**10/50**
786001874	**SS304 PEX TEE 2X11/2X3/4**	**10/50**
786001875	**SS304 PEX TEE 2X11/2X1**	**10/50**
786001876	**SS304 PEX TEE 2X11/2X11/4**	**10/50**
786001877	**SS304 PEX TEE 2X11/2X11/2**	**10/50**
786001884	**SS304 PEX TEE 2X2X3/4**	**10/50**
786001885	**SS304 PEX TEE 2X2X1**	**10/50**
786001886	**SS304 PEX TEE 2X2X11/4**	**10/50**
786001887	**SS304 PEX TEE 2X2X11/2**	**10/50**
FEMALE TEES	**PEX x PEX x FPT**	
786002333	**SS304 PEX FPT TEE 1/2x1/2x1/2**	**10 / 250**
786002443	**SS304 PEX FPT TEE 3/4x3/4x1/2**	**10 / 200**
786002553	**SS304 PEX FPT TEE 1x1x1/2**	**10 / 150**
MALE TEES	**PEX x PEX x MPT**	
786003443	**SS304 PEX MPT TEE 3/4x3/4x1/2**	**10 / 200**
COUPLINGS	**PEX x PEX**	
786029005	SS304 PEX COUPLING 1/2	10 / 1000
786029007	SS304 PEX COUPLING 3/4	10 / 700
786029043	SS304 PEX COUPLING 3/4X1/2	10 / 700
786029010	SS304 PEX COUPLING 1	10 / 500
786029054	SS304 PEX COUPLING 1X3/4	10 / 500
786029012	**SS304 PEX COUPLING 11/4**	**10/50**
786029065	**SS304 PEX COUPLING 11/4X1**	**10/50**
786029015	**SS304 PEX COUPLING 11/2**	**10/50**
786029075	**SS304 PEX COUPLING 11/2X1**	**10/50**
786029076	**SS304 PEX COUPLING 11/2X11/4**	**10/50**
786029020	**SS304 PEX COUPLING 2**	**10/50**
786029086	**SS304 PEX COUPLING 2X11/4**	**10/50**
786029087	**SS304 PEX COUPLING 2X11/2**	**10/50**
TRANSITION COUPLINGS	**Ins PEX x Ins Polybutylene - includes crimp rings**	
786028005	SS304 PEX X PB COUPLING KIT 1/2	1/600
786028007	SS304 PEX X PB COUPLING KIT 3/4	1/400
786028010	SS304 PEX X PB COUPLING KIT 1	1/250
PLUGS	**PEX**	
786042005	SS304 PEX PLUG 1/2	10 / 800
786042007	SS304 PEX PLUG 3/4	10 / 600
786042010	SS304 PEX PLUG 1	10 / 300
786042012	**SS304 PEX PLUG 11/4**	**10/50**
786042015	**SS304 PEX PLUG 11/2**	**10/50**
786042020	**SS304 PEX PLUG 2**	**10/50**



PEX Ins Coupling



PEX Ins Transition Coupling Kit



PEX Ins Plug

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Stainless Steel PEX Insert Fittings

CB SUBCAT CODE #786
PEX SS Insert Fittings

NEW SIZES UP to 2"

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Third Party Certified to NSF/ANSI 61 & 372



PEX Ins Male Adapter



PEX Ins Female Adapter

Part Number	Size Description	Bag/Box Qty
MALE ADAPTERS	**PEX x MPT**	
786036005	SS304 PEX X MPT ADAPTER 1/2	10 / 500
786036034	SS304 PEX X MPT ADAPTER 1/2X3/4	10 / 400
786036007	SS304 PEX X MPT ADAPTER 3/4	10 / 400
786036043	SS304 PEX X MPT ADAPTER 3/4X1/2	10 / 400
786036045	SS304 PEX X MPT ADAPTER 3/4X1	10 / 250
786036010	SS304 PEX X MPT ADAPTER 1	10 / 200
786036054	SS304 PEX X MPT ADAPTER 1X3/4	10 / 250
786036012	**SS304 PEX X MIP ADAPTER 11/4**	**10/50**
786036065	**SS304 PEX X MIP ADAPTER 11/4X1**	**10/50**
786036015	**SS304 PEX X MIP ADAPTER 11/2**	**10/50**
786036020	**SS304 PEX X MIP ADAPTER 2**	**10/50**
FEMALE ADAPTERS	**PEX x FPT**	
786035005	SS304 PEX X FPT ADAPTER 1/2	10 / 500
786035034	SS304 PEX X FPT ADAPTER 1/2X3/4	10 / 400
786035007	SS304 PEX X FPT ADAPTER 3/4	10 / 400
786035043	SS304 PEX X FPT ADAPTER 3/4X1/2	10 / 400
786035045	SS304 PEX X FPT ADAPTER 3/4X1	10 / 250
786035010	SS304 PEX X FPT ADAPTER 1	10 / 250
786035012	**SS304 PEX X FIP ADAPTER 11/4**	**10/50**
786035015	**SS304 PEX X FIP ADAPTER 11/2**	**10/50**
786035020	**SS304 PEX X FIP ADAPTER 2**	**10/50**

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Ph: 800-776-2266 Fax: 800-729-3299

NO LEAD Brass PEX Insert Fittings

NO LEAD Brass PEX Insert Fitting Features:

- Approved for use with ASTM F876/F877 SDR-9 PEX tubing/PEX distribution systems.
- No Lead Brass PEX fittings are manufactured and certified to ASTM F1807 requirements.
- Certified lead free to NSF/ANSI 61 & 372.

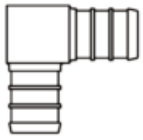
NEW SIZES

CB SUPPLIES

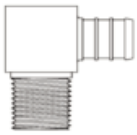
NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

STANDARD AGI DISCOUNTS DO NOT APPLY. Contact your sales representative for pricing.

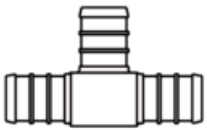
CB SUBCAT CODE #781
PEX NL Brass Insert Fittings



NLCBXE Elbow



NLCBXME Male Elbow



NLCBXT Tee

Part Number	Size Description	Bag/Box Qty
ELBOWS	**Ins x Ins**	
NLCBXE22	3/8 PEX 90 Elbow - NL	50/500
NLCBXE33	1/2 PEX 90 Elbow - NL	50/600
NLCBXE58	**5/8 PEX 90 Elbow - NL**	**25/250**
NLCBXE43	3/4 x 1/2 PEX 90 Elbow -NL	25/400
NLCBXE44	3/4 PEX 90 Elbow - NL	25/300
NLCBXE55	1 PEX 90 Elbow - NL	10/150
NLCBXE66	1 1/4 PEX 90 Elbow - NL	10/100
NLCBXE77	**1 1/2PEX 90 Elbow - NL**	**10/100**
NLCBXE88	**2 PEX 90 Elbow - NL**	**10/100**
	Ins x MIP	
NLCBXME32	1/2 PEX x 3/8 MPT 90 Elbow - NL	50/300
NLCBXME33	1/2 PEX x 1/2 MPT 90 Elbow - NL	50/300
NLCBXME34	**1/2 PEX x 3/4 MPT 90 Elbow - NL**	**25/200**
NLCBXME44	3/4 PEX x 3/4 MPT 90 Elbow - NL	25/250
NLCBXME55	1 PEX x 1 MPT 90 Elbow - NL	25/100
NLCBXME56	**1 PEX x 11/4 MPT 90 Elbow - NL**	**10/100**
NLCBXME66	1 1/4 PEX x 1 1/4 MPT 90 Elbow - NL	10/50
TEES	**Ins x Ins x Ins**	
NLCBXT222	3/8 PEX Tee - NL	25
NLCBXT333	1/2 PEX Tee - NL	50/450
NLCBXT334	1/2 x 1/2 x 3/4 PEX Tee - NL	25/300
NLCBXT58	**5/8 x 5/8 x 5/8 PEX Tee - NL**	**25/250**
NLCBXT433	3/4 x 1/2 x 1/2 PEX Tee - NL	25/300
NLCBXT434	3/4 x 1/2 x 3/4 PEX Tee - NL	25/250
NLCBXT443	3/4 x 3/4 x 1/2 PEX Tee - NL	25/250
NLCBXT444	3/4 PEX Tee - NL	25/200
NLCBXT445	3/4 x 3/4 x 1 PEX Tee - NL	10/100
NLCBXT534	1 x 1/2 x 3/4 PEX Tee - NL	10/100
NLCBXT543	1 x 3/4 x 1/2 PEX Tee - NL	10/150
NLCBXT544	1 x 3/4 x 3/4 PEX Tee - NL	10/100
NLCBXT545	1 x 3/4 x 1 PEX Tee - NL	10/100
NLCBXT553	1 x 1 x 1/2 PEX Tee - NL	10/150
NLCBXT554	1 x 1 x 3/4 PEX Tee - NL	10/120
NLCBXT555	1 PEX Tee - NL	25/100
NLCBXT666	1 1/4 PEX Tee - NL	10/50
NLCBXT644	**11/4 x 3/4 x 3/4 PEX Tee - NL**	**10/100**
NLCBXT654	**11/4 x 1 x 3/4 PEX Tee - NL**	**10/100**
NLCBXT655	**11/4 x 1 x 1 PEX Tee - NL**	**10/100**
NLCBXT663	**11/4 x 11/4 x 1/2 PEX Tee - NL**	**10/100**
NLCBXT664	**11/4 x 11/4 x 3/4 PEX Tee - NL**	**10/100**
NLCBXT665	**11/4 x 11/4 x 1 PEX Tee - NL**	**10/50**
NLCBXT744	**11/2 x 3/4 x 3/4 PEX Tee - NL**	**10/50**
NLCBXT755	**11/2 x 1 x 1 PEX Tee - NL**	**10/50**
NLCBXT764	**11/2 x 11/4 x 3/4 PEX Tee - NL**	**10/50**
NLCBXT765	**11/2 x 11/4 x 1 PEX Tee - NL**	**10/50**
NLCBXT766	**11/2 x 11/4 x 11/4 PEX Tee - NL**	**10/50**

NO LEAD Brass PEX Insert Fittings

STANDARD AGI DISCOUNTS DO NOT APPLY.
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CB SUBCAT CODE #781
PEX NL Brass Insert Fittings

NEW SIZES

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

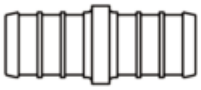
CB SUPPLIES

Part Number	Size Description	Bag/Box Qty
NLCBXT774	**11/2 x 11/2 x 3/4 PEX Tee - NL**	**1**
NLCBXT775	**11/2 x 11/2 x 11/4 PEX Tee - NL**	**10/50**
NLCBXT776	**11/2 x 11/2 x 1 PEX Tee - NL**	**10/50**
NLCBXT777	**11/2 PEX Tee - NL**	**10/50**
NLCBXT866	**2 x 11/4 x 11/4 PEX Tee - NL**	**10/40**
NLCBXT874	**2 x 11/2 x 3/4 PEX Tee - NL**	**10/40**
NLCBXT875	**2 x 11/2 x 1 PEX Tee - NL**	**10/40**
NLCBXT876	**2 x 11/2 x 11/4 PEX Tee - NL**	**10/40**
NLCBXT877	**2 x 11/2 x 11/2 PEX Tee - NL**	**10/20**
NLCBXT884	**2 x 2 x 3/4 PEX Tee - NL**	**10/100**
NLCBXT885	**2 x 2 x 1 PEX Tee - NL**	**10/100**
NLCBXT886	**2 x 2 x 11/4 PEX Tee - NL**	**10/100**
NLCBXT887	**2 x 2 x 11/2 PEX Tee - NL**	**10/100**
NLCBXT888	**2 PEX Tee - NL**	**5/15**



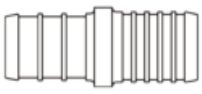
NLCBXDT Tee

DROP EAR TEE		
NLCBXDT333	**1/2 PX x 1/2 PX x 1/2 FPT Drop Ear Tee - NL**	**10/100**
NLCBXDT443	**3/4 PX x 3/4 PX x 1/2 FPT Drop Ear Tee - NL**	**10/50**
NLCBXDT444	**3/4 PX x 3/4 PX x 3/4 FPT Drop Ear Tee - NL**	**10/50**
NLCBXDT554	1 PX x 1 PX x 3/4 FPT Drop Ear Tee - NL	10/50
NLCBXDT555	**1 PX x 1 PX x 1 FPT Drop Ear Tee - NL**	**5/30**



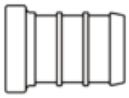
NLCBXC Coupling

COUPLINGS	Ins x Ins	
NLCBXC22	3/8 PEX Coupling - NL	100/1000
NLCBXC32	1/2 x 3/8 PEX Coupling - NL	50/500
NLCBXC33	1/2 PEX Coupling - NL	100/1000
NLCBXC58	**5/8 PEX Coupling - NL**	**25/500**
NLCBXC43	3/ 4 x 1/2 PEX Coupling - NL	50/500
NLCBXC44	3/4 PEX Coupling - NL	50/400
NLCBXC54	1 x 3/4 PEX Coupling - NL	25/250
NLCBXC55	1 PEX Coupling - NL	25/250
NLCBXC66	1 1/4 PEX Coupling - NL	10/150
NLCBXC65	**1 1/4 x 1 PEX Coupling - NL**	**10/100**
NLCBXC77	**1 1/2 PEX Coupling - NL**	**10/150**
NLCBXC75	**1 1/2 x 1 PEX Coupling - NL**	**10/150**
NLCBXC76	**1 1/2 x 1 1/4 PEX Coupling - NL**	**10/150**
NLCBXC88	**2 PEX Coupling - NL**	**10/150**
NLCBXC86	**2 x 1 1/4 PEX Coupling - NL**	**10/50**
NLCBXC87	**2 x 1 1/2 PEX Coupling - NL**	**10/100**



NLCBXBC Transition Coupling

TRANSITION COUPLINGS Ins PEX x Ins Polybutylene - incl crimp rings		
NLCBXBC22	3/8 PEX x 3/8 PB Transition Coupling - NL	100/500
NLCBXBC33	1/2 PEX x 1/2 PB Transition Coupling - NL	100/400
NLCBXBC44	3/4 PEX x 3/4 PB Transition Coupling - NL	25/200
NLCBXBC55	1 PEX x 1 PB Transition Coupling - NL	10/100



NLCBP Plug

PLUGS		
NLCBXP2B	3/8 PEX Plug - NL	100/1000
NLCBXP3B	1/2 PEX Plug - NL	100/1500
NLCBXP58B	**5/8 PEX Plug - NL**	**50/500**
NLCBXP4B	3/4 PEX Plug - NL	50/800

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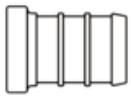
NO LEAD Brass PEX Insert Fittings

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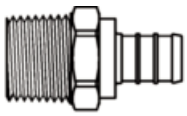
CB SUBCAT CODE #781
PEX NL Brass Insert Fittings

NEW SIZES

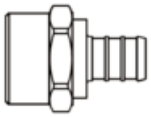
NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



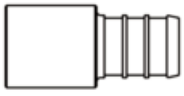
NLCBP Plug



NLCBXMC Male Adapter



NLCBXFC Female Adapter



NLCBXCM Male Sweat Adapter

Part Number	Size Description	Bag/Box Qty
NLCBXP5B	1 PEX Plug - NL	50/400
NLCBXP6B	1 1/4 PEX Plug NL	10/50
NLCBXP7B	**1 1/2 PEX Plug - NL**	**10/100**
NLCBXP8B	**2 PEX Plug - NL**	**10/50**
MALE ADAPTERS	**Ins x MPT**	
NLCBXMC23	3/8 PEX x 1/2 MPT Adapter - NL	25/250
NLCBXMC33	1/2 PEX x 1/2 MPT Adapter - NL	50/300
NLCBXMC32	**1/2 PEX x 3/8 MPT Adapter - NL**	**50/250**
NLCBXMC34	1/2 PEX x 3/4 MPT Adapter - NL	25/200
NLCBXMC584	**5/8 PEX x 3/4 MPT Adapter - NL**	**50/200**
NLCBXMC43	3/4 PEX x 1/2 MPT Adapter - NL	25/250
NLCBXMC44	3/4 PEX x 3/4 MPT Adapter - NL	25/200
NLCBXMC45	3/4 PEX x 1 MPT Adapter - NL	10/150
NLCBXMC54	1 PEX x 3/4 MPT Adapter - NL	10/150
NLCBXMC55	1 PEX x 1 MPT Adapter - NL	10/200
NLCBXMC65	**1 1/4 PEX x 1 MPT Adapter - NL**	**10/100**
NLCBXMC66	1 1/4 PEX x 1 1/4 MPT Adapter NL	10/100
NLCBXMC77	**1 1/2 PEX x 1 1/2 MPT Adapter - NL**	**10/50**
NLCBXMC88	**2 PEX x 2 MPT Adapter - NL**	**10/100**
FEMALE ADAPTERS	**Ins x FPT**	
NLCBXFC23	3/8 PEX x 1/2 FPT Adapter - NL	25
NLCBXFC33	1/2 PEX x 1/2 FPT Adapter - NL	25/300
NLCBXFC43	3/4 PEX x 1/2 FPT Adapter - NL	25/150
NLCBXFC34	1/2 PEX x 3/4 FPT Adapter - NL	25/300
NLCBXFC584	**5/8 PEX x 3/4 FPT Adapter - NL**	**50/200**
NLCBXFC44	3/4 PEX x 3/4 FPT Adapter - NL	25/200
NLCBXFC45	3/4 PEX x 1 FPT Adapter - NL	25/150
NLCBXFC46	**3/4 PEX x 11/4 FPT Adapter - NL**	**10/100**
NLCBXFC54	1 PEX x 3/4 FPT Adapter - NL	25/150
NLCBXFC55	1 PEX x 1 FPT Adapter - NL	50/100
NLCBXFC64	**11/4 PEX x 3/4 FPT Adapter - NL**	**10/100**
NLCBXFC65	**11/4 PEX x 1 FPT Adapter - NL**	**10/100**
NLCBXFC66	1 1/4 PEX x 1 1/4 FPT Adapter - NL	10/100
NLCBXFC77	**11/4 PEX x 1 1/4 FPT Adapter - NL**	**10/100**
NLCBXFC88	**2 PEX x 2 FPT Adapter - NL**	**10/100**
MALE SWEAT ADAPTERS	**Ins x Male Sweat**	
NLCBXC23M	3/8 PEX x 1/2 Male Sweat Adapter - NL	50
NLCBXC33M	1/2 PEX x 1/2 Male Sweat Adapter - NL	50/800
NLCBXC34M	1/2 PEX x 3/4 Male Sweat Adapter - NL	25/500
NLCBXC584M	**5/8 PEX x 3/4 Male Sweat Adapter - NL**	**25/500**
NLCBXC44M	3/4 PEX x 3/4 Male Sweat Adapter - NL	25/300
NLCBXC43M	**3/4 PEX x 1/2 Male Sweat Adapter - NL**	**25/150**
NLCBXC55M	1 PEX x 1 Male Sweat Adapter - NL	25/200
NLCBXC66M	1 1/4 PEX x 1 Male Sweat Adapter NL	10/50
NLCBXC77M	**1 1/2 PEX x 1 1/2 Male Sweat Adapter - NL**	**10/100**
NLCBXC88M	**2 PEX x 2 Male Sweat Adapter - NL**	**10/50**

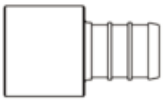
NO LEAD Brass PEX Insert Fittings

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #781
PEX NL Brass Insert Fittings

NEW SIZES

NO LEAD < 0.25% Pb by weighted avg
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NLCBXCF Female Sweat Adapter



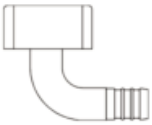
NLCBXE Sweat Elbows



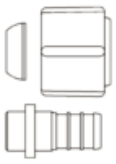
NLCBXDE Drop Ear Elbows



CBXE Stubout Elbows



NLCBXSE Swivel Elbows



NLCBXSA Transition Ftg

Part Number	Size Description	Bag/Box Qty
FEMALE SWEAT ADAPTER Ins x Female Sweat		
NLCBXC23F	3/8 PEX x 1/2 Female Sweat Adapter - NL	50
NLCBXC33F	1/2 PEX x 1/2 Female Sweat Adapter - NL	50/600
NLCBXC584F	**5/8 PEX x 3/4 Female Sweat Adapter - NL**	**10/250**
NLCBXC44F	3/4 PEX x 3/4 Female Sweat Adapter - NL	25/250
NLCBXC45F	**3/4 PEX x 1 Female Sweat Adapter - NL**	**10/100**
NLCBXC55F	1 PEX x 1 Female Sweat Adapter - NL	10/100
NLCBXC66F	1 1/4 PEX x 1 1/4 Female Sweat Adapter NL	10/50
MALE SWEAT ELBOWS Ins x Male Sweat		
NLCBXE33MC	1/2 PEX x 1/2 Male Sweat Elbow - NL	25/250
NLCBXE44MC	3/4 PEX x 3/4 Male Sweat Elbow - NL	10/100
FEMALE SWEAT ELBOWS Ins x Female Sweat		
NLCBXE33FC	1/2 PEX x 1/2 Female Sweat Elbow - NL	10/300
NLCBXE34FC	**1/2 PEX x 3/4 Female Sweat Elbow - NL**	**10/100**
NLCBXE44FC	3/4 PEX x 3/4 Female Sweat Elbow - NL	10/100
NLCBXE55FC	1 PEX x 1 Female Sweat Elbow - NL	25/100
DROP EAR ELBOWS Ins x FPT 3 hole		
NLCBXDE33C	1/2 PEX x 1/2 FPT Drop Ear Elbow - NL	10/150
NLCBXDE43C	3/4 PEX x 1/2 FPT Drop Ear Elbow - NL	25/100
NLCBXDE44C	3/4 PEX x 3/4 FPT Drop Ear Elbow - NL	10/100
NLCBXDE55C	**1 PEX x 1 FPT Drop Ear Elbow - NL**	**10/100**
STUB OUT ELBOWS Ins x Closed		
CBXE33SO	4" x 6" Ins x 1/2 Closed End Copper	50
CBXE33SO8	4" x 8" Ins x 1/2 Closed End Copper	50
CBXE33SOE	4" x 6" Ins x 1/2 Closed End w/ Ear Copper	25
CBXE33SOE8	4" x 8" Ins x 1/2 Closed End w/ Ear Copper	25
CBXE44SOE8	**4" x 8" Inx x 3/4 Closed End w/ Ear Copper**	**1/1**
SWIVEL ELBOWS Ins x FPT		
NLCBXSE23C	3/8 PEX x 1/2 FPT Swivel Elbow-NL	50/250
NLCBXSE33C	1/2 PEX x 1/2 FPT Swivel Elbow-NL (plastic nut)	50/250
NLCBXSE44C	3/4 PEX x 3/4 FPT Swivel Elbow-NL (plastic nut)	25/100
TRANSITION SWIVEL ADAPTER Ins x Female Swivel		
NLCBXSA23	3/8 PEX x 1/2 FPT Thrd Swivel Adapter NL (pl nut)	25/100
NLCBXSA33	1/2 PEX x 1/2 FPT Thrd Swivel Adapter NL(pl nut)	25/100
NLCBXSA34	1/2 PEX x 3/4 FPT Thrd Swivel Adapter NL (pl nut)	10/100
NLCBXSA44	3/4 PEX x 3/4 FPT Thrd Swivel Adapter NL (pl nut)	10/50
NLCBXSA33B	1/2 PEX x 1/2 FPT Thrd Swivel Adapter NL (BR nut)	25/100
NLCBXSA44B	3/4 PEX x 3/4 FPT Thrd Swivel Adapter NL (BR nut)	10/50

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Polyalloy PAL PEX Insert Fittings

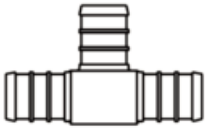
Polyalloy PAL PEX Insert Fitting Features:

- Approved for use with ASTM F876/F877 SDR-9 PEX tubing/PEX distribution systems.
- PAL fittings are marked with ASTM F877 and/or F2159 and NSF PW.
- Certified lead free to NSF/ANSI 61 & 372.

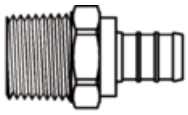
STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #89
PEX PAL Insert Fittings

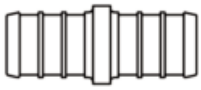
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



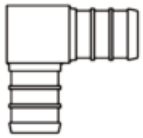
XPT Tee



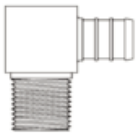
XPMC Male Adapter



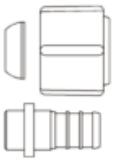
XPC Coupling



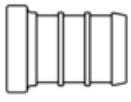
XPE Elbow



XPME Male Elbow



XPSA Transition Swivel Adapter



CBXP Plug

Part Number	Size Description	Bag/Box Qty
TEES	**Ins x Ins x Ins**	
XPT333	1/2 PAL TEE	50/500
XPT334	1/2 X 1/2 X 3/4 PAL TEE	25/675
XPT433	3/4 X 1/2 X 1/2 PAL TEE	25/600
XPT434	3/4 X 1/2 X 3/4 PAL TEE	25/500
XPT443	3/4 X 3/4 X 1/2 PAL TEE	25/500
XPT445	3/4 x 3/4 x 1 PAL TEE	25/500
XPT444	3/4 PAL TEE	25/250
XPT544	1 X 3/4 x 3/4 PAL TEE	25/325
XPT545	1 x 3/4 x 1 PAL TEE	25/250
XPT553	1 X 1 X 1/2 PAL TEE	25/300
XPT554	1 x 1 x 3/4 PAL TEE	25/300
XPT555	1 PAL TEE	25/200
MALE ADAPTERS	**Ins x MPT**	
XPMC33	1/2 PAL MPT ADAPTER	25/1000
XPMC34	1/2 X 3/4 PAL MPT ADAPTER	25/200
XPMC44	3/4 PAL MPT ADAPTER	25/600
XPMC43	3/4 X 1/2 PAL MPT ADAPTER	25/600
XPMC55	1 x 1 PAL MPT ADAPTER	25/300
COUPLINGS	**Ins x Ins**	
XPC33	1/2 PAL COUPLING	100/800
XPC43	3/4x1/2 PAL COUPLING	25/1250
XPC44	3/4 PAL COUPLING	50/400
XPC55	1 PAL COUPLING	50/600
XPC54	1X3/4 PAL COUPLING	25/700
ELBOWS	**Ins x Ins**	
XPE33	1/2 PAL ELBOW	50/500
XPE43	3/4X1/2 PAL ELBOW	25/750
XPE44	3/4 PAL ELBOW	25/250
XPE55	1 PAL ELBOW	25/350
MALE THREADED ELBOWS	**Ins x MPT**	
XPME32	1/2 X 3/8 PAL MPT ELBOW	10/200
XPME33	1/2 PAL MPT ELBOW	10/600
XPME43	3/4 X 1/2 PAL MPT ELBOW	25/400
XPME44	3/4 PAL MPT ELBOW	25/500
TRANSITION SWIVEL ADAPTER	**Ins x FPT**	
XPSA44	3/4 PAL SWIVEL ADAPT	100/500
PLUGS		
CBXP2	3/8 PLASTIC INSERT TEST PLUG	100/6000
CBXP3	1/2 PLASTIC INSERT TEST PLUG	100/3500
CBXP4	3/4 PLASTIC INSERT TEST PLUG	25/2000
CBXP5	1 PLASTIC INSERT TEST PLUG	25/1000

Cold Expansion PAL PEX Insert Fittings

Cold Expansion Polyalloy PAL PEX Insert Fittings:

- Use with ASTM F1960 certified cold expansion PEX and PERT tubing using PEX rings.
- PPSU resin provides chemical resistance.
- Max system temperature/pressure 180°F @ 100 psi
- No lead NSF/ANSI 372 certified. ANSI/NSF 61 certified.
- **Only use cordless power expander tool for installation.**

NEW SIZES

CB SUPPLIES

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #891
COLD EXPANSION Fittings



CEXPT Tee



CEXPMC Male Adapter



CEXPC Coupling



CEXPE Elbow



CEXPME Male Elbow



CEXPP Plug

Part Number	Size Description	Bag/Box Qty
CE PAL TEES	**Ins x Ins x Ins**	
CEXPT333	1/2 CE PAL TEE	25/500
CEXPT334	1/2 X 1/2 X 3/4 CE PAL TEE	25/400
CEXPT433	3/4 X 1/2 X 1/2 CE PAL TEE	25/350
CEXPT434	3/4 X 1/2 X 3/4 CE PAL TEE	25/250
CEXPT443	3/4 X 3/4 X 1/2 CE PAL TEE	25/250
CEXPT445	3/4 x 3/4 x 1 CE PAL TEE	25/150
CEXPT444	3/4 CE PAL TEE	25/200
CEXPT544	1 X 3/4 x 3/4 CE PAL TEE	25/150
CEXPT545	1 x 3/4 x 1 CE PAL TEE	25/100
CEXPT553	1 X 1 X 1/2 CE PAL TEE	25/150
CEXPT554	1 x 1 x 3/4 CE PAL TEE	25/125
CEXPT555	1 CE PAL TEE	25/100
CE PAL MALE ADAPTERS	**Ins x MPT**	
CEXPMC33	1/2 CE PAL MPT ADAPTER	25/850
CEXPMC44	3/4 CE PAL MPT ADAPTER	25/500
CE PAL COUPLINGS	**Ins x Ins**	
CEXPC33	1/2 CE PAL COUPLING	25/1250
CEXPC43	3/4x1/2 CE PAL COUPLING	25/600
CEXPC44	3/4 CE PAL COUPLING	25/500
CEXPC55	1 CE PAL COUPLING	50/250
CEXPC54	1X3/4 CE PAL COUPLING	25/250
CEXPC66	**1 1/4 CE PAL COUPLING**	**10/50**
CE PAL ELBOWS	**Ins x Ins**	
CEXPE33	1/2 CE PAL ELBOW	25/900
CEXPE43	3/4X1/2 CE PAL ELBOW	25/550
CEXPE44	3/4 CE PAL ELBOW	25/350
CEXPE55	1 CE PAL ELBOW	25/150
CEXPE66	**1 1/4 CE PAL ELBOW**	**10/50**
CE PAL MALE THREADED ELBOWS	**Ins x MPT**	
CEXPME33	1/2 CE PAL MPT ELBOW	10/600
CE PAL PLUGS		
CEXPP3	1/2 CE PAL INSERT PLUG	100/2000
CEXPP4	3/4 CE PAL INSERT PLUG	25/900
CEXPP5	1 CE PAL INSERT PLUG	25/500

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Cold Expansion NL Brass PEX Insert Fittings

Cold Expansion NL Brass PEX Insert Fittings:

- Use with ASTM F1960 certified cold expansion PEX and PERT tubing using PEX rings.
- Max system temperature/pressure 180°F @ 100 psi
- No lead NSF/ANSI 372 certified brass. ANSI/NSF 61 certified.
- **Only use cordless power expander tool for installation.**

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #891
COLD EXPANSION Fittings



NLCECBXMC Male Adapter



NLCECBXFC Female Adapter



NLCECBXCM Male Sweat Adapter



NLCECBXCF Female Sweat Adapter



NLCECBXE Sweat Elbows



NLCECBXDE Drop Ear Elbows

Part Number	Size Description	Bag Qty
CE MALE ADAPTERS Ins x MPT		
NLCECBXMC33	1/2 NL CE PEX x 1/2 MPT Adapter	50/300
NLCECBXMC34	1/2 NL CE PEX x 3/4 MPT Adapter	25/200
NLCECBXMC43	3/4 NL CE PEX x 1/2 MPT Adapter	25/250
NLCECBXMC44	3/4 NL CE PEX x 3/4 MPT Adapter	25/200
NLCECBXMC45	3/4 NL CE PEX x 1 MPT Adapter	10/150
NLCECBXMC54	1 NL CE PEX x 3/4 MPT Adapter	10/150
NLCECBXMC55	1 NL CE PEX x 1 MPT Adapter	10/200
CE FEMALE ADAPTERS Ins x FPT		
NLCECBXFC33	1/2 NL CE PEX x 1/2 FPT Adapter	20/200
NLCECBXFC43	3/4 NL CE PEX x 1/2 FPT Adapter	25/300
NLCECBXFC34	1/2 NL CE PEX x 3/4 FPT Adapter	25/150
NLCECBXFC44	3/4 NL CE PEX x 3/4 FPT Adapter	25/150
NLCECBXFC45	3/4 NL CE PEX x 1 FPT Adapter	25/150
NLCECBXFC55	1 NL CE PEX x 1 FPT Adapter	50/100
CE MALE SWEAT ADAPTERS Ins x Male Sweat		
NLCECBXC33M	1/2 NL CE PEX x 1/2 Male Sweat Adapter	50/500
NLCECBXC34M	1/2 NL CE PEX x 3/4 Male Sweat Adapter	25/500
NLCECBXC44M	3/4 NL CE PEX x 3/4 Male Sweat Adapter	25/300
NLCECBXC55M	1 NL CE PEX x 1 Male Sweat Adapter	25/200
CE FEMALE SWEAT ADAPTER Ins x Female Sweat		
NLCECBXC33F	1/2 NL CE PEX x 1/2 Female Sweat Adapter	50/600
NLCECBXC44F	3/4 NL CE PEX x 3/4 Female Sweat Adapter	25/250
NLCECBXC45F	3/4 NL CE PEX x 1 Female Sweat Adapter	10/100
NLCECBXC55F	1 NL CE PEX x 1 Female Sweat Adapter	10/100
CE FEMALE SWEAT ELBOWS Ins x Female Sweat		
NLCECBXE33FC	1/2 NL CE PEX x 1/2 Female Sweat Elbow	10/150
CE DROP EAR ELBOWS Ins x FPT 3 hole		
NLCECBXDE33C	1/2 NL CE PEX x 1/2 FPT Drop Ear Elbow	10/100
NLCECBXDE43C	3/4 NL CE PEX x 1/2 FPT Drop Ear Elbow	10/50
NLCECBXDE44C	3/4 NL CE PEX x 3/4 FPT Drop Ear Elbow	10/50

Cold Expansion Polyalloy PAL Manifolds

Cold Expansion Polyalloy PAL Multiport Manifolds:

- Use with ASTM F1960 certified cold expansion PEX and PERT tubing using PEX rings.
- PPSU resin provides chemical resistance.
- Max system temperature/pressure 180°F @ 100 psi
- No lead NSF/ANSI 372 certified. ANSI/NSF 61 certified.
- **Only use cordless power expander tool for installation.**

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #891
COLD EXPANSION Fittings



Closed End



Flow Through



Opposite Branch Flow Through



Opposite Branch Closed End

Part Number	PEX Inlet	1/2" PEX Ports	Outlet	Box Qty
PEX CE Inlet Multiport Manifolds - Closed End ASTM F1960				
8921070003	3/4	3	Closed	10
8921070004	3/4	4	Closed	10
8921070006	3/4	6	Closed	10
8921100004	1	4	Closed	10
8921100006	1	6	Closed	10
PEX CE Inlet Multiport Manifolds - Flow Through ASTM F1960				
8920070702	3/4	2	3/4	10
8920070703	3/4	3	3/4	10
8920070704	3/4	4	3/4	10
8920070706	3/4	6	3/4	10
8920101004	1	4	1	10
8920101006	1	6	1	10
8920100704	1	4	3/4	10
8920100706	1	6	3/4	10
PEX CE Inlet Multiport Manifolds - Opposite Branches Flow Through ASTM F1960				
89200707030	3/4	3	3/4	10
89200707040	3/4	4	3/4	10
89200707060	3/4	6	3/4	10
PEX CE Inlet Multiport Manifolds - Opposite Branches Closed End ASTM F1960				
89210700030	3/4	3	Closed	10
89210700040	3/4	4	Closed	10
89210700080	3/4	8	Closed	10

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NO LEAD Brass Push Fittings

HARVARD NO LEAD Brass Push Fitting Features:

- Use for above ground potable water, hydronic heating and other plumbing systems.
- No soldering, clamps, unions or glue needed.
- For use with copper, CPVC, PEX and PERT tubing in any combination.
- Integral tube liner (stiffener) for PEX/PERT installation.
- Easy disconnect with special removal tool.
- Lead free, forged brass body construction.
- Full fluid flow without PEX/PERT stiffeners.
- Fittings can be rotated 360° after assembly for easier installation.
- Max working pressure at max working temperature: 200 psi at 200°F water. (Caution: may exceed the max service pressure/temperature of PEX/PERT or CPVC.)
- Not suitable for steam service.
- Tested, certified and listed in accordance with ASSE1061-2006.
- cUPC listed.
- Certified lead free to NSF/ANSI 61 & 372.

LOW LEAD

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

MATERIAL SPECIFICATIONS	
Body	Forged NL Brass
Oring:	EPDM
Gripper Ring	SS304
Push Ring	Acetal
Locking Ring	Acetal
Seat Ring	Acetal
Stiffener	Polysulfone

CAUTION: FAILURE TO PROPERLY CHAMFER TUBING OD WILL RESULT IN A DAMAGED O-RING AND LEAK. FAILURE TO PROPERLY CHAMFER THE TUBE VOIDS FITTING WARRANTY.

**** STANDARD AGI DISCOUNTS APPLY to items on this page.***



BPCNL



BPRCNL



BPMANL



BPRMANL



BPFANL



BPRFANL



BPWHK

Part Number	Description & Size	Ctn Qty
Couplings		
BPC3/8NL	BRS PUSH CPL NL FITXFIT 3/8x3/8	60/240
BPC1/2NL	BRS PUSH CPL NL FITXFIT 1/2x1/2	50/200
BPC3/4NL	BRS PUSH CPL NL FITXFIT 3/4X3/4	30/120
BPC1NL	BRS PUSH CPL NL FITXFIT 1X1	15/60
Reducing Coupling		
BPRC1/2X3/8NL	BRS PUSH CPL NL FITXFIT 1/2X3/8	45/180
BPRC3/4X1/2NL	BRS PUSH CPL NL FITXFIT 3/4X1/2	35/140
BPRC1X3/4NL	BRS PUSH CPL NL FITXFIT 1X3/4	20/80
Male Adapters		
BPMA3/8NL	BRS PUSH M/A NL FITXMPT 3/8x3/8	60/240
BPMA1/2NL	BRS PUSH M/A NL FITXMPT 1/2X1/2	60/240
BPMA3/4NL	BRS PUSH M/A NL FITXMPT 3/4X3/4	40/160
BPMA1NL	BRS PUSH M/A NL FITXMPT 1X1	20/80
Reducing Male Adapter		
BPRMA3/8x1/2NL	BRS PUSH M/A NL FITXMT 3/8x1/2	52/208
BPRMA1/2X3/8NL	BRS PUSH M/A NL FITXMT 1/2X3/8	60/240
BPRMA1/2X3/4NL	BRS PUSH M/A NL FITXMT 1/2X3/4	50/200
BPRMA3/4X1/2NL	BRS PUSH M/A NL FITXMT 3/4X1/2	40/160
BPRMA3/4X1NL	BRS PUSH M/A NL FITXMT 3/4X1	25/100
BPRMA1X3/4NL	BRS PUSH M/A NL FITXMT 1X3/4	20/80
Female Adapters		
BPFA3/8NL	BRS PUSH F/A NL FITXFPT 3/8x3/8	60/240
BPFA1/2NL	BRS PUSH F/A NL FITXFPT 1/2X1/2	60/240
BPFA3/4NL	BRS PUSH F/A NL FITXFPT 3/4X3/4	40/160
BPFA1NL	BRS PUSH F/A NL FITXFPT 1X1	20/80
Reducing Female Adapter		
BPRFA3/8X1/2NL	BRS PUSH F/A NL FITXFPT 3/8X1/2	52/208
BPRFA1/2X3/4NL	BRS PUSH F/A NL FITXFPT 1/2X3/4	40/160
BPRFA3/4X1/2NL	BRS PUSH F/A NL FITXFPT 3/4X1/2	40/160
BPRFA3/4X1NL	BRS PUSH F/A NL FITXFPT 3/4X1	25/100
BPRFA1X3/4NL	BRS PUSH F/A NL FITXFPT 1X3/4	25/100
Water Heater Kit (includes 2 female adapters and 1 removal tool)		
BPWHK1/2X3/4NL	BRS PUSH WTHRT FITXFPT 1/2x3/4	20/160
BPWHK3/4NL	BRS PUSH WTHRT FITXFPT 3/4x3/4	15/120
BPWHK3/4X1/2NL	BRS PUSH WTHRT FITXFPT 3/4x1/2	15/120

NO LEAD Brass Push Fittings

CAUTION: FAILURE TO PROPERLY CHAMFER TUBING OD WILL RESULT IN A DAMAGED O-RING AND LEAK. FAILURE TO PROPERLY CHAMFER THE TUBE VOIDS FITTING WARRANTY.

**** STANDARD AGI DISCOUNTS APPLY to items on this page.***



BPENL



BPRENL



BPFENL



BPMENL



BPTNL



BPRTNL



BPFTNL



BPMTNL



BPDENL



BPWPENL



BPECANL



BPSRCNL

Part Number	Description & Size	Ctn Qty
Elbows		
BPE3/8NL	BRS PUSH ELL NL FITXFIT 3/8x3/8	60/240
BPE1/2NL	BRS PUSH ELL NL FITXFIT 1/2X1/2	40/160
BPE3/4NL	BRS PUSH ELL NL FITXFIT 3/4X3/4	20/80
BPE1NL	BRS PUSH ELL NL FITXFIT 1X1	12/48
Reducing Elbows		
BPRE1/2X3/8NL	BRS PUSH ELL NL FITXFIT 1/2X3/8	37/148
BPRE3/4X1/2NL	BRS PUSH ELL NL FITXFIT 3/4X1/2	25/100
BPRE3/4X1NL	BRS PUSH ELL NL FITXFIT 3/4X1	15/60
BPRE1X3/4NL	BRS PUSH ELL NL FITXFIT 1X3/4	15/60
Female Elbow		
BPFE3/8NL	BRS PUSH FEM ELBOW NL FITXFPT 3/8	60/240
BPFE1/2NL	BRS PUSH FEM ELBOW NL FITXFPT 1/2	40/160
BPFE3/4NL	BRS PUSH FEM ELBOW NL FITXFPT 3/4	20/80
BPFE1NL	BRS PUSH FEM ELBOW NL FITXFPT 1	13/52
Male Elbow		
BPME3/8NL	BRS PUSH MALE ELBOW NL FITXMPT 3/8x3/8	60/240
BPME1/2NL	BRS PUSH MALE ELBOW NL FITXMPT 1/2X1/2	40/160
BPME3/4NL	BRS PUSH MALE ELBOW NL FITXMPT 3/4X3/4	20/80
BPME1NL	BRS PUSH MALE ELBOW NL FITXMPT 1X1	13/52
Tees		
BPT3/8NL	BRS PUSH TEE NL FITXFIT 3/8x3/8x3/x3/8	45/180
BPT1/2NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X1/2	30/120
BPT3/4NL	BRS PUSH TEE NL FITXFIT 3/4X3/4X3/4	15/60
BPT1NL	BRS PUSH TEE NL FITXFIT 1X1X1	7/28
Reducing Tee		
BPRT3/8x3/8x1/2NL	BRS PUSH TEE NL FITXFIT 3/8x3/8x1/2	30/120
BPRT1/2X1/2X3/8NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X3/8	30/120
BPRT1/2X1/2X3/4NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X3/4	20/80
BPRT1/2X1/2X1NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X1	15/60
BPRT1/2X3/4X3/4NL	BRS PUSH TEE NL FITXFIT 1/2X3/4X3/4	15/60
BPRT3/4X1/2X1/2NL	BRS PUSH TEE NL FITXFIT 3/4X1/2X1/2	20/80
BRPT3/4x1/2x3/4NL	BRS PUSH TEE NL FITXFIT 3/4X1/2X3/4	15/60
BPRT3/4X3/4X1/2NL	BRS PUSH TEE NL FITXFIT 3/4X3/4X1/2	15/60
BPRT1X1X3/4NL	BRS PUSH TEE NL FITXFIT 1X1X3/4	8/32
Female Tee		
BPFT1/2NL	BRS PUSH FEM TEE NL FITXFITXFPT 1/2X1/2X1/2	30/120
BPFT3/4NL	BRS PUSH FEM TEE NL FITXFITXFPT 3/4X3/4X3/4	15/60
Male Tee		
BPMT1/2NL	BRS PUSH MALE TEE NL FITXFIT 1/2X1/2X1/2	30/120
BPMT3/4NL	BRS PUSH MALE TEE NL FITXFIT 3/4X3/4X3/4	15/60
Drop Elbow 3 hole		
BPDE1/2NL	BRS PUSH DROP ELBOW NL FITXFPT 1/2X1/2	30/120
Wall Plate Elbow 2 hole		
BPWPE1/2NL	BRS PUSH WALL PLATE EL NL FITXFPT 1/2X1/2	30/120
End Cap		
BPECA3/8NL	BRS PUSH END CAP NL FIT 3/8	82/328
BPECA1/2NL	BRS PUSH END CAP NL FIT 1/2	100/400
BPECA3/4NL	BRS PUSH END CAP NL FIT 3/4	60/240
BPECA1NL	BRS PUSH END CAP NL FIT 1	30/120
Slip Repair Coupling		
BPSRC1/2NL	BRS PUSH REPAIR CPL NL FITXFIT 1/2X1/2	20/80
BPSRC3/4NL	BRS PUSH REPAIR CPL NL FITXFIT 3/4X3/4	15/60
BPRSC1NL	BRS PUSH REPAIR CPL NL FITXFIT 1X1	10/40

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NO LEAD Brass Push Fittings

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**** STANDARD AGI DISCOUNTS APPLY to items on this page.***



BPBVNL



BPTOOLNL



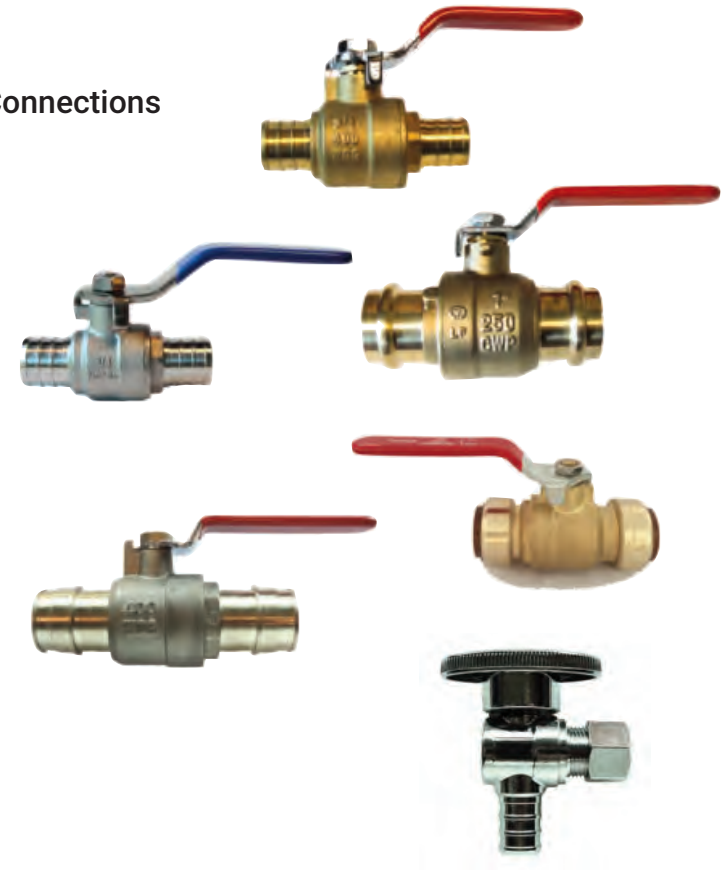
BPSTIFFNL

Part Number	Description & Size	Ctn Qty
Ball Valve		
BPBV1/2NL	BRS PUSH BALL VALVE NL FITXFIT 1/2X1/2	10/40
BPBV3/4NL	BRS PUSH BALL VALVE NL FITXFIT 3/4X3/4	7/28
BPBV1NL	BRS PUSH BALL VALVE NL FITXFIT 1X1	5/20
Removal Tool		
BPTOOL3/8NL	BRS PUSH REMOVAL TOOL NL 3/8	150/600
BPTOOL1/2NL	BRS PUSH REMOVAL TOOL NL 1/2	150/600
BPTOOL3/4NL	BRS PUSH REMOVAL TOOL NL 3/4	100/400
BPTOOL1NL	BRS PUSH REMOVAL TOOL NL 1	50/200
Stiffener for PEX		
BPSTIFF3/8NL	BRS PUSH PEX STIFFENER NL 3/8	400/1600
BPSTIFF1/2NL	BRS PUSH PEX STIFFENER NL 1/2	400/1600
BPSTIFF3/4NL	BRS PUSH PEX STIFFENER NL 3/4	200/800
BPSTIFF1NL	BRS PUSH PEX STIFFENER NL 1	150/600

Looking for Valves?

See our full line of PEX and PE-RT ball valves in catalog section 3

- Ball Valves with PEX Connections
- Ball Valves with PRESS Connections
- Ball Valves with COLD EXPANSION Connections
- Ball Valves with PUSH Connections
- Supply Valves



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PEX Tubing Installation Accessories

PEX Accessories:

- Approved for use with ASTM F876/F877 SDR-9 PEX plumbing and hydronic radiant heating systems incorporating ASTM F-1807 insert fittings.
- Copper crimp rings manufactured from UNS C10200 or UNS C12200 copper alloy and are annealed to 35-45 Rockwell 15T scale for ease of crimping.

NEW SIZES

CB SUPPLIES

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #782
Crimp Rings/Press Sleeves



NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Crimp Rings



Press Sleeves

Part Number	Description & Size	Bag/Ctn Qty
COPPER CRIMP RINGS		
CBXCR2	Copper Crimp Ring for 3/8" PEX Tubing	100/2000
CBXCR3	Copper Crimp Ring for 1/2" PEX Tubing	100/1000
CBXCR58B	Copper Crimp Ring Black for 5/8" PEX Tubing	100
CBXCR4	Copper Crimp Ring for 3/4" PEX Tubing	100/500
CBXCR5	Copper Crimp Ring for 1" PEX Tubing	50/250
CBXCR6	Copper Crimp Ring for 1 1/4" PEX Tubing	100/400
CBXCR7	**Copper Crimp Ring for 1 1/2" PEX Tubing**	**100/400**
CBXCR8	**Copper Crimp Ring for 2" PEX Tubing**	**100/200**
STAINLESS STEEL PRESS SLEEVES		
CBXSS3	Stainless Steel Press Sleeve 1/2" PEX	50/5000
CBXSS4	Stainless Steel Press Sleeve 3/4" PEX	50/3200
CBXSS5	Stainless Steel Press Sleeve 1" PEX	25/1600
CBXSS6	**Stainless Steel Press Sleeve 1 1/4" PEX**	**50/400**
CBXSS7	**Stainless Steel Press Sleeve 1 1/2" PEX**	**50/250**
CBXSS8	**Stainless Steel Press Sleeve 2" PEX**	**25/100**

Cold Expansion PEX Rings:

- ASTM F1960

F1960 Rings

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

CB SUBCAT CODE #891
COLD EXPANSION Fittings

Part Number	Size Description	Bag/Ctn Qty
COLD EXPANSION RINGS - F1960		
CBXCER3	Cold Expansion Ring for 1/2" PEX Tubing	50/500
CBXCER4	Cold Expansion Ring for 3/4" PEX Tubing	50/500
CBXCER5	Cold Expansion Ring for 1" PEX Tubing	50/250
CBXCER6	**Cold Expansion Ring for 1 1/4" PEX Tubing**	**10/150**

PEX Tubing Installation Accessories



StepLess® PEXGrip® Pro Series Pinch Clamp Features:

- Patented PEXGrip® Technology.
- ShieldLock® patented design for stonger interlock, higher performance, and no bank over-elongation.
- Preset to grip tube, prevents clamps from sliging for easier crimping.
- Provides a 360 leak-free seal.
- Narrow band for concentrated seal compression.
- Requires only one installation tool for all clamp sizes.
- Tamper-evident design.
- ASTM F2098 for use with ASTM F1807 and F2159 insert fittings and ASTM F876 PEX or F2769 PE-RT tubing.
- Conforms to ASTM F877 and CSA B137.5.



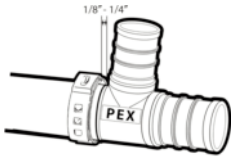




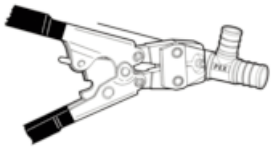
Standard PEX vs. PEXGrip® Pro

Installation:

For proper Installation of clamps, use calibrated, genuine Oetiker installation tools.



1. Slip clamp over tubing. The recommended distance (dimension) between the clamp and end of the tube is 1/8" - 1/4"



2. Close clamp ear with tool. Tool will not release until clamp is fully closed.



3. IMPORTANT: For proper installation of Oetiker PEX clamps, full ear closure is required. Visually inspect clamp for correct closed ear form.

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #782
Crimp Rings

Part Number	Description	PEX Tube	Bag/Case Qty
OETIKER PEXGrip® STAINLESS STEEL PINCH CLAMPS			
CBXSSPG2	PEXGrip SS Pinch Clamps	3/8"	100/2000
CBXSSPG3	PEXGrip **PRO** SS Pinch Clamps	1/2"	100/2000
CBXSSPG58	PEXGrip SS Pinch Clamps	5/8"	50/2500
CBXSSPG4	PEXGrip **PRO** SS Pinch Clamps	3/4"	50/2000
CBXSSPG5	PEXGrip **PRO** Pinch Clamps	1"	50/1000

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PEX Tubing Installation Accessories

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #95
Tools



HCM, IHCM HADSSI

HAD IHAD

Part Number (CB)	Size and Description	Ctn Qty
CRIMP & PRESS HAND TOOLS		
HCM2	3/8" Single Hand Angle Copper Ring Crimp Tool USA	1
HCM3	1/2" Single Hand Angle Copper Ring Crimp Tool USA	1
HCM58	**5/8" Single Hand Angle Copper Ring Crimp Tool USA**	**1**
HCM4	3/4" Single Hand Angle Copper Ring Crimp Tool USA	1
HCM5	1" Single Hand Angle Copper Ring Crimp Tool USA	1
HAD3	1/2" Copper Ring Crimp Tool PEX USA	1
HAD4	3/4" Copper Ring Crimp Tool PEX USA	1
HAD34	1/2 X 3/4" Copper Ring Crimp Tool PEX USA	1
HAD5	1" Copper Ring Crimp Tool PEX USA	1
IHCM3 (10005)	1/2" Single Hand Angle Copper Ring Crimp Tool IMP	1/20
IHCM4 (10007)	3/4" Single Hand Angle Copper Ring Crimp Tool IMPORT	1/20
IHAD5 (09010)	1" LONG HANDLE Copper Ring Crimp Tool IMPORT	1
9358SAK	Multi Head Copper Ring Crimp Tool - 3/8", 1/2", 3/4", 1" USA	1/10
HADSS3I (02005)	1/2" PEX Single Hand Ang SS SLEEVE Press Tool IMP	1
HADSS4I (02007)	3/4" PEX Single Hand Ang SS SLEEVE Press Tool IMP	1
HADSS5I (02010)	1" PEX Single Hand Ang SS SLEEVE Press Tool IMP	1



9358SAK



14100280

14100519

OETIKER Clamp Tools Features:

3-Handle Ratchet Pincers: Single handed installation, 1 tool all sizes. Can be calibrated with GO/NO-GO gauge included. Heavy Duty , professional gauge. Lightweight for easy handling. Third handle makes crimping easier, reduces hand strain. Ratchet design ensures strong clamp closure. Recommended for closing Oetiker PEX clamps.

Hand Clamp Cutter: Quick and easy ear clamp cutting. Safest method for clamp removal. Soft molded grips distributes hand pressure and lessen risk of injury. Requires minimum hand force for 1/2" clamps.

Part Number	Size Description	Bag/Ctn Qty
OETIKER TUBING TOOLS		
14100280	HAND INSTALLATION RATCHET PINCER	1/20
14100519	HAND PINCH CLAMP CUTTER	1/20



14100504

14100418

OETIKER PEX/PE-RT Tubing Cutters: ** STANDARD AGI DISCOUNTS APPLY*

Hand PEX/PE-RT Tube Cutter: For PEX, PE-RT and Poly tubing. Cuts up to 1". Thumb activated lock. Die cast aluminum, soft molded, spring loaded handles. Replaceable V-shaped AEB-L razor stainless steel blade safely stores in jaws when locked. Designed with flats on the cutting cavity so tubing remains straight during cutting resulting in a straight cuts every time. Made in USA.

Radial Hand Tubing Cutter: For PEX, PERT tube. Cuts 1/2", 3/4" & 1" Compact tool cuts square, keeps it round. Circular cuts from tighter connections.

Part Number	Size Description	Ctn Qty
OETIKER PEX/PE-RT TUBING CUTTERS		
14100504	1" HAND PEX/PE-RT TUBE CUTTER HTC500	1/3
14100506	1" HAND PEX/PE-RT TUBE CUTTER BLADE 2pk	1/10
14100418	RADIAL HAND TUBE CUTTER	1/18

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** AGI warranty does not apply to PEX Crimp Tools. Refer to manufacturers warranty.*

PEX Tubing Installation Accessories

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #74-75
PEX POTABLE Tubing



Ice Maker Tubing

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF/ANSI 61 & 372

Part Number	Size Description	Bag/Ctn Qty	SUBCAT
ICE MAKER TUBING 200 psi, CTS-OD SDR-11			
TB0C1	1/8" Nominal (1/4" OD) Natural PE	100'	74-75

NEW

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

PLEASE NOTE MULTIPLE CB SUBCAT PRICING CODES APPLY



780063 Series



780064 Series

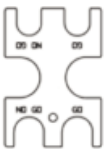


780065 Series

Part Number	Size/Description	Bag/Ctn Qty	SUBCAT CODE
J Clamp with nail			
780063004	**3/8" HDPE with nail**	**100/500**	**781**
780063005	**1/2" HDPE with nail**	**100/2500**	**781**
780063007	**3/4" HDPE with nail**	**100/1600**	**781**
780063010	**1" HDPE with nail**	**50/900**	**781**
Alpha Suspension Pipe Clamp			
780064005	**1/2" High Impact Polypropylene**	**100/1000**	**781**
780064007	**3/4" High Impact Polypropylene**	**50/600**	**781**
780064010	**1" High Impact Polypropylene**	**50/500**	**781**
Omega Pipe Clamp			
780065005	**1/2" High Impact Polypropylene**	**100/1000**	**781**
780065007	**3/4" High Impact Polypropylene**	**50/600**	**781**
780065010	**1" High Impact Polypropylene**	**50/500**	**781**



Clip Clamp



HAC34

CLIP CLAMP		Tubing OD mm		
SW15G	1/2" Clip Clamp Gray	14.0-16.5	100	76
SW20G	3/4" Clip Clamp Gray	19.5-24.0	50	76
SW25G	1" Clap Clamp Gray	24.2-28.0	50	76

** Mount clip clamp then push tubing against clamp base. Jaws close & lock automatically.

PEX CRIMP RING GAUGE/CALIPER			
HAC34	3/8, 1/2 and 3/4 GO-NO GO RING GAUGE	1	89



Risers

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF/ANSI 61 & 372

RISERS			
RLX120	3/8" x 20" LAV Riser w/ compression ferrule	100	781
RLX130	3/8" x 30" LAV Riser w/ compression ferrule	100	781
RLX136	3/8" x 36" LAV Riser w/ compression ferrule	100	781
RKX112	3/8" x 12" CLOSET Riser w/ compression ferrule	100	781
RXF1	FERRULE FOR 3/8 OD RISER"	100	781



950424000



950424001

UNCOILER			
950424000	**Uncoiler - Domestic TATK200**	**1**	**95**
950424001	**Uncoiler - Import with carrying case**	**1**	**95**

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Radiant Installation Accessories

Radiant Manifold Pre-assembled Kit Features:

- Suitable for distributing and controlling water in radiant floor heating systems at low and high temperatures.
- Includes flow balancing/metering devices and return shut-off valves.
- Built in mounting bracket support included.

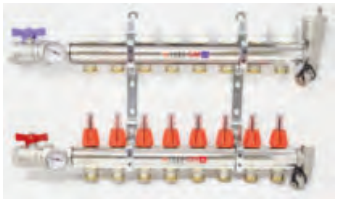
*** NON STOCK ITEMS ***
ALLOW 3 WEEKS for DELIVERY

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #76
Radiant Manifolds & Accessories



SS Manifold



NP Brass Manifold

Part Number	Size Description	Ctn Qty
RADIANT MANIFOLDS - 1" Stainless Steel		
763510002-S	1" SS 2 LOOP Manifold w/ valve & meter	1
763510003-S	1" SS 3 LOOP Manifold w/ valve & meter	1
763510004-S	1" SS 4 LOOP Manifold w/ valve & meter	1
763510005-S	1" SS 5 LOOP Manifold w/ valve & meter	1
763510006-S	1" SS 6 LOOP Manifold w/ valve & meter	1
763510007-S	1" SS 7 LOOP Manifold w/ valve & meter	1
763510008-S	1" SS 8 LOOP Manifold w/ valve & meter	1
763510009-S	1" SS 9 LOOP Manifold w/ valve & meter	1
763510010-S	1" SS 10 LOOP Manifold w/ valve & meter	1
763510011-S	1" SS 11 LOOP Manifold w/ valve & meter	1
763510012-S	1" SS 12 LOOP Manifold w/ valve & meter	1
RADIANT MANIFOLDS - 1 1/4" Nickle Plated Brass *		
763512006	11/4" NP Brass 6 LOOP Manifold w/ valve+meter	1
763512010	11/4" NP Brass 10 LOOP Manifold w/ valve+meter	1

* Discontinued - Limited stock

Radiant Installation Accessories

Radiant Accessories

*** NON STOCK ITEMS ***
ALLOW 3 WEEKS for DELIVERY

STANDARD AGI DISCOUNTS DO NOT APPLY.
Contact your sales representative for pricing.

CB SUBCAT CODE #76
Radiant Manifolds
& Accessories



Adapter



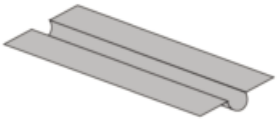
Extension Nipple



Circuit Actuator



Digital Thermostat



Heat Transfer Plates



In-Slab Repair Kit



In-Slab Elbow



PTO Bend Support



Staples





Clip Clamp

Part Number	Size Description	Ctn
ADAPTERS		
763500005	Set of 2 Adapters 1/2" COMP x manifold	1
763500006	Set of 2 Adapters 5/8" COMP x manifold	1
763500007	Set of 2 Adapters 3/4" COMP x manifold	1
EXTENSION NIPPLE		
763590010	1" BSP x 1" BSP	1
763590011	1" BSP x 1" BSP swivel	1
763590012	1 1/4" BSP x 1 1/4" BSP	1
CIRCUIT ACTUATORS		
763580000	Actuator 24V 2-Wire Telestat switch IVAR	1
763580001	Actuator 24V 4-Wire Telestat switch IVAR	1
Digital Thermostat		
TH114AF024T	Non-Programmable Ambient Floor Thermostat	1
Heat Transfer Plates		
HRTP3	Aluminum Heat Transfer Plates 19" x 5"	25
In-Slab Repair Kit		
CBXRK33HR	In-slab repair kit 1/2"	1
CBXRK44HR	In-slab repair kit 3/4''	1
In-Slab Slip-on Elbow		
HRSL3	1/2" PEX Plastic In-slab Slip On Elbow	1
HRSL4	3/4" PEX Plastic In-slab Slip On Elbow	1
763006010	1" PEX Plastic in-slab Slip On Elbow	1
BEND SUPPORT		
PTO3	1/2" Bend Support	10
PTO4	3/4" Bend Support	50
Foam Staples - IN STOCK		
STAP1	1 1/2" Staple Box of 300 (950430103)	1
STAP2	2 1/2" Staple Box of 300 (950430102)	1
CLIP CLAMP - Size & Tubing OD mm		
SW15G	1/2" Clip Clamp Gray 14.0-16.5	100
SW20G	3/4" Clip Clamp Gray 19.5-24.0	50
SW25G	1" Clap Clamp Gray 24.2-28.0	50

** Mount clip clamp then push tubing against clamp base. Jaws close and lock automatically.

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TAPES, SEALANTS & SOLVENT CEMENTS



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Tapes - PTFE Thread Seal



HTST Series

NO LEAD LEAD-FREE

Imported PTFE Thread Seal Tape Features:

- Medium density thread seal tape requires fewer wraps.
- Manufactured from 100% virgin PTFE.
- 3.5 mil thick.
- Mil. Spec. T-27730A.
- Meets ASTM D-3308.
- Not for use on oxygen lines.

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

Part Number	Width	Length	Color	Ctn/Case Qty
HTST260-1/2	1/2"	260 inches	White	144/576
HTST260-3/4	3/4"	260 inches	White	144/576
HTST520-1/2	1/2"	520 inches	White	144/576
HTST520-3/4	3/4"	520 inches	White	144/576
HTST520-1	1"	520 inches	White	144/576



HTST SS Series

NO LEAD LEAD-FREE

HARVARD® Master Contractor™ Imported PTFE Thread Seal Tape For Stainless Steel Threads Features:

HARVARD MASTER CONTRACTOR™

- High density thread seal tape for stainless steel threads.
- Silver color. 4 mil thick.
- Impregnated with nickel for smooth thread connections.
- Prevents galling and seizing during assembly.
- No need for additional thread seal paste.
- Meets ASTM D-3308. Mil. Spec. T-27730A.
- Not for use on oxygen lines.

Part Number	Width	Length	Color	Ctn/Case Qty
HTST60-1/2SS	1/2"	60 inches	Silver	144/576
HTST260-1/2SS	1/2"	260 inches	Silver	144/576



HTST XHD Series

NO LEAD LEAD-FREE



HARVARD® Master Contractor™ Imported Extra High Density PTFE Thread Seal Tape Features:

HARVARD MASTER CONTRACTOR™

- Professional grade density.
- Thickness 3.5 mil, density 0.8g/cm^3
- Same as Blue Monster™ and Hercules® Megatape.
- Use on steel, stainless steel, brass, aluminum, copper and all plastics.
- No need for additional thread seal paste.
- White color.
- Mil. Spec. T-27730A. Meets ASTM D-3308. UL Listed.
- Counter display packed.
- Not for use on oxygen lines.

Blue Monster™ is a trademark of The Mill Rose Company. Hercules® is a registered trademark of Oatey.

Part Number	Width	Length	Color	Display Ctn/Case Qty
HTST260-1/2XHD	1/2"	260"	White	150/900
HTST520-1/2XHD	1/2"	520"	White	100/600
HTST1429-1/2XHD	1/2"	1429"	White	45/270
HTST260-3/4XHD	3/4"	260"	White	100/600
HTST520-3/4XHD	3/4"	520"	White	100/600
HTST1429-3/4XHD	3/4"	1429"	White	27/162

Tapes - PTFE Thread Seal



HTT Series

NO LEAD LEAD-FREE

Made in USA PTFE Thread Seal Tape Features:

- UL Listed.
- 100% virgin PTFE.

HTT260/HTT520 Medium Density PTFE Tape
- White general purpose
- Medium density.

HTT260-1/2SS Gray Stainless Steel PTFE Tape
- Nickel pigment added for use on all stainless steel threads.
- Prevents galling, seizing and corrosion.
- High density for course SS threads.

HTT260-1/2PP Pink Plumbers PTFE Tape
- For plumbers and pipe fitters.
- Pink to signify heavier than standard or medium density.

HTT260-1/2GAS Yellow Gas Service PTFE Tape
- For gas lines of all types- Natural gas, butane, propane.

HTT260-1/2OXY Green Oxygen PTFE Tape
- Green for oxygen applications. Grease free.
- For all oxygen lines. Will not support combustion.

HTT260-1/2XHD White Extra High Density PTFE Tape
- For all industrial applications.
- Can be used for water, oil, chemical, medical or food processing.

Part Number	Color	Usage	Thickness	Density	Temp Range	Specs
HTT260	White	General	3.5 mil	.90	-450°F to +550°F	Mil T-27730A
HTT520	White	General	3.5 mil	.90	-450°F to +550°F	Mil T-27730A
HTT260-1/2OXY	Green	Oxygen lines	3.5 mil	1.55	-450°F to +550°F	Mil T-27730A/AA58092
HTT260-1/2PP	Pink	Plumbing	3.5 mil	1.55	-450°F to +550°F	Mil T-27730A/AA
HTT260-1/2XHD	White	Industrial	3.5 mil	1.20	-450°F to +550°F	Mil T-27730A
HTT260-1/2SS	Light Gray	Stainless Steel	3.5 mil	1.55	-450°F to +550°F	Mil T-27730A/AA58092
HTT260-1/2GAS	Yellow	Gas lines	3.5 mil	1.20	-450°F to +550°F	Mil T-27730A

Part Number	Width	Length	Color	Case Qty
HTT260	1/2"	260 in	White	144
HTT520	1/2"	520 in	White	144
HTT520-3/4	3/4"	520 in	White	144
HTT520-1	1"	520 in	White	144
HTT260-1/2OXY	1/2"	260 in	Green	144
HTT260-1/2PP	1/2"	260 in	Pink	144
HTT260-1/2XHD	1/2"	260 in	White	144
HTT260-1/2SS	1/2"	260 in	Light Gray	144
HTT260-1/2GAS	1/2"	260 in	Yellow	144

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Tapes - Electrical, Vinyl



T60NL

General Purpose NO LEAD Vinyl Electrical Tape Features:

- **Third party certified to NSF/ANSI 372.**
- Economical, flexible, general purpose electrical tape.
- Use for insulation, protective jacketing and harnessing.
- 7 mil thickness.
- Temperature Range 32ºF and 176ºF.
- Meets mil spec. MIL-I-7798A.
- Imported

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

Part Number	Thickness	WidthxLength	Color	Ctn Qty
T60NL	7 mil	3/4" x 60 feet	Black	64



AWT60NL Series

Premium All Weather NO LEAD Vinyl Electrical and Pipe Wrap Tape Features:

- **Third party certified to NSF/ANSI 372.**
- For use in **all weather** applications.
- Use for insulation, protective jacketing and harnessing and pipe wrap.
- 7 mil thickness, 3/4" or 2" width.
- Temperature range 14°F and 176°F.
- Meets Mil. Spec. MIL-1-7798A.
- Tested to ASTM D-1000
- Imported

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

Part Number	Thickness	WidthxLength	Color	Ctn Qty
AWT60NL	7 mil	3/4" x 60 feet	Black	64
AWT60-2NL	7 mil	2" x 60 feet	Black	48

Tapes - 3M Vinyl, Rubber



165

LISTED 539H Insulating Tape

LR48769

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

3M® 165 Temflex™ Vinyl Electrical Tape Features:

- Good quality, multi-purpose, comformable PVC vinyl insulating electrical tape.
- Flame retardant and great resistant to moisture.
- 6 mil thickness.
- Temperature rating to 194°F, 90°C.
- Meets ASTM D-2301 Type 1.
- Imported
- 3M has discontinued the 1700 Temflex tape.

Part Number	Thickness	WidthxLength	Color	Ctn Qty
165	6 mil	3/4" x 60 feet	Black	100



TS Series

ISO 900 X

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

• Scotch® is a 3M registered trademark

3M® Scotch® Professional Use Premium Vinyl Plastic Tape Features:

- Highly comformable, super stretchy in **all weather** applications.
- Resists UV rays, abrasion, corrosion, alkalies and acids.
- Flame Retardent.
- 7 mil tape thickness Super 33+. 8.5 mil thickness Super 88
- Temperature range 0°F to 220°F.
- Use as a primary insulation for wire cable splices up to 600V.
- Use as protective jacketing.
- Made in USA. Made for AGI in a ISO 900X facility.

Super 33+
ASTM D-3005 Type I
UL273 & CSA LR48769

Super 88
MIL-I-24391C
ASTM D-3005 Type I
UL 539H & CSA LR48769

Part Number	Thickness	WidthxLength	Color	Ctn Qty
TS33-20	7 mil	3/4" x 20 feet	Black	10/100
TS33-44	7 mil	3/4" x 44 feet	Black	10/100
TS33-66	7 mil	3/4" x 66 feet	Black	10/100
TS88-66	8.5 mil	3/4" x 66 feet	Black	10/100



2242

ISO 900 X

NO LEAD LEAD-FREE

3M® 2242 Linerless Electrical Rubber Tape Features:

- Multi-purpose rubber insulating tape.
- Designed for use in splicing and terminating wires and cables.
- Rated up to 194°F (90°C) continuous.
- Highly comformable, linerless EPR (Ethylene Propylene Rubber) based tape.
- No Liner for easier handling.
- Excellent thermal dissipation for longer cable life.
- Excellent moisture seal.
- With Flame retartant.
- Meets HH-I-553C and ASTM D-4388 Type I, II, III.

Part Number	Thickness	WidthxLength	Ctn Qty
2242	30 mil	3/4" x 15 feet	24

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Tapes - Pipe Wrap



PWT2100G



PWT2100BNL

Pipe Wrap Tape, 10 mil Features:

- Non-conductive, moisture proof.
- Protects overhead, exposed or buried piping from salt water, alkalis and acids from plants and soils.
- Protects against galvanic corrosion.
- Use on all types of pipe and fittings including steel, galvanized, electrical conduit, cast and ductile iron.
- Excellent insulating capabilities and superior abrasion resistance.
- Remains pliable in a wide range of temperatures and working environments.
- Resists effects of outdoor weathering and sunlight exposure.
- 10 mil thickness.
- Operating temperature range: 15ºF to 175°F.
- PWT2100BNL is <0.25% Pb wetted surface content.
- PWT2100BNL is IAPMO UPC certified to D100 standard.
- Available in green or low lead black with IAPMO continuous printing on tapeface.



NO LEAD
< 0.25% Pb
by weighted
average

FOR CALIFORNIA RESIDENTS
WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Part Number	Thickness	Width x Length	Color	Ctn Qty
PWT1100G	10 mil	1" x 100'	Green	48
PWT2100G	10 mil	2" x 100'	Green	24
PWT2100BNL	10 mil	2" x 100'	Black	24

Tapes - Duct

POLYKEN®



AGDUCT / HDT / EDT Series

Meets UL723

ISO 9001

Contractor/Industrial Grade Cloth Reinforced Duct Tape Features:

- Multi-purpose duct tapes.
- Polyethylene coated cloth backing.
- Natural rubber based adhesive.
- Temperature range: 40ºF to 200°F.
- Superior tensile strength, adhesion and tack.
- For seaming, sealing and hanging polyethylene or vinyl.
- HDT Series recommended for pool liner installations.
- Conformable and will not curl or twist during application.
- Manufactured for AGI in an ISO9001 facility.

Part Number	Thickness	Width x Length	Color	Ctn Qty
EDT260	7.5 mil	48mm x 55m (2" x 60 yds)	Silver	24
AGDUCT	9 mil	48mm x 55m (2" x 60 yds)	Silver	24
HDT260	10 mil	48mm x 55m (2" x 60 yds)	Silver	24
HDT260 BLUE	10 mil	48mm x 55m (2" x 60 yds)	Blue	24
HDT260 RED	10 mil	48mm x 55m (2" x 60 yds)	Red	24
HDT260 BLACK	10 mil	48mm x 55m (2" x 60 yds)	Black	24
HDT260 WHITE	10 mil	48mm x 55m (2" x 60 yds)	White	24

Part Number	Adhesive	Total Thickness (mil)	Tensile Strength (lb/in)	Adhesion to Steel (oz/in)	Flame Spread	Smoked Developed Index
EDT260	Rubber	7.5	19.0	28	--	--
AGDUCT	Rubber	9.0	29.0	45	--	--
HDT260	Rubber	10.0	24.0	60	10	5

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BOSS® Expanding Foam Sealant



BOSS® 333 Expanding Foam Sealant Features:

- Easy to use, multi-purpose urethane foam.
- Unlike ordinary sealants, it expands **three** times it's original volume.
- Adheres to all building materials except PTFE, silicone and polyethelene.
- Seals by expanding into gaps, cracks and crevices.
- Uses including insulating, sealing and filling gaps around pipes, plumbing fixtures,ductwork and foundations.
- UL classified.

DIRECTIONS FOR USE:

1. Shake can before and during use.
2. Surface must be clean and free of grease and oil.
3. Can must be held UPSIDE DOWN during application.
4. Insert straw into void and depress the trigger. The use of protective gloves is highly recommended.
5. Fill void 50% full to allow for expansion.
6. Uncured foam can be cleaned with acetone or paint thinner.
7. Cured foam can be trimmed, sanded, painted r stained. Foam MUST be painted or coverred if application is exposed to UV light.

R19028
CAULKING AND SEALANTS
SURFACE BURNING CHARACTERISTICS
APPLIED TO INORGANIC REINFORCED
CEMENT BOARD*
FLAME SPREAD: 5
SMOKE DEVELOPED: 2038FN

* Tested as applied in three 3/4" beads 5" on center covering 12.5% of the exposed test sample area.

Part Number	Description	Ctn Qty
33316B *	Expanding Foam Sealant, 12 oz can w/ application tip	12

* SHIPPING NOTE: Ground shipping only. Can NOT be shipped via air.

BOSS® Adhesives, Lubricants & Sealants



BOSS® line of adhesives, grouts and lubricants are specifically formulated for use with pools and whirlpool baths.

BOSS PRODUCTS

BOSS® 801 Neutral Cure Silicone Adhesive Features:

- A one part, low odor, non-corrosive, oxime cure adhesive and sealant.
- Provides excellant adhesion to ceramic tile, spa jets, skimmers, lighting fixtures, plumbing and fiber optic lighting.
- Adheres well to fiberglass, ABS, acrylic, PVC, wood and masonry.

NO LEAD ✓ LEAD-FREE

BOSS® 802 Acetoxy Cure Silicone General Purpose Adhesive Features:

- A one part, acetoxy cure, adhesive/sealant.
- Performs well in jet sealing applications.
- Designed for many other pool and spa maintenance and repair needs.



BOSS® 804 Neutral Cure Silicone Ceramic Tile Grout Features:

- A one part, low odor, non-corrosive, oxime cure silicone grout.
- Spreads easily and provides ample tooling time.
- Excellent ahdesion to all ceramic tiles.

BOSS® 820 Pool & Spa Silicone Lubricant Features:

- Water washout resistant and non-solidifying compound.
- Provides superb lubricant for rubber o-rings.
- Non-corrosive, silicone lubricant compound.



BOSS® 315 RTV 100% Silicone Sealant Features:

- 100% Silicone rubber clear adhesive/sealant.
- Paste-like one component material cures to a tough, rubbery solid when exposed to moisture in the air. Can be applied overhead or on walls without sagging.
- Adheres to clean metal, glass, wood, ceramic and painted or plastic surfaces.

BOSS® 370 HVAC/R Silicone SealantFeatures:

- For sealing heating, ventilation or air conditioning duct work.
- A one part acetoxy cure adhesive/sealant.
- Adheres well clean metal, glass, wood, silicone resin, rubber, ceramics & plastics.



Part Number	Description	Ctn Qty
80100B	Silicone Adhesive Clear, 10.3 oz cart	12
80101B	Silicone Adhesive White, 10.3 oz cart	12
80200B	Silicone Adhesive Gen Purpose, Clear 10.3 oz. cart	12
80201B	Silicone Adhesive Gen Purpose, White 10.3 oz cart	12
80401B	Silicone Ceramic Tile Grout, White 10.3 oz cart	12
82000B	Pool & Spa Lubricant Clear, 5.3 oz tube	12
31500B	RTV Silicone Seal CLR 10.0 oz tube	12
31580B	RTV Silicone Seal CLR 8 oz pressurized can	12
37000B	HVAC/R Silicone Sealant Clear cartridge	12
37001B	HVAC/R Silicone Sealant White cartridge	12
37003B	HVAC/R Silicone Sealant Aluminum cartridge	12

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DOWSIL® Industrial Grade Silicone Sealant



PLB90C

NO LEAD
LEAD-FREE

DOWSIL ® Industrial Grade Silicone Sealant Features:

- One-part 100% silicone RTV.
- Non slumping paste.
- Cured sealant stays rubbery from -76° to 400°F
- Free of petroleum distillates.
- Resistant to weathering.
- Cures at room temperature.
- Meets the requirements of FDA Regulation No. 21CFR177.2600.
- NSF ANSI 51 for all food contact.
- Recognized under UL QMFZ2

Dowsil Industrial Grade Silicone Sealant is a one-part acetoxy cure adhesive sealant suitable for general industrial sealing and adhesive applications. The sealant will adhere to clean metal, glass, silicone rubber and plastic surfaces. A primer may be required for optimum adhesion to some surfaces.

Supplied in ready to use form. It flows readily from its container under pressure. the paste like consistancy make it easy to work, a spatula or paddle can be used to tool the surface.

Uses include: Adhering trim and nameplates, sealant for pumps and compressors, bonding parts, caulking doors and windows, sealing out moisture.

Product Properties:

Tooling Time *	5 minutes
Tack Free Time *	15 minutes
Complete Set-up time *	24 hours (1/8")
Cure System	Acetoxy
Application Temperture Range	-20°F to 122°F
	-29°C to 50°C
As Cured (after 7 days)	
Durometer hardness Shore A	20 points
Tensile Strength	225 psi
Elongation	577 %
Temperture Range - continuous	-76°F to 350°F
	-60°C to 177°C

* At 77°F (25°C) and 50% relative humidity

Storage:

- Store below 90° F (32°C) in a dry place.
- Shelf life is 720 days from date of manufacture.

Limitations: NOT recommended for

- Underwater use.
- On concrete or mortar.
- On oily wood such as cedar, teak, cypress.
- On surfaces to be painted. Paints will not adhere well to sealant.
- On Teflon-1 coated materials, polyethylene or polypropylene.
- On or near sensitive metals such as copper, brass, zinc, galvanized iron or magnesium.
- May not cure properly if used in spaces confined from atmospheric moisture.



9" Ratchet Style Caulking Gun

Part Number	Size	Color	Ctn Qty
PLB90C	10.3 oz. cartridge	Clear	12
CG9	9" Ratchet	Blue	20

Dow Corning® Tub, Tile & Ceramic Silicone Sealant



PLB 100 Series



PLB 103 Series

NO LEAD
LEAD-FREE

Dow Corning® Tub, Tile & Ceramic Silicone Sealant Features:

- Cures to 100% silicone rubber.
- One part, ready to use. Fast cure, high strength.
- **Cured silicone is mildew resistant**
- Remains flexible; will not become brittle, crack or tear.
- Removable, reusable, resealable nozzle.
- Clear & almond colors meet the requirements of FDA Regulation No. 21CFR177.2600.

Dow Corning Tub, Tile & Ceramic Silicone Sealant is a one-part acetoxy cure silicone sealant for non-porous surface applications requiring a **mildew-resistant** sealant. This versatile material can be used as an adhesive, selant, or grout for repairing or replacing ceramic tiles as well as in many other plumbing applications. It can be used for tub and shower enclosures.

It can be used to form watertight seals around bathtubs, shower enclosures, sink vanities, countertops, lavatories, faucets, saunas, hot tubs, plumbing fixtures, drains, piping, shower doors and floor seams.

Product Properties:

Tooling Time *	5-10 minutes
Tack Free Time *	15-20 minutes
Complete Set-up time *	24 hours (1/8")
Cure System	Acetoxy
Application Temperture Range	-20°F to 122°F
	-29°C to 50°C
As Cured (after 7 days)	
Durometer hardness Shore A	27 points
Tensile Strength	325 psi
Elongation	600 %
Temperture Range - continuous	-40°F to 350°F
	-40°C to 176°C
Movement capability	+/- 25%

* At 77°F (25°C) and 50% relative humidity

Approval/Specifications:

- ASTM C920 Type S, Grade NS, Class 25, Use NT, G and A.
- Federal Specification TT-S-001543A, Type non-sag, Class A,
- Federal Specificaiton TT-S-00230C, Type II, Class A

Storage:

- Store below 90° F (32°C) in a dry place.
- To store short term, replace cap.
- To store long term, unscrew nozzle, screw cap in cartridge and store nozzle in cap.

Limitations:

- Not for structural glazing
- Not paintable
- Not suited for prolonged submersion in water or below-grade applications. Not for aquarium use as product contains a fungicide.
- May not adhere to oily woods or be compatible with substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluroethylene.
- Not suitable for surfaces that might bleed oils, plasticizers or solvents or porous surfaces such as cement-like materials, stone or surfaces prone to attack by weak acids.
- May not cure properly if used in spaces confined from atmospheric moisture.
- May cause corrosion on some brass, copper, zinc or zinc-alloy, containing fixtures (galvanized).
- This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
- Not for use where abrasion and physical abuse are encountered.



9" Ratchet Style Caulking Gun

Part Number	Size	Color	Ctn Qty
PLB103C	3 oz tube	Clear	12
PLB103W	3 oz tube	White	12
PLB100C	10.3 oz cartridge	Clear	12
PLB100W	10.3 oz cartridge	White	12
CG9	9" Ratchet	Blue	20

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Boss® 136 Firestop/Draft Sealant



BOSS® 136 Firestop/Draft Sealant is a single component fire rated sealant and is a noncombustible filler caulking used for firestopping applications in the annular space around wires, pipes, ducts, vents, cable lines and other penetrations to the building envelope. It is a non-slumping sealant that sets to form a hard surface. **BOSS® 136** can be applied to any gap or penetration where the specification is noncombustible and/or ASTM-E136 rated. **BOSS® 136** is to be used for interior applications only.

The noncombustible specification is common to one and two family construction and to non-rated penetrations in multifamily and commercial construction. **BOSS® 136** is colored red for ease of inspection.

In the event of a fire **BOSS® 136** will prevent the spread of fire, smoke and toxic gases through penetration openings.

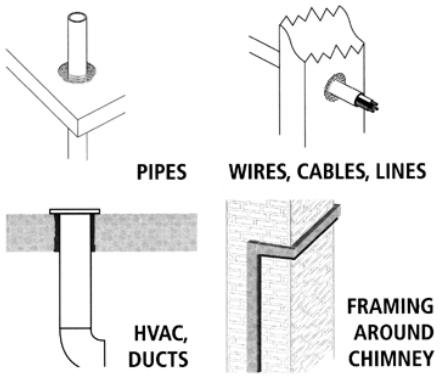
BOSS® 136 serves to form a "gasket or seal against air infiltration" as required by the Model Energy Code in both performance and prescriptive versions.

REQUIRED AREAS OF USAGE FOR FIRESTOPPING*

Seal ALL areas of penetration as shown in the illustration below.

- ALL - Exterior wall studs (including horizontal penetrations.)
- ALL - Floor penetrations.
- ALL - Ceiling penetrations.
- ALL - Framing around chimneys (at ceiling and floor levels.)

* Always consult local buliding codes.



FEATURES:

- Completely non-toxic and contains no asbestos or PCB's.
- Noncombustible.
- Applied with a conventional caulking gun.
- Easily applied sealant with water cleanup capabilities.
- An accredited fire block/smoke seal caulk.
- Single component system, no mixing necessary and no additions required.
- Meets residential construction code approvals including I.R.C.
- For interior applications only.
- Available in traditional cartridge and NEW aerosol can.
- Excellent adhesion to a wide variety of substrate material.

APPLICABLE STANDARDS

- UBC Page 1-378, 1997 edition.
- CABO Section 602.7, Item 4 of the 1995 edition.
- BOCA (NBC) regulation 704.4.1.1 1996.
- ASTM E-136.

Part Number	Description	Ctn Qty
BOSS136	10.1 oz cartridge	12

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Ph: 800-776-2266 Fax: 800-729-3299

Boss® 136 Firestop/Draft Sealant

HOW TO USE

- Cut nozzle to desired bead size. Insert cartridge into standard caulking gun.
- For a smooth seal, hold at 45°angle and apply by pushing sealant ahead of nozzle.
- Apply at 40°F or above.
- To ensure good adhesion, all surfaces should be clean and free of dust, oil, loose materials or any other substances.
- Make sure that BOSS® 136 makes complete contact with the entire surface of the opening and also the sur face of the penetrating item.

Always follow cartridge directions. Clean the area to be treated so that it is free of all particles and debris. For large openings, mineral wool fibers can be used as a backer to help hold the product in place until cured. Steel screen wire can be stapled in place over the material when a large opening is overhead or configured such that the material will not support it's own weight during cure.

TEMPERATURE RANGE

BOSS® 136 freezes in the cartridge at temperatures below 32° F. The product can be warmed and applied at any temperature but will not cure below 40° F. Freeze thaw cycles do not alter the cured product. Cure time may exceed 72 hours at non-freezing temperature.

CAUTION

- Keep from freezing
- Do not take internally
- Keep out of reach of children.

CONTAINS

- Sodium Silicate CAS# 1344-09-8.

COLOR

Boss® 136 Fire/Smoke and Draft Sealant is red in color for ease of inspection.

PACKAGING

Boss® 136 Firestop/Draft Sealant is available in standard 10.1 fl. oz cartridges and 11.0 oz. net wt. aerosol cans.

STORAGE & SHELF LIFE

Boss® 136 should not be stored where the ambient temperatures exceed 120°F or below 35°F. Should freezing occur, insure that product is defrosted fully prior to use. Shelf life is 12 months from the date of shipment. Ensure stock is rotated.

SPECIFICATIONS

Meets or exceeds ASTM E-136 for noncombustible building materials. Conforms to BOCA National Building Code (1996), CABO one and two family dwelling code (1995), Uniform Building Code (1997), Section 796, Fire Block and Draft Stop. BOCA-SBCCI-ICBO-NFPA Building Codes. Consult you local code official for the proper use of product.

c UL us LISTED

NONCOMBUSTIBLE BUILDING MATERIALS IN ACCORDANCE WITH ASTM E-136 <9NA6>

ALSO CLASSIFIED IN ACCORDANCE WITH ASTM E 136-96a, "Standard test method for the behavior of materials in a vertical tube furnace at 750°C."

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Ph: 800-776-2266 Fax: 800-729-3299

3M



DP600

Horizontal Concrete Repair Features:

Hardens in as little at 5 minutes,

Cracks and spalls in concrete floors are an eyesore as well as a potential safety risk. Fixing them has meant either hiring and waiting for an outside contractor or doing it youself with a repair method that takes the floor out of service for up to 24 hours. Now with 3M Concrete Repair, you save money and time.

- Self-leveling urethane flows smoothly into cleaned cracks and gaps and hardens in as little as 5 minutes. A fork lift can pass over a repair in as few as 15 minutes.
- Hardens to any depth without cracking or shrinking.
- Flexible urethane expands and contracts for durability that out lasts repairs made with concrete.
- Do it yourself with a common caulking gun and eliminate the cost and wait for an outside contractor.
- *Easy to use - Just clean damaged area and fill. With every squeeze of the caulking gun trigger, cartridge nozzle meters and mixes precise proportions for optimum performance.*





Part Number	Description	Ctn Qty
DP600	Concrete Repair, 8.4 fl oz cartridge supplied with 2 nozzles	6



9" Ratchet Style Caulking Gun

Part Number	Size	Color	Ctn Qty
CG9	9" Ratchet	Blue	20

Concrete Repair



Horizontal Concrete Repair Specifications:

- Gray, self-leveling urethane concrete repair.
- 8.4 fl oz. cartridge of concrete repair and 2 nozzles.
- Work life of 70 sec.
- Handling time of 5 minutes
- Cure time of 60 minutes

Applications:

- Repairing cracks and spalls on concrete floors or horizontal surfaces.
- Setting anchors in concrete floors or horizontal surfaces.
- Light-duty custom threading and anchoring.
- Use outdoors or in highly ventilated area.

Approximate coverage:

Crack Width	Crack Depth	Lineat Feet per 8.4 fl. oz.
1/4"	1/4"	19.3
1/2"	1/4"	9.9
3/4"	1/4"	6.4
1"	1/4"	4.9
1/4"	1/2"	9.9
1/2"	1/2"	4.9
3/4"	1/2"	3.0
1"	1/2"	2.0

Bead Size dimension	Linear Feet per 8.4 fl oz.
1/16"	815.0
1/8"	205.0
1/4"	51.9
3/8"	22.2
1/2"	12.4

Quick and Easy Spall Repair



Clean
Remove all loose material from area to be filled. Concrete should be dry and grease-free.



Fill
Dispense product into deepest part of repair areas, slightly overfilling. Product self-levels and is tack-free in as little as one minute.



Finish
In as little as 15 minutes, product can be sanded to remove rough edges. It can be painted within one hour.

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Ph: 800-776-2266 Fax: 800-729-3299

3M™ Spray Adhesive

ISO 9002



3M™ BLUE 72 Spray Adhesives

- Pressure sensitive repositionable adhesive
- Aggressive tack and low soak-in.
- Use it for temporarily positioning and holding many fabrics.
- Precise spray control with a wide spray pattern.
- Ideal for pool liner installation
- Manufactured for AGI in an ISO 900 facility.



3M™ ORANGE FOAM FAST 74 Spray Adhesives

- 74 Foam Fast Adhesive gives fast tack with foam-tearing strength and a soft, non-dimpling glue line.
- Bonds foam to foam, foam to metal.
- Non-misting, precise spray pattern.
- Not for sale in California. Does not meet Aerosol Consumer Products VOC limits.
- Manufactured for AGI in an ISO 900 facility.

Product	Bond Type	Bonding Time	Spray Width	Spray Pattern	Color	Temperature Resistance	Coverage
72	Temp or Permanent	One side-8 hrs Two sides-7 days	3-3.5 in	Controlled Lace	Blue	120°F 48°C	100 sq ft. 9.3 m^2
74	Permanent	One side -not recommended Two sides-15 minutes	1-3 in variable	Lace	Light Orange	120°F 48°C	260 sq ft. 25 m^2

Part Number	Can Size	Ctn/Pallet Qty
BLUE 72	Blue Spray Adhesive 24 fl oz. can 17.33 oz. net	12/768
ORANGE74	Orange spray adhesive 24 fl oz. can 16.9 oz. net	12/768

Pallet pricing available. Call your Sales Representative.

Hand Cleaning Towels



SCRUBS® WATERLESS HAND CLEANING TOWELS

Scrubs® is registered by Dymon Inc.

So unique they needed a patent! Powerful yet safe cleaning agents work together with an absorbent, non scratching abrasive hand cleaning towel. The result is hands that are clean and protected, with a pleasant fragrance...and are residue free. These shop size, durable towels quickly remove tough to clean substances including: Dirt, Heavy Grease, Adhesives, Lubricants, Oils, Ink, Tar, Wax, Caulk, Sealants, Paint and more.

Features:

- Pre-moistened, heavy duty towel with pumice scrubbing power.
- Works fast to loosen, dissolve and absorb dirt & grease.
- Deep cleaning scrubbers remove embedded grime easily.
- Conditions and softens hands... *No rinsing. No drying. No residue.*

Part Number	Description	Ctn Qty
SCRB72	Scrubs 72 Count Bucket	6

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Ph: 800-776-2266 Fax: 800-729-3299

Pipe Joint Compound





Oatey Great Blue® and Great White® (with PTFE) Pipe Joint Compounds are non-separating thread sealant compounds formulated to seal threaded connections against leakage on metal and plastic pipe and fittings.

- Can be used on pipe made of: ABS, Aluminum, Iron, Brass, Copper, CPVC, Fiberglass, **PVC**, Polypropylene, Polyethylene and **STAINLESS STEEL**.
- Compounds permit a tighter assembly with lower torque, secure permanent sealing of threaded connections and allow for easy disassembly without stripping or damaging threads.
- For use on pipe up to and including 2" diameter.
- Soft set, flexible, non-hardening paste.
- Non-toxic, lead free, non-staining.
- Brush top applicator included.

Product Properties:	GREAT BLUE	GREAT WHITE W/ PTFE
Pressure Rating		
Liquids	10,000 psi	10,000 psi
Gases	3,000 psi	3,000 psi
Temperature Rating	-50°F to 400°F	-50°F to 400°F
Required Dry Time	Up to 125 psi, no wait	Up to 125 psi, no wait
	Over 125 psi, 4 hours	Over 125 psi, 4 hours
Appearance	Blue Paste	White Paste
Shelf Life	2 years from mfg	2 years from mfg

Approvals & Listings:

NO LEAD ✓ LEAD-FREE

Requirement 4-90

Standard 61 for potable water

IAPMO listed

Standard 61 for potable water

FGG/BM System Compatible

FGG/BM System Compatible indicates that this product has been tested and is monitored on an ongoing basis to assure its chemical compatibility with FlowGuard Gold® water distribution and Blazemaster® fire sprinkler systems.

Directions for Use:

Clean all pipe threads. Be sure all joints are free from rust, scale, grease or other contamination. Remove any debris with a clean cloth or wire brush. Stir contents throughly and apply evenly to male threads.

Part Number	Description	Size	Color	Ctn Qty
31261	Great Blue Pipe Joint Compound	4 oz.	Blue	12
31262	Great Blue Pipe Joint Compound	8 oz.	Blue	12
31263	Great Blue Pipe Joint Compound	16 oz.	Blue	24
31230	Great White PTFE Pipe Joint Compound	4 oz.	White	12
31231	Great White PTFE Pipe Joint Compound	8 oz.	White	12
31232	Great White PTFE Pipe Joint Compound	16 oz.	White	24
31233	Great White PTFE Pipe Joint Compound	32 oz.	White	12

PVC Solvent Cements

United Elchem
UNI-WELD

PVC REGULAR CLEAR CEMENTS LO-VOC



2200 Series CLEAR

- Regular bodied, clear cement for use on PVC pipe and fittings. Up to 4" for DWV Sch 40 and up to 2" for Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Sets up quickly.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
2256S	8 oz.	24
2246S	16 oz.	24
2236S	32 oz.	12
2224	1 gallon	6

PVC REGULAR CLEAR ADVANCED CEMENTS LO-VOC



2800 Series CLEAR

- Regular bodied, clear cement for use on PVC pipe and fittings. Up to 4" for DWV Sch 40 and up to 2" for Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe, gas, conduit and DWV.
- Sets up quickly.
- Recommended application temperature 40°F to 100°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
2866S	4 oz.	24
2856S	8 oz.	24
2836S	32 oz.	12
2824	1 gallon	6

PVC MEDIUM CLEAR CEMENTS LO-VOC



1200 Series CLEAR

- Medium bodied, clear cement for use on PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, drain, waste and vent pipe, and potable water
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
1256S	8 oz.	24
1246S	16 oz.	24
1236S	32 oz.	12
1224	1 gallon	6

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PVC Solvent Cements

United Elchem
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PVC MEDIUM GRAY CEMENTS LO-VOC



1600 Series
GRAY

- Medium bodied, gray colored cement for use on PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
1636S	32 oz.	12

PVC MEDIUM "HOT" BLUE CEMENTS LO-VOC PLUMB-TITE™



2000 Series
BLUE

- Medium bodied, blue colored cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions and/or quick pressurization and fast installation.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe and DWV.
- Blue color fades to clear in direct sunlight.
- No primer needed on non-pressure DWV, where local codes permit.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
2066S	4 oz.	24
2056S	8 oz.	24
2046S	16 oz.	24
2036S	32 oz.	12

PVC Solvent Cements

United Elchem
UNI-WELD

PVC ALL WEATHER CEMENTS LO-VOC POLAR-WELD



2600 Series
CLEAR

- Medium bodied, clear cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe and DWV.
- Non-pressure DWV, up through 4" diameter: No primer needed, where local codes permit.
- **Formulated for fast initial set-up at temperatures down to -15°F to 110°F.**
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
2656S	8 oz.	24
2646S	16 oz.	24
2636S	32 oz.	12

PVC MEDIUM RAIN-R-SHINE® BLUE CEMENTS LO-VOC



308 Series
BLUE

- Medium bodied, blue colored cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions and/or quick pressurization and fast installation.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Pool/Irrigation installations.
- **No primer needed on non-pressure DWV, where local codes permit.**
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
30890	4 oz.	24
30891	8 oz.	24
30893	16 oz.	24
30894	32 oz.	12
30895	1 gallon	6

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PVC Solvent Cements

United Elchem
UNI-WELD

PVC MEDIUM "HOT" BLUE CEMENTS LO-VOC TURF-TITE



2400 Series BLUE

- Medium bodied, blue colored cement for PVC pipe and fitting. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions and/or quick pressurization and fast installation.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe and DWV.
- Irrigation installations.
- Fades to clear in sunlight.
- No primer needed on non-pressure DWV, where local codes permit.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
2466S	4 oz.	24
2456S	8 oz.	24
2446S	16 oz.	24
2436S	32 oz.	12

PVC MEDIUM "HOT" BLUE CEMENTS LO-VOC POOL-TITE



2300 Series BLUE

- Medium bodied, blue colored cement for PVC pipe and fittings. Up to 6" for Sch 40 and Sch 80.
- **Very fast setting cement formulated for wet conditions.**
- Recommended for ALL grades and types of PVC pipe and fittings, potable water, pressure pipe, gas, conduit, PVC flex pipe and DWV.
- **Color fades to clear in sunlight.**
- **No primer needed on non-pressure DWV, where local codes permit.**
- Recommended application temperature 40°F to 100°F.
- Works on flex to rigid pipe applications.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
2366S	4 oz.	24
2356S	8 oz.	24
2346S	16 oz.	24
2336S	32 oz.	12
2324	1 gallon	6

PVC, CPVC Solvent Cements

United Elchem
UNI-WELD

PVC MEDIUM CLEAR FAST SET CEMENTS LO-VOCPOOL-CLEAR



2900 Series
CLEAR

- Medium bodied, clear cement for PVC pipe and fitting. Up to 6"
- Recommended for Sch 40 and Sch 80 pipe and fittings.
- Also recommended for PVC flex pipe.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
30875	4 oz.	24
2946S	16 oz.	24
2936S	32 oz.	12

CPVC MEDIUM ORANGE CEMENTS LO-VOC



3200 Series
ORANGE

- Medium bodied, orange colored cement for use on CPVC pipe and fittings. Up to 6".
- For copper tube size (CTS) and Sch 80, potable water pressure pipe.
- Recommended application temperatures down to 40°F to 110°F.
- Meets ASTM F-493.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
3256S	8 oz.	24
3236S	32 oz.	12

CPVC FLOWGUARD® GOLD™ LO-VOC 1-STEP YELLOW CEMENTS



319 Series

- Exceeds new environmental requirements and meets various CA district rules.
- For copper tube size (CTS) CPVC hot and cold potable water pipe and fittings up to 2" interference fit only.
- May be used without primer where local codes permit.
- For cold water systems and hot water systems up to 180°F.
- Faster cure time/reduced installation time.
- Meets ASTM F-493.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
31910	4 oz.	24
31911	8 oz.	24
31912	16 oz.	24

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PVC and Multipurpose Solvent Cements

United Elchem
UNI-WELD

PVC HEAVY DUTY CLEAR CEMENTS LO-VOC



1500 Series
CLEAR

- Heavy bodied, clear cement for PVC pipe and fittings. Up to 18" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Thick formula fills gaps in large diameter pipe and loose fitting joints.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
1546S	16 oz.	24
1536S	32 oz.	12
1524	1 gallon	6

PVC HEAVY DUTY GRAY CEMENTS LO-VOC



1700 Series
GRAY

- Heavy bodied, gray colored cement for use on PVC pipe and fittings. Up to 18" for Sch 40 and Sch 80.
- Recommended for ALL grades and types of PVC pipe and fittings, potable water and DWV.
- Thick formula fills gaps in large diameter pipe and fitting.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-2564.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
1746S	16 oz.	24
1736S	32 oz.	12
1724	1 gallon	6

ALL PURPOSE MEDIUM MILKY CLEAR CEMENTS LO-VOC



308 Series
MILKY CLEAR

- Medium bodied, milky clear cement for **ABS, PVC or CPVC** up to 6".
- Recommended for pipe and fittings Sch 40 and Sch 80, potable water, conduit pipe and DWV.
- Recommended application temperature 40°F to 110°F.
- Meets performance requirements of ASTM D-2564, D-2235, F-493.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
30818	4 oz.	24
30821	8 oz.	24
30834	16 oz.	24
30847	32 oz.	12

ABS Solvent Cements

United Elchem
UNI-WELD

ABS MEDIUM BLACK CEMENTS LO-VOC



4400 Series BLACK

- Medium bodied, black cement for ABS pipe and fittings. Up to 6".
- For ALL types and grades or ABS pipe and fittings for DWV.
- **For all non-pressure applications.**
- Recommended application temperatures 40°F to 110°F.
- Meets ASTM D-2235.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
4466S	4 oz.	24
4436S	32 oz.	12

ABS TO PVC TRANSITION GREEN CEMENTS LO-VOC



309 Series GREEN

- Medium bodied, green colored cement for use in joining **ABS to PVC in non-pressure transition joints.**
- All schedules up to 6" pipe fittings.
- Recommended application temperature 40°F to 110°F.
- Meets ASTM D-3138.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
30900	4 oz.	24
30925	16 oz.	24
30926	32 oz.	12

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Primers

United Elchem
UNI-WELD

CLEAR PRIMER - NSF LISTED LO-VOC



9300 Series
CLEAR

- A clear aggresive primer for use on PVC and CPVC pipe and fittings.
- All schedules and diameters.
- Removes all surface dirt, grease and grime as well as softens pipe to allow a fast, secure solvent weld.
- Meets ASTM F-656.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
9366S	4 oz.	24
9356S	8 oz.	24
9346S	16 oz.	24
9336S	32 oz.	12
9324	1 gallon	6

PURPLE PRIMER - NSF LISTED LO-VOC



8700 Series
PURPLE

- A purple tinted aggresive primer for use on PVC and CPVC pipe and fittings.
- **Exceeds new environmental requirements and meets various CA district rules.**
- For use in areas where plumbing code calls for verification that a primer has been used.
- Removes all surface dirt, grease and grime as well as softens pipe to allow a fast, secure solvent weld.

Part Number	Size	Case Qty
8766S	4 oz.	24
8756S	8 oz.	24
8746S	16 oz.	24
8736S	32 oz.	12
8724	1 gallon	6

BLUE PRIMER - NSF LISTED LO-VOC PRIME-TITE™



8000 Series
BLUE

- A blue-tinted aggresive primer for use on PVC and CPVC pipe and fittings.
- **Blue color fades to clear in direct sunlight.**
- Formulated to work with "TITE" products.
- Meets ASTM F-656.
- Meets California Air Quality Management District and other environmental disctict rules.

Part Number	Size	Case Qty
8046S	16 oz.	24
8036S	32 oz.	12

Primers and Cleaners

United Elchem
UNI-WELD

PURPLE PRIMER/CLEANER LO-VOC



307 Series
PURPLE

- Purple tinted all purpose primer/cleaner for PVC and CPVC pipe and fittings.
- Removes surface dirt, grease and grime as well as softens pipe to allow a fast, secure solvent weld.
- Less aggressive than clear primer and purple primer.
- Purple tint for verification for code.
- **Exceeds new environmental requirements and meets various CA district rules.**

Part Number	Size	Case Qty
30780	4 oz.	24
30783	8 oz.	24
30796	16 oz.	24
30806	32 oz.	12
30768	1 gallon	6

CLEANER LO-VOC



7300 Series
CLEAR

- Clear cleaner for ABS, PVC and CPVC pipe and fittings.
- All schedules and diameters.
- **Exceeds new environmental requirements and meets various CA district rules.**
- Fast-acting cleaner removes surface dirt, grease and grime.
- Flows freely and evaporates quickly.

Part Number	Size	Case Qty
7366S	4 oz.	24
7356S	8 oz.	24
7346S	16 oz.	24
7336S	32 oz.	12
7324	1 gallon	6

DAUBERS, APPLICATORS and EMPTY CANS





31275



31276

- Replacement product daubers and applicators.
- Reusable cone top metal containers.

Part Number	Size	Case Qty
DAUBERS & APPLICATOR		
31312	Dauber 32 oz quart can	48
31310	Dauber 16 oz pint can	48
31309	Duaber 8 oz 1/2 pint can	24
31275	Roller applicator gallon can	12
31276	Swab applicator gallon can	12

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Ph: 800-776-2266 Fax: 800-729-3299

SUPER LUBE®
DEVCON/PERMATEX®



Devcon/Permatex® Industrial Products 7-8
Super Lube® 1-6

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Lubricants - Super Lube®



Super Lube® is a patented, multi-purpose synthetic lubricant, containing SYNCOLON® (PTFE) particles held in suspension. Super Lube lasts longer and outperforms convential petroleum-based greases and oils. Packaging includes tubes, grease cartridges, aerosols, bottles, pails and drums.

How does the chemistry of SuperLube differ from conventional petroleum-based greases and mineral oils? Super Lube grease and oils are exceptionally pure lubricants because they are synthetic. This gives SuperLube very stable and predictable chemical properties. Petroleum-based machine and gear oils are made from refined crude oil and contain impurities which cannot be removed. These impurities interfere with film strength and wear protection. They also form deposits at high temperatures and solidify at low temperatures. Petroleum-based greases are formulated by adding lithium, calcium or sodium thickeners to petroleum-based oil.



31110

Super Lube Aerosol

A multi-purpose PTFE based synthetic lubricant available in aerosol form. Super Lube aerosol disperses and penetrates while lubricating & loosening rust and dirt. Super Lube aerosol offers continuous protection as it "sets up" and forms a grease film barrier that defends against oxidation. This barrier helps extend the life of equipment and reduces maintenance.

Super Lube Non-Aerosol Pump

Because of environmental concerns, many industrial facilities do not allow the use of aerosol products. Super Lube Oil with PTFE is available in a one quart trigger spray container to address these needs.



51600

Benefits:

- Synthetic with PTFE
- Provides more reliable lubrication and outlasts petroleum based greases & oils
- Non-toxic, odorless
- USDA H--1 for use in federally inspected meat & poultry plants.
- Remains free flowing in freezing temperatures
- High dielectric strength
- Water and saltwater waterproof
- Will not stain or harm wood, rubber, leather, plastics, fabric & paint
- Won't drip, run or evaporate
- 1A copper corrosion
- Excellent salt spray performance
- Repels dirt, dust, grit and grime
- Prevents rust and corrosion while reducing friction
- Reduces maintenance for longer machinery life

Applications:

- Plain & anti-friction bearings
- Ball & roller bearings
- Wheel bearings
- Chassis points
- Fifth wheels
- Electric motor bearings
- Disc brake assemblies
- Pumps
- Blowers
- Cams
- Slides
- Conveyors
- Chains
- Water pumps
- Valves
- Open gears

NO LEAD
LEAD-FREE

Super Lube ® and SYNCOLON ® are trademarks of SYNCO Chemical Corp.

Part Number (old)	Description	Case Qty
31110 (20029)	11 oz. aerosol	12
51600 (24575)	32 oz. non-aerosol trigger spray	12

Lubricants - Super Lube®

Super Lube Dri Lube (Dri-Film)



11016

NO LEAD ✓ LEAD-FREE

Super Lube Dri Lube is a self-cleaning lubricant that actually cleans while lubricating. Super Lube Dri-Lube leaves behind a protective shield lubricant that will not attract dust. The dry coating provides a low coefficient of friction which gives excellent lubrication and release properties. Dri-Lube can be used on wood, metal and most plastics not under stress and has excellent thermal and chemical stability, forming a natural insulating barrier when used on electronics.

Benefits:
- Clean, non-staining
- For uses from -40°F to +500°F
- Non-conducting
- Easy to use
- Resists acid attacks
- Dries on contact
- Effective mold release agent
- Not affected by oil, water or solvents
- Long lasting lubrication
- Cleans while lubricating
- Stops squeaking, sticking
- Prevents corrosion

Applications:
- Industrial slides and glides
- High speed machinery
- Precision instruments
- Door and trunk hinges
- Pipe fittings
- Electronic & electrical equipment
- Chains
- Tools
- Zippers
- Lock cylinders
- Rusted nuts and bolts
- Cable pivots

Part Number	Description	Case Qty
11016	11 oz. aerosol	12

Super Lube Oil with PTFE



51010SL



51040

Super Lube Oil with PTFE is a premium synthetic oil with suspended PTFE particles that bond to surfaces to add lubricity to moving parts. Super Lube Oil with PTFE is used for applications which allow parts to be confined (ie. gear box). Use it as a general purpose lubricant for industrial machinery and equipment. Super Lube Oil with PTFE provides long life protection against friction, wear, rust and corrosion. Machinery lasts longer, downtime is reduced, and productivity is increased. Super Lube Oil with PTFE is safe on metal, rubber, plastic, wood, leather, fabric & painted surfaces.

Benefits:
- Waterproof
- Non-toxic (USDA rating H1)
- Synthetic with PTFE
- Reduces friction and wear
- Extends machinery & equipment life
- Reduces maintenance
- Viscosity stable
- Long-lasting

Applications:
- Plain, anti-friction & roller bearings
- Enclosed industrial gears
- Enclosed chains
- Gearhead motors
- Paper machines
- Conveyors
- Machine ways
- Reciprocating compressor lubricant additive
- Machine tools
- Centralized systems
- Straight, helical, bevel & spiral gears

Typical Properties:
Color: Translucent white
Viscosity tested to ASTM D445
cSt@ 100°F: 14-17
cSt @ 40°F: 118-122
ISO grade: 220
Replaces ISO grade: 150-320
Replaces SAE grade gear oils: 90
Viscosity index: 145
Shelf Life: 24 months

Part Number (old)	Description	Case Qty
51010SL (82333)	7 ml precision oiler	12
51040 (82334)	1 gallon	4

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72350 21030

NO LEAD LEAD-FREE

TYPICAL PROPERTIES
Color: Translucent white
Operating Temperature Range: -45° to 450°F
NLGI Grade (ASTM D1092): 2
Dropping point (ASTM D566): >500°F (260C)
Four ball test (ASTM D2783):
Load wear index: 81.73 kg
Weld point: 400 kg
Oxidation stability 100 hrs. (ASTM D942): 0 psi
Wheel bearing leakage (ASTM D1263): 0.2g
Copper corrosion 24 hrs @ 100°C (ASTM D4048): 1B, shiny
Shelf life: 24 months

Super Lube Grease

NSF

Super Lube

Super Lube is a patented synthetic NLGI grade 2 heavy-duty, multi-purpose lubricant with PTFE. Synthetic base fluids and the addition of PTFE micro powders combine to form a premium lubricant that provides long life protection against friction, wear, rust and corrosion. Machinery lasts longer, downtime is reduced, and productivity is increased.

Super Lube is a USDA listed Food Grade Lubricant, rated H1 for incidental food contact. Super Lube will not run or drip, does not evaporate or form gummy deposits and will not dry out, melt or separate.

Super Lube is a synthetic, heavy duty lubricant that is compatible with most other lubricants. Super Lube Grease outlasts conventional greases 50-100% and has excellent adhesion.

Benefits:
- Clean
- Non-toxic
- Non-staining
- Dielectric
- USDA Rating H1
- Will not drip, run or evaporate
- Impervious to salt water, safe in potable water
- Long lasting
- Prevents rust & corrosion while reducing friction
- Compatible with conventional lubricants
- Repels dirt, dust, grit & grime
- Extends machinery and equipment life
- Reduces maintenance while saving time & money
- Reduces friction and wear
- Will not stain or harm wood, rubber, leather, plastic, fabrics and paint.

Super Lube Grease Replaces
- Lithium, Bentone, Calcium or Aluminim complex grease
- High & low temperature greases
- Electric motor grease
- Food grade grease
- Bearing, wheel bearing grease
- Multi-purpose grease
- Dielectric grease
- Valve sealant
- O-ring lubricant

Applications:
- Plain and anti-friction bearings
- Ball and roller bearings
- Wheel bearings
- Chassis points
- Fifth wheels
- Electric motor bearings
- Disc brake assemblies
- Pumps
- Blowers
- Cams
- Slides
- Conveyors
- Chains
- Water pumps
- Valves
- Open gears
- Switch assemblies
- Cables
- Fans
- Electronic equipment
- Deep drawing application

Part Number (old)	Description	Case Qty
21010 (82324)	1/2 oz. tube	12
21030 (82325)	3 oz. tube	12
72350 (41150)	400 g cartridge	12
41160 (82329)	400 g jar	12
41050 (82330)	5 lb. pail	4
41030 (82331)	30 lb. pail	1

Lubricants - Super Lube®



NO LEAD LEAD-FREE

Super Lube Air Tool Lubricant

Super Lube Air Tool Lubricant is formulated to meet the special requirements for industrial, household and agricultural tools. It absorbs water and eliminates any ice buildup and frost in air tools. Blended rust and corrosion inhibitors and a special base fluid oil minimizes wear and allows operation of air tools at temperatures as low as -40°F.

Applications:

- Air impact tools
- Drills
- Grinders
- Screwdrivers
- Sanders
- Percussion tools
- Household shop tools
- All air tool oil lubricated

Benefits:

- Wide temperture range
- Works on types of pneumatic equipment
- Prevents rust and corrosion
- Can be used as a light oil
- Gives worn tools new life
- Less friction and wear
- Protects against corrosives
- Less tendancy for bubbles
- Absorbs moisture
- Eliminates ice buildup and frost in air tools.

Part Number	Description	Case Qty
12004	4 oz. bottle	6
12016	16 oz. bottle	12



NO LEAD LEAD-FREE

Super Lube Syncopen

Super LubeSynthetic Penetrant is a super fast acting, penetrating, synthetic oil that cuts through rust or corrosion. Syncopen penetrates hard to reach areas to allow easy removal of rusted and corroded screws, nuts or bolts. Syncopen penetrates, lubricates and leaves a protective film to help prevent future rusting or corrosion.

Benefits:

- Cleans and Penetrates
- Loosens rusted parts
- Frees sticky mechanisms
- Stops squeaks
- Protects against rust & corrosion
- Drives out moisture
- Leaves a protective lubricating film

Typical Properties:

TEST	METHOD	SYNCOPEN
Color		Translucent Brown
Specific Gravity	ASTM D1298	.85
Pour Point	ASTM D97	-40°F
Salt Spray Test (500 hrs)	ASTM B117	Pass
Copper Corrosion 24 hrs @ 100°C	ASTM D130	1A
USDA Rating	NSF	H1
Shelf Life		24 months

Part Number	Description	Case Qty
85011	11 oz. aerosol	12
85010	1 gallon	4

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Lubricants - Super Lube®



Counter Display

NO LEAD ✓ LEAD-FREE

Super Lube Grease w/ PTFE Counter dislay

- Packaged in a cardboard counter display
- Contains 40, 1/2 oz. tubes Super Lube w/ PTFE grease

Super Lube Precision Oiler w/ PTFE Counter display

- Packaged in a cardboard counter display
- Contains 48, 7 ml precision oiler pens of Super Lube w/ PTFE

Part Number	Description	Display Qty
21013	Counter display w/ Grease	40
51013	Counter display w/ Oiler	48

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Permatex/Devcon Industrial Products



Permatex and Devcon Industrial Products

We offer a full line of Permatex and Devcon industrial products from ITW. Threadlockers, threadsealants, gasketing products, lubricants, Fast Orange hand cleaners, putty and epoxies. Our stock offering is shown below. Contact Customer Service for price and availability of additional items.

Part No.	Product Description	Case Qty
09128	PERMATEX® Copper Anti-Seize Lubricant - 8 oz. brush top bottle	6
23218	PERMATEX® FAST ORANGE® Hand Cleaner (Smooth Lotion) - 1 gal. plastic bottle pump	4
24010	PERMATEX® Medium Strength Threadlocker Blue GEL - 10 gm GEL TWIST™ tube carded	6
24105	PERMATEX® ULTRA BLACK® Max Oil Resistance Gasket Maker - 13 oz. cartridge	12
24210	PERMATEX® Medium Strength Threadlocker Blue - 10 ml bottle, carded	6
24250	PERMATEX® Medium Strength Threadlocker Blue - 50 ml bottle	6
25219	PERMATEX® FAST ORANGE® Hand Cleaner (Pumice Lotion) - 1 gal. plastic bottle pump	4
25224	PERMATEX® THE RIGHT STUFF® Instant Rubber Gasket Maker - 7 oz net wt. pressurized can	6
26210	PERMATEX® Permanent Strength Threadlocker Red - 10 ml bottle, carded	6
26250	PERMATEX® Permanent Strength Threadlocker Red - 50 ml bottle	6
27010	PERMATEX® High Strength Threadlocker Red GEL - 10 gm GEL TWIST™ tube, carded	6
27110	PERMATEX® High Strength Threadlocker Red - 10 ml bottle, carded	6
27150	PERMATEX® High Strength Threadlocker Red - 50 ml bottle	6
31163	PERMATEX® Copper Anti-Seize Lubricant - 1 lb. bottle	12
33694	PERMATEX® THE RIGHT STUFF® Instant Rubber Gasket Maker - 10.1 fl. oz. cartridge	6
51531	PERMATEX® Anaerobic Flange Sealant - 50 ml tube	10
51813	PERMATEX® Anaerobic Gasket Maker - 50 ml tube, carded	6
54550	PERMATEX® Pneumatic / Hydraulic Sealant - 50 ml bottle	6
56521	PERMATEX® High Performance Thread Sealant - 50 ml tube, carded	6
56750	PERMATEX® Maximum Temperature Thread Sealant - 50 ml tube, carded	6
68050	PERMATEX® Bearing Mount for Relaxed Fits - 50 ml bottle	6
70350	PERMATEX® ZipGrip® GPE 30 All Purpose - 1 oz. bottle	10
77124	PERMATEX® #771 Nickel Anti-Seize (Maximum Temperature) - 8 oz. brush top bottle	12
77164	PERMATEX® #771 Nickel Anti-Seize (Maximum Temperature) - 1 lb. brush top bottle	10
80003	PERMATEX® FORM-A-GASKET® #1 Sealant - 11 oz. tube, boxed	12
80011	PERMATEX® FORM-A-GASKET® #2 Sealant - 11 oz. tube, boxed	12
80016	PERMATEX® FORM-A-GASKET® #2 Sealant - 3 oz. tube, carded	12
80017	PERMATEX® Aviation FORM-A-GASKET® #3 Sealant - 16 fl. oz. bottle	12
80045	PERMATEX® #51 Pipe Joint Compound (N/A in California) - 16 oz. bottle	12
80050	PERMATEX® #66 Clear Silicone Adhesive Sealant - 3 oz. tube, carded	12
80071	PERMATEX® #133 Anti-Seize Lubricant - 4 oz. brush top bottle	12
80078	PERMATEX® #133 Anti-Seize Lubricant - 8 oz. brush top bottle	12
80208	PERMATEX® #767 Anti-Seize Lubricant - 1 lb. brush top bottle	12

Permatex/Devcon Industrial Products

Part No.	Product Description	Case Qty
80628	PERMATEX® #6 Sensor Safe Blue LO RTV Silicone Gasket Maker - 12.9 oz. cartridge	12
80632	PERMATEX® #14 Thread Sealant with TEFLON® - 4 oz. bottle	12
80633	PERMATEX® #14 Thread Sealant with TEFLON® - 16 oz. bottle	12
80855	PERMATEX® #66 Clear Silicone Adhesive Sealant - 11 oz. cartridge	12
81173	PERMATEX® #16 Black LO Silicone Adhesive Sealant - 12.9 oz. cartridge	12
81409	PERMATEX® #26 High-Temp RTV Silicone Gasket Maker - 11 oz. cartridge	12
81724	PERMATEX® #77 ULTRA BLUE® Multi-Purpose Gasket Maker - 3.35 oz. tube, carded	12
81725	PERMATEX® #77 ULTRA BLUE® Multi-Purpose Gasket Maker - 13 oz. cartridge	12
81878	PERMATEX® #101 ULTRA COPPER® Maximum Temp Gasket Maker - 3 oz. tube, carded	12
82180	PERMATEX® ULTRA BLACK® Max Oil Resistance Gasket Maker - 3.35 oz. tube, carded	12
82194	PERMATEX® #599 ULTRA GREY® Rigid Assembly Gasket Maker - 3.5 oz. tube, carded	12
85080	PERMATEX® ULTRA BLACK® Max Oil Resistance Gasket Maker - 9.5 oz net wt. PowerBead™ can	6
85224	PERMATEX® THE RIGHT STUFF® Instant Rubber Gasket Maker - 7.5 oz net wt. PowerBead™ can	6
85913	PERMATEX® #66 Clear Silicone Adhesive Sealant - 7.25 oz net wt. PowerBead™ can	6
85915	PERMATEX® #26 High-Temp RTV Silicone Gasket Maker - 7.25 oz net wt. PowerBead™ can	6
10110	DEVCON® Plastic Steel® Putty (A) - 1 lb	6
10210	DEVCON® Plastic Steel® Liquid (B) - 1 lb	6
10610	DEVCON® Aluminum Putty (F) - 1 lb	6
10710	DEVCON® Aluminum Liquid (F-2) - 1 lb	6
10760	DEVCON® Titanium Putty - 1 lb	6
11490	DEVCON® Wear Guard™ High Load - 30 lb	1
11760	DEVCON® Brushable Ceramic red - 2 lb	6
13100	DEVCON® Floor Patch™ - 10 lb	1
14200	DEVCON® 5 Minute® Epoxy (1-1) - 15 oz	6
14210	DEVCON® 5 Minute® Epoxy (1-1) - 2.5 oz	24
14240	DEVCON® 5 Minute® Epoxy Gel opaque (1-1) - 25ml Dev-Tube™	24
14250	DEVCON® 5 Minute® Epoxy (1-1) - 25ml Dev-Tube™	24
14251	DEVCON® 10 Minute™ Epoxy clear (1-1) - 50ml	12
14255	DEVCON® 10 Minute™ Epoxy Black (1-1) - 50ml	12
14280	DEVCON® Mark V™ Gun (1-1 and 10-1 ratio) - use with 50ml - Applicator Gun	1
14285	DEVCON® Mark V™ 1-1 Mix Nozzle for 50ml - Mix Nozzle	12
14300	PLEXUS® MA300™ straw [1-1] - 25ml Dev-Tube™	24
14310	DEVCON® 2 Ton® Epoxy (1-1) - 25ml Dev-Tube™	24
14320	PLEXUS® MA300 - 50ml 1:1 Ratio Twin Cartridge- Cream 30500	12
15250	DEVCON® Flexane® 94 Liquid - 1 lb	6
19510	DEVCON® Cleaner Blend 300 - 1 pt	6
DA291	DEVCON® Plastic Welder™ white (1-1) - 47ml	12

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FLO CONTROL® / NDS® FITTINGS, VALVES & DRAINAGE

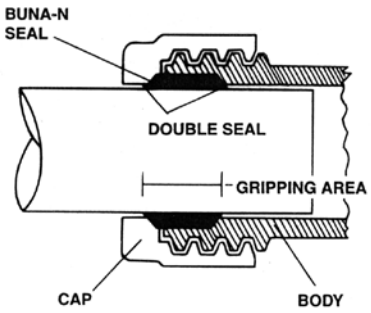


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PVC Compression Fittings - IPS

STANDARD COMPRESSION

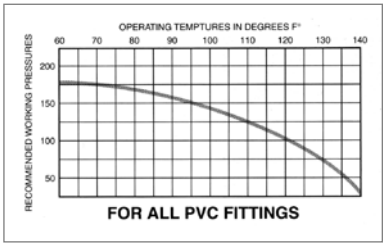


PVC Compression Fitting Features:

- Iron pipe size
- For use with cold water only.
- Buna-N gasket seals
- Rated at 150 PSI static pressure @ 72°F

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

Certified to NSF/ANSI 61+372



NEW Part Number	OLD Part Number	IPS Size	Body Length	Ctn Qty
PVC IPS Compression Couplings, comp x comp				
CPC0500	110-05	1/2"	4"	28
CPC0750	110-07	3/4"	4-1/4"	24
CPC1000	110-10	1"	4-1/2"	15
CPC1250	110-12	1-1/4"	5"	10
CPC1500	110-15	1-1/2"	5-1/2"	16
CPC2000	110-20	2"	6"	12
CPC2500	110-25	2-1/2"	8"	3
CPC3000	110-30	3"	9"	3
CPC4000	110-40	4"	10"	3
CPC6000	110-60	6"	10"	1



CPC Series IPS — NSF/ANSI 61+372 — UPC

PVC IPS Threaded Tee, comp x comp x fipt				
CPT0500T	120-05	1/2"	4"	24
CPT0750T	120-07	3/4"	4-1/4"	20
CPT1000T	120-10	1"	4-1/2"	15
CPT1250T	120-12	1-1/4"	5"	15
CPT1500T	120-15	1-1/2"	5-1/2"	12
CPT2000T	120-20	2"	6"	10



CPT-T Series IPS — NSF/ANSI 61+372

PVC IPS Slip Tees, comp x comp x slip				
CPT0750S	121-07	3/4"	4-1/4"	20
CPT1000S	121-10	1"	4-1/2"	15
CPT1250S	121-12	1-1/4"	5"	15
CPT1500S	121-15	1-1/2"	5-1/2"	12
CPT2000S	121-20	2"	6"	10



CPT-S Series IPS — NSF/ANSI 61+372 — UPC

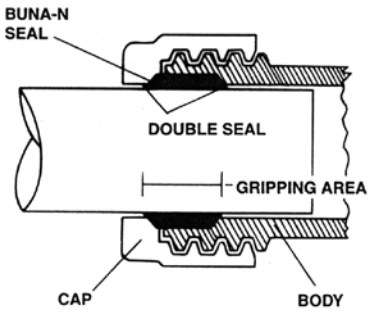
PVC IPS Male Adapter, comp x mipt				
CPA0750	130-07	3/4"	2 7/8"	20
CPA1000	130-10	1"	3 1/8"	30
CPA1250	130-12	1-1/4"	3 5/16"	20
CPA1500	130-15	1-1/2"	3 1/2"	16
CPA2000	130-20	2"	3 3/4"	12



CPA Series IPS — NSF/ANSI 61+372 — UPC

PVC Compression Fittings - IPS, CTS

STANDARD COMPRESSION

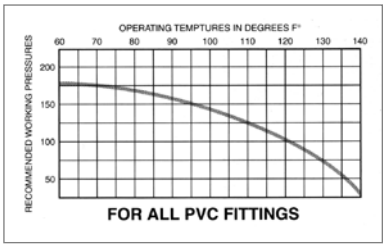


PVC Compression Fitting Features:

- Iron pipe size
- For use with cold water only.
- Buna-N gasket seals
- Rated at 150 PSI static pressure @ 72°F

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

Certified to NSF/ANSI 61+372





CCC Series CTS

NSF/ANSI 61+372

UPC



CCT Series CTS

NSF/ANSI 61+372

NEW Part Number	Previous Part Number	CTS Size	Body Length	Ctn Qty
PVC CTS Compression Coupling, comp x comp				
CCC0500	210-05	1/2"	4"	25
CCC0750	210-07	3/4"	4"	28
CCC1000	210-10	1"	4-1/4"	24
PVC CTS Threaded Tee, comp x comp x fipt				
CCT0750	220-07	3/4"	4"	24
CCT2000	220-20	2"	6"	10

TECHNICAL DATA
FOR ALL FLO CONTROL FITTINGS & VALVES

1. PVC MATERIAL SPECIFICATION: PVC Type I, Grade I, Cell class 12454-B meeting requirements of ASTM D-1784-75 is used in the manufacturing of all fittings recommended for use of potable cold water (see temperature vs. pressure chart). Not recommended for use on systems exceeding 100 psi @ 120°F.

2. CPVC MATERIAL SPECIFICATION: CPVC Type IV, Grade I, cell Class 23447-B meeting requirements of ASTM D-1784-75 is used in the manufacturing of all fittings recommended for use on potable hot water systems in accordance with ASTM D-2846-73. Not recommended for use on systems that will exceed 100 psi @ 180°F.

3. BUNA-N SEALS: The gasket seal material is made of high quality Buna-N elastomeric compound which meets the requirements of ASTM D-2000. It is generally resistant to many hydrocarbons, fats, oils, greases, hydraulic fluids and chemicals. It is generally attacked by Ozone, Ketones, Esters, Aldehydes, chlorinated and nitro hydrocarbons. Reference chemical resistance under NBR (Nitrile) elastomers for specific listings.

4. EPDM O-RINGS: The o-ring material is made of high quality EPDM (Ethylene Popylene Copolymer) which meets the requirements of ASTM D-2000. EPDM has exceptionally goood weather aging and ozone resistance, excellent water and chemical resitance and excellent aging resistance for most applications. EPDM is a polymer where oil and solvent resistance is poor. However, it is fairly good in ketones and alcohols. Reference chemical resistance under EPDM, EPT or EPR Elastomers for specific listings.

5. DOUBLE SEAL of standard compression fittings. A compressive action is created as the cap is tightened squeezing the Buna-N seals into the tapered recessed areas of the cap and body. This process creates a highly concentrated pressure at the two "double seal" points, thus providing positive protection against leakage.

6. COMPRESSION CONNECTIONS: Compression cap should be drawn up hand tight to insure proper alignment and seating of gasket, then tighten 3/4 to 1 turn with a Flo Spanner Wrench of strap wrench. Average torque should be approximately 25 foot pounds on 1/2" through 2" IPS and 35 foot pounds on 2 1/2" and larger. Compression fittings are not recommended for use on compressed air lines or natual gas lines.

7. THREAD CONNECTIONS: Use PTFE thread seal tape on all IPS thread connections. IPS thread connections should be made hand tight plus 1/2 to 3/4 turn with a wrench.

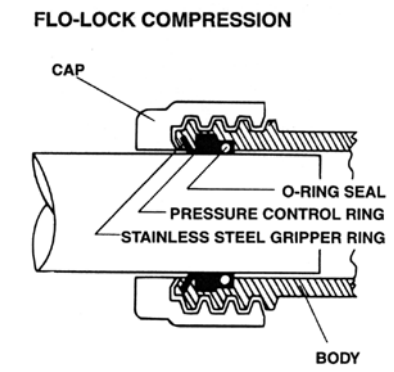
8**. THRUST BLOCKING**: When installing the standard compression seal fittings the pipe line must be restrained from lateral movement by thorough soil compaction on straight runs and thrust blocking at change of direction ro reduction in size. Not recommended for use on pipe lines suspended on hangers.

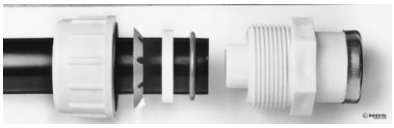
9. FLO LOCK COMPRESSION ADAPTERS: Recommended for use on PVC pipe with wall thickness of SDR-26, Class 160 or greater and copper tubing. Not recommended for use on galvanized pipe unless surface is sanded smooth. The gripper ring is made of stainless steel.

10. ALL SPRINGS made of Series 300 stainless steel.

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Flo-Lock Fittings - PVC & CPVC





PVC/CPVC Flo-Lock Fitting Features:

- Iron pipe and copper tube size
- For cold (PVC) or hot (CPVC) water use.
- Built in stiffener to insure grip.
- EPDM o-ring seal
- PVC ring for controlling o-ring pressure.
- Stainless steel gripping ring prevents pull-out.
- Rated at 160 psi static pressure @ 72°F.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372 | NSF Certified to NSF/ANSI 61+372 | UPC



135 Series IPS

NSF/ANSI 61+372

UPC

Part Number	IPS Size	IPS Connection	Ctn Qty
PVC IPS Male Adapter with Flo-Lock, flo lock x mipt			
135-05	1/2"	1/2" mipt	25
135-07	3/4"	3/4"mipt	20
135-10	1"	1" mipt	30
135-12	1-1/4"	1-1/4" mipt	20
135-15	1-1/2"	1-1/2" mipt	16
135-20	2"	2" mipt	12



136 Series IPS

NSF/ANSI 61+372

Part Number	IPS Size	IPS Connection	Ctn Qty
PVC IPS Female Adapter with Flo-Lock, flo lock x fipt			
136-05	1/2"	1/2" fipt	25
136-07	3/4"	3/4" fipt	20
136-10	1"	1" fipt	14



235 Series CTS

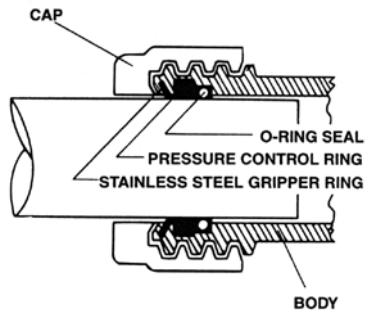
NSF/ANSI 61+372

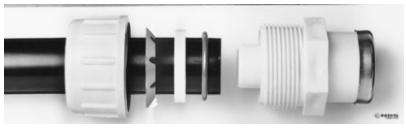
UPC
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Part Number	CTS Size	IPS Connection	Ctn Qty
PVC CTS Male Adapter with Flo-Lock, flo lock x mipt			
235-05	1/2"	1/2" mipt	50
235-10	1"	1" mipt	18
235-20 *	2"	2" mipt	12

PVC Flo-Lock Fittings - SDR9 polyethylene pipe

FLO-LOCK COMPRESSION





NSF LISTED SE-14: ALL
Compression fittings are listed by the National Sanitation Foundation as acceptable for use with potable water.

PVC Flo-Lock Series 700 Features:

- For water service line installations.
- Use on polyethylene pipe - tube size SDR-9, ASTM 2737.
- Reliable connections for polyethylene or copper tube.
- PVC type I material - 160 psi at 72°F.
- Dry pull test exceeds 400 psi.
- Quick burst test exceeds 600 psi.
- Stainless steel band to reinforce female thread.
- Not for use with compressed air or natual gas lines.

NO LEAD < 0.25% Pb by weighted avg — Third Party Certified to NSF / ANSI 372

NSF Certified to NSF/ANSI 61+372

UPC

IAPMO LISTED: Listed by the International Association of Plumbing and Mechanical Officials Research Committee as meeting the requirements set forth by the Uniform Plumbing Code for potable water systems. * Female threaded fittings are no longer IAPMO approved.

Series 700 Fittings for:
Polyethylene tubing SDR-9 CTS - OD - ASTM-2666 & ASTM-2737 dimensions.

Tubing Size	Nominal OD	Nominal ID	Pressure Rating - PSI
3/4"	0.875	0.675	160
1"	1.125	0.865	160
1 1/4"	1.375	1.059	160
1 1/2"	1.625	1.253	160
2"	2.125	1.629	160



710 Series — NSF/ANSI 61+372 — UPC



730 Series — NSF/ANSI 61+372 — UPC



731 Series — NSF/ANSI 61+372



733 Series — NSF/ANSI 61+372 — UPC

Part Number	Tube Size	Description	Length	Ctn Qty
PVC Couplings, ts x ts				
710-07	3/4"	3/4" x 3/4"	4"	35
710-10	1"	1" x 1"	4"	24
710-17	1"	SDR9 x 3/4" SDR11	4"	36
710-12	1 1/4"	1 1/4" x 1 1/4"	4 1/2"	15
710-15 ☺	1 1/2"	1 1/2" X 1 1/2"	5"	15
710-20 ☺	2"	2" x 2"	5"	12
PVC Male Adapters, mipt x ts				
730-07	3/4"	3/4" x 3/4"	2 5/8"	25
730-10	1"	1" x 1"	2 7/8"	18
730-15	1 1/2"	1 1/2" x 1 1/2"	3 1/2"	18
730-20 ☺	2"	2" x 2"	3 1/2"	12
730-71	3/4" x 1"	3/4" x 1"	2 7/8"	18
PVC Female Adapters, fipt x ts				
731-07	3/4"	3/4" x 3/4"	2 5/8"	25
731-10	1"	1" x 1"	2 7/8"	15
731-12	1 1/4"	1 1/4" x 1 1/4"	2 7/8	12
731-15	1 1/2"	1 1/2" x 1 1/2"	3 1/2"	18
731-20 ☺	2"	2" x 2"	4"	12
731-71	3/4" x 1"	3/4" x 1"	2 7/8"	15
PVC Spigot Adapters, ips spigot x ts, (For use with Sch 40 PVC tees, ells)				
733-07	3/4"	3/4" x 3/4"	2 7/8"	18
733-10	1"	1" x 1"	2 7/8"	18
733-12	1 1/4"	1 1/4" x 1 1/4"	2 7/8"	12
733-15	1 1/2"	1 1/2" x 1 1/2"	3 1/2"	18
733-20 ☺	2"	2" x 2"	3 1/2"	12
733-71	3/4" x 1"	3/4" x 1"	3 1/2"	18

☺Insert stiffener supplied must be used with this fitting

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Couplings - Pro-Span™ Repair



118 Series

NO LEAD LEAD-FREE

NSF/ANSI 14

Pro-Span™ Expandable Repair Coupling

Features:

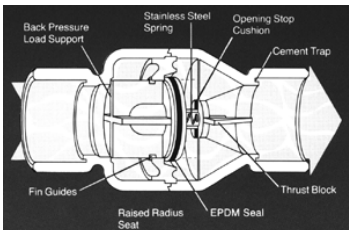
- Double EPDM o-ring seal gives more protection from posible leakage due to deflection of piston in the extended position.
- EPDM o-ring seal also protects against contamination on the cylinder wall.
- Solvent cement trap located in cap to capture excess solvent cement.
- Made from PVC type I grade I material meeting ASTM D-1784
- 118 Series does not have union end.

NEW Part Number	IPS Size	Body Length	Ctn Qty
PVC Flo-Span Expansion Couplings - NO UNION S x SPG			
118-05	1/2"	7 1/2"	28
118-07	3/4"	7 3/4"	24
118-10	1"	9 1/2"	15
118-12	1-1/4"	10 3/4"	10
118-15	1-1/2"	12 3/4"	16
118-20	2"	13 1/2"	12
118-25	2-1/2"	18 3/4"	3
118-30	3"	21"	3
118-40	4"	22 3/4"	3
QF-6000	6" S x S	26 1/4"	1

Check Valves - Flo Control

PVC Spring Check Valve Features:

- To stop backflow and syphoning.
- All water applications.
- Maintenance free operation.
- Tapered valve body design & enlarged valve chamber reduces chatter & turbulence.
- Raised radius valve seat, EPDM Seal for positive seal.
- Stainless steel spring load of 1/2 lb. or 2 lb.
- Solvent weld or male and female thread connections.
- 200 P.S.I. static pressure rating @ 72º F.
- Excess sovent cement trap - Designed to help prevent excess cement or softened material from entering into the body and sealing area during installation.
- NSF/ANSI 61+372.



NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

Certified to NSF/ANSI 61+372



1001, 1011, 1012 Series

NSF/ANSI 61+372

Part Number	IPS Size	Body Length	Ctn Qty
PVC Spring Check Valves (fipt x fipt)		**Spring Tension 1/2 lb**	
1001-05	1/2"	4-1/8"	20
1001-07	3/4"	4-1/8"	20
1001-10	1"	5-1/4"	20
1001-12	1-1/4"	6-3/16"	15
1001-15	1-1/2"	6-3/16"	15
1001-20	2"	7"	10



1011C Series

NSF/ANSI 61+372

PVC Spring Check Valves (slip x slip)		**Spring Tension 1/2 lb**	
1011-05	1/2"	4-/18"	20
1011-07	3/4"	4-1/8"	20
1011-10	1"	5-1/4"	20
1011-12	1-1/4"	6-3/16	15
1011-15	1-1/2"	6-3/16"	15
1011-20	2"	7"	10
1011-30	3"		8
Clear			
1011C-20	2"	7"	10

NSF/ANSI 61+372

PVC Spring Check Valve, (slip x slip)		**Spring Tension 2 lbs.**	
1012-10	1"		20
1012-12	1-1/4"		15
1012-15	1-1/2"		15
1012-20	2"		10



1800 Series (hex and round)

Foot Valve Screen (polyethylene, 100 mesh)			
1800-10	1" round style	2-4/5"	1
1800-12	1-1/4" hex style	3"	1
1800-15	1-1/2" round style	3-2/5"	1
1800-20	2" round style	3-4/5"	1

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Check Valves - Flo Control

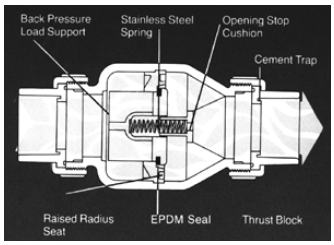
PVC True Union Spring Check Valve Features:

- Designed for easy body removal.
- Tail pieces remain in place.
- 1/2 lb. psi spring tension. 2 lb. spring tension available by special order.
- EPDM seal and o-rings.
- 200 P.S.I. static pressure rating @ 72º F.
- Stainless steel spring.
- Excess solvent cement trap.
- NSF/ANSI 61+372.

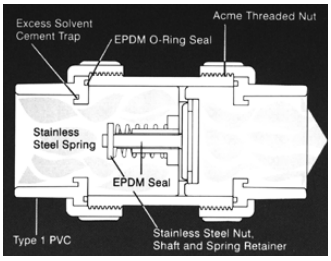
NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

NSF Certified to NSF/ANSI 61+372

NO LEAD LEAD-FREE



1700 Series



1790 Series



1700 Series

NSF/ANSI 61+372

Part Number	Description	Body Length	Ctn Qty
True Union Spring Check Valves – WHITE 1/2# Spring Tension			
1700-15	11/2" spring check	8.345"	12
1700-20	2" spring check	9.735"	12



1700C Series

NSF/ANSI 61+372

True Union Spring Check Valves – CLEAR 1/2# Spring Tension			
1700C-15	11/2" spring check	8.345"	12
1700C-20	2" spring check	9.735"	12



1790 Series

NSF/ANSI 61+372

Compact True Union Spring Check Valves - WHITE 1/2# Spring Tension			
1790-15	11/2" compact valve	6.54"	15
1790-20	2" compact valve	7.35"	10



1790C Series

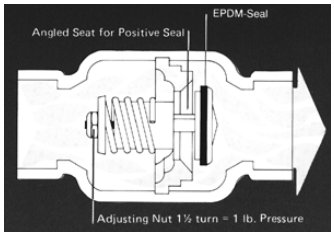
NSF/ANSI 61+372

Compact True Union Spring Check Valves - CLEAR 1/2# Spring Tension			
1790C-15	11/2" compact valve	6.54"	15
1790C-20	2" compact valve	7.35"	10

Check Valves - Flo Control

PVC Adjustable Spring Check Valve Features:

- Use to restrain pressure in elevated pipelines.
- Ideal for preventing syphoning.
- Male or female threaded connection.
- 200 psi static pressure rating @ 72°F.
- Adjustable from 5 lb to 15 lb spring tension to retain a column of water 12 to 36 foot head.
- EPDM seal.
- NSF/ANSI 61+372.



NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

NSF Certified to NSF/ANSI 61+372



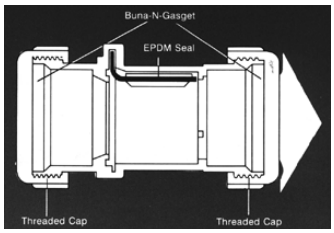
NSF/ANSI 61+372

1205 Series

Part Number	IPS Size	Body Length	Ctn Qty
PVC Adjustable Spring Check Valves (fipt x fipt)			**Spring Tension 5 lb***
1205-05	1/2"	4-1/8"	20
1205-07	3/4"	4-1/8"	20
1205-10	1"	5-1/4"	20
1205-15	1-1/2"	6-3/16"	15

* 1 1/2 turn = 1 lb. force

PVC SUMP CHECK Valve Features:



- Positive seal with long lasting EPDM weighted flapper and Buna-N gaskets.
- Easy installation and removal with compression seal connections. No hose clamps, cementing or threading necessary
- Allows 1 3/4" vertical movement of discharge pipe for easy removal of pump.
- Unitized body construction using spin welded process with permanent interlock of Buna-N flapper.
- Valve fits either 1 1/4" or 1 1/2" IPS size. Gaskets for both provided with each valve.
- Sump pumps with larger volume output use 1500 or 1520 series swing check. (see next page)
- Rated at 125 psi @ 72°F.



SUMP CHECK

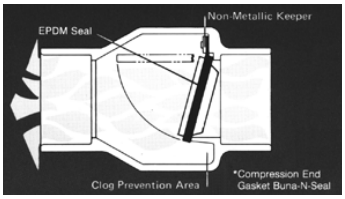
Part Number	IPS Size	Body Length	Ctn Qty
PVC Sump Check Valve			
BUNA-N gaskets are included for both the 1 1/4" and 1 1/2" applications			
SUMP CHECK	1-1/4"-1-1/2"	5 1/4"	12

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Check Valves - Flo Control

PVC Swing Check Valve Features:

- No metalic parts, corrosion resistant..
- Full flow design.
- Angle seat and weighted flapper designed for low pressure seal.
- PVC weighted and shielded flapper will retain backpressure up to 125 psi.
- Iron pipe sized 1/2" - 4".
- Compression style for IPS sized plastic or metal pipe 1 1/4" - 3"
- Ideal for close working areas, easy pipe alignment.
- Compression ends can be used as union connections.
- Designed for both horizontal and vertical use.
- Pressure rated 125 psi @ 72°F.
- NSF/ANSI 61+372.



NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372 | NSF Certified to NSF/ANSI 61+372 | NO LEAD LEAD-FREE



NSF/ANSI 61+372

1500 Series

Part Number	IPS Size	Body Length	Ctn Qty
PVC Swing Check Valve - WHITE comp x comp			
1500-12	1-1/4"	7-1/2"	12
1500-15	1-1/2"	7-1/2"	12
1500-20	2"	9-3/4"	12
1500-30	3"	14"	2
PVC Swing Check Valve - CLEAR comp x comp			
1500C-15	1-1/2"	7-1/2"	5
1500C-20	2"	9-3/4"	8



NSF/ANSI 61+372

1520 Series

PVC Swing Check Valve - WHITE slip x slip			
1520-05	1/2"	4-1/2"	25
1520-07	3/4"	4-1/2"	25
1520-10	1"	5-1/8"	25
1520-12	1-1/4"	5-1/4"	12
1520-15	1-1/2"	5-3/4"	12
1520-20	2"	6"	12
1520-30	3"	9"	4
1520-40	4"	9-1/2"	4



NSF/ANSI 61+372

1520C Series

PVC Swing Check Valve - CLEAR slip x slip			
1520C-10	1"	5-1/8"	1
1520C-12	1-1/4"	5 1/4"	1
1520C-15	1-1/2"	5 3/4"	12
1520C-20	2"	6"	12

NSF/ANSI 61+372

1720 Series

True Union Swing Check Valves - WHITE slip x slip			
1720-15	11/2"		12
1720-20	2"		12



NSF/ANSI 61+372

1720C Series

True Union Swing Check Valves - CLEAR BODY, WHITE NUTS/TAILS slip x slip			
1720C-10	1"		20
1720C-15	11/2"		12
1720C-20	2"		12
1720C-30	3"		20

Check Valves - Flo Control

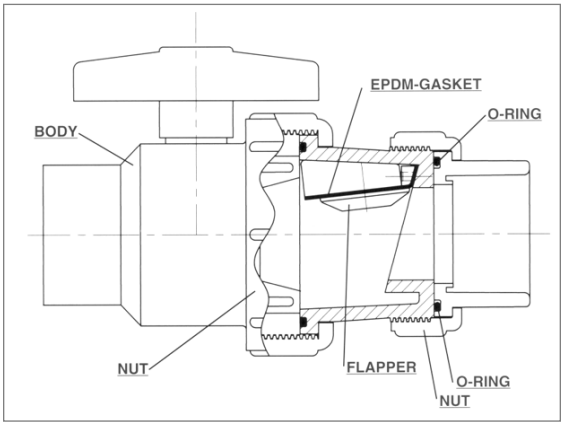


2200 Series

NO LEAD
< 0.25% Pb
by weighted
average

2200 Series Checkmate Features:

- One piece ball/check valve combination.
- Save time, labor and hassle to applications requiring in-line ball valves and check valves.
- True union or compression design allows for removal of check valve for cleaning or repairs.
- May be installed in vertical or horizontal position.
- Made of PVC type 1 grade 1 material meeting ASTM-D1784.
- Rated at 125 PSI static pressure @ 72°F



Part Number	Description	Ctn Qty
2200-15	1 1/2" Union x Slip	12
2200-20	2" Union x Slip	12
2200-15TU	1 1/2" Union x Union	12
2200-20TU	2" Union x Union	12
2200-15UC	1 1/2" Compression x Compression	12
2200-20UC	2" Compression x Compression	12

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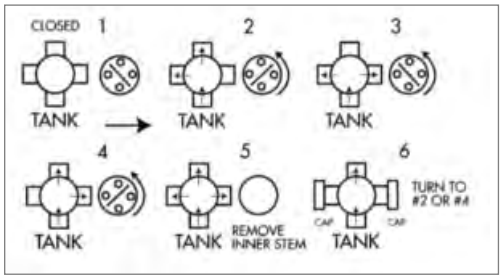
Diverter Valves, Sch 40 White Unions, Union Ball Valves



575 Series

Diverter Valve Features:

- For septic tank leach fields.
- Made of tough molded plastic that will not shatter, bend, rust or corrode.
- Light in weight, easier to handle and less expensive to ship.
- Stem flow may be controlled to individual or up to 3 fields in any combination. With a 3-way stem, flow may be diverted to any two outlets. To allow flow through all outlets, the valve stem may be removed from the assembly.
- ABS is IAPMO listed.



Part Number	Description	Ctn Qty
575	4" ABS Diverter Valve, Black	4
575P	4" PVC Diverter Valve, White	4



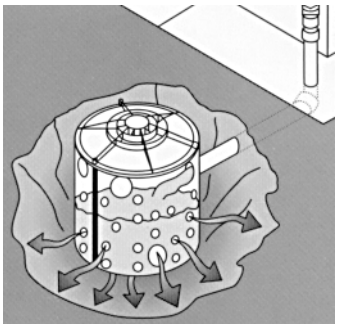
1600 Series

Schedule 40 White Unions Features:

- Slip x slip
- Made in USA.

Part Number	IPS Size	Ctn Qty
SCHEDULE 40 UNIONS SLIP X SLIP		
1600-15	1 1/2" Socket both ends, 2" spigot one end	24
1600-20	2" Socket both ends, 2 1/2" spigot one end	20

Flo-Well® Storm Water Leaching System



Flo-Well Storm Water Leaching System

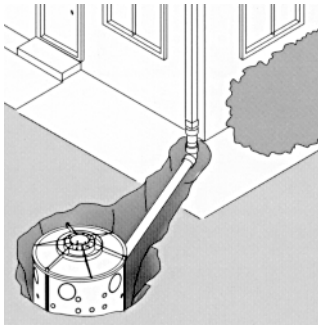
- Discharge water into the subsoil rapidly and easily.
- No need for piping systems to transport stormwater to a far-off point, large heavy equipment, considerable excavation of current landscape areas or large labor costs that those systems incur.

Materials:

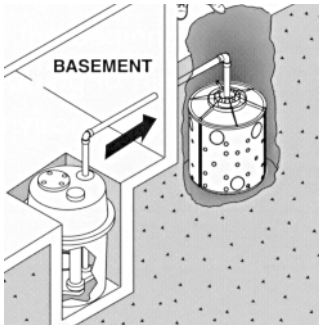
- Structural foam polyolefin with UV inhibitors.

Applications:

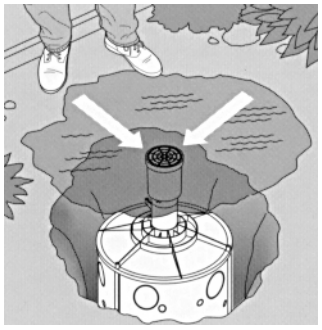
Flo-Well systems should be placed at least 10 feet from a structure or foundation.



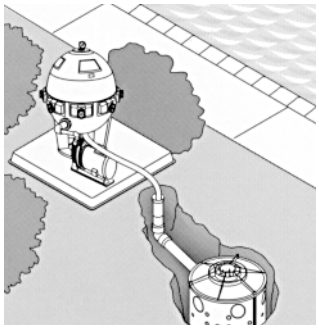
For gutters & downspouts



For sump pumps

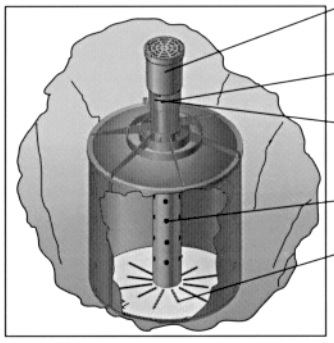


For low grade areas

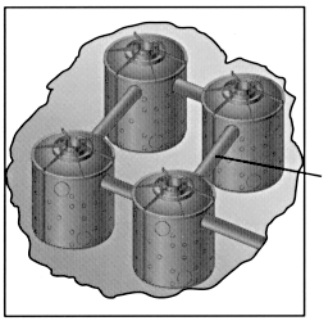


For pool backwash tanks

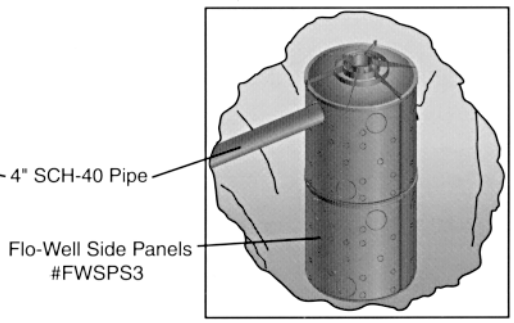
Options



For additional support



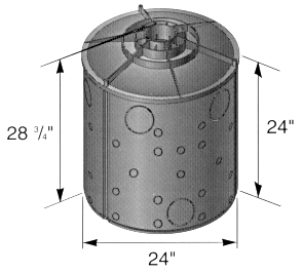
Can be connected



Can be stacked

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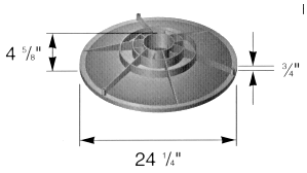
Flo-Well® Storm Water Leaching System



Flo-Well Storm water leaching system

- Includes 3 side panels, 1 top component
- 18 - 1 1/2" knockout leaching ports and 3 - 4 1/2" knockout inlet/outlet ports per panel.
- 49 gal capacity
- Fits 4" Sch 40 pipe and 4" DWV pipe

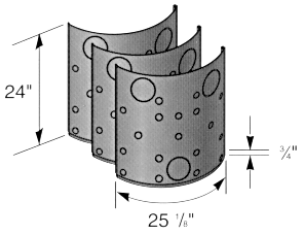
Part Number	Description	Color	Weight lbs.	Ctn Qty
FWAS24	24 x 28 3/4" round system	Black	25.15	1



Flo-Well Cover

- Fits FWAS24 and FWSPS3

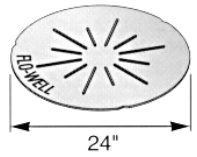
Part Number	Description	Color	Weight lbs.	Ctn Qty
FWAS24C	24" dia cover	Black	8.0	2



Flo-Well Side Panels/ Extension Only

- Includes 3 side panels, 24" high, with 3/4" lip for stacking.
- Fits FWSA24
- 18 - 1 1/2" knockout leaching ports and 3 - 4 1/2" knockout inlet/outlet ports per panel.

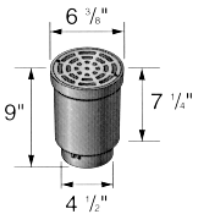
Part Number	Description	Color	Weight lbs.	Ctn Qty
FWSPS3	side panels	Black	5.0	1



Flo-Well Bottom

- Six 1 1/2" leaching ports
- Fits FWAS24

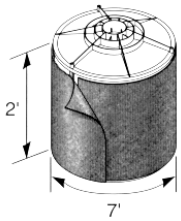
Part Number	Description	Color	Weight lbs.	Ctn Qty
FWBP24	24" dia bottom	Black	3.5	5



Flo-Well Surface Drain Inlet with Grate

- 6" grate with 4" inlet.
- Fits FWAS24 and FWFWAS24C, PVC Sch 40 fittings

Part Number	Description	Color	Weight lbs.	Ctn Qty
FWSD69	4" Sch 40 Inlet	Black	1.85	8



Porus Filter Fabric Wrap for FloWell

- 7' long x 2' wide to surround drywell system
- Non woven fabric
- Weight 1 oz. Mullen burst 175 psi, 200 gpm flow through.

Part Number	Description	Color	Weight lbs.	Ctn Qty
FWFF67	7' x 2' Porus Filter Fabric Wrap	Black	0.35	20

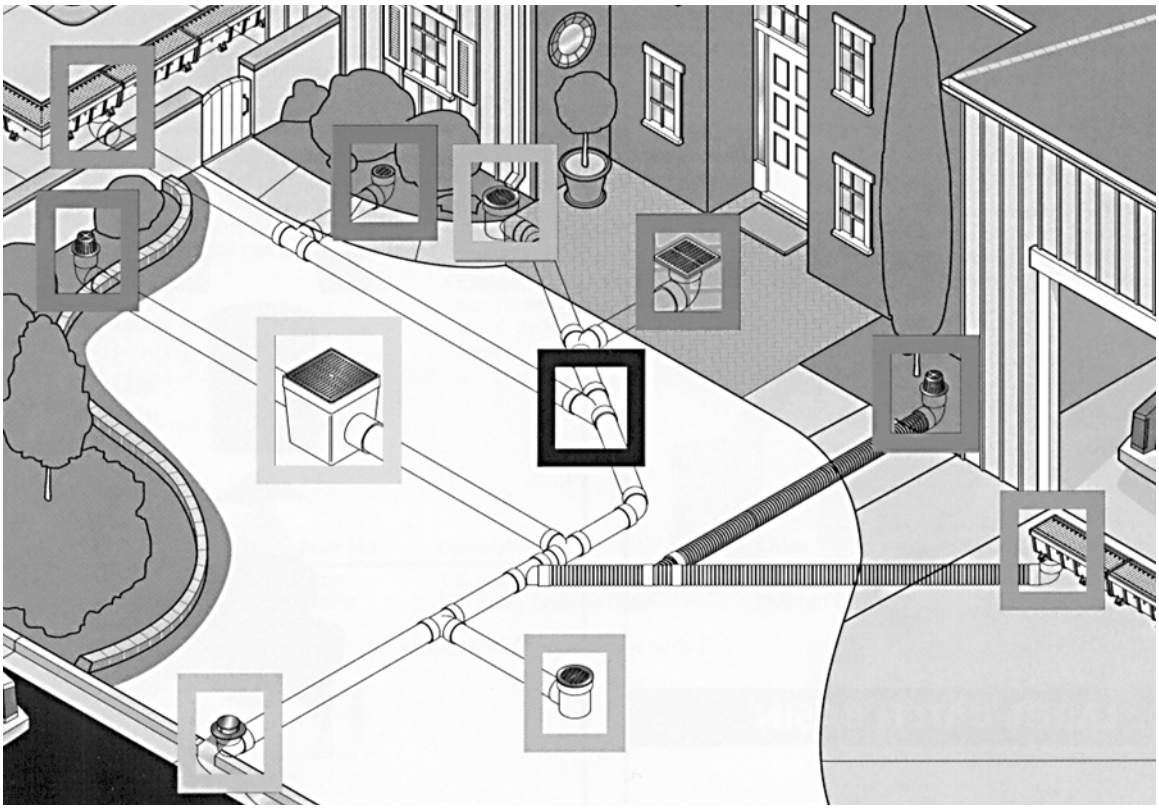
Catch Basins & Grates

Catch Basin & Grate Features:

- Eliminates standing water and flooding on paved areas and lawns.
- Easy to install, sized to fit your project with catch basins from 6" to 24" and grates from 2" to 24".
- Prohibits structural damage to building foundations.
- Choose from a wide variety of products to fit every need.

Materials and Standards:

- Ultraviolet-resistant one piece injection-molded structural foam polyolefin for maximum strength.
- Installed properly, some plastic grates are suitable for light vehicular traffic. Standards vary per product. See individual product section for details.





Sewer & Drain Fittings
for piping systems and downspouts.



Channel Drains
for driveways, pools, spas, patios, sidewalks and wash-down areas.



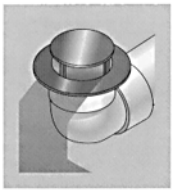
Large Catch Basins
for large lawn or landscape areas, residential driveways and garages.



Small Catch Basins
for lawn and landscape areas.



Small Grates
for small lawn and landscape areas, patios and atriums.



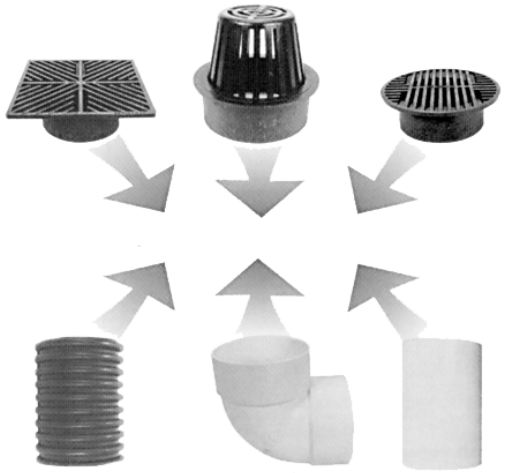
Pop-up Emitters
for discharging water on the surface.

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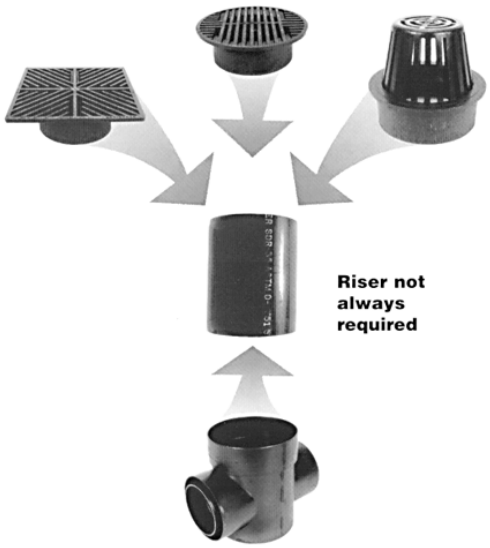
Catch Basins & Grates

Flexible by Design

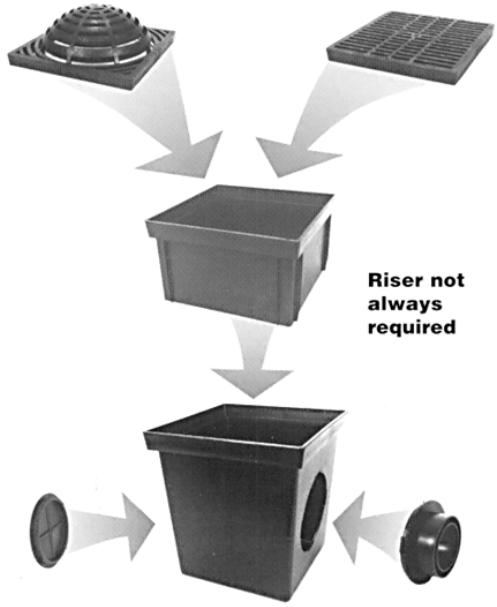
SMALL GRATES



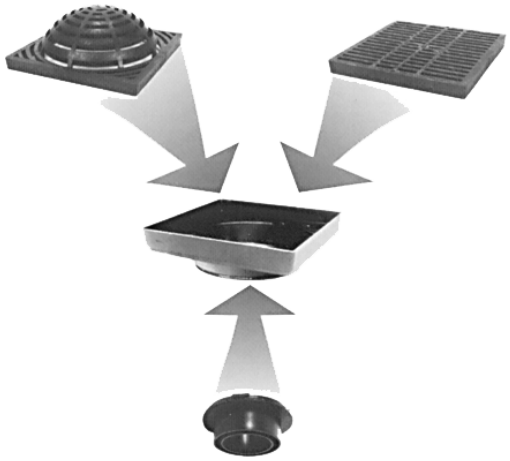
SPEE-D BASIN



LARGE CATCH BASIN



ADAPTER



Load Recommendations:

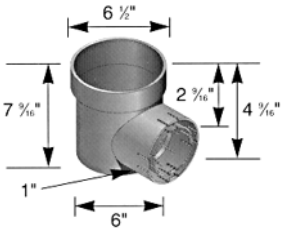
Class A

- Loads of 1-60 psi.
- Recommended for pedestrians, bicycles and wheel chair traffic.

Class B

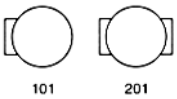
- Loads of 61-175 psi.
- Recommended for medium-duty pneumatic tire traffic, autos and light trucks at speeds less than 20 mph.

Spee-D Basins / Round Grates

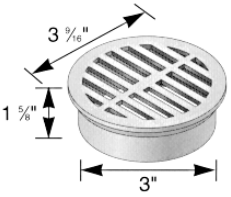


6" Spee-D Basin with 3" and 4" Locking Outlet

- **Locking outlet snaps on to most 3" and 4" corrugated pipe.**
- Outlets fit 3" or 4" sewer & drain pipe, corrugated pipe.



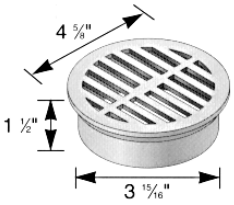
Part Number	Description	Color	Weight lbs.	Ctn Qty
101	1 - 3" and 4" locking outlet	Black	1.60	10
201	2 - 3" and 4" locking outlets	Black	1.90	10



3" Round Grate

- 3" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 2.6 sq. in.. 3.41 gpm
- 3/16" grate opening.
- Fits 3" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.

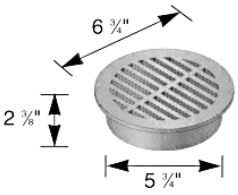
Part Number	Description	Color	Weight lbs.	Ctn Qty
14	3" round grate	Black	0.15	40
16	3" round grate	Green	0.15	40



4" Round Grate

- 4" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 3.85 sq. in.. 5.04 gpm
- 1/4" grate opening.
- Fits 4" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
11	4" round grate	Black	0.20	25
13	4" round grate	Green	0.20	25



6" Round Grate

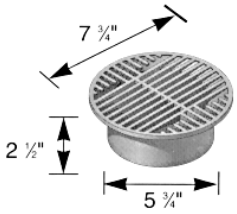
- 6" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 9.10 sq. in.. 11.92 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer and drain pipe and fittings, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
40	6" round grate	Black	0.80	10
50	6" round grate	Green	0.80	10
60	6" round grate	Gray	0.80	10

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.

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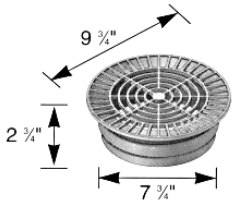
Round Grates



8" Round Grate

- 8" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 11.50 sq. in.. 15.07 gpm
- 5/16" grate opening.
- Fits Spee-D basin, 6" sewer and drain pipe and fittings, corrugated pipe.

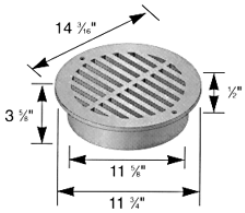
Part Number	Description	Color	Weight lbs.	Ctn Qty
10	8" round grate	Black	0.80	10
20	8" round grate	Green	0.80	10
30	8" round grate	Gray	0.80	10



10" Round Grate

- 10" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 17.46 sq. in.. 22.87 gpm
- 5/16" grate opening.
- Fits 8" sewer and drain pipe and fittings, corrugated pipe.

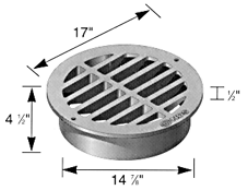
Part Number	Description	Color	Weight lbs.	Ctn Qty
1040	10" round grate	Black	1.50	10
1050	10" round grate	Green	1.50	10



12" Round Grate

- 12" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 46.00 sq. in.. 60.26 gpm
- 9/16" grate opening.
- Fits 12" sewer and drain pipe, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1240	12" round grate	Black	3.35	6
1250	12" round grate	Green	3.35	6



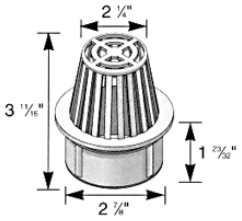
15" Round Grate

- 15" round structural foam polyolefin grate with UV inhibitor.
- Open surface area 85.60 sq. in.. 112.14 gpm
- 1 1/4" grate opening.
- Fits 15" sewer and drain pipe and fittings, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1511	15" round grate	Black	6.15	1
1512	15" round grate	Green	6.15	1

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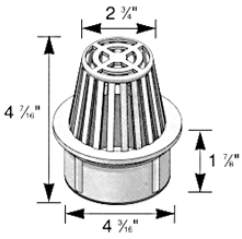
Atrium Grates



3" Atrium Grate

- 3" Flat top structural foam polyolefin atrium grate with UV inhibitor.
- Open surface area 9.5 sq. in.. 12.45 gpm
- 1/4" grate opening.
- Fits 3" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.

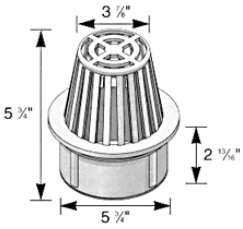
Part Number	Description	Color	Weight lbs.	Ctn Qty
70	3" atrium grate	Green	0.25	20
72 ☺	3" atrium grate	Gray	0.25	20
74	3" atrium grate	Black	0.25	20



4" Atrium Grate

- 4" Flat top structural foam polyolefin atrium grate with UV inhibitor.
- Open surface area 14.5 sq. in.. 19.0 gpm
- 1/4" grate opening.
- Fits 4" sewer and drain pipe and fittings, corrugated pipe and triple wall pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
75	4" atrium grate	Green	0.30	20
76 ☺	4" atrium grate	Gray	0.30	20
78	4" atrium grate	Black	0.30	20



6" Atrium Grate

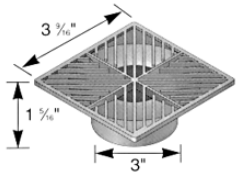
- 6" Flat top structural foam polyolefin atrium grate with UV inhibitor.
- Open surface area 25.5 sq. in.. 33.41 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer and drain pipe and fittings, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
80	6" atrium grate	Green	0.70	10
90	6" atrium grate	Black	0.70	10

☺ **Non-stock item, available on a special order basis.**
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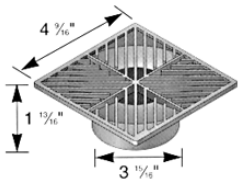
Square Grates



4" Square Grate

- 4" square structural foam polyolefin grate with diagonally converging pattern with UV inhibitor.
- Open surface area 3.45 sq. in.. 4.52 gpm
- 3/16" grate opening.
- Fits 3" sewer & drain pipe and fittings, corrugated pipe and triple wall pipe.

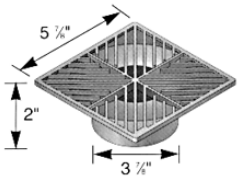
Part Number	Description	Color	Weight lbs.	Ctn Qty
01	4" square grate	Green	0.11	40
02	4" square grate	Black	0.11	40



5" Square Grate

- 5" square structural foam polyolefin grate with diagonally converging pattern with UV inhibitor.
- Open surface area 4.25 sq. in.. 5.57 gpm
- 3/16" grate opening.
- Fits 4" sewer & drain pipe and fittings, corrugated pipe and triple wall pipe.

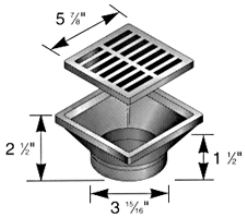
Part Number	Description	Color	Weight lbs.	Ctn Qty
07	5" square grate	Green	0.20	25
08	5" square grate	Black	0.20	25



6" Square Grate

- 6" square structural foam polyolefin grate with diagonally converging pattern with UV inhibitor.
- Open surface area 10.40 sq. in.. 13.62 gpm
- 1/4" grate opening.
- Fits 3" or 4" sewer & drain pipe, corrugated pipe and triple wall pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
04	6" square grate	Black	0.40	10
05	6" square grate	Green	0.40	10



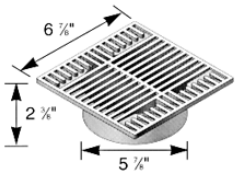
6" x 6" x 4" Square Grate and Adapter

- 6" x 6" low profile adapter and structural foam polyolefin removable grate with UV inhibitor & stainless steel screws.
- Open surface area 13.61 sq. in.. 17.83 gpm
- 1/4" grate opening.
- Fits 3" or 4" sewer & drain pipe and fittings, corrugated pipe and triple wall pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
640	6" x 6" x 4" square grate & adapter	Black	0.88	8
641	6" x 6" x 4" square grate & adapter	Green	0.88	8

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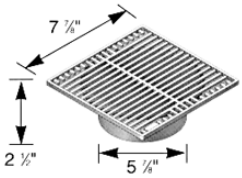
Square Grates



7" Square Grate

- 7" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 13.60 sq. in.. 17.83 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer & drain pipe and fittings, corrugated pipe.

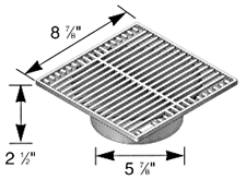
Part Number	Description	Color	Weight lbs.	Ctn Qty
771	7" square grate	Black	0.70	10
772	7" square grate	Green	0.70	10
773	7" square grate	Gray	0.70	10



8" Square Grate

- 8" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 17.16 sq. in.. 22.48 gpm
- 1/4" grate opening.
- Fits Spee-D basin, 6" sewer & drain pipe and fittings, corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
881	8" square grate	Black	0.80	10
882	8" square grate	Green	0.80	10



9" Square Grate

- 9" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 28.40 sq. in.. 37.20 gpm
- 5/16" grate opening.
- Fits Spee-D basin, 6" sewer & drain pipe and fittings, corrugated pipe.

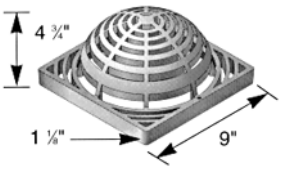
Part Number	Description	Color	Weight lbs.	Ctn Qty
950	9" square grate	Green	1.90	10

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9" Catch Basin Series

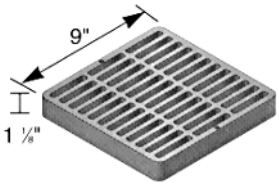
9" Catch Basin Atrium Grate



- 9" structural foam polyolefin dome atrium grate with UV inhibitor.
- Open surface area 30.28 sq in.. 39.67 gpm.
- 3/8" grate opening.
- Use with 9" x 9" catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty
981	9" x 9" atrium grate	Black	0.87	6
991	9" x 9" atrium grate	Green	0.87	6

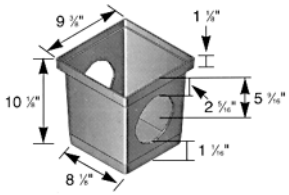
9" Catch Basin Square Grate



- 9" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 39.50 sq in.. 51.75 gpm.
- 7/16" grate opening.
- Use with 9" x 9" catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty
980	9" x 9" square grate	Black	1.50	8
990	9" x 9" square grate	Green	1.50	8
999	9" x 9" square grate	Gray	1.50	8

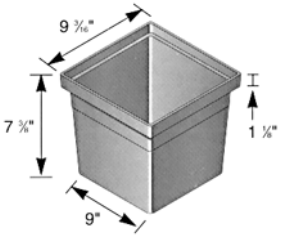
9" x 9" Tapered Catch Basin



- Requires universal outlet (1206, 1242, 1243, 1245, 1266 or 1889) for each opening.
- 900BLKIT includes 2 opening basin and black grate in a kit.

Part Number	Description	Color	Weight lbs.	Ctn Qty
900	9" x 9" catch basin 2-opening	Black	3.00	4
900BLKIT	9" x 9"catch basin with black grate	Black	4.25	4

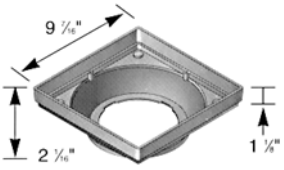
6" Riser for 9" x 9" Catch Basin



- Bottomless
- Use with 9" x 9" catch basin series

Part Number	Description	Color	Weight lbs.	Ctn Qty
916	9" x 9" catch basin riser	Black	1.75	4

9" x 9" Low Profile Adapter

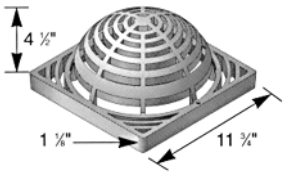


- Bayonet bottom outlet.
- Requires universal outlet (1243, 1245, 1266, 1889).
- Fits corrugated, sewer and drain pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
930	9" x 9" low profile adapter	Black	0.75	8

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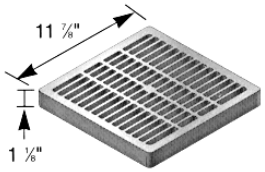
12" Catch Basin Series



12" x 12" Atrium Grate

- 12" structural foam polyolefin dome atrium grate with UV inhibitor.
- Open surface area 60.00 sq. in.. 78.60 gpm.
- 3/8" grate opening.
- Use with 12" x 12" catch basin series.

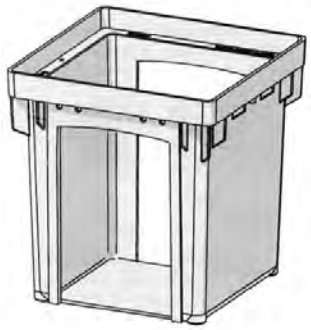
Part Number	Description	Color	Weight lbs.	Ctn Qty
1280	12" x 12" atrium grate	Green	2.00	8
1290	12" x 12" atrium grate	Black	2.00	8



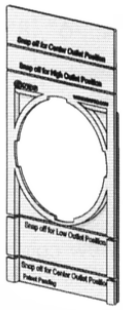
12" x 12" Square Grate

- 12" square structural foam polyolefin grate with UV inhibitor or heavy duty cast iron.
- Open surface area 50.76 sq. in. 66.50 gpm.
- Cast Iron open surface area 59.5 sq. in.. 77.95 gpm.
- 3/8" grate opening.
- Use with 12" x 12" catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1210	12" x 12" square grate	Gray	2.00	8
1211	12" x 12" square grate	Black	2.00	8
1212	12" x 12" square grate	Green	2.00	8
1213	12" x 12" Cast Iron square grate	Black	7.00	1

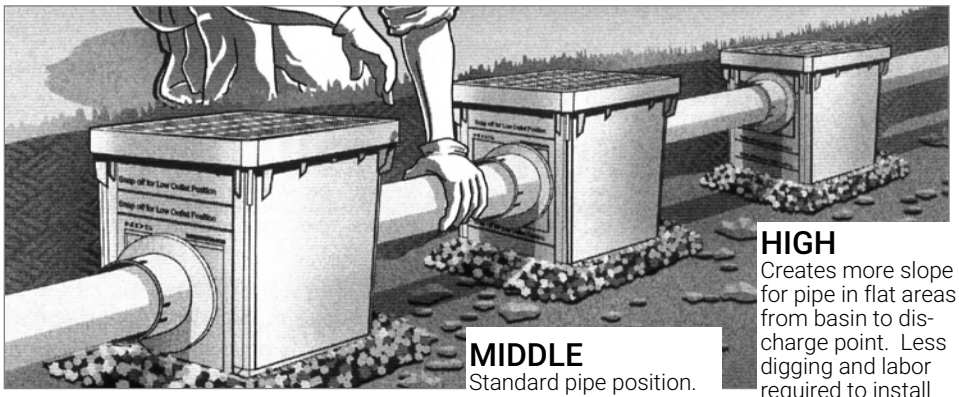


1200NGB



Next Generation Catch Basin

- Adjustable height inlet and outlets; just snap off slide tabs.
- Kit includes catch basin with 2 open slides.
- Faster and easier to install.



HIGH
Creates more slope for pipe in flat areas from basin to discharge point. Less digging and labor required to install pipe.

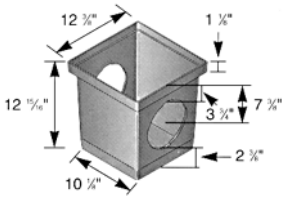
MIDDLE
Standard pipe position. Pipe inlet/outlet connects to the middle of the basin.

LOW
Reduces standing water in the bottom of the basin, especially in clay soils where water won't drain out of the bottom.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1200NGBKIT	12" catch basin kit w/ 2 slides	Black	4.65	4

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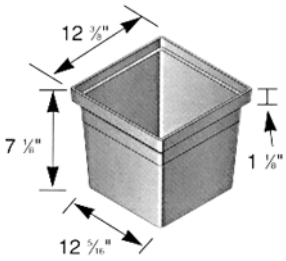
12" Catch Basin Series



12" x 12" Tapered Catch Basin

- Requires universal outlet (1206, 1242, 1243, 1245, 1266, or 1889) for each opening.
- Use bottom cutout for additional outlet.
- 1200BLKIT includes 2 opening basin and black grate in a kit.

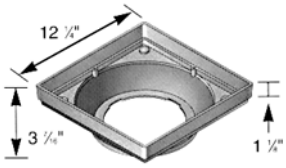
Part Number	Description	Color	Weight lbs.	Ctn Qty
1200	12" x 12" catch basin 2-opening	Black	4.25	4
1203	12" x 12" catch basin 3-opening	Black	3.75	4
1204	12" x 12" catch basin 4-opening	Black	3.75	4
1200BLKIT	12" x 12" catch basin with black grate	Black	8.00	4



6" Riser for 12" x 12" Catch Basin

- Bottomless
- Use with 12" x 12" catch basin series

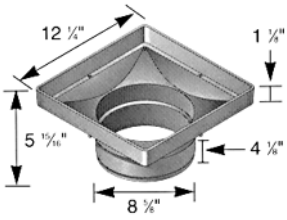
Part Number	Description	Color	Weight lbs.	Ctn Qty
1216	12" x 12" catch basin riser	Black	2.75	8



12" x 12" Low Profile Adapter

- Bayonet bottom outlet
- Requires universal outlet for connection to 3", 4" or 6" sewer/drain or corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1230	12" x 12" low profile adapter	Black	1.25	5



12" x 12" Square Low Profile Adapter

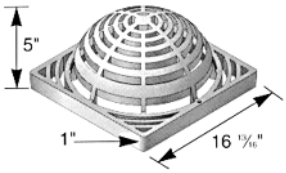
- Fits 8" sewer and drain pipe
- Use with #1222 spigot adapter to adapt to 8" corrugated pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1221	12" x 12" low profile adapter	Black	1.92	12
1222	12" x 12" low profile spigot adapter	Black	1.92	12

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.

18" Catch Basin Series

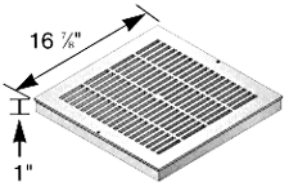
18" x 18" Atrium Grate



- 18" structural foam polyolefin dome atrium grate with UV inhibitor.
- Open surface area 64.51 sq. in.. 84.51 gpm.
- 1/2" grate opening.
- Use with 18" x 18" catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1881	18" x 18" atrium grate	Black	3.50	4
1891	18" x 18" atrium grate	Green	3.50	4

18" x 18" Square Grate

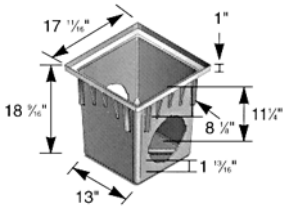


- 18" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 104.00 sq. in.. 136.24 gpm.
- 7/16" grate opening.
- Use with 18" x 18" catch basin series.



Part Number	Description	Color	Weight lbs.	Ctn Qty
1810	18" x 18" square grate	Gray	5.50	4
1811	18" x 18" square grate	Black	5.50	4

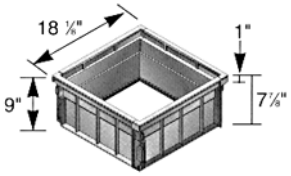
18" x 18" One Piece Tapered Catch Basin



- Requires universal outlet for each opening.
- Includes 2 or 4 #1890 reducing rings.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1882	18" 1 piece catch basin 2-openings	Black	10.00	4
1884	18" 1 piece catch basin 4-openings	Black	9.50	4

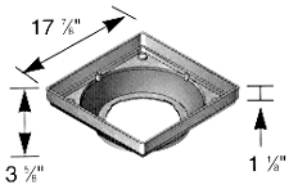
8" Riser for 18" x 18" Catch Basin



- Use with 18" one piece or expandable catch basins.
- 7 7/8" nesting height.
- Assembly required. Includes 4 riser sides.
- **NOTE: Use roof tar or silicone to seal joints.**

Part Number	Description	Color	Weight lbs.	Ctn Qty
1816	8" catch basin riser	Black	6.00	1

18" x 18" Low Profile Adapter



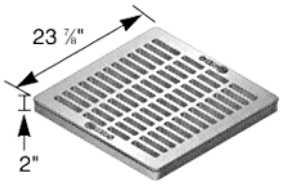
- Bayonet bottom outlet.
- Includes #1890 reducer ring.
- Requires universal outlet (1243, 1245, 1266, or 1888).
- Fits corrugated pipe and sewer and drain pipe.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1830	18" x 18" low profile adapter	Black	4.75	4

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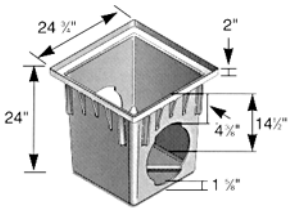
24" Catch Basin Series



24" x 24" Square Grate

- 24" square structural foam polyolefin grate with UV inhibitor.
- Open surface area 231.69 sq. in.. 303.51 gpm.
- 7/8" grate opening.
- Use with 24" x 24" catch basin series.

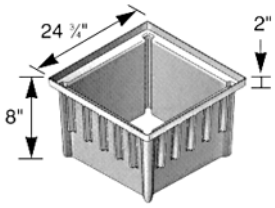
Part Number	Description	Color	Weight lbs.	Ctn Qty
2411	24" x 24" square grate	Black	9.00	4
2412	24" x 24" square grate	Green	9.00	4



24" x 24" One Piece Tapered Catch Basin

- Requires 2 or 4 #2410 universal outlets.

Part Number	Description	Color	Weight lbs.	Ctn Qty
2400	24" 1 piece catch basin 2-opening	Black	18.00	4
2404	24" 1 piece catch basin 4-opening	Black	15.00	4



8" Extension for 24" x 24" Catch Basin

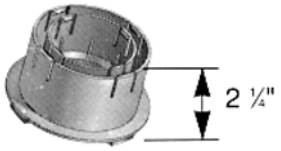
- Bottomless
- Use with 24" x 24" catch basin series

Part Number	Description	Color	Weight lbs.	Ctn Qty
2418	24"x 24" catch basin extension	Black	14.00	10

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.

Catch Basin Universal Outlets

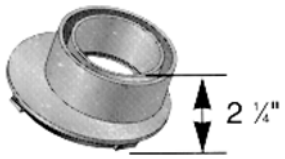
3" and 4" Universal Locking Outlet



- **New locking outlet snaps on to most 3" and 4" corrugated pipe.**
- Fits 3" & 4" corrugated pipe and sewer & drain pipe and triple wall pipe, 4" sch 40 pipe.
- Use with 9", 12" 18" and 24" (with #2410) catch basin series and adapters.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1243	3" & 4" universal locking outlet	Black	0.70	20

3" and 4" Offset Universal Outlet



- Fits 3" & 4" corrugated pipe and sewer & drain pipe, 4" sch 40 pipe and triple wall pipe.
- Allows for adjustable inlet height.
- Use with 9", 12", 18" and 24" (with #2410) catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1245	3" & 4" offset universal outlet	Black	0.55	20

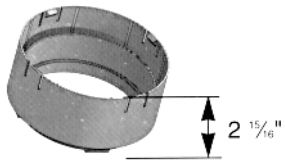
3" and 4" Universal Adapter w/ 4" spigot



- Fits 3" & 4" corrugated pipe, sewer & drain pipe, triple wall pipe and 4" sch 40 pipe.
- Use with 3" and 4" sewer and drain fittings.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1241	3" & 4" adapter **NEW tab style**	Black	0.70	20
1241AG	3" & 4" adapter **OLD style**	Black	0.70	20

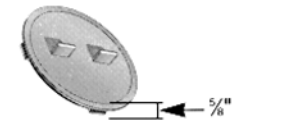
6" Universal Locking Outlet



- **New locking outlet snaps on to most 3" and 4" corrugated pipe.**
- Fits 6" corrugated pipe and sewer & drain pipe.
- Use with 9", 12", 18" and 24" (with #2410) catch basin series and adapters.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1266	6" universal locking outlet	Black	0.75	20

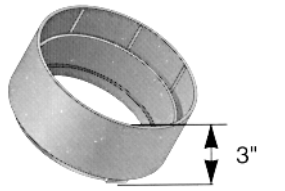
6" Universal Plug Adapter



- Use with 9", 12", 18" and 24" (with #2410) catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1206	6" universal plug adapter	Black	0.35	20

8" Universal Outlet



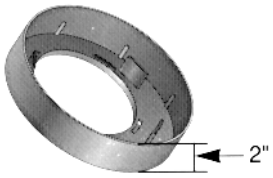
- Fits 8" corrugated pipe and sewer & drain pipe.
- Use with 18" and 24" (with #2410) catch basin series.

Part Number	Description	Color	Weight lbs.	Ctn Qty
1888	8" universal outlet	Black	1.25	8

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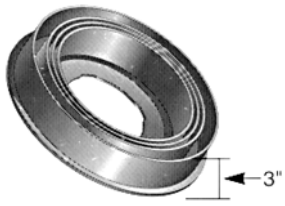
Catch Basin Universal Outlets



8" Offset Universal Adapter

- Fits 8" corrugated pipe and sewer & drain pipe.
- Use with 12" catch basin series.
- Use with #1890 reducer ring for 18" catch basin series.
- Reducer ring required on #1821 basin side, 18" catch basin series to adapt to universal outlets (#1206, 1243, 1245, 1266 or 1889.)

Part Number	Description	Color	Weight lbs.	Ctn Qty
1890	Universal outlet reducer ring	Black	0.50	8



10" and 12" Universal Adapter

- Includes universal outlet reducer ring (#1890).
- Fits 10" and 12" corrugated pipe and sewer & drain pipe.
- Fits 3", 4", 6" and 8" corrugated, sewer & drain pipe, 4" Sch. 40 pipe by using corresponding adapter.
- Use with 24" catch basins.

Part Number	Description	Color	Weight lbs.	Ctn Qty
2410	10" and 12" universal adapter	Black	5.50	2

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Swivel Fitting, Drainage Emitter

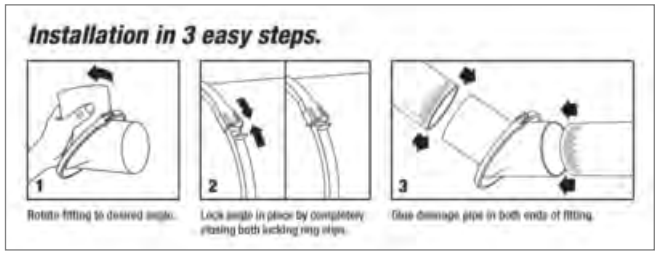


4PVAF

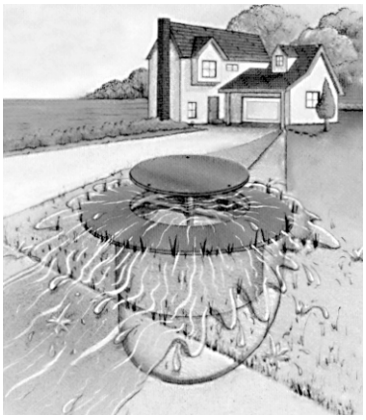


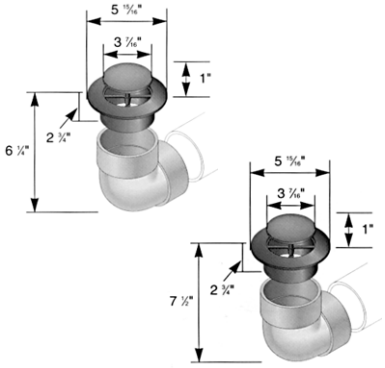
Swivel Fit® Variable Angle Fitting

- Multiple fittings in one. Can be set and locked in place to any angle from 0° to 90°.
- Convenient for misaligned pipes and routing around corners and obstacles.
- Patent pending design.
- Installs in 3 easy steps.
- Fits 4" drain pipe SDR-35, Triple wall and ASTM-D2729.
- Not for sewer use.



Part Number	Description	Ctn Qty
4PVAF	Swivel Fit Fitting	12





The Pop-Up Drainage Emitter is an easy, safe & efficient solution.

It allows water to be diverted and released to water-safe areas away from structures, erosion-prone landscapes and poor drainage areas.

- It allows water captured by grates, catch basins, channel drains, downspouts and roof gutter systems to flow through the drainage pipe and away from structural foundations to safe or useful areas. For example, water can be routed from a low area next to a foundation to a water safe area such as a curbside drainage system.
- It is opened by the hydrostatic pressure of water flowing through the drain pipe. As flow diminishes the emitter closes again. The special patented design allows the emitter to open with a negligible amount of pressure. Since the emitter is closed during dry weather, debris and rodents cannot enter the drain pipes.
- It does not rise high enough to interfere with mowers.
- It blends into the surrounding landscapes.

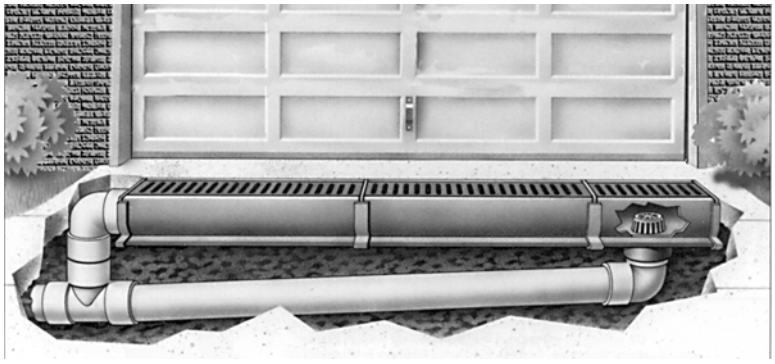
3" and 4" Emitter

- 3" and 4" PVC pop-up drainage emitter.
- Center drive pop-up with UV inhibitor.
- PVC 90° elbow with 1/4" drain hole.

Part Number	Description	Color	Weight lbs.	Ctn Qty
321	3" emitter with elbow	Green	0.60	25
421	4" emitter with elbow	Green	0.85	20

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Channel Drains



Durable

Designed for maximum durability and drainage, NDS channel drains are a proven alternative to traditional concrete drains. UV inhibitors in the grates, channels and component parts prevent fading and cracking from the sun. All plastic grate and channel components are chemically resistant, rust proof and maintenance free.

Simple

NDS channel is light-weight and easy to install. Grates are removable for easy clean-out and replacement. Channel grates may be held in place with NDS screws or hold down clips. A complete line of accessories is available for each channel.

NDS channel systems operate on the same principle as a roof gutter. All NDS channel easily connects to sewer and drain pipe and fittings or Sch 40 pipe and fittings.

Versatile

To blend with surrounding surfaces, channel grates are available in six colors. The channel system also offers a choice of outlets. Water can be evacuated from the bottom of the channel or from the end or sides of the channel.

Efficient

Channel drain eliminates the need for grading a deck surface to a low area. Instead, the deck is gradually sloped in one direction or plane, and the channel drain acts as a perimeter drain at the edge of the slope.

Most hardscapes experience more runoff than landscapes due to the lack of water absorption. Channel drain systems provide more overall surface area than conventional area grates.

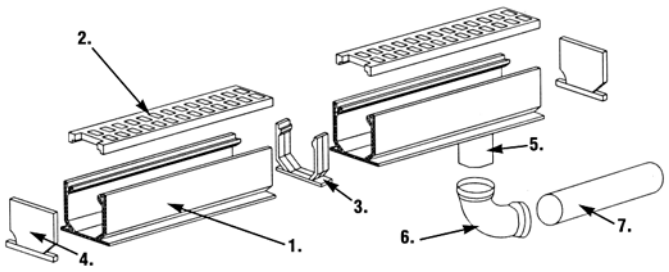
Non-Sloped Channel System Advantages

NDS offers non-sloped channel system advantages; less expensive, simplifies inventory, eliminates need to stock various sloping channel sections. Multiple outlets provide safety through redundancy, should any individual outlet become clogged. Proper flow is assured by use of sloped drain pipe.

Recommended Applications

- Driveways
- Parking Lots
- Warehouses
- Swimming pools & spas
- Washdown areas
- Tennis Courts
- Sidewalks
- Patios
- Sports Facilities
- Nurseries & greenhouses

Mini and Spee-D Channel System Components



1. Channel
2. Grate
3. Coupling
4. End Cap or End Outlet
5. Channel Bottom Outlet
6. Sewer and Drain Fitting
7. Drain Pipe

Channel Drains

Installation:

1. Standard Installation

Excavate a trench to accommodate the channel and bedding concrete. Erect a string line at each end of the drain run as a guide for laying the channels to the required level. Begin channel installation at the evacuation or discharge end of the run where the outlet or outlets are located.

Install channel end-to-end PVC cementing sections together. Design bottom or end outlets into the channel run in the appropriate location and glue to the drain pipe or fittings. PVC cement end caps where appropriate.

Using either NDS stakes, 1/2" or 5/8" rebar or wood stakes, anchor channel to the trench bed every 24" on each side of channel. Backfill with either concrete, sand or soil depending on the application. Pour slab to grade and finish concrete.

Figure 1A illustrates a light vehicular installation in which a concrete base may not be required. Compacted soil and a 1" sand base may be used in place of concrete.

Figure 1B illustrates a concrete base underneath the channel recommended for heavy load applications or freeze/thaw zones where heaving may be a problem.

Figure 1A

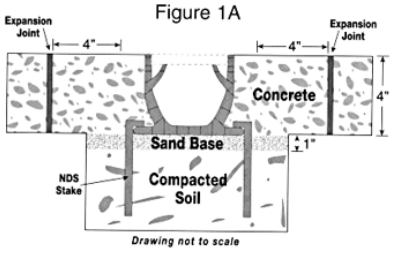
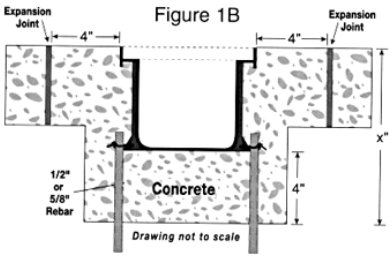


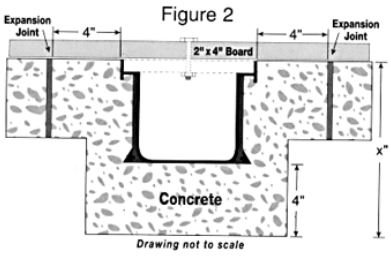
Figure 1B



2. Suspended Installation

Suspended installation is ideal for retrofit installations with an existing concrete slab or new construction where forms can be used to suspend the channels. Prepare the trench excavation. Using 2" x 4" boards, span the width of the trench and bolt the channel grates to the boards. Pour and compact concrete under and around the channels. Finish to the proper grade. Figure 2.

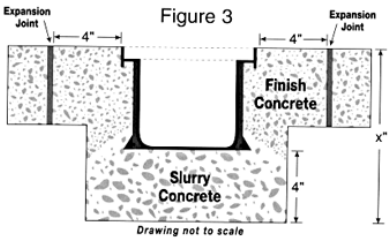
Figure 2



3. Slurry Installation

This installation may be used in lieu of the standard installation. Prepare the trench excavation and pull a stringline to the proper elevation. Pour a slurry of concrete in the trench to a depth that will insure at least 4" of concrete underneath the channels. Lay the channels in the bedding slurry. Check the channel alignment and grade again. After the slurry sets, concrete can be poured around the channel and finished to the proper grade. Figure 3.

Figure 3



Notes:

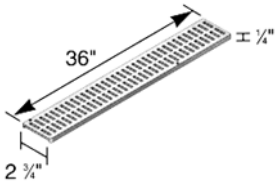
1. Grate must be installed prior to pouring concrete or backfill.
2. **Grate should be recessed 1/8" below finish grade in non traffic applications. Grate should be recessed 1/4" in traffic applications.**
3. In asphalt or hot mastic applications, the channels must be encased in concrete for strength and to prevent distortion of the channel.
4. Grates should be taped prior to pouring concrete to prevent debris from entering channel during installation.
5. Refer to load classification chart for proper application.
6. Expansion joints must be provided parallel, but not immediately adjacent to each side of the drain run and crack control joints utilized at right angles to the channel for installation in concrete.
7. PVC primer and medium body fast set PVC solvent cement must be used to cement all components.
8. Grate must be installed on channel at all times except for cleaning.

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Mini Channel™ Drains

Mini Channel™ Drain Features:

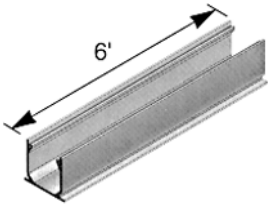
- Patented
- Low-cost alternative to Spee-D Channel.
- Excellent for light duty applications including residential pools, patios, spas and tennis courts.



3' Channel Grate

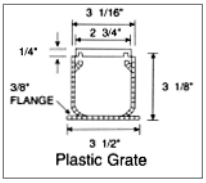
- Structural foam polyolefin channel grate with UV inhibitors.
- Open surface area 11.3 sq. in.. 14.8 gpm per foot.
- 1/4" x 5/16" grate opening.
- Requires 4 screws per grate.

Part Number	Description	Color	Weight lbs.	Ctn Qty
541	3' channel grate	Gray	0.688	48 ft
542	3' channel grate	Green	0.688	48 ft
543	3' channel grate	Black	0.688	48 ft
544	3' channel grate	Sand	0.688	48 ft
551	3' channel grate	Brick Red	0.688	48 ft



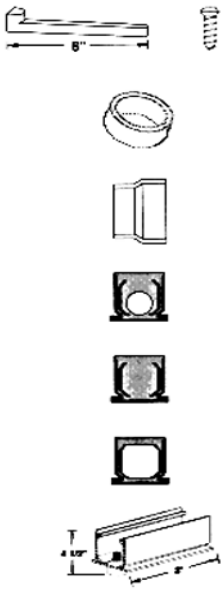
6' Mini Channel Drain

- 6' PVC Mini channel drain with inverse flying butress design, bottom flange, patented honeycomb reinforced walls and UV inhibitor.
- **Grates should be recessed 1/8" below finish grade in non traffic applications. Grate should be recessed 1/4" in traffic applications.**



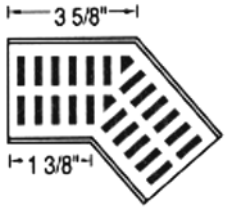
Part Number	Description	Color	Weight lbs.	Ctn Qty
500-6	6' Mini Channel Drain	Gray	4.00	48 ft

Mini Channel™ Drain Accessories:



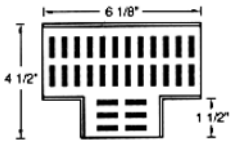
Part Number	Description	Color	Weight lbs.	Ctn Qty
529	Stainless Steel Screws type FH-#4 x 3/8"	Steel	0.10	64
230	6" channel installation stake	Gray	0.40	24
532	2" Sch 40 hub to 3" S&D spigot adapter	White	0.20	20
533	2" Sch 40 hub to 4" S&D spigot adapter	White	0.35	20
546	Spigot end outlet for 2" Sch. 40 pipe	Gray	0.30	10
547	3" Channel end cap	Gray	0.15	20
548	3" Channel Coupling	Gray	0.20	20
550	3' channel w/ 2" Sch 40 spg bottom outlet	Gray	2.17	6

AGI has access to the complete line of NDS drainage products. Contact customer sales for more information and pricing.



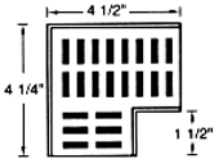
Fabricated 45° Elbow with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty
5300	Fabricated 45° elbow w/ grate	Gray	0.40	1
5303 ☺	Fabricated 45° elbow w/ grate	Sand	0.40	1



Fabricated Tee with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty
5371 ☺	Fabricated tee w/ grate	Green	0.50	1
5372 ☺	Fabricated tee w/ grate	Black	0.50	1
5374 ☺	Fabricated tee w/ grate	Brick Red	0.50	1



Fabricated 90° Elbow with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty
5380	Fabricated 90° elbow w/ grate	Gray	0.40	1
5383 ☺	Fabricated 90° elbow w/ grate	Sand	0.40	1

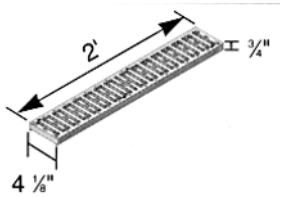
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Spee-D Channel™ Drains

Spee-D Channel™ Drain Features:

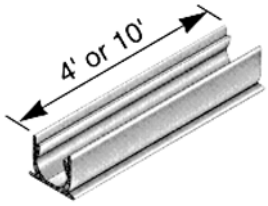
- Patented.
- Ideal for commercial as well as residential applications.
- Effective in everything from patios to light vehicular traffic areas.



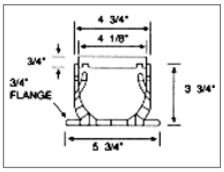
2' Channel Grate

- 2' Structural foam polyolefin secured channel grate with UV inhibitors.
- Open surface area 19.3 sq. in..
- 3/8" x 3 1/4" grate opening.
- Requires 4 screws per grate.

Part Number	Description	Color	Weight lbs.	Ctn Qty
241	2' channel grate	Gray	1.42	24 ft
242	2' channel grate	Green	1.42	24 ft
243	2' channel grate	Black	1.42	24 ft
244	2' channel grate	Sand	1.42	24 ft



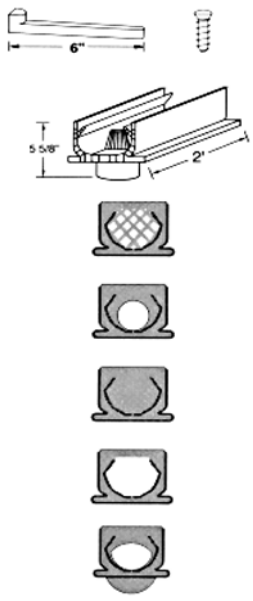
4' Channel Drain



- 4' PVC Spee-D channel drain with inverse flying butress design, bottom flange, patented honeycomb reinforced walls & UV inhibitor.
- **Grate should be recessed 1/8" below finish grade in non traffic applications. Grate should be recessed 1/4" in traffic applications.**
- **10' Length ships via truck only.**

Part Number	Description	Color	Weight lbs.	Ctn Qty
400	4' Channel Drain	Gray	4.83	24 ft
400-10	10' Channel Drain *	Gray	1.10	60 ft

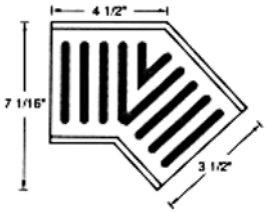
Spee-D Channel™ Drain Accessories:



Part Number	Description	Color	Weight lbs.	Ctn Qty
229	Stainless Steel Screws	Steel	0.06	48
230	6" channel installation stake	Gray	0.40	24
234	2' fabricated 3" & 4" spigot bottom outlet w/ strainer. Fits 3" or 4" S&D ftg. Grate not included	Gray	2.67	1
245	Channel strainer coupling	Gray	0.35	20
246	2" Sch. 40 spigot end outlet	Gray	0.40	10
247	Channel end cap	Gray	0.40	10
248	Channel Coupling	Gray	0.40	20
249	3" & 4" offset end outlet Connects to 3" S&D pipe, 4" S&D fittings	Gray	0.50	10

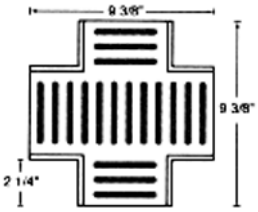
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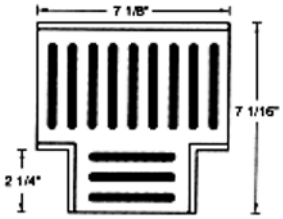
Fabricated 45° Elbow with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty
2301	Fabricated 45° elbow w/ grate	Gray	2.0	1



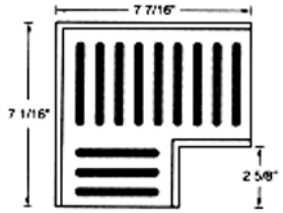
Fabricated Cross with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty
2361	Fabricated cross w/ grate	Gray	3.0	1



Fabricated Tee with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty
2371	Fabricated tee w/ grate	Gray	3.0	1



Fabricated 90° Elbow with Grate

Part Number	Description	Color	Weight lbs.	Ctn Qty
2381	Fabricated 90° elbow w/ grate	Gray	3.0	1

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Electrical Installation Accessories 45-46
Irrigation Installation Accessories 32-35
K-Rain Controllers 20-22
K-Rain Indexing Valves 25-26
K-Rain Pump Start Relay 23
K-Rain Rotors, Sprays, Nozzles 1-16
K-Rain Sensors 24
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Swing Joint Assemblies, Poly Swing Pipe 36
Valve Boxes 29-31

K-Rain® Rotors



RPS75

RPS75™ Rotor

The RPS75™ gear drive is designed for basic residential and light commercial applications and is a direct replacement for Hunter® PGP® rotors. The reversing mechanism, a K-Rain patented feature, is the same mechanism used in the Hunter PGP (K-Rain currently licenses this patent to Hunter.) With K-Rain's wide selection of standard and low angle nozzles, the RPS75 provides even water distribution.

Features:

- Direct Replacement for Hunter® PGP®.
- Right Position Start - Rotor rotates counterclockwise from fixed right start position.
- Riser Fits in Existing Hunter PGP Cans - Simply unscrew the existing riser from the PGP can and replace with the RPS75 riser.
- Top Adjustment - No training necessary, the RPS75 has the same adjustment procedure as the Hunter PGP.
- Full and Part Circle Rotation - Provides a full range of adjustment from 40° to 360°
- Non-Flushing Wiper Seal - Reduces leaks caused by debris trapped under seal.
- 3/4" Inlet - Replaces all standard rotors.
- Ideal for Low Flow Applications.
- Universal Adjustment Tool - Compatible with existing Hunter products.
- Rubber Cover - Seals out dirt and increases product durability.
- Wide Selection of Nozzles - Including standard and low angle, provides flexibility in system design.
- **Key and check disc also included in master cases.**
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**

ARC selection 40°- 360°.
Adjusts from RIGHT start.

Find performance data on following page.

Specifications:

- Inlet 3/4" female threaded NPT
- Arc Adjustment Range: 40° to 360°
- Flow range: 0.75 - 8.2 GPM
- Pressure Rating: 30-70 PSI
- Precipitation Rate: 0.12 to 1.16 inches/hour
- Overall height popped down : 7 3/8"
- Recommended spacing: 25' to 45'
- Radius: 22' to 51'
- Nozzle trajectory: 25°standard or 11°low angle
- 8 standard and 4 low angle nozzles included
- Riser Height: 4"

Part Number	Description	Ctn Qty
RPS75	RPS Standard Rotor	20

K-Rain® Rotors

RPS75™ Rotor Performance Data

STANDARD ANGLE

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.75	30	29	0.7
	40	30	0.8
	50	30	0.9
	60	31	1.0
#1	30	30	0.9
	40	31	1.0
	50	31	1.2
	60	32	1.3
#1.5	30	32	1.2
	40	33	1.4
	50	34	1.6
	60	34	1.8
#2	30	34	1.6
	40	36	1.8
	50	38	2.0
	60	38	2.2
#3	30	36	2.0
preinstalled	40	38	2.4
	50	40	2.7
	60	40	2.9
#4	30	36	2.6
	40	40	3.0
	50	42	3.4
	60	42	3.7
#6	30	38	4.2
	40	43	4.9
	50	46	5.5
	60	47	6.0
#8	40	45	6.0
	50	48	6.8
	60	49	7.6
	70	51	8.2

LOW ANGLE

#1	30	22	1.2
	40	24	1.7
	50	26	1.8
	60	28	2.0
#3	30	29	3.0
	40	32	3.1
	50	35	3.5
	60	37	3.8
#4	30	31	3.4
	40	34	3.9
	50	37	4.4
	60	38	4.7
#6	40	38	6.5
	50	40	7.3
	60	42	8.0
	70	44	8.6

Data represents test results in zero wind.

Adjust for local conditions.

Radius may be reduced with nozzle retention screw.

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K-Rain® Rotors



RPS SELECT

RPS® SELECT Rotor

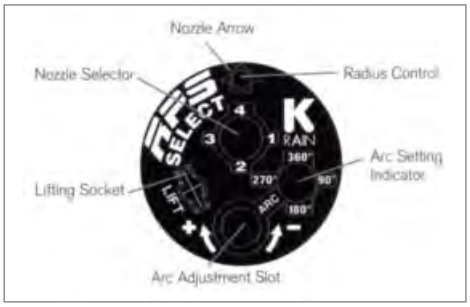
The RPS® SELECT rotary sprinkler is gear-driven for basic residential and light commercial applications. With 4 selectable built-in nozzles, matched precipitation is fast and easy without the need to change nozzles in the field.

Features:

- Four built-in selectable nozzles to match arc settings 90° to 360°
- Adjustable Arc (40° to 360°) made from the top with no special tools needed.
- Matched precipitation rate when nozzle setting matched to arc.
- 3/4" Inlet - Replaces all standard rotors.
- Low pressure operation.
- Standard Rubber Cover
- Proven gear-drive design common to the popular RPS75® series.
- Riser assembly interchanges with Hunter® PGP® rotors
- **Key and check disc also included in master cases.**
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**

Specifications:

- Inlet 3/4" female threaded NPT
- Arc Adjustment Range: 40° to 360°
- Flow range: 1.3 - 6.8 GPM
- Pressure Rating: 30-70 PSI
- Precipitation Rate: 0.23 to 0.71 inches/hour
- Overall height popped down: 7 3/8"
- Recommended spacing: 31' to 44'
- Radius: 33' to 46'



Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1 90°	30	33	1.3
	35	34	1.4
	40	37	1.5
	45	37	1.6
	50	37	1.8
#2 180°	30	37	2.6
	35	38	2.8
	40	39	3.0
	45	40	3.2
	50	40	3.6
#3 270°	30	37	3.8
	35	40	4.1
	40	41	4.5
	45	41	4.7
	50	43	4.9
#4 360°	30	38	5.2
	35	40	5.7
	40	44	6.0
	45	45	6.4
	50	46	6.8

Part Number	Description	Ctn Qty
RPS SELECT	RPS Select Rotor	20

K-Rain® Rotors



13003

MiniPro™ Rotor

Perfect for small lawn and landscape areas and for replacing fixed sprays. Direct replacement for the Toro Mini8.

Features:

- Gear driven, rotary type sprinkler capable of covering an area of 17’ to 30’.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- Adjustable rotation provides a full range of adjustments from 40° to 360°. Patented arc set degree markings clearly indicate current watering pattern and simplifies adjustment
- Adjustable in all phases of installation - before, after while static or while in operation.
- Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 5 numerically coded interchangeable nozzles. Wide selection of nozzles provides flexibility in system design to achieve matched precipitation.
- Heavy duty rubber cover seals out durt and increases durability.
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**



Specifications:

- Inlet 1/2" NPT
- Arc adjustment range 40° to 360°
- Flow range: 0.75 - 3.3 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.22 to 0.41 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 6"
- Recommended spacing: 17’ to 28’
- Radius: 17’ to 30’
- Nozzle trajectory: 26°
- Riser Height: 4", 6" or 12".

MiniPro™ Rotor Performance Data

STANDARD ANGLE Red Nozzle

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.75	30	17’	.75
	40	17’	.8
	50	18’	.9
#1	30	20’	.9
	40	21’	1.2
	50	21’	1.3
#1.5	30	23’	1.4
preinstalled	40	24’	1.7
	50	24’	1.9
#2	30	25’	1.8
	40	27’	2.1
	50	27’	2.4
#3	30	28’	2.7
	40	30’	3.0
	50	30’	3.3

ARC selection 40°- 360°.
Adjusts from LEFT start.

Part Number	Description	Ctn Qty
13003	MiniPro short range rotor 4"	25
13006	MiniPro short range rotor 6"	20
13012	MiniPro short range rotor 12"	12

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K-Rain® Rotors



11003

ProPlus™ 11003 Rotor

Appropriate for medium to large landscape areas with high level risers and shrubs.
Direct replacement for the Toro Super800.

Features:

- Gear driven, rotary type sprinkler capable of covering an area of 22' to 50'.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- 2N1 adjustable or continuous rotation provides a full range of adjustments from 40° to a full 360°. Patented arc set degree markings show the degree of adjustment with the point of an arrow on the top cover.
- Arc memory clutch returns rotor to its preset position automatically even after being tampered with. Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 9 numerically coded interchangeable nozzles including 4 low angle nozzles. Wide selection of nozzles provides flexibility in system design to achieve matched precipitation.
- Heavy duty rubber cover seals our dirt and increases durability.
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**





ARC selection 40° to continuous 360°.
Adjusts from LEFT start.

Find performance data on following page.

Specifications:

- Inlet 3/4" threaded NPT
- Arc Adjustment Range: 40° to continuous 360°
- Flow range: 0.5 - 10.0 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.06 to 0.50 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 7 1/2"
  17" for High pop
- Recommended spacing: 28' to 44'
- Radius: 22' to 50'
- Nozzle trajectory: 26°standard or 12°low angle
- Riser Height: 5"

Part Number	Description	Ctn Qty
11003	ProPlus mid-range rotor	20

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K-Rain® Rotors

ProPlus™ 11003 Rotor Performance Data

STANDARD ANGLE
Red Nozzle

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.5	30	28	0.5
	40	29	0.6
	50	29	0.7
	60	30	0.8
#0.75	30	29	0.7
	40	30	0.8
	50	31	0.9
	60	32	1.0
#1	30	32	1.3
	40	33	1.5
	50	34	1.6
	60	35	1.8
#2	30	37	2.4
	40	40	2.5
	50	42	3.0
	60	43	3.3
#2.5	30	38	2.5
preinstalled	40	39	2.8
	50	40	3.2
	60	41	3.5
#3	30	38	3.6
	40	39	4.2
	50	41	4.6
	60	42	5.0
#4	30	43	4.4
	40	44	5.1
	50	46	5.6
	60	49	5.9
#6	40	45	5.9
	50	46	6.0
	60	48	6.3
	70	49	6.7
#8	40	42	8.0
	50	45	8.5
	60	49	9.5
	70	50	10.0

LOW ANGLE
Green Nozzle

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1	30	22	1.2
	40	24	1.7
	50	26	1.8
	60	28	2.0
#3	30	29	3.0
	40	32	3.1
	50	35	3.5
	60	37	3.8
#4	30	31	3.4
	40	34	3.9
	50	37	4.4
	60	38	4.7
#6	40	38	6.5
	50	40	7.3
	60	42	8.0
	70	44	8.6

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Ph: 800-776-2266 Fax: 800-729-3299

K-Rain® Rotors



10003

SuperPro™ 10003 Rotor

With flow control, appropriate for residential or light commericial.
Direct replacement for the Toro Super 800.

Features:

- Riser fits in existing Toro Super800 cans.
- Gear driven, rotary type sprinkler capable of covering an area of 26’ to 49’.
- Patented flow control valve inside the rotor allows individual head to be turned off or be partially closed to reduce the distance by up to 75%. Additionally it simultaneously reduces the flow rate creating an added water savings.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- 2N1 adjustable or continuous rotation provides a full range of adjustments from 40° to continuous 360°. Patented arc set degree markings show the degree of adjustment with the point of an arrow on the top cover.
- Arc memory clutch returns rotor to its preset position automatically even after being tampered with. Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 9 numerically coded interchangeable nozzles including 4 low angle nozzles.
- Heavy duty rubber cover seals our dirt and increases durability.
- 5 year limited warranty.





ARC selection 40° to continuous 360°.
Adjusts from LEFT start.

Specifications:

- Inlet 3/4" threaded NPT
- Arc Adjustment Range: 40° to continuous 360°
- Flow range: 0.5 - 10.0 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.05 to 0.74 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 7 1/2"
- Recommended spacing: 28’ to 44’
- Radius: 26’ to 49’
- Nozzle trajectory: 26°standard or 12°low angle
- Riser Height: 5"

Part Number	Description	Ctn Qty
10003	SuperPro rotor	20

Find performance data on following page.

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K-Rain® Rotors

SuperPro™ 10003 Rotor Performance Data

STANDARD ANGLE

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.5	30	30	0.45
	40	29	0.5
	50	26	0.6
	60	26	0.7
#0.75	30	32	0.7
	40	32	0.8
	50	33	0.9
	60	33	1.0
#1	30	30	1.1
	40	32	1.3
	50	33	1.5
	60	33	1.6
#2	30	38	2.3
	40	38	2.5
	50	40	2.7
	60	42	3.0
#2.5	30	35	2.5
preinstalled	40	36	2.8
	50	37	3.2
	60	38	3.6
#3	30	35	3.4
	40	36	3.8
	50	38	4.2
	60	39	4.8
#4	30	42	4.1
	40	44	4.6
	50	45	5.1
	60	46	5.7
#6	40	46	5.8
	50	48	6.4
	60	49	7.0
	70	49	7.5
#8	40	42	7.5
	50	45	8.2
	60	48	9.0
	70	48	9.5

LOW ANGLE

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1	30	26	1.3
	40	27	1.5
	50	27	1.7
	60	28	1.9
#3	30	29	2.9
	40	30	3.3
	50	31	3.4
	60	33	4.0
#4	30	28	4.0
	40	31	4.7
	50	34	5.0
	60	36	6.0
#6	40	30	6.0
	50	34	7.0
	60	37	7.8
	70	38	8.2

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K-Rain® Sprays



K Spray Series

K-Spray Series Spray Bodies

Ideal for watering smaller areas, ground cover and shrub areas.

Features:

- Available in 3", 4" 6" and 12" models which provide flexibility in design.
- **Accepts MALE threaded nozzles.**
- Stainless steel retraction spring provides reliable retraction of the riser in all soil conditions.
- Ratchet riser allows for easy pattern alignment by turning the riser.
- Heavy duty wiper seal ensures leak free, full pop-up operation even under low pressure situations.

Specifications:

- Inlet 1/2" NPT female thread
- Flow range: 0.5 - 4.6 GPM
- Pressure Rating: 20-50 PSI
- Precipitation Rate: 0.4 to 1.91 inches/hour

Part Number	Description	Ctn Qty
74001	4" Pop-up Spray body (less nozzles)	50
76001	6" Pop-up Spray body (less nozzles)	50
71201	12" Pop-up Spray body (less nozzles)	25

K-Rain® Sprays



PRO-S Spray





Co-molded wiper seal

Pro-S Pop-Up Sprays

A rugged, contractor friendly spray line designed to be compatible with ALL standard female threaded nozzles.
Direct replacement for RainBird® 1800 Series sprays.

Features:

- Available in 2", 3", 4" 6" and 12" models which provide flexibility in design.
- **Accepts FEMALE threaded nozzles.**
- Co-Molded wiper seal ensures a leak free, full pop up operation under low pressure situations. Cartridge design allows for easy removal and cleaning. Treated with UV inhibitors for long life. Seal is microbe resistant to reduce degradation and stick ups.
- Ratcheting riser allows for easy pattern alignment by turning the riser.
- Heavy duty retraction spring for positive retraction in all soil conditions.
- Side and bottom inlet on 6" and 12" models.
- Pre-installed flush cap.
- 5 year Limited Warranty.

Specifications:

- Inlet 1/2" NPT Female Thread
- Flo range: 0 @ 8 psi, 0.10 gpm
- Pressure Rating: 20-70 psi
- Precipitation Rate: 0.4-4 inches/hour
- Overall Body Height: 2" pop up - 4"
  - 3" pop up - 4 7/8"
  - 4" pop up - 6"
  - 6" pop up - 9 3/8"
  - 12" pop up - 16"

Part Number	Description	Ctn Qty
78002	2" Pop up spray	50
78003	3" Pop up spray	50
78004	4" Pop up spray	50
78006	6" Pop up spray	50
78012	12" Pop up spray	25

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K-Rain® Nozzles



RN Rotary Nozzle



Fixed Pattern Rotary Nozzle

Provides increased uniform coverage over conventional fized spray nozzles while delivering matched precipitation.

Features:

- Perfect for upgrading old irrigation systems by solving low pressure and coverage problems.
- Matched precipitation across various radii and patterns.
- Low precipitation rate reduces run off.
- Low flow rate means less material and fewer zones.
- 25% radius reduction for patented flow control, no tools required.
- Unique speed control maintains the speed of rotation over varying pres sure ranges.
- Any pattern can be combined in the same zone with matched precipitation.
- Larger filter prolongs product life.
- 2 year Limited Warranty.

Specifications:

- Spacing: 13-17 ft
- Pressure Rating: 20-45 psi
- Precipitation Rate: 0.67 - 0.99 inches/hour depending on head spacing.

FIXED PATTERN ROTARY NOZZLES - PERFORMANCE SPECS

Part Number	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Flow GPH	Precip	Precip
RN200-90	90°	25	13	0.38		0.99	0.86
		30	14	0.41		0.93	0.81
		35	15	0.45		0.89	0.77
		40	16	0.48		0.84	0.72
		45	17	0.51		0.78	0.68
RN200-180	180°	25	13	0.74		0.97	0.84
		30	14	0.81		0.92	0.80
		35	15	0.90		0.89	0.77
		40	16	0.96		0.83	0.72
		45	17	1.00		0.77	0.67
RN200-360	270°	25	13	1.50		0.99	0.85
		30	14	1.70		0.96	0.83
		35	15	1.80		0.89	0.77
		40	16	2.00		0.87	0.75
		45	17	2.10		0.81	0.70

Part Number	Description	Ctn Qty
RN100-ADJ	Rotary Nozzle - Adjustable 80-360°10-17'	10
RN200-ADJ	Rotary Nozzle - Adjustable 80-360°17-21'	10
RN300-ADJ	Rotary Nozzle - Adjustable 80-360°21-26'	10

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K-Rain® Nozzles



KV Nozzles

Find performance data on following page.

KV Variable Arc Nozzles

KV adjustable nozzles have a MALE thread configuration to fit K-Spray bodies.

Features:

- Superior spray pattern ensures proper precipitation rates throughout the adjustment.
- Color coded by distance.
- Extra long filters provide longer time between cleaning.

Part Number	Description	Color	Ctn Qty
KV8	8’ Variable arc nozzle male thread	Green	25
KV10	10’ Variable arc nozzle male thread	Blue	25
KV12	12’ Variable arc nozzle male thread	Brown	25
KV15	15’ Variable arc nozzle male thread	Black	25
KV17	17’ Variable arc nozzle male thread	Gray	25



KVF Nozzles

Find performance data on following page.

KVF Variable Arc Nozzles

KVF adjustable nozzles have a FEMALE thread configuration to fit RPS and PRO-S spray bodies.

Features:

- Superior spray pattern ensures proper precipitation rates throughout the adjustment.
- Color coded by distance.
- Extra long filters provide longer time between cleaning.

Part Number	Description	Color	Ctn Qty
KVF8	8’ Variable arc nozzle female thread	Green	25
KVF10	10’ Variable arc nozzle female thread	Blue	25
KVF12	12’ Variable arc nozzle female thread	Brown	25
KVF15	15’ Variable arc nozzle female thread	Black	25

K-Rain® Nozzles

VARIABLE ARC NOZZLES - PERFORMANCE SPECS FOR KV NOZZLES



Arc	Pressure PSI	8' GREEN Radius Ft.	Flow GPM	10' BLUE Radius Ft.	Flow GPM	12' BROWN Radius Ft.	Flow GPM	15' BLACK Radius Ft.	Flow GPM	17' GRAY Radius Ft.	Flow GPM
90°	20	9	0.7	12	0.7	12	1.1	15	1.3	18	1.7
	30	9	1.1	12	1.1	13	1.3	17	1.6	18	1.8
	40	10	1.4	13	1.4	14	1.5	18	1.8	19	2.0
	50	11	1.5	14	1.5	15	1.7	19	2.0	20	2.2
180°	20	8	1.4	11	1.4	11	1.6	14	1.8	17	1.9
	30	8	1.6	11	1.6	12	1.8	15	2.3	18	2.4
	40	9	1.8	12	1.8	13	2.2	16	2.6	19	2.6
	50	10	2.0	13	2.0	14	2.4	18	2.8	19	2.6
270°	20	8	1.7	10	1.7	11	1.9	14	2.7	16	2.9
	30	8	2.0	10	2.0	12	2.4	15	3.2	17	3.4
	40	8	2.3	11	2.3	12	2.6	16	3.6	18	4.0
	50	9	2.6	12	2.6	13	3.0	16	4.0	18	4.0
360°	20	8	2.2	10	2.2	11	2.8	13	3.4	15	3.5
	30	8	2.7	10	2.7	12	3.1	15	4.2	17	4.4
	40	8	3.0	11	3.0	12	3.5	15	4.7	17	4.9
	50	8	3.5	12	3.5	13	3.9	16	5.3	18	5.4

VARIABLE ARC NOZZLES - PERFORMANCE SPECS FOR KVF NOZZLES



Arc	Pressure PSI	8' GREEN Radius Ft.	Flow GPM	10' BLUE Radius Ft.	Flow GPM	12' BROWN Radius Ft.	Flow GPM	15' BLACK Radius Ft.	Flow GPM	17' GRAY Radius Ft.	Flow GPM
90°	20	9	0.40	9	0.40	10	0.45	13	0.55	17	0.80
	25	9	0.42	9	0.42	11	0.52	14	0.63	18	0.94
	30	10	0.45	10	0.45	12	0.55	15	0.70	19	1.05
	40	10	0.50	10	0.50	12	0.60	16	0.80	19	1.30
180°	20	9	1.00	9	1.00	9	1.10	13	1.30	17	1.70
	25	9	1.10	9	1.10	10	1.21	14	1.49	17	1.92
	30	10	1.20	10	1.20	10	1.35	15	1.65	19	2.15
	40	10	1.25	10	1.25	11	1.53	16	2.00	19	2.50
270°	20	9	1.40	9	1.40	9	1.60	13	1.90	16	2.40
	25	10	1.59	10	1.59	10	1.74	15	2.15	16	2.82
	30	10	1.75	10	1.75	10	1.95	15	2.35	17	3.00
	40	10	2.05	10	2.05	11	2.05	16	2.70	18	3.50
360°	20	9	2.30	9	2.30	9	2.40	13	2.80	16	2.90
	25	10	2.51	10	2.51	10	2.61	14	3.26	17	3.40
	30	10	2.65	10	2.65	11	2.78	15	3.60	17	3.80
	40	11	2.75	11	2.75	12	3.03	15	4.10	17	4.40

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K-Rain® Nozzles



Fixed Nozzles

Fixed Pattern Female Nozzles

Matched precipitation female nozzles are compatible with ALL available male threaded bodies.

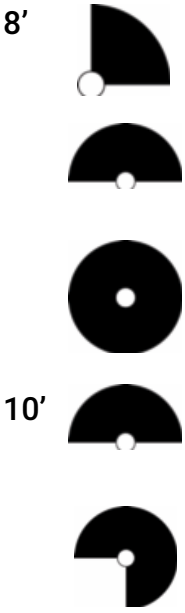
Features:

- Color coded for easy identification.
- Four distances plus eight fixed patterns provides an array of configurations.
- Matched precipitation allows for even water distribution.

Series Number	Description	Color	Ctn Qty
FN8 *	8' Fixed pattern female nozzle	Green	25
FN10 *	10' Fixed pattern female nozzle	Blue	25
FN12 *	12' Fixed pattern female nozzle	Brown	25
FN15 *	15' Fixed pattern female nozzle	Black	25

*** Add nozzle pattern reference letter to complete part number.**

Fixed Pattern FEMALE THREADED Nozzles Performance & Pricing



Pattern Letter*	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Ctn Qty	Part Number
Q	90°	15	5	0.18	25	FN8Q
		20	6	0.21		
		25	7	0.24		
		30	8	0.26		
H	180°	15	5	0.37	25	FN8H
		20	6	0.41		
		25	7	0.47		
		30	8	0.52		
F	360°	15	5	0.74	25	FN8F
		20	6	0.86		
		25	7	0.95		
		30	8	1.05		
H	180°	15	7	0.58	25	FN10H
		20	8	0.65		
		25	9	0.72		
		30	10	0.79		
TQ	270°	15	7	0.87	25	FN10TQ
		20	8	0.98		
		25	9	1.08		
		30	10	1.18		

K-Rain® Nozzles

Fixed Pattern THREADED Nozzles Performance & Pricing

12’





15’







Pattern Letter*	Nozzle Pattern	MALE (P) Pressure PSI	MALE (P) Radius Ft.	MALE (P) Flow Rate GPM	FEMALE (FN) Pressure PSI	FEMALE (FN) Radius Ft.	FEMALE (FN) Flow Rate GPM	Ctn Qty	MALE/FEMALE Part No
H	180°	20	11	0.9	15	9	0.90	25	P12H
		25	12	1.1	20	10	1.05		
		40	13	1.4	25	11	1.20		
		50	14	1.5	30	12	1.30		
F	360°	20	10	1.6	15	9	1.80	25	P12F
		25	12	1.8	20	10	2.10		
		40	13	2.1	25	11	2.40		
		50	14	2.4	30	12	2.60		
Q	90°	20	15	0.7	15	11	0.65	25	P15Q
		30	16	0.9	20	12	0.75		FN15Q
		40	17	1.1	25	14	0.82		
		50	18	1.2	30	15	0.92		
H	180°	20	14	1.4	15	11	1.30	25	P15H
		30	15	1.7	20	12	1.50		FN15H
		40	16	2.0	25	14	1.65		
		50	17	2.2	30	15	1.85		
F	360°	20	13	2.9	15	11	2.60	25	P15F
		30	15	3.6	20	12	3.00		FN15F
		40	16	4.1	25	14	3.30		
		50	17	4.6	30	15	3.70		

Special Pattern Nozzles Performance & Pricing





Pattern Letter*	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Ctn Qty	MALE Part No	FEMALE Part No.
CS	CENTER	20	4’ X 24’	0.8	25	P15CS	
	STRIP	30	4’ X 30’	1.0			FN15CS
SS	STRIP	30	4’ X 32’	1.3	25		FN15SS

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K-Rain® Solenoid Valves



7001 Series



7001-NFC Series



7001-MXB Series
Designed for polyethylene piping systems, requires fewer fittings and can be installed quickly.



Flow Through



Self Cleaning Screen

Pro Series 100 Solenoid Valves

A contemporary tilt diaphragm makes this the perfect choice for residential, light commercial and dirty water applications.

Features:

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- Combination 1" and 1 1/4" connections provide the option to increase the pipe size to the valve increasing the flow rate.
- Tilted diaphragm/piston assembly allows for a straight flow path of the water increasing the flow rate while reducing the friction loss.
- Debris tolerant design provides flexibility for use in potable or dirty water applications.
- Manual external bleed through bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Flow control with removable handle allows for precise flow adjustment, manual shut-off and allows you to remove the handle to prevent tampering.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- Self cleaning metering screen is in the turbulent flow of water allowing self cleaning action during operation.
- 5 year Limited Warranty.

Specifications:

- Dimensions: 4" H x 3" W x 5 1/4" L
- Flow range: 0.75-35 GPM
- Pressure Rating: 20-150 PSI
- Pressure Loss @ 30 gpm - 5 psi
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.43 Amps
- Holding Current: 0.25 Amps

Part Number	Description	Ctn Qty
7001	1" Female thread or 1 1/4" Male slip	12
7001-SL	1" Female slip or 1 1/4" Male slip	12
7001-NFC	1" Female th or 1 1/4" Male sl NO FLOW CONTROL	12
7001-SL-NFC	1" Female sl or 1 1/4" Male sl NO FLOW CONTROL	12
7001-MXB	1" Male x Barb	12
7001-MXB-NFC	1" Male x Barb NO FLOW CONTROL	12

K-Rain® Solenoid Valves



7101 and 7101-J Series

Pro Series 150 1" Solenoid Valves

Offer the professional a wide array of features and benefits.
Use for residential, light commercial, dirty water applications.

Features:

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- External bleed screw with removable metering pin allows for cleaning of the pin without disassembling the valve.
- **Threaded jar top** allows for quick removal of the cap for easy servicing. The glass filled nylon screw cap increases durability.
- **7101-J Series is direct replacement for Irritrol 2400.**
- Manual external bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- 5 year Limited Warranty.



No tools needed with Jar Top



Manual External Bleed Screw

Specifications:

- Dimensions: 5 1/4" H x 3 1/8" W x 5"
  5 1/4" H x 3" W x 4 3/8" Jar Top
- Flow range: 0.25-30 GPM
- Pressure Rating: 10-150 PSI
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.4 Amps
- Holding Current: 0.2 Amps

Performance Data:

GPM	5	10	15	20	30
ProSeries 150 1" valve					
PSI LOSS	2.9	2.1	1.8	3.0	5.0
ProSeries 150 1" valve with jar top					
PSI LOSS	3.3	3.9	2.9	3.2	6.1

Part Number	Description	Ctn Qty
7101	1" Female thread NPT	12
7101-SL	1" Female Slip	12
7101-J	1" Female Thread Jar Top, NPT	12
7101-J-SL	1" Female Slip Jar Top	12

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K-Rain® Solenoid Valves



7102 and 7115 Series

Pro Series 150 1 1/2" and 2" Solenoid Valves

Feature a removable inlet cap to easily modify the configuration from globe to angle style.
Alternate to Irritrol 216b and 217b.

Features:

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- External bleed screw with removable metering pin allows for cleaning of the pin without disassembling the valve.
- Manual external bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Removable inlet cap allows for easy conversion from globe to angle style valve.
- Flow control allows for precise flow adjustment and manual shutoff.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- Heavy duty santoprene diaphragm design improves durability.
- 5 year Limited Warranty.



System Flexibility

Specifications:

- Dimensions: 1 1/2" valve: 8" H x 4 1/4" W x 5 1/2" L
  2" valve: 8 7/8" H x 4 7/8" W x 6 1/3" L
- Flow range: 5-120 GPM
- Pressure Rating: 20-150 PSI
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.4 Amps
- Holding Current: 0.2 Amps

Performance Data:

GPM		20	30	40	50	60	80	100	120
ProSeries 150 1 1/2" valve									
PSI LOSS	globe	3.0	2.6	2.3	2.9	4.1	5.5		
	angle	2.7	2.2	1.9	2.2	3.0	4.4		
ProSeries 150 2" valve									
PSI LOSS	globe	2.0	1.9	1.7	1.5	1.6	2.9	4.8	6.2
	angle	1.9	1.9	1.7	1.5	1.5	2.1	3.2	4.6

Part Number	Description	Ctn Qty
7115	1 1/2" Female Thread, NPT	6
7102	2" Female Thread, NPT	6

K-Rain® Controllers



RPS46 Series

RPS46 Controller

Designed for residential applications the RPS46 has four individual programs to allow for efficient watering on separate programs.

Features:

- 4 and 6 station models for residential lawns.
- 4 fully independent programs allowing up to 4 starts per program, maximum of 16 starts per day.
- Indoor models with external transformer and plug.
- Seasonal adjustment allows adjustment of watering durations from 25% to 150%.
- Rain sensor ready - accepts rain sensor signal and is controlled by a bypass switch.
- Flexible manual operations to run a program, station or test.
- Battery back-up holds programs during power outages.
- 2 year Limited Warranty.

Specifications:

- Dimensions: 5.7" H x 4.5" W x 1.7" D
- Station run times: 1 min - 12 hours 59 min.
- Programs: 4
- Start Times: 4 per program
- Water Schedules:
  - 7 day calendar w/ individual day selection
  - Odd/Even day or interval watering.
- Rain sensor ready inhibits automatic watering when wet conditions are detected by a rain sensor.
- Master valve / pump start signal.
- Automatic, semi-automatic and single station manual operation.

Electrical Specifications:

- Electrical Power Supply: 110-120 VAC/ 60 Hz/ 230 VAC 50 Hz.
- Electrical Outputs: 24 Volt AC, 0.85 amp.
- To Solenoid Valves: 24 VAC 50/60 Hz 0.5 amp max.
- Total output load must not be exceeded by the valves and pump requirements.
- Overload protection: Standard 20mm 1 amp fuse.
- Power failure: 9 volt standard alkaline battery maintains clock and programs for up to 2 weeks.
- Wiring: The output circuits should be installed and protected in accordance with wiring rules.

Part Number	Description	Ctn Qty
3504	4 station, 110 volt external transformer	1
3506	6 station, 110 volt external transformer	1

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K-Rain® Controllers



PRO LC Series

PRO LC Modular Controller

For residential and light commercial applications. Now wifi ready.

The Pro LC is available in fixed 4, 8, or 12 station outdoor models. Compact controllers offer an array of user-friendly features including easy to follow programming, full program screen display, large LCD display, rain/freeze sensor compatibility, seasonal adjust, buried valve locator and more.

Specifications:

- Dimensions: 7" H x 7" W x 3.5" D
- Station run times: 1 sec - 6 hours for all stations
- Programs: 3
- Automatic Start Times: 4 per program
- Program Water Schedule:
  - Custom (day of the week)
  - Odd or Even (calendar days)

Electrical Specifications:

- Power Input: 110 V AC +/- 10% 60 Hz
- Power Output: 24 V AC, 1.0 amp.
- Power Backup: Lithium coin-cell battery maintains time and date during primary power outages.
- Multi-Valve Operation: Up to 4 24V AC, 7VA solenoid valves.

Features:

- Patented Full Program Display with one screen shows watering days, start times, stations and special programing.
- Now comes wi-fi ready. Wifi requires the BRIDGE module, sold separately.
- Short Circuit protection identifies and isolates stations with short circuits while programs continue.
- Station delay/overlap programming permits additional time between stations or dual operation for maintenance issues.
- AM/PM or 24 hour clock settings.
- System Test allows a full system check for valve operation.
- Manual Start allows manual program operation.
- Permanent Memory saves programs during power outages.
- Location feature aids in locating buried valves.
- Sensor bypass switch for global override.
- Master valve/pump start relay permits individual station programming.
- Dedicated Sensor enables direct sensor installation for maximum watering control.
- Default programming saves and recalls programs.
- Permanent day off watering feature.
- Seasonal adjust of watering times from 10-200% conserves water.

Part Number	Description	Ctn Qty
3104W	4 Station 110V AC internal transformer	1
3108W	8 Station 110V AC internal transformer	1
3112W	12 Station 110V AC internal transformer	1
3100-BRIDGE	ProLC WIFI bridge	1

K-Rain® Controllers



2000 Series

2000 Series Single Station Controller

Single station controllers stay safe with rain-tight enclosures.

Features:

- 24 hour programmable time dial with multiple start times and a wide variety of timing periods including skip-a-day 14 day program.
- UL approved components.
- Perfect for nursery or mist applications.
- 2200 models have 10 minute programmable dial with a wide variety of timing periods in multiples of 1.5, 3 and 6 seconds and multiple start times.
- 2500 models are prewired for easy connection of a rainswitch and allows manual overide of rainswitch from controller face.
- 2520 model allows operation of 24 volt rainswitch and 2 hp 220 volt pump with same controller.
- 2 year Limited Warranty.

Part Number	Voltage Input	Voltage Output	Rating	Ctn Qty
2100 Single Station Controllers				
2110	110 VAC, 60 Hz	110 VAC, 60 Hz	Single Pole, up to 1 HP	6
2112	110 VAC, 60 Hz	110 VAC, 60 Hz	Double Pole, up to 2 HP	6
2114	110 VAC, 60 Hz	24 VAC, 30 VA	Built in Transformer	6
2120	220 VAC, 60 Hz	220 VAC, 60 Hz	Double Pole, up to 2 HP	6
2200 Short Duration Single Station Controllers				
2210	110 VAC, 60 Hz	110 VAC, 60 Hz	up to 1 HP	6
2214	110 VAC, 60 Hz	24 VAC, 30 VA	Built in transformer	6
2500 Rainswitch Ready Controllers				
2510	110 VAC, 60 Hz	110 VAC, 60 Hz	Double Pole, up to 2 HP	6
2514	110 VAC, 60 Hz	24 VAC, 30 VA	Built in transformer	6
2520	220 VAC, 60 Hz	220 VAC, 60 Hz	Double Pole, up to 2 HP	6

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K-Rain® Pump Start Relays



1500 Series

1500 Series Pump Start Relays

Features:

- Industrial, rain tight, secure, rustproof industrial grade enclosure ensures long product life and deters tampering. UV resistant and shockproof.
- UL approved components.
- Large easy access enclosure provides easy accessibility during wiring.
- Enclosure has 8 recessed knock-outs to provide easy connections from any direction.
- 24 or 110 VAC coils for applications up to 10 hp.
- 4 plastic inset cover screws provide extra system security reduces liability and deters tampering.
- 2 year Limited Warranty.

Specifications:

- Dimensions: 7" H x 5" W x 4 5/8" D
- 24 VAC, 60 Hz or 110 VAC, 60 Hz
- Double pole, single throw

	Model #1522	Model #1521	Model #1552	Model #1551
• Inrush:	35 VA	42 VA	60 VA	77 VA
• Sealed:	7.0 VA, 3 watts	8.5 VA, 3.6 watts	7 VA, 2.3 watts	10 VA, 4 watts
• Resistance (±10%):	11 ohms	210 ohms	5.61 ohms	89.5 ohms
• Inductive:	20 amp	20 amp	40 amp	40 amp
• Resistive:	30 amp	30 amp	50 amp	50 amp
• Input 120 V:	up to 3 hp	up to 3 hp	up to 3 hp	up to 3 hp
• Input 240 V:	up to 3 hp	up to 3 hp	up to 5 hp	up to 5 hp



Part Number	Description	Volts	Ctn Qty
1522	3 hp pump start relay	24 VAC	8
1521	3 hp pump start relay	110 VAC	8
1552	5 hp pump start relay	24 VAC	8
1551	5 hp pump start relay	110 VAC	8

K-Rain® Rain Sensor



3208



3208 Rain Sensor Features:

- Turns irrigation controllers into water managers by suspending watering during rain and/or freeze periods.
- Weather resistant. Made of UV resistant polymer for outdoor exposure.
- Maintenance free. No batteries to replace.
- 2 in 1 mounting provides flexible installation with standard flat and gutter mounting.
- HRFS includes a freeze sensor that prevents the system from starting when temperatures drop to 37° F or below.

Part Number	Description	Ctn Qty
3208-HRS	Hardwired Rain Sensor	1
3208-HRFS	Hardwired Rain/Freeze Sensor	1

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K-Rain® Indexing Valves



4000 Series

4000 Series Indexing Valves

Features:

- Automates multiple zoned residential and small commerical irrigations systems.
- Ideally suited for both city water and pump applications.
- ABS Polymer body construction is high strength, non-corrosive for long product life.
- Available in 4 and 6 outlet models to easily change from two to six watering zones.
- Operates at low 10 gpm at pressures of 25-75 psi.
- Simplicity of design and few moving parts ensures easy maintenance and long life.
- 2 year Limited Warranty.

Specifications:

- ABS polymer construction
- Dimensions: 5 3/4" H x 5 3/4" W
- Flow Range: 10-40 gpm
- Pressure rating: 25-75 psi
- Pressure Loss

4 outlet valve	Flow gpm	10	20	30	40
	PSI loss	2.0	3.0	4.5	6.4
6 outlet valve	Flow gpm	10	20	30	
	PSI loss	2.5	4.5	7.5	

Part Number	Description	Zones	Ctn Qty
4400	4 outlet index valve	NO cam	8
4402	4 outlet index valve	2 zones	8
4403	4 outlet index valve	3 zones	8
4404	4 outlet index valve	4 zones	8
P6107042	2 zone cam only		5
P6107043	3 zone cam only		5
P6107044	4 zone cam only		5
4600	6 outlet index valve	NO cam	8
4602	6 outlet index valve	2 zones	8
4603	6 outlet index valve	3 zones	8
4604	6 outlet index valve	4 zones	8
4605	6 outlet index valve	5 zones	8
P6107063	3 zone cam only		5
P6107065	5 zone cam only		5
P6107066	6 zone cam only		5
P6200400	Cam screws - set of 2 per bag		5

K-Rain® Indexing Valves



KR6000 Series

KR6000 Series Indexing Valves

Features:

- Automates multiple zoned residential and small commerical irrigations systems with high pressure.
- Recommended for pump fed or high-flow city water systems.
- Metal die-cast body is durable, long lasting and capable of high pressure applications.
- Available in 4 and 6 outlet models to easily change from two to six watering zones.
- Operates at 15 gpm at pressures of 25-150 psi.
- Built-in atmospheric vacuum breaker releases any vacuum created between the pump and valve on shut down.
- 2 year Limited Warranty.



Specifications:

- Die-cast medal valve top/housing, ABS polymer outlets.
- Dimensions: 7" H x 8" W
- Inlet: 1 1/2" threaded NPT connection
- Outlet: Slip and glue connections to 1 1/2" PVC pipe
- Flow Range: 15-150 gpm
- Pressure rating: 25-150 psi
- Pressure Loss

4 outlet valve	Flow gpm	20	40	60	80	100
	PSI loss	2.5	3.5	5.0	7.5	10.0
6 outlet valve	Flow gpm	20	40	60	80	100
	PSI loss	3.0	4.0	6.0	9.0	11.0

Part Number	Description	Zones	Ctn Qty
KR6402	4 outlet index valve	2 zones	4
KR6403	4 outlet index valve	3 zones	4
KR6404	4 outlet index valve	4 zones	4
KR6605	6 outlet index valve	5 zones	4
KR6606	6 outlet index valve	6 zones	4

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Irrigation Solenoid Valves



TFV and TFV-F Series



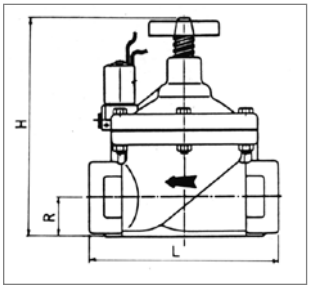
H701

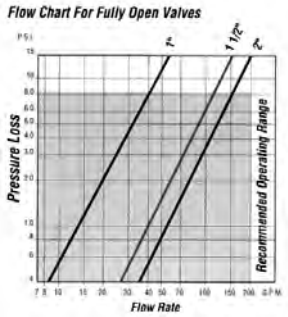
TFV Irrigation Solenoid Valve Features:

- Rugged glass-reinforced nylon construction.
- For residential, commercial and agricultural irrigation systems only.
- High strength, long life natural rubber diaphragm.
- In line globe design.
- Normally closed valve provides slow and smooth opening and closing.
- Quarter turn downstream bleed lever allows manual operation without external water spills.
- High flow rate with low head loss.
- Flow control available for exact water flow adjustment.
- Accurate operation over a wide range of pressure flows.
- In line maintenance - No need to remove valve from line for service.
- Standard and flow control models available.
- Available with standard 24 volt or optional 110 volt solenoid.

TFV Series irrigation solenoid valves are designed and intended for use in turf irrigation applications only. While these valves may operate in applications other than they are intended, the AGI warranty will not apply for those uses.

**** NO RETURNS on any special order valves.**





Specifications:

Voltage	24 Volts AC 3 Watts
Current	Inrush .48 AMPS; Holding .24 AMPS
Max. Working Temp	180ºF
Max. Operating Pressure	150 PSI
Min. Operating Pressure	10 PSI
Recommended minimum pressure differential	7 PSI
Valve Body	Glass reinforced Nylon
Inner Plastic Parts	Acetal
Diaphragm	Natural rubber
Seals	Buna-N
Metal Parts and Screws	Stainless Steel 303

Part Number	Size (FPT)	Volts	Flow Control	Weight	Dimensions L	H	R	Width	Ctn Qty
TFV100T	1"	24	No	12.5 oz	4 5/16	2 1/2	7/8	3 1/16	20
TFV100T110V	1"	110	No	12.5 oz	4 5/16	2 1/2	7/8	3 1/16	20
TFV100TF	1"	24	Yes	12.5 oz.	4 5/16	4 1/2	7/8	3 1/16	20
TFV100TF110V	1"	110	Yes	12.5 oz.	4 5/16	4 1/2	7/8	3 1/16	20
TFV150TF	1 1/2"	24	Yes	2.2 lbs.	6 5/16	7 3/16	15/16	5	5
TFV150TF110V	1 1/2"	110	Yes	2.2 lbs.	6 5/16	7 3/16	15/16	5	5
TFV200TF	2"	24	Yes	2.2 lbs,	6 3/4	7 3/8	1 1/2	5	5
TFV200TF110V	2"	110	Yes	2.2 lbs,	6 3/4	7 3/8	1 1/2	5	5

Replacement Solenoid Assemblies

H701-24	24 volt
H701-110	110 volt

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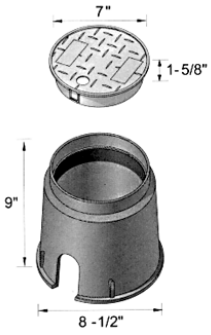
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Valve Boxes



Valve Box Features:

- Bodies made from structural polyolefin.
- Covers made with UV inhibitors to prevent discoloration and deterioration.
- Nestable for easy storage.
- 10" round and all rectangular boxes include brass insert so bolts may be added for easy lock down.
- ICV cover design, green covers for water applications.



6" Round Economy

Part Number	Description	Pallet Qty
6" Round Economy Box with overlapping lip snap-on green cover		
D109-G	Box w/ cover	600
D109GL	Cover only	1



6" Round

6" Round Box with overlapping lip snap-on green cover		
107BCH	Box w/ cover	250
107CH	Cover only	1
107BCS	Box w/ sewer cover	250
107BC	ICV Box w/ cover	250
107C	ICV cover only	800

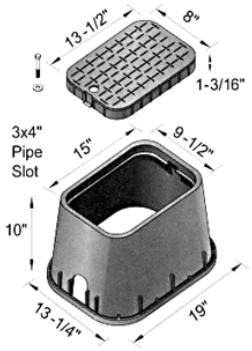


10" Round Box

10" Round Box with bayonet twist-on overlapping lip green cover		
111BC	Box w/ cover	180
111C	Cover Only	1
111BCS	Box w/ sewer cover	180

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Valve Boxes

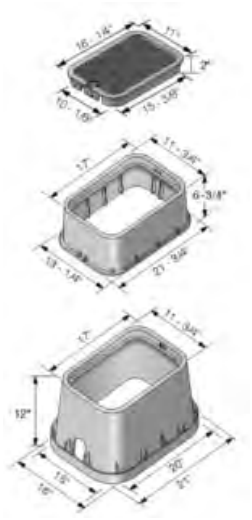


10" Standard Rectangular Box

10" x 15" Standard Rectangular Valve Box

- Standard drop-in green cover

Part Number	Description	Pallet Qty
10" x 15" Rectangular Valve Box		
D1000-SG	10" x 15" x 10" Box w/ drop in cover	96
D1000-SGL	Cover Only	1





14" x 19" Standard Rectangular Valve Box

- Overlapping lip snap-on green cover

Part Number	Description	Pallet Qty
14" x 19" Standard Rectangular Valve Box		
113BC	14" x 19" Box w/ overlapping cover	78
113C	Overlapping Cover Only	1
113-6	Extension - no cover	49



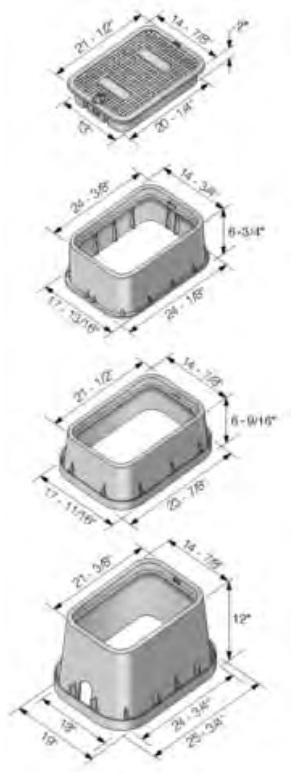
14" x 19" x 6" Tapered Low Profile Rectangular Valve Box

- Overlapping lip snap-on green cover

Part Number	Description	Pallet Qty
14" x 19" x 6" Tapered (Low Profile) Rectangular Box		
115TBC	14" x 19" x 6" Tapered Box w/ cover	96
115	14" x 19" x 6" Tapered Extension w/ cover	49

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Valve Boxes





13" x 20" Jumbo Rectangular Valve Box

- Overlapping lip snap-on green cover
- "Water Meter" labeled cover available.

Part Number	Description	Pallet Qty
13" x 20" Jumbo Rectangular Valve Box		
117BC	13" x 20" Jumbo Box w/ cover	56
117C	Jumbo cover only	1
117CW	Jumbo Black "WATER METER" cover only	1
117B	13" x 20" Jumbo Box only	56
117-6	Jumbo Extension - no cover	32

13" x 20" x 6" Tapered Low Profile Jumbo Valve Box

- Overlapping lip snap-on green cover

Part Number	Description	Pallet Qty
13" x 20" x 6" Tapered Low Profile Jumbo Valve Box		
119TBC	13" x 20" x 6" Tapered Jumbo Box w/ cover	56
119	13" x 20" x 6" Tapered Jumbo Extension w/ cover	32





17" x 30" x 18" Pro-Spec Jumbo Rectangular Valve Box

- HDPE green body, green cover.
- Includes stainless steel bolts.
- LID dimensions: 32 1/8" x 19 1/4" outer rim.
- BOX dimensions: 32 1/2" x 19 1/2" top, 18" high, 40 3/8" x 27 1/2" base

Part Number	Description	Pallet Qty
17" x 30" x 18" Jumbo Rectangular Box		
326BCB	17" x 30" x 18" Jumbo Box w/ cover	10

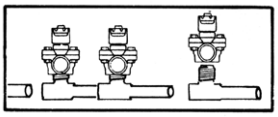
Irrigation Installation Fittings



94-11

Irrigation Valve Manifold Tee Features:

- Uniformly spaced installation of manifolds for 1" irrigation valves.
- Designed to be mounted horizontally for electric globe valves or installed with the threaded outlet upright to accommodate angle valves.
- Schedule 40 PVC.





1376-010

94-11, 1376 Series Manifold Tees:

- Aligns valves with integral notch and key design on 1376-010.
- Preset spacing of valves.
- Sch 40 wall thickness.
- Full flow 1" main line with 1" mpt (94-11) or 1" fpt (1376-010).
- Presure rated at 315 psi, tested to over 1000 psi.



HMT70-1G

HMT70-1G Manifold Tee:

- 1" IPS threads compatible with all 1" valves.
- Hand tight assembly in series for a uniformly spaced sprinkler manifold.
- Riser always positions correctly, self aligning when tightened until threads no longer show.
- Schedule 40 PVC with Buna N o-ring seal.

Part Number	Description	Ctn Qty
94-11	1" soc x 1" slip x 1" mpt	50
1376-010	1" soc x 1" slip x 1" fpt	6
HMT70-1G	1" fpt x 1" mpt x 1" mpt	12



HMRA1/2x3/4

HMRA Adapter Features:

- 1/2" x 3/4" mipt Reducing Adapter

Part Number	Description	Ctn Qty
HMRA 1/2 x 3/4	1/2" x 3/4" MIPT Reducing Adapter	50

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Irrigation Installation Fittings

P73 Cut-off Nipples Features:

- Patented design 4 in 1 nipple allows choice of length, excess becomes additional useable nipples.
- 100 PSI (max) and 201°F max temperature.
- Green

Poly Cut-off Nipple, Riser Extension and Poly Nipple Features:

- Black poly

SW500 Nipple Extractor Features:

- For 1/2" or 3/4" plastic nipples.
- Easy to remove broken plastic riser from sprinkler pipe and fittings.
- Insert tip and turn.



P73 Series



PCO Series



RE Series



RECO Series



PN Series

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

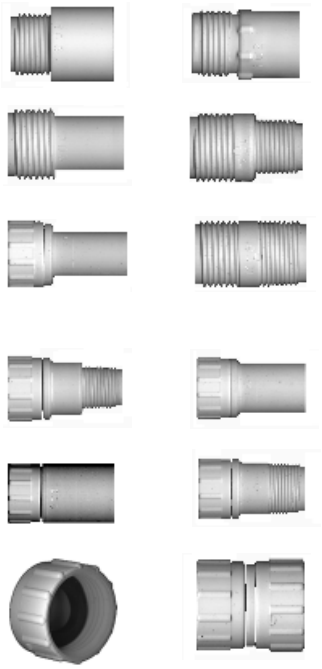


SW500C

Part Number	Description	Ctn Qty
Cut-off Nipples		
P73-1/2	1/2" MIPT x 1/2" MIPT x 6"	50
P73-3/4	3/4" mipt x 3/4" mipt x 6"	25
P73-3/4x1/2	Reducing, 3/4" mipt x 1/2" mipt, 6"	40
Poly Cut-off Nipples		
PCO1/2X4	1/2" x 4" MPT x MPT	500
PCO1/2X6	1/2" x 6" mpt x mpt	500
PCO1/2X3/4X6	1/2" x 3/4" x 6" mpt x mpt	400
PCO3/4X4	3/4" x 4" mpt x mpt	400
PCO3/4X6	3/4" x 6" mpt x mpt	400
Riser Extensions		
RE1/2X1	1/2" x 1" fpt x mpt	1000
RE1/2X11/2	1/2" x 1 1/2" fpt x mpt	1000
RECO1/2X4	1/2" x 4" fpt x mpt	500
RECO3/4XSHORT	3/4" x Short fpt x mpt	500
RECO3/4X4	3/4" x 4" fpt x mpt	400
Poly Nipples		
PN1/2XCLOSE	1/2" x close	1000
PN1/2X3/4XCLOSE	1/2" x 3/4" x close	1000
PN3/4XCLOSE	3/4" x close	1000
PN1/2X2	1/2" x 2"	1000
PN1/2X3	1/2" x 3"	500
PN1/2X4	1/2" x 4"	500
PN1/2X5	1/2" x 5"	500
PN1/2X6	1/2" x 6"	500
PN1/2X8	1/2" x 8"	50
PN1/2X10	1/2" x 10"	50
PN1/2X12	1/2" x 12"	50
PN1/2X18	1/2" x 18"	50
PN1/2X24	1/2" x 24"	50
Nipple Extractors		
SW500C	Stub Wrench	50

Garden Hose Thread Fittings

- Material: PVC Type I White, or brass



Part Number	Size	Connections	Ctn Qty
Garden Hose Thread Fittings - MALE			
MHT-101	3/4" x 1/2"	MHT x Slip	25/200
MHT-102	3/4" x 1/2"	MHT x FIPT	25/200
MHT-103	3/4"	MHT x Slip	25/200
MHT-104	3/4" x 1/2"	MHT x MIPT	25/200
MHT-105	3/4" x 1/2"	MHT x Spigot	25/200
MHT-106	3/4"	MHT x MIPT	25/200
Garden Hose Thread Fittings - FEMALE			
FHT-201	3/4" x 1/2"	FHT x Spigot	25/200
FHT-202	3/4" x 1/2"	FHT x Slip	25/200
FHT-203	3/4" x 1/2"	FHT x MIPT	25/200
FHT-204	3/4"	FHT x MIPT	25/200
FHT-205	3/4"	FHT x Slip	25/200
FHT-206	3/4"	FHT x FIPT Swivel	25/200
BFHT-206	3/4"	FHT x FIPT Swivel BRASS	5/60
FHT-207	3/4"	FHT x FHT swivel	20/500
FHT-301	3/4"	FHT CAP	25/200

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Funny Pipe, MARLEX™ Fittings



Swing Riser Fittings for Funny Pipe

- For use with Funny Pipe and other thick walled 1/2" ID tubing.
- Use in drip irrigation, home sprinkler systems & other residential irr. applications.
- Spiral barb design allows quicker twist-on installation.
- Made of Celcon® plastic resin providing long term durability.

Part Number	Size	Connections	Ctn Qty
90° Elbow			
SRE1/2	1/2" x 1/2"	MIPT x funny pipe barb (FPB)	100/1500
SRE3/4	3/4" x 1/2"	MIPT x FPB	50/1000
Male Adapter			
SRMA1/2	1/2" x 1/2"	MIPT x FPB	100/500
SRMA3/4	3/4" x 1/2"	MIPT x FPB	50/500
Coupling			
SRC1/2	1/2" x 1/2"	FPB x FPB	50/500
Tee			
SRT1/2	1/2" x 1/2"	FPB x FPB x FPB	50/250

LASCO Swing Riser Fittings for Funny Pipe with Double Helix design

Part Number	Size	Connections	Ctn Qty
90° Elbow			
3300-005	1/2" x 1/2"	MIPT x funny pipe barb	500
3300-007	3/4" x 1/2"	MIPT x funny pipe barb	500
Male Adapter			
3400-005	1/2" x 1/2"	MIPT x funny pipe barb	100
3400-007	3/4" x 1/2"	MIPT x funny pipe barb	100



TRANSITION FITTINGS MARLEX™ STREET ELBOWS

- Ideal for use in swing joints.
- More than 27% heavier than other elbows, providing added strength & durability.

Part Number	Size	Connection	Ctn Qty
MSE1/2	1/2" x 1/2"	mipt x fipt	50/500
MSE3/4	3/4" x 3/4"	mipt x fipt	25/350
MSE1	1" x 1"	mipt x fipt	25/100



LASCO Double Helix
SW Series

Transition Fittings for Irrigation Applications

- Save money on material and labor cost.
- Faster, easier installation.
- Retaining spikes to prevent movement on Dawn fittings.
- Double helix design on LASCO fittings.

Westlake Double Helix / KWIKADAPT SW Series Fitting Features:

- One piece design to go from Poly to swing/funny pipe.
- Use instead of a combo insert tee and a swing elbow.
- Available in 3/4" and 1".
- Westlake/LASCO double helix fitting pipe connection.

Part Number	Description	Ctn Qty
LASCO - Poly to Swing/Funny Pipe Double Helix Design		
1429-099	3/4" Insert x Swing /Funny Pipe Coupling	10
1429-129	1" Insert x Swing /Funny Pipe Coupling	10
1401-099	3/4" Insert x Swing/Funny Pipe Tee	10
1401-129	1' Insert x Swing/Funny Pipe Tee	10

Swing Joint Assemblies, Poly Swing Pipe



SWING JOINT ASSEMBLIES

- Fully assembled swing assemblies with funny pipe.
- Includes marlex elbow.
- Available in additional lengths or without marlex elbow by special order.

Part Number	Size x Length	Connection	Ctn Qty
SA125050	1/2" x 1/2" x 12"	mipt x mipt (marlex ell)	50
SA125075	1/2" x 3/4" x 12"	mipt x mipt (marlex ell)	50
SA127575	3/4" x 3/4" x 12"	mipt x mipt (marlex ell)	50



POLY SWING PIPE

NOW EVEN MORE FLEXIBLE

- Highly flexible.
- Use with swing riser fittings for a flexible swing joint assembly.
- LLDPE for increased flexibility.
- Up to 100 psi working pressure at 72°F.
- Shrink wrapped coils.

Part Number	Size	Ctn Qty
PSP50-100	1/2" x 100' roll	1

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Repair Couplings



PSC Series

NO LEAD LEAD-FREE

Poly-Stretch Repair Coupling Features:

- For repair of polyethylene irrigation pipe.
- Avoid extra digging and buckled pipe.
- Couplings are made of ABS
- O-ring seal is made of Buna 70
- Pressure rated at 160 psi.
- Designed for irrigation operation pressures of polyethylene pipe and more.

Instructions for Installation:

- Cut out approximately 4" of pipe where repair is needed.
- Place clamps over ends of pipe
- Insert end marked with "END FIRST" arrow by pushing and turning at same time.
- Insert other end by pushing & turning.
- Place clamps over ribbed ends & tighten.

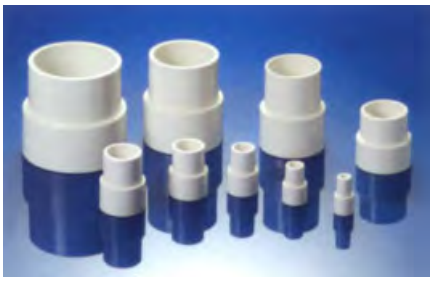
Dimensions:



	A	B	C	D	E
3/4"	4.0	.575	.820	1.50	5.625
1"	4.0	.770	1.075	1.50	5.625
1 1/4"	5.0	1.109	1.415	1.755	6.70
1 1/2"	5.0	1.310	1.63	1.755	6.70
2"	5.0	1.825	2.125	1.755	6.70

Part Number	Description	Ctn Qty
PSC07	3/4" Poly-stretch coupling	50
PSC10	1" Poly-stretch coupling	50
PSC12	1 1/4" Poly-stretch coupling	25
PSC15	1 1/2" Poly-stretch coupling	25
PSC20	2" Poly-stretch coupling	20

Repair Fittings for Sch 40 Pipe



PEX Series

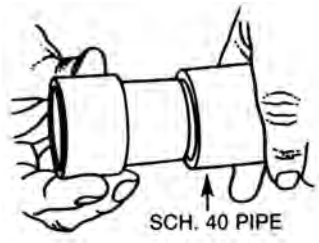


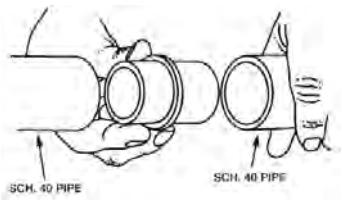
PIC Series

Pipe Extender and Inside Connector Repair Fitting Features:

- For Sch 40 pipe.
- Saves labor.
- Invisible after installation.
- Permanent repair.
- Insignificant flow restriction.
- PVC Construction.
- PIC Series connects two pieces of Sch 40 pipe with flush joint.

NO LEAD
LEAD-FREE





Part Number	Description	IPS Size	Ctn Qty
Pipe Extender Repair Fitting			
PEX50	Pipe Extender	1/2"	48
PEX75	Pipe Extender	3/4"	48
PEX100	Pipe Extender	1"	48
PEX125	Pipe Extender	1 1/4"	48
PEX150	Pipe Extender	1 1/2"	48
PEX200	Pipe Extender	2"	48
PEX250	Pipe Extender	2 1/2"	96
PEX300	Pipe Extender	3"	96
PEX400	Pipe Extender	4"	48
Inside Connector Repair Fitting			
PIC100	Inside Connector	1"	48
PIC150	Inside Connector	1 1/2"	48
PIC200	Inside Connector	2"	48

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Turf Irrigation Pinch Clamps



NO LEAD ✓ LEAD-FREE

Single Ear Pinch Clamps with Mechanical Interlock
Features and Benefits:

- 300 series stainless steel material for excellent corrosion resistance.
- Mechanical interlock provides superior strength.
- Quick, easy installation provides a uniform 360° seal.
- Permanent seal is tamper proof.
- 61 series clamps are compatible with most clinching tools.
- Fits most popular polyethylene and polybutylene water service lines.
- Perfect for irrigation applications.

To identify proper clamp size:
Measure actual OD of the hose on the fitting. Select the nominal size clamp nearest but always larger than the OD of the hose on the fitting.

Quantities:
Bag quantities required.

Part Number	Cross Ref Part No.	Nominal Size	Open Diameter	Closed Diameter	Bag Qty	Ctn Qty
61198	15500011	3/4"	0.780	0.669	100	4000
61210	15500012	13/16"	0.827	0.717	100	4000
15500013	15500013	7/8"	0.780	0.890	100	4000
61256	15500015	1"	1.008	0.898	100	4000
61271	15500016	1 1/16"	1.067	0.945	100	4000
61316	15500019	1 1/4"	1.244	1.122	100	2500
61331	15500020	1 5/16"	1.303	1.181	100	2500
61410	15500026	1 5/8"	1.614	1.492	100	1500
61425	15500027	1 11/16"	1.673	1.551	100	1500
61485	15500031	1 7/8"	1.909	1.787	100	1500



61001-51



61001-52

61001-51	**Standard Jaw** Pinch tool for all size pinch clamps	10
61001-52	**Side Jaw** Pinch tool for all size pinch clamps	10

Saddle Tees - Bronze, Plastic for Poly Pipe



DST Saddle Tee

HARVARD CONTRACTOR'S Plastic Saddle Tees for Polyethylene Pipe:

- Heavy duty PVC saddle tee bodies with glass-reinforced nylon T-bolts and nuts.
- Molded barb seal for superior sealing to poly pipe. Barb seals deeper and tighter as the poly pipe pressurizes. No o-rings or gaskets needed.
- Withstands over 400 psi without leaking.
- 2 1/2" length protects seal area if pipe is kinked or damaged near saddle tee.
- **NO FLOW RESTRICTION**
- **NOT for use on RIGID PVC Pipe.**

Part Number	Pipe Size	Color	Outlet FPT	Bag/Ctn Qty
HARVARD CONTRACTOR'S Plastic Saddle Tees				
DST3/4x1/2	3/4"	Gray	1/2"	10/250
DST3/4x3/4	3/4"	Gray	3/4"	10/250
DST1x1/2	1"	White	1/2"	10/250
DST1x3/4	1"	White	3/4"	10/250
DST11/4x1/2	1-1/4"	White	1/2"	10/250
DST11/4x3/4	1-1/4"	White	3/4"	10/200



ND Series



HC Series

HARVARD CONTRACTOR'S Plastic Saddle Tee Installation Tool Features:

ND Series Nut Driver:

- Glass-reinforced nylon for durability and strength.

HC Series Coring Tool:

- Spring-loaded self-retracting blade.
- Cuts a clean, burr-free, sawdust-free hole in seconds.

Part Number	Description	Ctn Qty
Coring Tools/Nut Driver (for DST Series)		
ND375	9/16" Nut Driver	1
HC45	Coring Tool for DST Saddle Tees w/1/2" fipt outlet	1
HC55	Coring Tool for DST Saddle Tees w/3/4" fipt outlet	1



HBST Saddle Tee

HARVARD BRONZE Saddle Tees for Polyethylene Pipe:

- Bronze (81% copper) body to prevent material breakdown when buried.
- Stainless steel slotted screws.
- Leakproof, rubber gasket seal.
- **NOT for use on RIGID PVC pipe.**
- **DISCONTINUED items. Limited quanties available.**

Part Number	Pipe Size	Outlet FPT	Bag/Ctn Qty
HARVARD Bronze Saddle Tees			
HBST3/4X3/4	3/4"	3/4 "	200
HBST11/4X1/2	1-1/4"	1/2"	120
HBST2X1/2	2"	1/2"	80

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Saddle Tees - PVC for Rigid Plastic Pipe



Clamp-It™ PVC Saddle Tees for Rigid Pipe Features:

- Use for turf and irrigation systems, golf courses, athletic fields.
- Use for water service lines, mines, landfills.
- Provides full and equal support around the entire circumference of the pipe.
- Easy to install hinge and clamping wedge eliminates need for metal screws.
- Made of high impact type II PVC.
- EPDM O-ring seal.
- Rated at 200 PSI at 72°F.
- For use on cold water lines only, 2" - 8" PVC.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

Clamp-It™ PVC Saddle Tee

Saddle Drill Sizes:

Outlet size over 2 1/2" pipe	Drill Size
3/4" IPS Slip & Fipt	3/4"
1" IPS Slip & Fipt	1"
1 1/4" IPS Slip & Fipt	1 1/4"
1 1/2" IPS Slip & Fipt	1 3/8"

* For 2 1/2" IPS saddle with a 2" outlet - Drill size must be 1 3/4" due to pipe restriction.



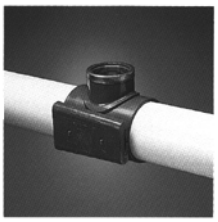
1. Place saddle on desired location and mark. Drill hole according to Drill Chart and deburr.



2. Place saddle over hole and attach easy clamping hinge around pipe.



3. Apply wedge half way by hand and finish off with a slight tap of a rubber mallett. Ideal for new installations or additions.



4. Saddle should be pressure tested prior to burial to assure system integrity. Long lasting EPDM o-ring seal assures a leak free installation. Note: wedge does not need to be flush with saddle body to seal.

Part Number	IPS Pipe Size	Tap Size	Ctn Qty
Clamp-It™ PVC Saddle Tees			
421510	1 1/2	1 fpt	5
422007	2	3/4 fipt	5
422010	2	1 fipt	5
422015	2	1-1/2 fipt	5
432010	2	1 slip	5
432012	2	1-1/4 slip	5
422507	2-1/2	3/4 fipt	5
432510	2-1/2	1 slip	5
432515	2-1/2	1-1/2 slip	5
432520	2-1/2	2 slip	5

See next page for 3" - 8" CLAMP IT Saddle Tees.

Saddle Tees - PVC for Rigid Plastic Pipe

Part Number	IPS Pipe Size	Tap Size	Ctn Qty
453007	3	3/4 slip	5
453010	3	1 slip	5
453012	3	1-1/4 slip	5
453015	3	1-1/2 slip	5
453020	3	2 slip	5
443007	3	3/4 fipt	5
443010	3	1 fipt	5
443012	3	1-1/4 fipt	5
443015	3	1-1/2 fipt	5
443020	3	2 fipt	5
454010	4	1 slip	5
454015	4	1-1/2 slip	5
454020	4	2 slip	5
444007	4	3/4 fipt	5
444010	4	1 fipt	5
444012	4	1-1/4 fipt	5
444015	4	1-1/2 fipt	5
444020	4	2 fipt	5
456010	6	1 slip	5
456015	6	1-1/2 slip	5
456020	6	2 slip	5
446007	6	3/4 fipt	5
446010	6	1 fipt	5
446015	6	1-1/2 fipt	5
446020	6	2 fipt	5
458015	8	1-1/2 slip	5
458020	8	2 slip	5
448010	8	1 fipt	5
448020	8	2 fipt	5



Clamp-It™ PVC Saddle Tee

Replacement O-rings available for all size PVC Saddle Tees.
Contact your customer service representative for sizing and pricing.

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Direct Bury Splice Connectors

3M® DBO/B-6 and DBR/Y-6 Direct Burial Splice Connector Features:

UL Listed for Direct Burial, Rated for 600V.
Replaces existing 3M DBY, DBR, DBY6, DBR6, DBR/Y.

ISO 9002

- Electrically connects two or more pre-stripped copper wires
- Provides moisture seal of the connections for the direct burial.
- Ideal for splicing wires and cables in irrigation and low voltage lighting systems.
- For residential, commercial, golf andother green industry applications.
- Smaller profile DBO/B-6 Series connectors are used when a larger size range of wires is not needed.
- May be installed above or below ground, inside a valve box or buried next to a valve-in-head sprinkler or light fixture.
- Not recommended for submersible applications.
- Each kit includes a 3M Performance Plus quick biting wire connector O/B+ or R/Y+ and a high impact, UV resistant polypropylene tube prefilled with moisture-resistant grease.
- The gel filled tube includes a lid that compresses the wire insulation when closed. This applies pressure, known as “strain relief" that keeps the connection inside the tube when the wires are pulled-upon. The conenctor tube includes channels for three sets of wires.
- 3M Electrical products are manufactured for AGI in an ISO 9002 facility.



HDBR/Y-6 Splice Tube and Connector

c UL us LISTED 98U1 CE RoHS

Common AWG Wire Combinations - CV only

DBO		DBR	
2-3 #16 sol/str	1 #18 to 1-2 #14 sol/str	2 - 7 #18	1-3 #12 w/ 1 #18
2-3 #14 sol/str	1 #18 to 1-2 #12 sol/str	2 - 6 #16	1-2 #10 w/ 1 #18
2 #12 sol/str	1 #16 to 1-2 #14 sol/str	2 - 4 #14	1-3 #12 w/ 1 #16
1 #14 to 1 #12 sol/str	1 #16 to 1-2 #12 sol/str	2 - 4 #12	1-2 #10 w/ 1 #12
		2 - 3 #10	1-2 #14 w/ 1 #18

See complete chart of combinations on reverse.

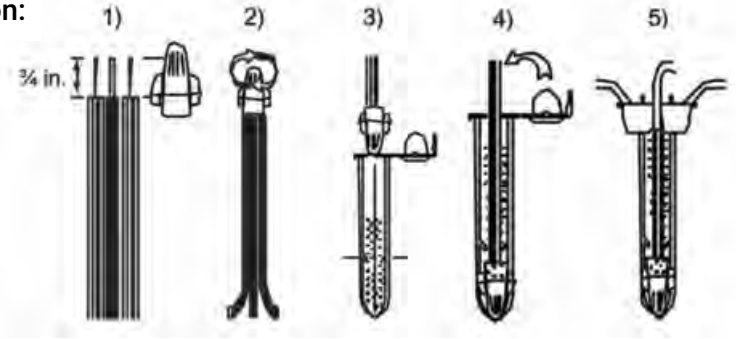
Specifications:

Maximum voltage rating:
600 volts.
UL Listed, File No. E102356
UL Listed 98U1
UL Standard 486D
Application temperature:
32°F to 120°F
Operating temperature:
-40°F to 221°F.

Construction:

Tube: Impact and UV Resistant Polypropylene
Grease: 711B (DBO) Mineral Oil Based, EG3 (DBR)
O/B+ or R/Y+ Connector: Steel Spring, Flame Retardant Insulator

Installation:

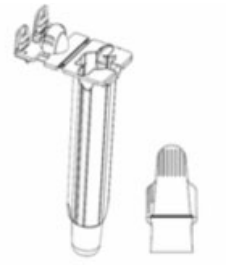


Part Number	Description	Ctn Qty	Pallet Qty
CHDBO/B-6	3M® Direct Bury Splice Kit, Bulk	100	
CHDBR/Y-6	3M® Direct Bury Splice Kit, Bulk	100	7500
HDBR/Y2-6	3M® Direct Bury Splice Kit, 2 per package	25	-

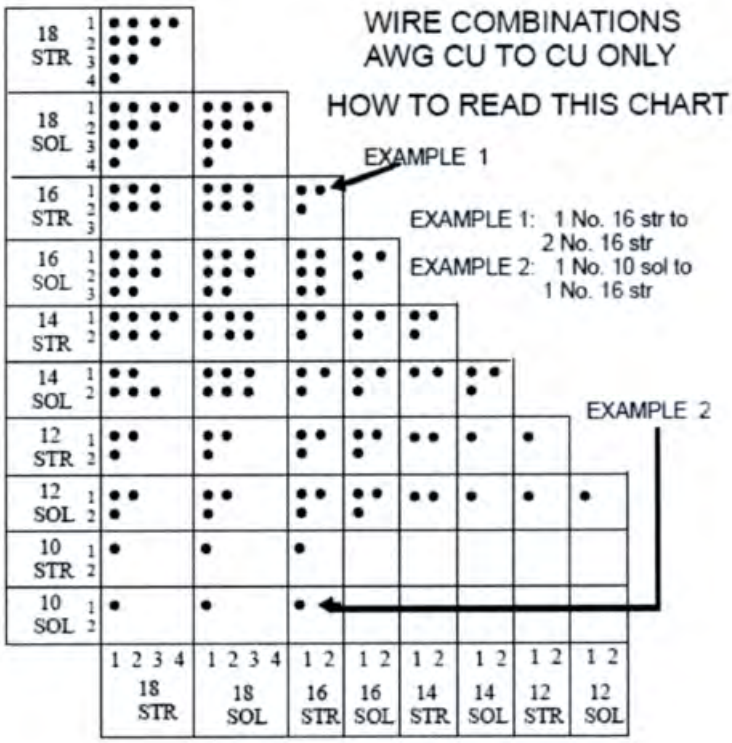
Direct Bury Splice Connectors

Combination Chart

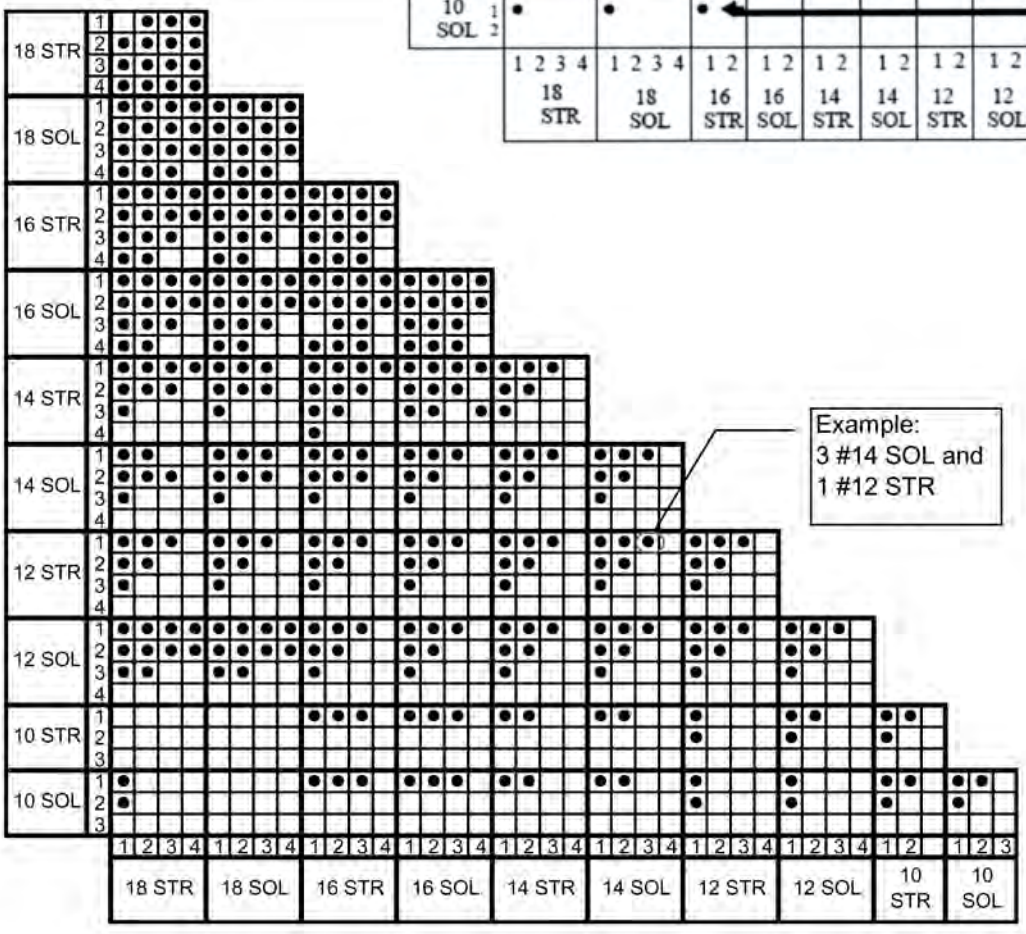
- The connectors accept a multitude of direct burial copper wire combinations, as listed in the tables below.



DBO



DBR



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Electrical Installation Accessories



SSP314

3M® SSP Series Insulation Displacement Connector Features:

- Used to electrically connect two or three wire ends & insulate the connection.
- #22-#14 AWG range on SSP314. SSP314 is UL and CSA listed.
- #22-#16 AWG range on SSP316.
- Also used for pigtail 2- and 3-wire splicing.
- Connector provides a moisture-resistant seal and is flame retardant.



Part Number	Description	Ctn Qty
SSP314	3M® Insulation Displacement Connectors #22-#14 AWG	1000
SSP316	3M® Insulation Displacement Connectors #22-#16 AWG	300



VL1

CLICK-IT™ Valve Locator Features:

- Water resistant.
- Compact design.
- For location of solenoid valve quickly and easily.
- Practical and cost effective.

Part Number	Description	Ctn Qty
VL1	Click-It Valve Locator	10

Electrical Installation Accessories



PTC163-6 Series



PTC143-6RA220

HARVARD CONTRACTOR'S
Power Cord Features:

- Three prong right angle (115V, 220V) molded plugs.
- 16 gauge, 3 conductor, 13 amp, 125 Volt rating.
- 14 gauge, 3 conductor, 15 amp, 250 Volt rating.
- Six foot cord length.
- Free end is split, stripped 3/8".
- SJTW Indoor/Outdoor rated.
- UL and CSA listed in US and Canada.







Part Number	Description	Wire Gauge	Volt Rating	Ctn Qty
PTC163-6ST	Straight plug cord	16	125 V	50
PTC163-6RA	Right angle plug cord	16	125 V	50
PTC143-6RA220	Right angle plug cord	14	250 V	50



HARVARD CONTRACTOR'S
Anchor Kit Features:

- Anchor kits complete with 100 plastic anchors, 100 screws and 1/4" masonry drill bit in a plastic case.
- Plastic gray ribbed anchors with lip design for electronic timer, pump start relay installations. Use with concrete block, brick and wallboard.
- Anchors have internal ribs for better centering of screws, locking lugs against pull and twist. Exterior design prevents fall out in overhead holes.
- Kit available with combination slotted/phillips head or tri-combination, slotted/phillips/hex head #10 x 1" screws.
- Kits complete with 1/4" x 4" masonry drill bit.
- Clear, unbreakable plastic case with molded-in hanging tab.



Combo Head



Tri Combo Head



Part Number	Description	Ctn Qty
AK10CSPR	Ribbed Combo Head	36
AK10TCR	Ribbed Tri Combo Head	36

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Pump Start Relays



Pump Start Relay Features:

- Contactors are UL and UL Canada rated.
- Wide coil operating range, +10% to -30% of rated 60 hz coil voltage.
  Contactors will start on low voltage as follows:
  Single phase: 24 VAC coil will pull in at 17 volts.
  120 VAC coil will pull in at 84 volts.
  230 VAC coil will pull in at 161 volts.
- One normally open auxiliary contact for powering a pilot light or alarm.
- Pressure screw terminals accept 18 through 10 AWG wire.
- Interposing relay units accept 24 through 10 AWG wire.
- Mechanical life up to 10 million operations.
- Long electrical life.
- PSR567 Series with interposing relay designed for low voltage and low controller output.

Industrial Non-metallic Enclosure Features:

- Gray enclosures are UL, CSA listed.
- Rated NEMA 4X for indoor or outdoor use.
- To maintain 4X enclosure rating use required 4X connectors.
- Watertight, dust tight, oil tight and rain tight, High impact, durable insulated Noryl thermoplastic. Neoprene gasketed cover.
- Resistant to shock, corrosion, chemicals and atmospheric agents.
- 8 conduit knockouts (1/2", 3/4" NPT combination.)
- Service temperature -40° to 260°F.
- Stainless steel cover screws (max tightening torque: 7 in-lbs.)
- Sealing plugs provided to waterproof mounting screws.
- 5.9" H x 4.3" W x 3.9" D

Part Number	INPUT- PUMP START RELAY Volts VAC	Req'd Coil Power Close	Hold	CONTACTOR Coil Voltage	PUMP MOTOR HP (MAX) Single Phase* 120 v	230 v	Three Phase 200/230v	460 v
Direct Control Style Contactor								
PSR575-230	230	70 VA	12 VA	230	2 HP	5 HP	7.5 HP	15 HP

NOTES:
1. Direct Control Style: The **input volts** must match the controller output voltage.
   The **contactor coil voltage** must match the controller voltage.
2. Interposing Relay Style: The **input volts** must match the controller output voltage.
   The **contactor coil voltage** must match the controller voltage.
3. VA=Volt Amps. To determine the operating amperage needed by the coil, divide the VA by the controller output voltage.

* Single Phase systems require **motor overload protection** within the motor.

** Three phase systems: May require **motor overload protection** within the motor. For proper **overload protection** consult the NEC (National Electrical Code) and local building codes before installation.

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HAND TOOLS & ACCESSORIES



Anchor Kits 6
Cutters & Saws for Pipe and Hose 1-4
Hand Tools 7-11
Including: Cutters & Saws / Flagging Tape / Mallets / Measures
Nut Drivers / Pliers / Pullers & Bars / Screwdrivers / Snips
Utility Knives / Wrenches
Power Tool Accessories 12
Including: Drill Bits / Hole Saws / Saw Blades
Work Gloves 5

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Pipe & Hose Cutters



T Series

HARVARD CONTRACTOR'S Plastic Pipe & Hose Cutter Features:

- Heavy duty, glass reinforced nylon handles.
- Handles designed with matted surface and finger indentation for firm gripping in any weather conditions.
- Handle "bridge" support structure designed to eliminate deflection, bending or breaking while cutting for straighter, truer cut every time.
- "100" and "135" available in black or yellow. "200" available in black.
- Available with either PTFE coated hardened tool steel or polished high-carbon stainless steel blades specially honed to maintain their edge longer than competitive blades.
- Cutter blades individually laser etched with "100", "135" or "200" for easy identification. Replacement blades are blister packed with knock out pin.
- All Harvard Plastic Pipe and Hose cutters are blister packed with an attractive hang-up card.

The unique cutting action of the Harvard Contractor's cutter is produced by slightly rotating or rocking the cutter on the pipe while squeezing lightly on the handles. After just a few cuts, anyone can make fast, clean, straight cuts. The rotating action is not necessary for rubber hose or soft tubing (except when cutting 2" or larger hose with the SS200).







Part Number	Color	Blade Material	Cuts	Ctn Qty
HARVARD CONTRACTOR Pipe & Hose Cutters				
T100	Black	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50
YT100	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50
T100SS	Black	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50
YT100SS	Yellow	Stainless Steel	PE, Rubber hose & PVC (Class & Sch 40) through 1"	50
T135	Black	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50
YT135	Yellow	PTFE Coated Hardened Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50
T135SS	Black	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50
YT135SS	Yellow	Stainless Steel	PE, Rubber hose through 1 1/2" Class PVC through 1 1/4"	50
SS200	Black	Stainless Steel	Rubber hose through 2" PE through 1 1/2" & Class PVC through 1 1/4"	50

HARVARD CONTRACTOR Replacement Blades (includes 1 knock out pin) DP DOUBLE PACK			
BT100	PTFE Coated Hardened Steel Blade	T100, YT100	100
BT100SS	Stainless Steel Blade	T100SS, YT100SS	100
BT135	PTFE Coated Hardened Steel Blade	T135, YT135	100
BT135DP	PTFE Coated Hardened Steel Blades (2)	T135, YT135	100
BT135SS	Stainless Steel Blade	T135SS, YT135SS	100
BT135DPSS	Stainless Steel Blades (2)	T135SS, YT135SS	100
SSB200	Stainless Steel Blade	SS200	50

Pipe, Tubing & Hose Cutters



APC100SS

HARVARD CONTRACTOR'S Plastic Pipe & Hose Cutter with Spring Action Features:

- Heavy duty, cast metal handles.
- Handles designed with matted surface and finger indentation for firm gripping in any weather conditions.
- Spring action for easy use.
- Latch handle for carrying in closed position.
- **Reversible**, replaceable polished high carbon stainless steel blades honed to maintain thin edge longer than competitive blades.
- Cuts PE, Rubber hose & PVC (Class & Sch 40) through 1" ID (max diameter 1 3/8")
- Blister packed with an attractive hang-up card.

The unique cutting action of the Harvard Contractor's cutter is produced by slightly rotating or rocking the cutter on the pipe while squeezing lightly on the handles. After just a few cuts, anyone can make fast, clean, straight cuts. The rotating action is not necessary for rubber hose or soft tubing.





Part Number	Color	Blade Material	Cuts	Ctn Qty
HARVARD CONTRACTOR Pipe & Hose Cutters				
APC100SS	Red	Stainless Steel	PE, Rubber hose & PVC through 1" ID	50
HARVARD CONTRACTOR Replacement, Reversible Blade				
APC100SSB	Stainless Steel reversible blade			1



14100504



14100418

OETIKER PEX/PE-RT Tubing Cutters

NEW

Hand PEX/PE-RT Tube Cutter Features:

- For PEX, PE-RT and Poly tubing. Cuts up to 1".
- Thumb activated lock.
- Die cast aluminum, soft molded, spring loaded ergonamic curved handles.
- Replaceable V-shaped AEB-L razor stainless steel blade safely stores in jaws when locked.
- Designed with flats on the cutting cavity so tubing remains straight during cutting resulting in a straight cuts every time.
- Made in USA.

Radial Hand Tubing Cutter:

- For PEX, PERT tube. Cuts 1/2", 3/4" & 1"
- Compact tool cuts square, keeps it round.
- Circular cuts from tighter connections.

Part Number	Size Description	Ctn Qty
OETIKER PEX/PE-RT TUBING CUTTERS		
14100504	1" Hand PEX/PE-RT Tube Cutter HTC500	1/3
14100506	1" Hand PEX/PE-RT Tube Cutter Blade 2pk	1/10
14100418	RADIAL HAND TUBE CUTTER	1/18

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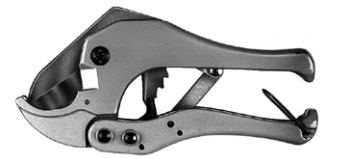
PVC Ratchet Pipe Cutters

PVC Ratchet Pipe Cutter Features:

- For use on plastic pipes up to 1", 1 1/4", 1 3/8", 1 1/2" or 2" diameter.
- **Blade and ratchet teeth made of molybdenum vanadium stainless steel. Stays sharp longer than plated steel or lower grade stainless blades.**
- All metal construction insures long life; locking clip provides safe storage.
- Holds pipe as it cuts, creating smooth, even ends.
- One hand operation (except on HL50).



HS25



HM42



HL48



HL50

Part Number	Description	Ctn Qty
Cutters - With molybdenum vanadium stainless steel blades		
HS25	PVC Pipe Cutter, 1"	60
HM42	PVC Pipe Cutter, 1-1/4"	60
HL42A	PVC Pipe Cutter, 1 3/8"	60
HL48	PVC Pipe Cutter, 1 1/2"	40
HL50	PVC Pipe Cutter, 2"	20
Replacement Blades - Molybdenum vanadium stainless steel		
HS25B	Blade for HS25	1
HM42B	Blade for HM42	1
HL42AB	Blade for HL42A	1
HL48B	Blade for HL48	1
HL50B	Blade for HL50	1
Replacement Spring Sets		
HS25SP	Spring Set for HS25	1
HM42SP	Spring Set for HM42	1
HL42ASP	Spring Set for HL42A	1
HL48SP	Spring Set for HL48	1
HL50SP	Spring Set for HL50	1

PVC Ratchet Pipe Cutters





HRPC42





HRPC50

HARVARD CONTRACTOR'S PVC Ratchet Pipe Cutter Features:

- For use up to 1 1/4" or 2" diameter pipe.
- All **stainless steel** cutting blade and ratchet teeth.
- All metal body construction with latching handle for safe storage.
- 1 1/4" cutter has quick release thumb lever for easy blade opening.
- 1 1/4" cutter packaged in blister card for easy display.
- 2" two hand cutter has rubber handle grips.
- 2" two hand cutter packaged with wrap around card for easy display.
- Replacement stainless steel blades and spring sets are available.

Part Number	Description	Ctn Qty
Cutters - with stainless steel blade		
HRPC42	PVC Pipe Cutter, 1 1/4"	50
HRPC50	PVC Pipe Cutter, 2"	10
Replacement Blades - stainless steel		
HRPC42B	Blade for HRPC42	1
HRPC50B	Blade for HRPC50	1
Replacement Spring Sets		
HRPC42SP	Spring Set for HRPC42	1
HRPC50SP	Spring Set for HRPC50	1







HARVARD CONTRACTOR'S <u>One Hand</u> 2" PVC Ratchet Pipe Cutter Features:

- Cuts PVC, POLY, ABS, CPVC and PEX pipe.
- **One hand** ratchet operation.
- Latch handle with rubber handle grip.
- All stainless steel blade.
- Teal colored die cast aluminum body.
- Max pipe O.D. 2.48" (63mm)
- HRPC63B Replacement blade available.

Part Number	Description	Ctn Qty
Cutters - with stainless steel blade		
HRPC63	PVC One Hand Pipe Cutter, 2"	20
Replacement Blades - stainless steel		
HRPC63B	Blade for HRPC63	30
Replacement Pin and screw		
HRPC63PS	Center Pin and Screw replacement set	1

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Cable Saws, PVC & ABS Saws & Hacksaws



CS24L



CS36T

HARVARD CONTRACTOR'S PVC Cable Saw

Features:

- Multi-purpose cable saw cuts PVC pipe.
- Available in two lengths and two handle styles

Part Number	Description	Ctn Qty
Cable Saws		
CS24L	Cable saw, 24" length, Loop handle	50/500
CS36L	Cable saw, 36" length, Loop handle	5/200
CS36T	Cable saw, 36" length, T handle	50



TBS300



PVCSW

14" PVC/ABS Tool Box Saw Features:

- 14" saw for use with PVC or ABS. Cuts wood, aluminum and drain pipe.
- Durable ABS handle.
- Tempered steel blade with 15 teeth, 16 points.
- Cuts in both directions.

PVC/ABS Saw Features:

- 12" or 18" saw blade lengths.
- Aluminum die cast handle for sure grip.
- Cuts large diameter PVC or ABS pipe.
- Cuts drywall, paneling, plywood or plaster board.
- Precision milled teeth for faster, cleaner cuts.
- Induction hardened teeth for longer life.
- Cuts in both directions.
- Quick change design allows for changing blades without tools.

Part Number	Description	Ctn Qty
TBS300	Tool Box Saw, 14" length, 15 teeth, 16 pt.	4/48
PVCSW12	PVC Saw, 12" aluminum handle	12
PVCSW18	PVC Saw, 18" aluminum handle	12
PVCSW12B	PVC Saw 12" BLADE ONLY	12
PVCSW18B	PVC Saw 18" BLADE ONLY	12



T22466

TASK HIGH TENSION HACKSAWS

Task Contractor's High Tension Hacksaw

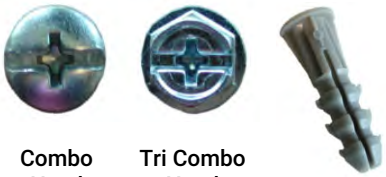
Features:

- Aluminum handle and end piece.
- Square tube frame prevents frame twisting.
- Multiple tension adjustment setting.
- 3 blade positions for 90º, 45º and use as a minisaw.
- Extra blade storage in frame.
- Unconditional warranty.

Part Number	Description	Ctn Qty
T22466	Contractors Hacksaw	6

Anchor Kits, Miscellaneous Tools





Combo Head

Tri Combo Head

HARVARD CONTRACTOR'S Anchor Kit Features:

- Anchor kits complete with 100 plastic anchors, 100 screws and 1/4" masonry drill bit in a plastic case.
- Plastic gray ribbed anchors with lip design for electronic timer, pump start relay installations. Use with concrete block, brick and wallboard.
- Anchors have internal ribs for better centering of screws, locking lugs against pull and twist. Exterior design prevents fall out in overhead holes.
- Kit available with combination slotted/phillips head or tri-combination, slotted/phillips/hex head #10 x 1" screws.
- Kits complete with 1/4" x 4" masonry drill bit.
- Clear, unbreakable plastic case with molded-in hanging tab.

Part Number	Description	Ctn Qty
AK10CSPR	Ribbed Combo Head	36
AK10TCR	Ribbed Tri Combo Head	36



WCS1022

HARVARD CONTRACTOR'S WCS1022 Wire Cutter/Strippers Features:

- Combination wire cutter and stripper.
- Strips wire sizes 22-10 AWG.
- Heavy duty scissor opening spring.
- Cushioned plastic grips.
- Easy locking thumb lock.

Part Number	Description	Ctn Qty
WCS1022	Wire Cutter/Stripper	100



SW Series

Adjustable Strap Wrench:

Part Number	For Use with Coupling Sizes	Ctn Qty
SW400	1/2" through 4"	60
SW600	1/2" through 6"	60



SW500C

SW500 Nipple Extractor Features:

- For 1/2" or 3/4" plastic nipples.
- Easy to remove broken plastic riser from sprinkler pipe and fittings.
- Insert tip and turn.

Part Number	Description	Ctn Qty
SW500C	Stub Wrench	25

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Plumbing Tools



HK400



HW500



HR





HP400



HI



HAS300



HPO400



HS500



HK50

HK400 4-Way Key Features:

- For use on square stem 1/4", 9/32", 5/16", 11/32".

HW500 Tub and Shower Valve Socket Wrench Set Features:

- Set includes sockets, handle and wire.

HR Radiator Spud Wrench Features:

- For use when spud wrench or key is required.
- Plated.

HP400 4 Way Countersunk Plug Wrench Features:

- Steel construction.

HI Internal Pipe Wrench Features:

- Available in sizes 3/8", 1/2", 3/4" and 1".

HAS300 Adjustable Strainer and Spud Wrench Features:

- Use for Basket Strainers and Closet Spud.
- Minimum 1" to Maximum 3".
- Plated.

HPO 400 4-Way P.O. Plug Wrench Features:

- Plated.
- Use when installing or removing tub drains, P.O. plugs & basket strainers.

HS500 Spanner and Strainer Wrench Features:

- Plated, malleable iron.
- For use on basket strainer jam nuts.

HK50 Utility Knife Features:

- Retractable blade
- Replacement blade included.

Part Number	Description	Ctn Qty
HK400	Four way key	6
HW500	Complete wrench set	1
HR	Radiator spud wrench	5
HP400	4 way plug wrench	1
HI380	3/8" internal pipe wrench	5
HI500	1/2" internal pipe wrench	5
HI750	3/4" internal pipe wrench	5
HI100	1" internal pipe wrench	5
HAS300	Adjustable strainer wrench	10
HPO400	4-Way plug wrench	10
HS500	Spanner/strainer wrench	10
HK50	Utility knife w/extra blade	12

Work Gloves - Cotton, Leather & Rubber Coated



AGWG205L

Heavy Duty LEATHER Work Glove Features:

- Gunn pattern; leather extends around the front of each finger, leaving no exposed seams or cloth in the palm “wear" area.
- Leather palm, fabric back.
- Generously sized to provide a comfortable fit.
- Winged thumb, 2 1/2" safety cuff.

Part Number	Description	Bundle Qty	Ctn Qty
AGWG205L	Heavy Duty Leather glove	12 pairs	120 pair



AGWG6600 Series

ARMOR Rubber Coated Work Glove Features:

- Textured, blue natural rubber coating over seamless, breathable knit liner.
- Ideal for grabbing anything under wet conditions.
- Excellent for any abrasive or slippery application - pump & well, pool & spa, irrigation, plumbing & heating.
- Contoured fingers reduce hand fatigue.

Part Number	Description	Bundle Qty	Ctn Qty
AGWG6600L	Rubber coated knit glove, Large	12 pairs	144 pair
AGWG6600XL	Rubber coated knit glove, XLarge	12 pairs	144 pair



AGWG7114

PVC Coated Work Glove Features:

- PVC coated and etched for “sandy" finish for easy and secure grip.
- 14" length fully lined with cotton jersey.
- Suitable for working with corrosive chemicals.

Part Number	Description	Bundle Qty	Ctn Qty
AGWG7114	PVC Coated work glove, 14"	Bulk	48 pair

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PLIERS - WRENCHES
SCREWDRIVERS - NUT DRIVERS


T25343


T25381


T7910


T25432


T50232


07293


T23106

Part Number	Description	Ctn Qty
PLIERS - STANDARD TYPE		
T25343	10" Groove joint plier	5
T25344	12" Groove joint plier	5
T25361	6" Diagonal Cutter	5
T25381	6 1/2" Long nose plier	5
WRENCHES - ADJUSTABLE - BULK		
T7906	6" Adjustable wrench	6
T7910	10" Adjustable wrench	6
T7912	12" Adjustable wrench	6
T7915	15" Adjustable wrench	4
WRENCHES - PIPE		
T25432	10" Pipe wrench	6
T25436	14" Pipe wrench	6
T25438	18" Pipe wrench	2
T25446	24" Pipe wrench	1
T25464	14" Aluminum pipe wrench	6
T25468	18" Aluminum pipe wrench	2
SCREWDRIVERS - BULK		
T50232	#2 Phillips x 4"	5
T50233	#3 Phillips x 6"	5
4 in 1 SCREWDRIVER		
07293	4 in 1 Driver - Soft Touch Handle Includes Phillips #1, #2, Sq Rec #2 & slotted 6-8	1
NUT DRIVERS - CARBON STEEL - SAE		
T23106	1/4" Nut driver	1
T23107	5/16" Nut driver	1
T23109	3/8" Nut driver	1

Hand Tools

PRY BARS - HACKSAWS - HAND SAWS - SNIPS - BOLT CUTTERS - UTILITY KNIVES - MEASURING -


T71158


T47015


T22467


T7078


T22370


T25426


T00970


01176


TS732


T22641


T59301 T59302


T77129

Part Number	Description	Ctn Qty
RUBBER MALLETS		
T71154	16 oz. Black head rubber mallet	10
T71158	32 oz. Black head rubber mallet	10
PRY BARS - FLAT		
T47015	14" (355 mm) Spring steel flat pry bar	25
HACKSAWS		
T22467	Home Owner Pro hacksaw	12
T7078	Handi cut mini hacksaw	5
HACKSAW BLADES - BI-METAL - BULK		
T22555B	12" x 24T Bi-metal hacksaw blade	10
SNIPS - AVIATION		
T22370	Aviation snips - straight cut, yellow handle	6
BOLT CUTTERS		
T25426	24" Bolt cutter	1
UTILITY KNIVES and BLADES, GLASS SCRAPERS		
T00971	Lg plastic utility knife, soft touch hdl & autolock-Yellow	1
T00970	Large plastic utility knife w/ soft touch handle & autolock **DISPLAY BOX of 36** - 9 each yellow, red, green, purple	36
TAPE MEASURES		
01176	1" x 25' Orange Tape Measure - Rubber Jacket **DISPLAY BOX of 12**	12
TS732	300' (92m) Fiberglass Open Reel Long Tape	6
WIRE BRUSHES		
T22640	Long Hdl 3 x 19 Carbon Wire Fill Scratch Brush	24
FLAGGING TAPE		
T59301	3" x 300' DANGER Flagging Tape	27
T59302	3" x 300' CAUTION Flagging Tape	27
KNEE PADS - NON-LEATHER		
T77129	Accordion Knee Pads	1

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DRILL BITS - HOLE SAWS
SAW BLADES - WHEELS



T90013



T75049



T21719



T22110



T22218-5

Part Number	Description	Ctn Qty
DRILL BITS - TITANIUM SETS - with 135 Degree Split Point - in Visidex Metal Box		
T90013	13 pc Titanium Drill Bit Set - 1/16" - 1/4"	5
DRILL BITS - SDS-PLUS - HAMMER/ROTARY - MASONRY - CARBIDE TIP - SINGLE FLUTE		
T75049	3/4" x 8" Overall SDS - Useable 6"	3
HOLE SAWS - TWO PIECE BI-METAL - 1-3/8" DEEP CUT - M3 STEEL		
T21719	1-7/8" Two Piece Bi-Metal Hole Saw	6
T21725	2-1/4" Two Piece Bi-Metal Hole Saw	6
RECIPROCATING SAW BLADES - BI-METAL - 1/2" UNIVERSAL SHANK - 1 PER PACK		
T22208	Fast Cut Nailed Wood & Plastic 6TPI x 6.01"	10
T22210	Fast Cut Wood/Nailed Wood 6TPI x 12.02"	10
T22217	Mtl Contours/Tubing 1/8"-3/16" 18TPIx6.01"	10
RECIPROCATING SAW BLADES - BI-METAL - 1/2" UNIVERSAL SHANK - 5 PER POUCH		
T22218-5	Mtl Contours/Tubing up to 1/8" 24TPIx6.01"	1
RECIPROCATING BLADES - DEMOLITION - BI-METAL - 1/2" UNIVERSAL SHANK		
T23201	9" x 6TPI Wood & Nail Demolition Blade- Bulk	10
T23206	6" x 9TPI Metal & Pipe Demolition Blade - Bulk	10

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MECHPRESS-G Carbon Steel Press Fittings

MECHPRESS-G Carbon Steel Press Fittings for Gas & Fuel Oil

Features:

- Designed to be used with Schedule 10 to 40 carbon steel pipe on nominal sizes ½" to 2".
- Can be connected to most carbon steel systems installed in residential, commercial and industrial systems, including systems with seamless steel pipe (S) or ERW steel pipe (W).
- 360° Symmetric design with double row of stainless steel grip rings.
- Visual confirmation of press via fall away shrink wrapped fitting hubs.
- Visual identification check with color coded squares. Yellow for MECHPRESS-G Gas & fuel oil systems.
- HNBR sealing element for MECHPRESS-G.
- Compatible with leading carbon steel pipe press tools, jaws and rings in the market.
- 15-year limited warranty on MECHPRESS carbon steel press fittings.



Part Number	Size Description	Ctn Qty
90 ELBOWS	**PRS x PRS**	
100406005	MECH-G PRS X PRS 90 ELBOW 1/2	100
100406007	MECH-G PRS X PRS 90 ELBOW 3/4	60
100406010	MECH-G PRS X PRS 90 ELBOW 1	40
100406012	MECH-G PRS X PRS 90 ELBOW 11/4	20
100406015	MECH-G PRS X PRS 90 ELBOW 11/2	10
100406020	MECH-G PRS X PRS 90 ELBOW 2	10



90 ELBOWS	**FTG x PRS**	
100409005	MECH-GFTG X PRS 90 ELBOW 1/2	100
100409007	MECH-GFTG X PRS 90 ELBOW 3/4	80
100409010	MECH-GFTG X PRS 90 ELBOW 1	40
100409012	MECH-G FTG X PRS 90 ELBOW 11/4	20
100409015	MECH-GFTG X PRS 90 ELBOW 11/2	15
100409020	MECH-GFTG X PRS 90 ELBOW 2	10



45 ELBOWS	**PRS x PRS**	
100417005	MECH-G PRS X PRS 45 ELBOW 1/2	100
100417007	MECH-G PRS X PRS 45 ELBOW 3/4	80
100417010	MECH-G PRS X PRS 45 ELBOW 1	50
100417012	MECH-G PRS X PRS 45 ELBOW 11/4	25
100417015	MECH-G PRS X PRS 45 ELBOW 11/2	20
100417020	MECH-G PRS X PRS 45 ELBOW 2	10



45 ELBOWS	**FTG x PRS**	
100418005	MECH-GFTG X PRS 45 ELBOW 1/2	100
100418007	MECH-GFTG X PRS 45 ELBOW 3/4	90
100418010	MECH-G FTG X PRS 45 ELBOW 1	50
100418012	MECH-G FTG X PRS 45 ELBOW 11/4	30
100418015	MECH-GFTG X PRS 45 ELBOW 11/2	20
100418020	MECH-GFTG X PRS 45 ELBOW 2	10



TEE	**PRS x PRS x PRS**	
100401005	MECH-G PRS TEE 1/2	50
100401007	MECH-G PRS TEE 3/4	50
100401010	MECH-G PRS TEE 1	30
100401012	MECH-G PRS TEE 11/4	15
100401015	MECH-G PRS TEE 11/2	15
100401020	MECH-G PRS TEE 2	10

MECHPRESS G Carbon Steel Press Fittings



Part Number	Size Description	Ctn Qty
REDUCING TEE	**PRS x PRS x PRS**	
100401443	MECH-G PRS TEE 3/4X3/4X1/2	50
100401553	MECH-G PRS TEE 1X1X1/2	30
100401554	MECH-G PRS TEE 1X1X3/4	30
100401663	MECH-G PRS TEE 11/4X11/4X1/2	15
100401664	MECH-G PRS TEE 11/4X11/4X3/4	15
100401665	MECH-G PRS TEE 11/4X11/4X1	15
100401773	MECH-G PRS TEE 11/2X11/2X1/2	15
100401774	MECH-G PRS TEE 11/2X11/2X3/4	15
100401775	MECH-G PRS TEE 11/2X11/2X1	15
100401776	MECH-G PRS TEE 11/2X11/2X11/4	15
100401883	MECH-G PRS TEE 2X2X1/2	10
100401884	MECH-G PRS TEE 2X2X3/4	10
100401885	MECH-G PRS TEE 2X2X1	10
100401886	MECH-G PRS TEE 2X2X11/4	10
100401887	MECH-G PRS TEE 2X2X11/2	10



TEE	**PRS x PRS x FPT**	
100402007	MECH-G PXPXFPT TEE 3/4X3/4X3/4	50
100402443	MECH-G PXPXFPT TEE 3/4X3/4X1/2	50
100402553	MECH-G PXPXFPT TEE 1X1X1/2	30
100402554	MECH-G PXPXFPT TEE 1X1X3/4	30
100402663	MECH-G PXPXFPT TEE 11/4X11/4X1/2	20
100402664	MECH-G PXPXFPT TEE 11/4X11/4X3/4	15
100402665	MECH-G PXPXFPT TEE 11/4X11/4X1	15
100402773	MECH-G PXPXFPT TEE 11/2X11/2X1/2	20
100402774	MECH-G PXPXFPT TEE 11/2X11/2X3/4	15
100402775	MECH-G PXPXFPT TEE 11/2X11/2X1	15
100402776	MECH-G PXPXFPT TEE 11/2X11/2X11/4	15
100402883	MECH-G PXPXFPT TEE 2X2X1/2	10
100402884	MECH-G PXPXFPT TEE 2X2X3/4	10
100402885	MECH-G PXPXFPT TEE 2X2X1	10
100402886	MECH-G PXPXFPT TEE 2X2X11/4	10
100402887	MECH-G PXPXFPT TEE 2X2X11/2	10



COUPLING	**PRS x PRS**	
100429005	MECH-G PRS X PRS CPLG 1/2	120
100429007	MECH-G PRS X PRS CPLG 3/4	100
100429010	MECH-G PRS X PRS CPLG 1	50
100429012	MECH-G PRS X PRS CPLG 11/4	30
100429015	MECH-G PRS X PRS CPLG 11/2	25
100429020	MECH-G PRS X PRS CPLG 2	15



REDUCING COUPLING	**PRS x PRS**	
100429043	MECH-G PRSXPRS RED CPG 3/4X1/2	70
100429053	MECH-G PRS X PRS RED CPG 1X1/2	50
100429054	MECH-G PRS X PRS RED CPLG 1X3/4	50
100429064	MECH-G PRSXPRS RD CPG 11/4X3/4	30
100429065	MECH-G PRSXPRS RED CPLG 11/4X1	25
100429076	MECH-G PRSXPRS CPG 11/2X11/4	20
100429086	MECH-G PRSXPRS RD CPLG 2X11/4	20
100429087	MECH-G PRSXPRS RD CPLG 2X11/2	15

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MECHPRESS G Carbon Steel Press Fittings



Part Number	Size Description	Ctn Qty
COUPLING - NO STOP PRS x PRS		
100428005	MECH-G PRSXPRS CPG NO STP 1/2	100
100428007	MECH-G PRSXPRS CPG NO STP 3/4	100
100428010	MECH-G PRS X PRS CPLG NO STP 1	50
100428012	MECH-G PRSXPRS CPG NO STP 11/4	25
100428015	MECH-G PRSXPRS CPG NO STP 11/2	25
100428020	MECH-G PRS X PRS CPLG NO STP 2	15



COUPLING - NO STOP EXTENDED PRS x PRS		
100426005	MECH-G PRSXPRS NO STP CPG 1/2	70
100426007	MECH-G PRSXPRS NO STP CPG 3/4	70
100426010	MECH-G PRSXPRS NO STP CPG 1	30
100426012	MECH-G PRSXPRS NO STP CPG 11/4	15
100426015	MECH-G PRSXPRS NO STP CPG 11/2	15
100426020	MECH-G PRSXPRS NO STP EXT CPG 2	10



BUSHING	**FTG x PRS**	
100437043	MECH-G FTG X PRS B WRT 3/4X1/2	100
100437053	MECH-GFTG XPRS B WRT 1X1/2	100
100437054	MECH-GFTG XPRS B WRT 1X3/4	75
100437065	MECH-GFTG X PRS B WRT 11/4X1	40
100437074	MECH-G FTGXPRS B WRT 11/2X3/4	35
100437075	MECH-G FTG X PRS B WRT 11/2X1	35
100437076	MECH-G FTGXPR B WRT 11/2X11/4	30
100437085	MECH-GFTG X PRS B WRT 2X1	30
100437086	MECH-GFTG X PRS B WRT 2X11/4	20
100437087	MECH-GFTG X PRS B WRT 2X11/2	20



MALE ADAPTER	**PRS x MPT**	
100436005	MECH-G PRS X M ADT 1/2X1/2	120
100436007	MECH-G PRS X M ADT 3/4X3/4	90
100436010	MECH-G PRS X M ADT 1X1	60
100436012	MECH-G PRS X M ADT 11/4X11/4	40
100436015	MECH-G PRS X M ADT 11/2X11/2	20
100436020	MECH-G PRS X M ADT 2X2	20



FEMALE ADAPTER	**PRS x FPT**	
100435005	MECH-G PRS X F ADT 1/2X1/2	120
100435007	MECH-G PRS X F ADT 3/4X3/4	120
100435010	MECH-G PRS X F ADT 1X1	60
100435012	MECH-G PRS X F ADT 11/4X11/4	50
100435015	MECH-G PRS X F ADT 11/2X11/2	20
100435020	MECH-G PRS X F ADT 2X2	20



FEMALE REDUCING ADAPTER	**PRS x FPT**	
100435043	MECH-G PRS X F ADT 3/4X1/2	100
100435053	MECH-G PRS X F ADT 1X1/2	80
100435054	MECH-G PRS X F ADT 1X3/4	80
100435063	MECH-G PRS X F ADT 11/4X1/2	40
100435064	MECH-G PRS X F ADT 11/4X3/4	30
100435065	MECH-G PRS X F ADT 11/4X1	30
100435073	MECH-G PRS X F ADT 11/2X1/2	30
100435074	MECH-G PRS X F ADT 1 1/2 X 3/4	25

MECHPRESS G Carbon Steel Press Fittings

Part Number	Size Description	Ctn Qty
100435075	MECH-G PRS X F ADT 1 1/2 X 1	20
100435076	MECH-G PRS X F ADT 11/2 x 11/4	20
100435083	MECH-G PRS X F ADT 2 X 1/2	20
100435084	MECH-G PRS X F ADT 2 X 3/4	20
100435085	MECH-G PRS X F ADT 2 X 1	20
100435086	MECH-G PRS X F ADT 2 X 1 1/4	20
100435087	MECH-G PRS X F ADT 2 X 1 1/2	20



TUBE CAP	PRS	
100447005	MECH-G PRS TUBE CAP 1/2	150
100447007	MECH-G PRS TUBE CAP 3/4	120
100447010	MECH-G PRS TUBE CAP 1	75
100447012	MECH-G PRS TUBE CAP 11/4	40
100447015	MECH-G PRS TUBE CAP 11/2	25
100447020	MECH-G PRS TUBE CAP 2	20



FLANGE	PRS X FLANGE	
100454005	MECH-G PRS X FLANGE 1/2	2
100454007	MECH-G PRS X FLANGE 3/4	2
100454010	MECH-G PRS X FLANGE 1	2
100454012	MECH-G PRS X FLANGE 11/4	2
100454015	MECH-G PRS X FLANGE 11/2	2
100454020	MECH-G PRS X FLANGE 2	2



UNION	PRS X PRS	
100497005	MECH-G PRS X PRS UNION 1/2	50
100497007	MECH-G PRS X PRS UNION 3/4	30
100497010	MECH-G PRS X PRS UNION 1	25
100497012	MECH-G PRS X PRS UNION 11/4	15
100497015	MECH-G PRS X PRS UNION 11/2	10
100497020	MECH-G PRS X PRS UNION 2	5



UNION	PRS X FPT	
100496005	MECH-G PRS X FPT UNION 1/2	70
100496007	MECH-G PRS X FPT UNION 3/4	30
100496010	MECH-G PRS X FPT UNION 1	30
100496012	MECH-G PRS X FPT UNION 11/4	20
100496015	MECH-G PRS X FPT UNION 11/2	20
100496020	MECH-G PRS X FPT UNION 2	10

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MECHPRESS Carbon Steel Press Fittings

MECHPRESS Carbon Steel Press Fittings for Mechanical & Fire Protection Features:

NEW

- Designed to be used with Schedule 10 to 40 carbon steel pipe on nominal sizes ½" to 2".
- Can be connected to most carbon steel systems installed in residential, commercial and industrial systems, including systems with seamless steel pipe (S) or ERW steel pipe (W).
- 360° Symmetric design with double row of stainless steel grip rings.
- Visual confirmation of press via fall away shrink wrapped fitting hubs.
- Visual identification check with color coded squares. Green for MECHPRESS Mechanical & Fire protection systems.
- FKM sealing element for MECHPRESS.
- Compatible with leading carbon steel pipe press tools, jaws and rings in the market.
- 15-year limited warranty on all MECHPRESS carbon steel press fittings



Part Number	Size Description	Ctn Qty
90 ELBOWS	**PRS x PRS**	
100506005	MECH PRS X PRS 90 ELBOW 1/2	100
100506007	MECH PRS X PRS 90 ELBOW 3/4	60
100506010	MECH PRS X PRS 90 ELBOW 1	40
100506012	MECH PRS X PRS 90 ELBOW 11/4	20
100506015	MECH PRS X PRS 90 ELBOW 11/2	10
100506020	MECH PRS X PRS 90 ELBOW 2	10



90 ELBOWS	**FTG x PRS**	
100509005	MECH FTG X PRS 90 ELBOW 1/2	100
100509007	MECH FTG X PRS 90 ELBOW 3/4	80
100509010	MECH FTG X PRS 90 ELBOW 1	40
100509012	MECH FTG X PRS 90 ELBOW 11/4	20
100509015	MECH FTG X PRS 90 ELBOW 11/2	15
100509020	MECH FTG X PRS 90 ELBOW 2	10



45 ELBOWS	**PRS x PRS**	
100517005	MECH PRS X PRS 45 ELBOW 1/2	100
100517007	MECH PRS X PRS 45 ELBOW 3/4	80
100517010	MECH PRS X PRS 45 ELBOW 1	50
100517012	MECH PRS X PRS 45 ELBOW 11/4	25
100517015	MECH PRS X PRS 45 ELBOW 11/2	20
100517020	MECH PRS X PRS 45 ELBOW 2	10



45 ELBOWS	**FTG x PRS**	
100518005	MECH FTG X PRS 45 ELBOW 1/2	100
100518007	MECH FTG X PRS 45 ELBOW 3/4	90
100518010	MECH FTG X PRS 45 ELBOW 1	50
100518012	MECH FTG X PRS 45 ELBOW 11/4	30
100518015	MECH FTG X PRS 45 ELBOW 11/2	20
100518020	MECH FTG X PRS 45 ELBOW 2	10



TEE	**PRS x PRS x PRS**	
100501005	MECH PRS TEE 1/2	50
100501007	MECH PRS TEE 3/4	50
100501010	MECH PRS TEE 1	30
100501012	MECH PRS TEE 11/4	15
100501015	MECH PRS TEE 11/2	15
100501020	MECH PRS TEE 2	10

MECHPRESS Carbon Steel Press Fittings



REDUCING TEE	PRS x PRS x PRS	
100501443	MECH PRS T 3/4X3/4X1/2	50
100501553	MECH PRS T 1X1X1/2	30
100501554	MECH PRS T 1X1X3/4	30
100501663	MECH PRS T 11/4X11/4X1/2	15
100501664	MECH PRS T 11/4X11/4X3/4	15
100501665	MECH PRS T 11/4X11/4X1	15
100501773	MECH PRS T 11/2X11/2X1/2	15
100501774	MECH PRS T 11/2X11/2X3/4	15
100501775	MECH PRS T 11/2X11/2X1	15
100501776	MECH PRS T 11/2X11/2X11/4	15
100501883	MECH PRS TEE 2X2X1/2	10
100501884	MECH PRS TEE 2X2X3/4	10
100501885	MECH PRS TEE 2X2X1	10
100501886	MECH PRS TEE 2X2X11/4	10
100501887	MECH PRS TEE 2X2X11/2	10



TEE	PRS x PRS x FPT	
100502007	MECH PXPXFPT TEE 3/4X3/4X3/4	50
100502443	MECH PXPXFPT TEE 3/4X3/4X1/2	50
100502553	MECH PXPXFPT TEE 1X1X1/2	30
100502554	MECH PXPXFPT TEE 1X1X3/4	30
100502663	MECH PXPXFPT T 11/4X11/4X1/2	20
100502664	MECH PXPXFPT T 11/4X11/4X3/4	15
100502665	MECH PXPXFPT T 11/4X11/4X1	15
100502773	MECH PXPXFPT T 11/2X11/2X1/2	20
100502774	MECH PXPXFPT T 11/2X11/2X3/4	15
100502775	MECH PXPXFPT T 11/2X11/2X1	15
100502776	MECH PXPXFPT T 11/2X11/2X11/4	15
100502883	MECH PXPXFPT TEE 2X2X1/2	10
100502884	MECH PXPXFPT TEE 2X2X3/4	10
100502885	MECH PXPXFPT TEE 2X2X1	10
100502886	MECH PXPXFPT TEE 2X2X11/4	10
100502887	MECH PXPXFPT TEE 2X2X11/2	10



COUPLING	PRS x PRS	
100529005	MECH PRS X PRS CPLG 1/2	120
100529007	MECH PRS X PRS CPLG 3/4	100
100529010	MECH PRS X PRS CPLG 1	50
100529012	MECH PRS X PRS CPLG 11/4	30
100529015	MECH PRS X PRS CPLG 11/2	25
100529020	MECH PRS X PRS CPLG 2	15



REDUCING COUPLING	PRS x PRS	
100529043	MECH PRS X PRS RD CPLG 3/4X1/2	70
100529053	MECH PRS X PRS RED CPLG 1X1/2	50
100529054	MECH PRS X PRS RED CPLG 1X3/4	50
100529064	MECH PRSXPRS RD CPLG 11/4X3/4	30
100529065	MECH PRS X PRS RED CPLG 11/4X1	25
100529076	MECH PRSXPRS CPLG 11/2X11/4	20
100529086	MECH PRS X PRS RED CPLG 2X11/4	20
100529087	MECH PRS X PRS RED CPLG 2X11/2	15

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MECHPRESS Carbon Steel Press Fittings



COUPLING - NO STOP PRS x PRS

100528005	MECH PRSXPRS CPLG NO STOP 1/2	100
100528007	MECH PRSXPRS CPLG NO STOP 3/4	100
100528010	MECH PRSXPRS CPLG NO STOP 1	50
100528012	MECH PRSXPRS CPLG NOSTOP 11/4	25
100528015	MECH PRSXPRS CPLG NOSTOP 11/2	25
100528020	MECH PRS X PRS CPLG NO STOP 2	15



COUPLING - NO STOP EXTENDED PRS x PRS

100526005	MECH PRSXPRS NSTP EXT CPLG 1/2	70
100526007	MECH PRSXPRS NSTP EXT CPLG 3/4	70
100526010	MECH PRS XPRS NSTP EXT CPLG 1	30
100526012	MECH PRSXPRS NSTP EX CPLG 11/4	15
100526015	MECH PRSXPRS NSTP EX CPLG 11/2	15
100526020	MECH PRSXPRS NSTP EXT CPLG 2	10



BUSHING FTG x PRS

100537043	MECH FTGXPRS BUSH WRT 3/4X1/2	100
100537053	MECH FTGXPRS BUSH WRT 1X1/2	100
100537054	MECH FTGXPRS BUSH WRT 1X3/4	75
100537065	MECH FTGXPRS BUSH WRT 11/4X1	40
100537074	MECH FTGXPRS B WRT 11/2X3/4	35
100537075	MECH FTGXPRS BUSH WRT 11/2X1	35
100537076	MECH FTG XPRS B WRT 11/2X11/4	30
100537085	MECH FTGXPRS BUSH WRT 2X1	30
100537086	MECH FTG XPRS BUSH WRT 2X11/4	20
100537087	MECH FTG XPRS BUSH WRT 2X11/2	20



MALE ADAPTER PRS x MPT

100536005	MECH PRS X M ADT 1/2X1/2	120
100536007	MECH PRS X M ADT 3/4X3/4	90
100536010	MECH PRS X M ADT 1X1	60
100536012	MECH PRS X M ADT 11/4X11/4	40
100536015	MECH PRS X M ADT 11/2X11/2	20
100536020	MECH PRS X M ADT 2X2	20



FEMALE ADAPTER PRS x FPT

100535005	MECH PRS X F ADT 1/2X1/2	120
100535007	MECH PRS X F ADT 3/4X3/4	120
100535010	MECH PRS X F ADT 1X1	60
100535012	MECH PRS X F ADT 11/4X11/4	50
100535015	MECH PRS X F ADT 11/2X11/2	20
100535020	MECH PRS X F ADT 2X2	20



FEMALE REDUCING ADAPTER PRS x FPT

100535043	MECH PRS X F ADT 3/4X1/2	100
100535053	MECH PRS X F ADT 1X1/2	80
100535054	MECH PRS X F ADT 1X3/4	80
100535063	MECH PRS X F ADT 11/4X1/2	40
100535064	MECH PRS X F ADT 11/4X3/4	30
100535065	MECH PRS X F ADT 11/4X1	30
100535073	MECH PRS X F ADT 11/2X1/2	30
100535074	MECH PRS X F ADT 11/2X3/4	25
100535075	MECH PRS X F ADT 11/2X1	20
100535076	MECH PRS X F ADT 11/2X11/4	20

100535083	MECH PRS X F ADT 2X1/2	20
100535084	MECH PRS X F ADT 2X3/4	20
100535085	MECH PRS X F ADT 2X1	20
100535086	MECH PRS X F ADT 2X11/4	20
100535087	MECH PRS X F ADT 2X11/2	20



TUBE CAP	PRS	
100547005	MECH PRS TUBE CAP 1/2	150
100547007	MECH PRS TUBE CAP 3/4	120
100547010	MECH PRS TUBE CAP 1	75
100547012	MECH PRS TUBE CAP 11/4	40
100547015	MECH PRS TUBE CAP 11/2	25
100547020	MECH PRS TUBE CAP 2	20



FLANGE	PRS X FLANGE	
100554005	MECH PRS X FLANGE 1/2	2
100554007	MECH PRS X FLANGE 3/4	2
100554010	MECH PRS X FLANGE 1	2
100554012	MECH PRS X FLANGE 11/4	2
100554015	MECH PRS X FLANGE 11/2	2
100554020	MECH PRS X FLANGE 2	2



UNION	PRS X PRS	
100597005	MECH PRS X PRS UNION 1/2	50
100597007	MECH PRS X PRS UNION 3/4	30
100597010	MECH PRS X PRS UNION 1	25
100597012	MECH PRS X PRS UNION 11/4	15
100597015	MECH PRS X PRS UNION 11/2	10
100597020	MECH PRS X PRS UNION 2	5



UNION	PRS X FPT	
100596005	MECH PRS X FPT UNION 1/2	70
100596007	MECH PRS X FPT UNION 3/4	30
100596010	MECH PRS X FPT UNION 1	30
100596012	MECH PRS X FPT UNION 11/4	20
100596015	MECH PRS X FPT UNION 11/2	20
100596020	MECH PRS X FPT UNION 2	10

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Press Copper Fittings



NEW

Press Copper Fitting Features:

- Easy-to-install 1/2" - 4" secure connections complete with leak detection.
- Compatible with K, L and M copper tubing meeting ASME/ASTM B88.
- Compatible with Milwaukee and RIDGID tools and jaws.
- Can be used with potable water, hydronic heating, chilled water, compressed air (200 psi max), non-medical gases (140 psi max) and low pressure steam (15 psi max).
- Working Pressure: 200 psi max.
- Working Temperature: 0-250° F.
- Meets ASME, IAPMO, NSF, ICC-ES Standards.

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

COMPLIANCE REFERENCES:
Materials: ASTM B88 alloy C12200 (99.9% cu)
Threads: ASME B1.20.1
Properties: IAPMO PA117, ASME B16.51
PRODUCT CERTIFICATIONS:
IAMPMO: IAPMO PS 117, Uniform Plumbing Code (UPC)
ICC-ES: ASME b16.51
NSF: NSF/ANSI 61, NSF/ANSI 372 (Lead Free)
BMEC: Ontario 22-01-397

Press Female Adapter P x FPT

* Fabricated



Part No	XRef to Viega #	Size	Ctn Qty
100235005	79300	1/2 x 1/2	30/300
100235007	79315	3/4 x 3/4	15/150
100235010	79330	1 x 1	12/120
100235012	79350	1 1/4 x 1 1/4	10/40
100235015	79365	1 1/2 x 1 1/2	2/50
100235020	79370	2 x 2	4/24
100235025 *	20819	2 1/2 x 2 1/2	2/10
100235030 *	20829	3 x 3	1/8
100235040 *		4 x 4	1/6

Press Male Adapter P x MPT



Part No	XRef to Viega #	Size	Ctn Qty
100236005	79215	1/2 x1/2	25/400
100236007	79230	3/4 x 3/4	25/250
100236010	79245	1 x 1	10/100
100236012	79260	1 1/4 x 1 1/4	10/40
100236015	79275	1 1/2 x 1 1/2	5/50
100236020	79290	2 x 2	4/24
100236025	20823	2 1/2 x 2 1/2	2/10
100236030	20828	3 x 3	1/8
100236040	20839	4 x 4	1/6

Press Female Reducing Adapter P x FPT



Part No	XRef to Viega #	Size	Ctn Qty
100235076	79305	1/2 x 3/4	15/150
100235101	79310	3/4 x 1/2	10/150
100235130	79320	1 x 1/2	5/100
100235131	79325	1 x 3/4	5/80
100235133	79335	1 x 1 1/4	5/80
100235168	79345	1 1/4 x 1	8/80
100235169	79355	1 1/4 x 1 1/2	6/60
100235215	79360	1 1/2 x 1 1/4	6/60

Press Male Reducing Adapter P x MPT



Part No	XRef to Viega #	Size	Ctn Qty
100236076	79220	1/2 x 3/4	10/300
100236101	79225	3/4 x 1/2	10/250
100236104		3/4 x 1	15/150
100236131	79240	1 x 3/4	5/100
100236132	79250	1 x 1 1/4	5/80
100236168	79255	1 1/4 x 1	5/60
100236169		1 1/4 x 1 1/2	6/60
100236215	79270	1 1/2 x 1 1/4	5/30
100236216		1 1/2 x 2	5/20

Press Copper Fittings

NEW

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

Press Female Street Adapter FTG x FPT



Part No	XRef to Viega #	Size	Ctn Qty
100238005	79430	1/2 x 1/2	50/400
100238043	79440	3/4 x 1/2	25/300
100238007	79445	3/4 x 3/4	25/300
100238010	79450	1 x 1	10/200
100238012	79465	1 1/4 x 1 1/4	10/150
100238015	79470	1 1/2 x 1 1/2	10/100
100238020	79475	2 x 2	5/30

Press Male Street Adapter FTG x MPT



Part No	XRef to Viega #	Size	Ctn Qty
100234005	79380	1/2 x1/2	50/500
100234007	79395	3/4 x 3/4	25/300
100234010	79405	1 x 1	10/200
100234012	79410	1 1/4 x 1 1/4	10/120
100234015	79415	1 1/2 x 1 1/2	10/80
100234020	79420	2 x 2	5/30

Press X PEX Adapters Lead Free Brass P x PEX



Part No	Size	Ctn Qty
100238005PX	1/2	30/300
100238043PX	1/2 x 3/4	20/250
100238007PX	3/4	20/200
100238034PX	3/4x1/2	25/250
100238010PX	1	25/150

Press X COLD Expansion Adapters Lead Free Brass P x CE



Part No	Size	Ctn Qty
100238005CE	1/2	20/420
100238043CE	1/2x3/4	25/250
100238007CE	3/4	25/200
100238034CE	3/4x1/2	25/200
100238010CE	1	10/120

Press Coupling with STOP P x P



Part No	XRef to Viega #	Size	Ctn Qty
100229005	78047	1/2	10 /300
100229007	78052	3/4	10 /150
100229010	78057	1	10 /120
100229012	78062	1 1/4	5 /50
100229015	78067	1 1/2	2 /20
100229020	78072	2	1/10
100229025	20728	2 1/2	1 /16
100229030	20733	3	1 /8
100229040	20738	4	1 /5

Press Coupling without STOP P x P



Part No	XRef to Viega #	Size	Ctn Qty
100228005	78172	1/2	10/300
100228007	78177	3/4	10/80
100228010	78182	1	10/60
100228012	78187	1 1/4	4/60
100228015	78192	1 1/2	2/30
100228020	78197	2	2/20
100228025	20743	2 1/2	1/10
100228030		3	1/8
100228040		4	1/6

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Press Copper Fittings

NEW

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Third Party Certified to NSF/ANSI 61 & 372

Press Reducer Coupling P x P



Part No	XRef to Viega #	Size	Ctn Qty
100229101	78147	3/4 x 1/2	10/150
100229130	15603	1 x 1/2	10/60
100229131	78152	1 x 3/4	5/80
100229166		1 1/4 x 1/2	4/72
100229167	15593	1 1/4 x 3/4	4/72
100229168	78157	1 1/4 x 1	5/40
100229212		1 1/2 x 1/2	5/25
100229213	18473	1 1/2 x 3/4	4/20
100229214	15588	1 1/2 x 1	4/28
100229215	78162	1 1/2 x 1 1/4	4/20
100229251	18468	2 x 3/4	2/16
100229252	15608	2 x 1	2/16
100229253	22328	2 x 1 1/4	2/16
100229254	78167	2 x 1 1/2	2/12
100229289	20685	2 1/2 x 1	1/20
100229290	20690	2 1/2 x 1 1/4	1/20
100229291	20695	2 1/2 x 1 1/2	1/12
100229292	20700	2 1/2 x 2	1/10
100229338	20710	3 x 2	1/10
100229339	20715	3 x 2 1/2	1/8
100229420	20720	4 x 2	1/6
100229421	20725	4 x 2 1/2	1/6
100229422	20730	4 x 3	1/6

Press Reducer Coupling FTG x P



Part No	XRef to Viega #	Size	Ctn Qty
100237101	78077	3/4 x 1/2	25/400
100237130	78082	1 x 1/2	10/120
100237131	78087	1 x 3/4	10/80
100237166		1 1/4 x 1/2	5/100
100237167	78092	1 1/4 x 3/4	4/72
100237168	78097	1 1/4 x 1	4/52
100237212	79850	1 1/2 x 1/2	4/28
100237213	14543	1 1/2 x 3/4	4/28
100237214	78102	1 1/2 x 1	2/30
100237215	78107	1 1/2 x 1 1/4	4/28
100237250	79855	2 x 1/2	2/30
100237251	79860	2 x 3/4	2/30
100237252	78112	2 x 1	2/20
100237253	78117	2 x 1 1/4	2/12
100237254	78122	2 x 1 1/2	2/16
100237289	20814	2 1/2 x 1	1/20
100237290	20815	2 1/2 x 1 1/4	1/14
100237291	20813	2 1/2 x 1 1/2	1/12
100237292	20758	2 1/2 x 2	1/12
100237336	20817	3 x 1 1/4	1/10
100237337	20818	3 x 1 1/2	1/10
100237338	20763	3 x 2	1/15
100237339	20768	3 x 2 1/2	1/10
100237420	20773	4 x 2	1/6
100237421	20778	4 x 2 1/2	1/6
100237422	20783	4 x 3	1/6

Press Coupling Extended Length without STOP P x P



Part No	XRef to Viega #	Size	Ctn Qty
100226005	79005	1/2	1/150
100226007	79010	3/4	1/80
100226010	79015	1	1/60
100226012	79020	1 1/4	1/36
100226015	79025	1 1/2	1/25
100226020	79030	2	1/15

Press Cap P x P



Part No	XRef to Viega #	Size	Ctn Qty
100247005	77712	1/2	10/300
100247007	77717	3/4	10/300
100247010	77722	1	10/120
100247012	77727	1 1/4	10/60
100247015	77732	1 1/2	5/30
100247020	77737	2	5/20
100247025	20833	2 1/2	1/20
100247030	20843	3	1/15
100247040	20848	4	1/10

Press Copper Fittings

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Press 45° Elbow
P x P



Part No	XRef to Viega #	Size	Ctn Qty
100217005	77607	1/2	10/200
100217007	77023	3/4	10/120
100217010	77028	1	5/70
100217012	77033	1 1/4	4/20
100217015	77038	1 1/2	2/12
100217020	77043	2	2/12
100217025	20653	2 1/2	1/6
100217030	20658	3	1/5
100217040	20663	4	1/2

Press 90° Elbow
Press 90° Reducing Elbow
P x P



Part No	XRef to Viega #	Size	Ctn Qty
100206005	77317	1/2	10/200
100206007	77022	3/4	10/100
100206101	77325	3/4 x 1/2	10/150
100206010	77027	1	5/60
100206131		1 x 3/4	8/80
100206012	77032	1 1/4	2/30
100206015	77037	1 1/2	2/20
100206020	77042	2	2/6
100206025	20623	2 1/2	1/6
100206030	20628	3	1/3
100206040	20633	4	1/2

Press 45° Street Elbow
P x FTG



Part No	XRef to Viega #	Size	Ctn Qty
100218005	77637	1/2	10/200
100218007	77053	3/4	10/100
100218010	77058	1	10/70
100218012	77063	1 1/4	4/20
100218015	77068	1 1/2	2/12
100218020	77073	2	2/12
100218025	20668	2 1/2	1/10
100218030	20673	3	1/5
100218040	20678	4	1/3

Press 90° Street Elbow
FTG x P



Part No	XRef to Viega #	Size	Ctn Qty
100209005	77347	1/2	10/120
100209007	77052	3/4	10/100
100209010	77057	1	5/60
100209012	77062	1 1/4	2/18
100209015	77067	1 1/2	2/20
100209020	77072	2	2/10
100209025	20638	2 1/2	1/8
100209030	20643	3	1/3
100209040	20648	4	1/2

Press Drop Ear 90° Elbow
Lead Free Brass
P x FPT



Part No	XRef to Viega #	Size	Ctn Qty
100214005	79190	1/2	10/150
100214007	79195	3/4	10/150

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Press Copper Fittings

Press Tee
P x P x P
* Fabricated



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Part No	XRef to Viega #	Size	Ctn Qty
100201005	77377	1/2	10/120
100201007	77387	3/4	10/60
100201010	77412	1	4/40
100201012	77442	1 1/4	4/16
100201015	77457	1 1/2	2/8
100201020	77477	2	1/6
100201025 *	20683	2 1/2	1/6
100201030 *	20693	3	1/5
100201040 *	20708	4	1/2

Press Reducing Tee
P x P x P



Part No	XRef to Viega #	Size	Ctn Qty
100201076	77382	1/2 x 1/2 x 3/4	10/100
100201078	15493	1/2 x 1/2 x 1	10/80
100201090	77392	3/4 x 1/2 x 1/2	10/80
100201092	77397	3/4 x 1/2 x 3/4	10/60
100201101	77402	3/4 x 1/2	10/80
100201104	77407	3/4 x 3/4 x 1	5/80
100201122	94767	1 x 1/2 x 1	10/40
100201124	77417	1 x 3/4 x 1/2	5/80
100201125	77422	1 x 3/4 x 3/4	10/60
100201126	77427	1 x 3/4 x 1	10/50
100201130	77432	1 x 1 x 1/2	10/40
100201131		1 x 3/4	10/60
100201155		1 1/4 x 3/4 x 3/4	2/30
100201157		1 1/4 x 3/4 x 1 1/4	2/30
100201160	94762	1 1/4 x 1 x 3/4	6/12
100201161	14568	1 1/4 x 1 x 1	6/12
100201166	94757	1 1/4 x 1/2	4/36
100201167	77452	1 1/4 x 3/4	5/20
100201168	7447	1 1/4 x 1	4/32
100201193		1 1/2 x 1/2 x 1 1/2	3/15
100201200	79660	1 1/2 x 1 x 3/4	5/10
100201201	15458	1 1/2 x 1 x 1	4/20
100201203	15463	1 1/2 x 1 x 1 1/2	2/20
100201206	15453	1 1/2 x 1 1/4 x 1	2/20
100201207	154831	1/2 x 1 1/4 x 1 1/4	4/12
100201212	15448	1 1/2 x 1/2	2/24
100201213	77462	1 1/2 x 3/4	4/24
100201214	77467	1 1/2 x 1	4/20
100201215	77472	1 1/2 x 1 1/4	4/12

Press Reducing Tee
P x P x P
* Fabricated



Part No	XRef to Viega #	Size	Ctn Qty
100201221	22228	2 x 1/2 x 2	2/10
100201233		2 x 1 x 2	1/10
100201238	15518	2 x 1 1/4 x 1 1/4	2/12
100201245	15503	2 x 1 1/2 x 1 1/2	2/10
100201246		2 x 1 1/2 x 2	1/10
100201250	15538	2 x 2 x 1/2	2/12
100201251	94777	2 x 3/4	1/10
100201252	94772	2 x 1	1/12
100201253	77487	2 x 1 1/4	1/10
100201254	77482	2 x 1 1/2	1/10
100201285 *	22278	2 1/2 x 2 x 2	2/10
100201287 *	22303	2 1/2 x 1/2	1/10
100201288 *	22298	2 1/2 x 3/4	1/10
100201289 *	22293	2 1/2 x 1	2/10
100201290 *	22288	2 1/2 x 1 1/4	2/10
100201291 *	20803	2 1/2 x 1 1/2	2/10
100201292 *	20688	2 1/2 x 2	1/7
100201333 *	20759	3 x 3 x 1/2	1/5
100201334 *	22323	3 x 3 x 3/4	1/5
100201335 *	22308	3 x 3 x 1	1/5
100201336 *	22313	3 x 3 x 1 1/4	1/5
100201337 *	20798	3 x 3 x 1 1/2	1/5
100201338 *	20698	3 x 3 x 2	1/5
100201339 *	20703	3 x 2 1/2	1/5
100201415 *	20788	4 x 1/2	1/3
100201416 *	20793	4 x 3/4	1/3
100201417 *	20794	4 x 1	1/2
100201418 *	20795	4 x 1 1/4	1/2
100201419 *	20808	4 x 1 1/2	1/2
100201420 *	20713	4 x 2	1/3
100201421 *	20718	4 x 2 1/2	1/2
100201422 *	20723	4 x 3	1/2

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Press Union
Lead Free Brass
P x P



Part No	XRef to Viega #	Size	Ctn Qty
100297005	79125	1/2	25/150
100297007	79130	3/4	10/100
100297010	79135	1	5/50
100297012	79140	1 1/4	5/40
100297015	79145	1 1/2	5/25
100297020	79150	2	2/10

Press Female Union
Lead Free Brass
P x FPT



Part No	XRef to Viega #	Size	Ctn Qty
100296005	79700	1/2	25/150
100296007	79705	3/4	10/100
100296010	79710	1	5/50
100296012	79715	1 1/4	5/40
100296015	79720	1 1/2	5/25
100296020	79725	2	2/10

Press Male Union
Lead Free Brass
P x MPT



Part No	XRef to Viega #	Size	Ctn Qty
100298005	79730	1/2	25/150
100298007	79735	3/4	10/100
100298010	79740	1	5/50
100298012	79745	1 1/4	5/40
100298015	79750	1 1/2	5/25
100298020	79755	2	2/10

Dielectric Union
Lead Free Brass, Zinc Plated Steel
P x FIP



Part No	XRef to Viega #	Size	Ctn Qty
100288005	**79155**	**1/2**	**144**
100288007	**79160**	**3/4**	**120**
100288010	**79165**	**1**	**72**
100288012	**79170**	**1 1/4**	**48**
100288015	**79175**	**1 1/2**	**36**
100288020	**79180**	**2**	**18**

Brass Stiffener Insert



Part No	XRef to Viega #	Size	Ctn Qty
100200007	**16423**	**3/4**	**200**

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WROT Copper Fittings

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WROT Copper Fitting Features:

- Made from commercially pure copper mill products per ASTM B75 Alloy C12200: Standard specification for seamless round copper tube for general engineering application pressure fittings.
- **Third Party Certified to NSF/ANSI 61& 372**

MATERIAL SPECIFICATIONS:
Materials: ASTM B75 Alloy C12200
Chemical components of copper tube: Cu content ≥ 99.9%, P content 0.015-0.040%, essentially lead free.
PRODUCT CERTIFICATIONS:
ASME/ANSI B16.22: Wrot Copper and Copper Alloy Solder Joint Pressure Fittings
MSS SP-104: Wrot Copper Solder Joint Pressure Fittings For dimensions, material and workmanship.
NSF/ANSI 61: Drinking Water System Component.

Female Adapter
C x FPT



Part No	Size	Ctn Qty
100635000	1/8	50/200
100635004	3/8X3/8	50/600
100635005	1/2X1/2	25/450
100635007	3/4X3/4	25/200
100635010	1X1	10/140
100635012	11/4X11/4	80/80
100635015	11/2X11/2	60/60
100635020	2X2	36/36
100635025	21/2X21/2	2/20
100635030	3X3	1/20
100635072	1/2X1/4	25/500
100635074	1/2X3/8	25/800
100635076	1/2X3/4	10/300
100635101	3/4X1/2	25/300
100635104	3/4X1	25/250
100635130	1X1/2	10/100
100635131	1X3/4	10/150
100635133	1X11/4	10/100
100635168	11/4X1	10/100
100635169	11/4X11/2	10/100

Male Adapter
C x MPT



Part No	Size	Ctn Qty
100636004	3/8X3/8	50/200
100636005	1/2X1/2	25/600
100636007	3/4X3/4	25/250
100636010	1X1	10/150
100636012	11/4X11/4	10/100
100636015	11/2X11/2	65/65
100636020	2X2	38/38
100636025	21/2	40/40
100636030	3X3	2/20
100636040	4X4	1/16
100636059	3/8X1/2	50/500
100636072	1/2X1/4	50/1000
100636074	1/2X3/8	50/800
100636076	1/2X3/4	25/250
100636078	1/2X1	20/200
100636101	3/4X1/2	25/100
100636104	3/4X1	25/300
100636130	1X1/2	25/250
100636131	1X3/4	10/150
100636133	1X11/2	10/100
100636167	11/4X3/4	10/100
100636168	11/4X1	10/120
100636169	11/4X11/2	2/60
100636214	11/2X1	120
100636215	11/2X11/4	120
100636216	11/2X2	5/50

WROT Copper Fittings

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Female FItting Adapter
FTG x FPT



Part No	Size	Ctn Qty
100638005	1/2	50/400
100638007	3/4	25/350
100638010	1X1	20/200
100638012	1 1/4	10/100
100638020	2	5/50

Fitting Male Adapter
FTG x MPT



Part No	Size	Ctn Qty
100634005	1/2	50/600
100634007	3/4	25/100
100634010	1X1	20/200
100634012	11/4X11/4	10/80
100634015	1 1/2 x 11/2	10/80
100634020	2X2	5/50

Coupling
with STOP DIMPLE
C x C



Part No	Size	Ctn Qty
100629000	1/8	25/3000
100629002	1/4	25/2000
100629004	3/8	50/1200
100629005	1/2	25/800
100629006	5/8	25/500
100629007	3/4	25/300
100629010	1	10/150
100629012	11/4	10/100
100629015	11/2	10/60
100629020	2	40/40
100629025	21/2	40/40
100629030	3	30/30
100629040	4	12/12
100629060	6	3/3

Coupling
with STOP ROLLED
C x C



Part No	Size	Ctn Qty
100627000	1/8	100/5000
100627001	1/4	100/2500
100627002	3/8	100/1200
100627004	1/2	50/700
100627005	5/8	50/500
100627006	3/4	25/300
100627007	7/8	20/200
100627010	1	20/150
100627012	1 1/4	10/80
100627015	1 1/2	10/50
100627020	2	5/30
100627025	2 1/2	2/40
100627030	3	2/32
100627035	3 1/2	2/18
100627040	4	1/10
100627060	6	1/4

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Reducer Coupling with STOP C x C



Part No	Size	Ctn Qty
100629057	3/8X1/4	25/800
100629055	3/8X1/8	100/800
100629031	1/4X1/8	100/2500
100629070	1/2X1/8	25/800
100629072	1/2X1/4	25/800
100629074	1/2X3/8	25/800
100629098	3/4X1/4	25/400
100629099	3/4X3/8	25/400
100629101	3/4X1/2	25/350
100629102	3/4X5/8	25/350
100628065	5/8X1/2	50/500
100629130	1X1/2	10/200
100628106	1X5/8	25/150
100629131	1X3/4	10/160
100629166	11/4X1/2	10/100
100628126	11/4X5/8	25/100
100629167	11/4X3/4	10/100
100629168	11/4X1	10/100
100629212	11/2X1/2	10/100
100628156	11/2X5/8	10/60
100629213	11/2X3/4	10/100
100629214	11/2X1	10/100
100629215	11/2X11/4	10/100
100629250	2X1/2	50/50
100629251	2X3/4	50/50
100629252	2X1	50/50
100629253	2X11/4	50/50
100629254	2X11/2	50/50
100629289	21/2X1	30/30
100629290	21/2X11/4	30/30
100629291	21/2X11/2	30/30
100629292	21/2X2	30/30
100629335	3X1	5/15
100629336	3X11/4	1/35
100629337	3X11/2	20/20
100629338	3X2	20/20
100629339	3X21/2	15/15
100628341	31/2X3	1/25
100629420	4X2	18/18
100629421	4X21/2	18/18
100629422	4X3	18/18
100629423	4X31/2	1/12
100629622	6X3	1/6
100629623	6X4	1/4

Coupling with LESS STOP C x C



Part No	Size	Ctn Qty
100628000	1/8	100/5000
100628002	1/4	100/2500
100628004	3/8	50/1200
100628005	1/2	25/800
100628006	5/8	25/500
100628007	3/4	25/300
100628010	1	10/150
100628012	11/4	10/100
100628015	11/2	10/60
100628020	2	40/40
100628025	21/2	50/50
100628030	3	30/30
100628040	4	12/12
100628060	6	1/4

Cap C x C



Part No	Size	Ctn Qty
100647000	1/8	100/5000
100647002	1/4	50/3000
100647004	3/8	50/1500
100647005	1/2	25/1400
100647006	5/8	50/700
100647007	3/4	50/500
100647010	1	10/300
100647012	1 1/4	10/200
100647015	1 1/2	10/140
100647020	2	10/60
100647025	2 1/2	30/30
100647030	3	20/20
100647040	4	25/25
100647060	6	1/5

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45° Elbow
C x C



Part No	Size	Ctn Qty
100617000	1/8	100/3500
100617002	1/4	100/2500
100617004	3/8	100/1200
100617005	1/2	25/500
100617006	5/8	25/300
100617007	3/4	25/200
100617010	1	100/100
100617012	1 1/4	60/60
100617015	1 1/2	40/40
100617020	2	18/18
100617025	2 1/2	20/20
100617030	3	15/15
100617035	3 1/2	1/8
100617040	4	6/6
100618050	5	1/1
100617060	6	1/2

45° Street Elbow
FTG x C



Part No	Size	Ctn Qty
100618000	1/8	100/3500
100618002	1/4	25/2000
100618004	3/8	25/1000
100618005	1/2	25/500
100618006	5/8	25/300
100618007	3/4	25/200
100618010	1	10/100
100618012	1 1/4	5/60
100618015	1 1/2	5/40
100618020	2	18/18
100618025	2 1/2	20/20
100618030	3	15/15
100618035	3 1/2	1/8
100618040	4	6/6

90° Elbow
90° Reducing Elbow
C x C



Part No	Size	Ctn Qty
100606000	1/8	50/3000
100606002	1/4	50/300
100606004	3/8	25/1000
100606005	1/2	100/800
100606006	5/8	25/300
100606007	3/4	25/25
100606010	1	10/100
100606012	1 1/4	10/50
100606015	1 1/2	35/35
100606020	2	17/17
100606025	2 1/2	20/20
100606030	3	13/13
100606040	4	6/6
100606060	6	2/2
100606072	1/2X1/4	50/500
100606074	1/2X3/8	50/500
100606101	3/4X1/2	25/200
100606130	1X1/2	10/80
100606131	1X3/4	80/80
100606167	11/4X3/4	10/50
100606168	11/4X1	50/50
100606215	11/2X11/4	3/35
100606254	2X11/2	17/17

90° Street Elbow
FTG x C



Part No	Size	Ctn Qty
100609002	1/4	25/2000
100609004	3/8	50/1000
100609005	1/2	100/800
100609006	5/8	25/300
100609007	3/4	25/250
100609008	7/8	25/120
100609010	1	10/100
100609012	1 1/4	10/50
100609015	1 1/2	5/35
100609020	2	17/17
100609025	2 1/2	20/20
100609030	3	13/13
100609035	3 1/2	1/8
100609040	4	6/6

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Tee
C x C x C



Part No	Size	Ctn Qty
100601000	1/8	50/300
100601002	1/4	50/400
100601004	3/8	25/600
100601005	1/2	25/500
100601006	5/8	20/200
100601007	3/4	20/160
100601010	1	10/60
100601012	1 1/4	5/35
100601015	1 1/2	5/20
100601020	2	5/25
100601025	2 1/2	5/15
100601030	3	10/10
100601035	3 1/2	1/8
100601040	4	5/5
100601050	5	1/1
100601060	6	1/1

Reducing Tee
C x C x C



Part No	Size	Ctn Qty
100601065	1/4X1/8	100/1000
100601055	1/4X3/8	100/700
100601057	3/8X3/8X1/4	100/600
100601067	3/8X1/2	100/600
100601069	1/2X3/8X1/2	25/300
100601068	1/2X3/8X3/8	25/350
100601070	1/2X1/2X1/8	25/350
100601072	1/2X1/2X1/4	10/400
100601074	1/2X1/2X3/8	50/400
100601076	1/2X3/4	30/180
100601078	1/2X1/2X1	10/70
100601079	5/8X3/8	25/250
100601080	5/8X5/8X1/4	25/250
100601081	5/8X1/2X1/2	25/250
100601083	3/4X5/8	10/150
100601090	3/4X1/2X1/2	10/170
100601092	3/4X1/2X3/4	10/170
100601098	3/4X3/4X1/4	25/200
100601099	3/4X3/8	25/200
100601101	3/4X1/2	10/170
100601104	3/4X1	10/80
100601119	1X1/2X1/2	10/60
100601121	1X1/2X3/4	10/60
100601122	1X1/2X1	10/60

Reducing Tee
C x C x C



Part No	Size	Ctn Qty
100601124	1X3/4X1/2	10/60
100601125	1X3/4X3/4	10/60
100601126	1X3/4X1	10/60
100601129	1X3/8	10/70
100601130	1X1/2	10/100
100601123	1X5/8	10/70
100601131	1X3/4	10/60
100601132	1X1X11/4	25/25
100601133	1X1X11/2	35/35
100601146	11/4X3/8	5/50
100601148	11/4X1/2X1/2	5/50
100601150	11/4X5/8	5/50
100601152	11/4X1/2X11/4	35/35
100601154	11/4X3/4X1/2	10/50
100601155	11/4X3/4X3/4	50/50
100601156	11/4X3/4X1	45/45
100601157	11/4X3/4X11/4	35/35
100601159	11/4X1X1/2	60/60
100601160	11/4X1X3/4	50/50
100601161	11/4X1X1	50/50
100601162	11/4X1X11/4	30/30
100601166	11/4X1/2	50/50
100601167	11/4X3/4	50/50
100601168	11/4X1	40/40
100601169	11/4X11/2	20/20
100601170	11/4X11/4X2	10/10
100601190	11/2X3/8	5/30
100601193	11/2X1/2X11/2	20/20
100601194	11/2X3/4X1/2	5/40
100601195	11/2X3/4X3/4	30/30
100601196	11/2X3/4X1	40/40
100601197	11/2X3/4X11/4	30/30
100601198	11/2X3/4X11/2	20/20
100601199	11/2X1X1/2	20/20
100601200	11/2X1X3/4	35/35
100601201	11/2X1X1	30/30
100601202	11/2X1X11/4	30/30
100601203	11/2X1X11/2	20/20
100601204	11/2X11/4X1/2	40/40
100601205	11/2X11/4X3/4	40/40
100601206	11/2X11/4X1	30/30
100601207	11/2X11/4X11/4	30/30
100601208	11/2X11/4X11/2	20/20

WROT Copper Fittings

Reducing Tee
C x C x C



Part No	Size	Ctn Qty
100601212	11/2X1/2	40/40
100601213	11/2X3/4	35/35
100601214	11/2X1	35/35
100601215	11/2X11/4	25/25
100601216	11/2X11/2X2	10/10
100601221	2X1/2X2	15/15
100601222	2X3/4X11/2	2/10
100601227	2X3/4X2	15/15
100601230	2X1X1	20/20
100601232	2X1X11/2	1/20
100601233	2X1X2	15/15
100601235	2X11/4X2/4	20/20
100601236	2X11/4X1	20/20
100601238	2X114X11/4	15/15
100601239	2X11/4X11/2	15/15
100601240	2X11/4X2	10/10
100601241	2X11/2X1/2	10/10
100601242	2X11/2X3/4	20/20
100601243	2X11/2X1	10/10
100601244	2X11/2X11/4	20/20
100601245	2X11/2X11/2	10/10
100601246	2X11/2X2	10/10
100601250	2X1/2	15/15
100601251	2X3/4	20/20
100601252	2X2X1	18/18
100601253	2X11/4	18/18
100601254	2X11/2	10/10
100601255	2X2X21/2	15/15
100601267	21/2X3/4X21/2	15/15
100601272	21/2X1X21/2	15/15
100601276	21/2X11/4	15/15
100601279	21/2X11/2X21/2	15/15
100601280	21/2X2X1/2	1/15
100601282	21/2X2X1	1/20
100601283	21/2X2X11/4	1/20
100601284	21/2X2X11/2	1/20
100601285	21/2X2X2	15/15
100601286	2/1/2X2X21/2	10/10
100601287	21/2X1/2	25/25
100601288	21/2X3/4	25/25
100601289	21/2X1	25/25
100601290	21/2X11/4	20/20
100601291	21/2X11/2	20/20
100601292	21/2X2	15/15
100601324	3X2X2	15/15
100601325	3X2X21/2	1/15
100601326	3X2X3	10/10
100601329	3X21/2X11/2	15/15

NEW

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

Reducing Tee
C x C x C



Part No	Size	Ctn Qty
100601330	3X21/2X2	15/15
100601331	3X21/2X21/2	12/12
100601332	3X21/2X3	1/10
100601333	3X3X1/2	10/10
100601334	3X3/4	20/20
100601335	3X1	20/20
100601336	3X11/4	15/15
100601337	3X11/2	15/15
100601338	3X2	13/13
100601339	3X21/2	10/10
100601400	4X2X4	4/4
100601413	4X3X3	5/5
100601414	4X3X4	5/5
100601416	4X4X3/4	8/8
100601417	4X4X1	8/8
100601418	4X4X11/4	8/8
100601419	4X11/2	8/8
100601420	4X2	6/6
100601421	4X4X21/2	5/5
100601422	4X3	5/5
100601640	6X6X4	2/2

Flush Bushing
FTG x C



Part No	Size	Ctn Qty
100640072	1/2X1/4	50/200
100640074	1/2X3/8	25/1000
100640095	3/4X1/4	20/500
100640100	3/4X3/8	20/500
100640101	3/4X1/2	20/400
100740130	1X1/2	10/300
100640130	1X5/8	10/300
100640131	1X3/4	10/300
100741168	11/4X1	10/120
100640254	2X11/2	5/60

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WROT Copper Fittings

Fitting Reducer
FTG x C



NEW

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Third Party Certified to NSF/ANSI 61 & 372

Part No	Size	Ctn Qty
100637031	1/4X1/8	25/2500
100637055	3/8X1/8	25/1500
100637057	3/8X1/4	25/1200
100637072	1/2X1/4	25/1000
100637074	1/2X3/8	25/1000
100637075	5/8X1/4	25/600
100637076	5/8X3/8	25/600
100637081	5/8X1/2	25/600
100637098	3/4X1/4	50/400
100637099	3/4X3/8	25/400
100637101	3/4X1/2	25/400
100637102	3/4X5/8	50/400
100637129	1X3/8	10/200
100637130	1X1/2	10/200
100637132	1X5/8	10/150
100637131	1X3/4	10/160
100637164	11/4X5/8	10/100
100637167	11/4X3/4	10/100
100637166	11/4X1/2	10/100
100637168	11/4X1	10/100
100637212	11/2X1/2	10/100
100637213	11/2X3/4	10/100
100637214	11/2X1	10/100
100637215	11/2X11/4	10/100
100637250	2X1/2	50/50
100637251	2X3/4	50/50
100637252	2X1	50/50
100637253	2X11/4	50/50
100637254	2X11/2	50/50
100637289	21/2X1	30/30
100637290	21/2X11/4	30/30
100637291	21/2X11/2	30/30
100637292	21/2X2	30/30
100637336	3X11/4	20/20
100637337	3X11/2	20/20
100637338	3X2	20/20
100637339	3X21/2	15/15
100637361	31/2X3	1/25
100637420	4X2	18/18
100637421	4X21/2	1/12
100637422	4X3	18/18
100637423	4X31/2	1/12
100637530	6X3	1/5
100637532	6X4	1/5

Tube Strap



Part No	Size	Ctn Qty
100693000	1/8	100/2500
100693002	1/4	100/1500
100693004	3/8	100/1000
100693005	1/2	100/1000
100693006	5/8	50/700
100693007	3/4	100/600
100693010	1	25/350
100693012	1 1/4	50/350
100693015	1 1/2	50/300
100693020	2	50/100

U-Bend
C x C



Part No	Size	Ctn Qty
100622002	1/4	10/300
100622005	1/2	25/250
100622006	5/8	10/100
100622007	3/4	10/80
100622010	1	100/3500
100622012	1 1/4	5/20
100622015	1 1/2	2/12
100622020	2	1/6

P-Trap
C x C



Part No	Size	Ctn Qty
100984012	1 1/4	1/12
100984015	1 1/2	1/6
100984020	2	1/3

NEW

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

Union Brass
C x C



Part No	Size	Ctn Qty
100797004	3/8	25/100
100797005	1/2	25/200
100797007	3/4	25/100
100797010	1	10/60
100797012	1 1/4	10/50
100797015	1 1/2	30/30
100797020	2	18/18

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NO LEAD Brass Push Fittings

HARVARD NO LEAD Brass Push Fitting Features:

- Use for above ground potable water, hydronic heating and other plumbing systems.
- No soldering, clamps, unions or glue needed.
- For use with copper, CPVC, PEX and PERT tubing in any combination.
- Integral tube liner (stiffener) for PEX/PERT installation.
- Easy disconnect with special removal tool.
- Lead free, forged brass body construction.
- Full fluid flow without PEX/PERT stiffeners.
- Fittings can be rotated 360° after assembly for easier installation.
- Max working pressure at max working temperature: 200 psi at 200°F water. (Caution: may exceed the max service pressure/temperature of PEX/PERT or CPVC.)
- Not suitable for steam service.
- Tested, certified and listed in accordance with ASSE1061-2006.
- cUPC listed.
- Certified lead free to NSF/ANSI 61 & 372.

LOW LEAD

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

MATERIAL SPECIFICATIONS	
Body	Forged NL Brass
Oring:	EPDM
Gripper Ring	SS304
Push Ring	Acetal
Locking Ring	Acetal
Seat Ring	Acetal
Stiffener	Polysulfone

CAUTION: FAILURE TO PROPERLY CHAMFER TUBING OD WILL RESULT IN A DAMAGED O-RING AND A LEAK. FAILURE TO PROPERLY CHAMFER THE TUBE VOIDS FITTING WARRANTY.



BPCNL



BPRCNL



BPMANL



BPRMANL



BPFANL



BPRFANL

Part Number	Description & Size	Ctn Qty
Couplings		
BPC3/8NL	BRS PUSH CPL NL FITXFIT 3/8x3/8	60/240
BPC1/2NL	BRS PUSH CPL NL FITXFIT 1/2x1/2	50/200
BPC3/4NL	BRS PUSH CPL NL FITXFIT 3/4X3/4	30/120
BPC1NL	BRS PUSH CPL NL FITXFIT 1X1	15/60
Reducing Coupling		
BPRC1/2X3/8NL	BRS PUSH CPL NL FITXFIT 1/2X3/8	45/180
BPRC3/4X1/2NL	BRS PUSH CPL NL FITXFIT 3/4X1/2	35/140
BPRC1X3/4NL	BRS PUSH CPL NL FITXFIT 1X3/4	20/80
Male Adapters		
BPMA3/8NL	BRS PUSH M/A NL FITXMPT 3/8x3/8	60/240
BPMA1/2NL	BRS PUSH M/A NL FITXMPT 1/2X1/2	60/240
BPMA3/4NL	BRS PUSH M/A NL FITXMPT 3/4X3/4	40/160
BPMA1NL	BRS PUSH M/A NL FITXMPT 1X1	20/80
Reducing Male Adapter		
BPRMA3/8x1/2NL	BRS PUSH M/A NL FITXMT 3/8x1/2	52/208
BPRMA1/2X3/8NL	BRS PUSH M/A NL FITXMT 1/2X3/8	60/240
BPRMA1/2X3/4NL	BRS PUSH M/A NL FITXMT 1/2X3/4	50/200
BPRMA3/4X1/2NL	BRS PUSH M/A NL FITXMT 3/4X1/2	40/160
BPRMA3/4X1NL	BRS PUSH M/A NL FITXMT 3/4X1	25/100
BPRMA1X3/4NL	BRS PUSH M/A NL FITXMT 1X3/4	20/80
Female Adapters		
BPFA3/8NL	BRS PUSH F/A NL FITXFPT 3/8x3/8	60/240
BPFA1/2NL	BRS PUSH F/A NL FITXFPT 1/2X1/2	60/240
BPFA3/4NL	BRS PUSH F/A NL FITXFPT 3/4X3/4	40/160
BPFA1NL	BRS PUSH F/A NL FITXFPT 1X1	20/80
Reducing Female Adapter		
BPRFA3/8X1/2NL	BRS PUSH F/A NL FITXFPT 3/8X1/2	52/208
BPRFA1/2X3/4NL	BRS PUSH F/A NL FITXFPT 1/2X3/4	40/160
BPRFA3/4X1/2NL	BRS PUSH F/A NL FITXFPT 3/4X1/2	40/160
BPRFA3/4X1NL	BRS PUSH F/A NL FITXFPT 3/4X1	25/100
BPRFA1X3/4NL	BRS PUSH F/A NL FITXFPT 1X3/4	25/100

NO LEAD Brass Push Fittings

CAUTION: FAILURE TO PROPERLY CHAMFER TUBING OD WILL RESULT IN A DAMAGED O-RING AND A LEAK. FAILURE TO PROPERLY CHAMFER THE TUBE VOIDS FITTING WARRANTY.



BPENL



BPRENL



BPFENL



BPMENL



BPTNL



BPRTNL



BPFTNL



BPMTNL



BPDENL



BPWPENL



BPECANL



BPSRCNL

Part Number	Description & Size	Ctn Qty
Elbows		
BPE3/8NL	BRS PUSH ELL NL FITXFIT 3/8x3/8	60/240
BPE1/2NL	BRS PUSH ELL NL FITXFIT 1/2X1/2	40/160
BPE3/4NL	BRS PUSH ELL NL FITXFIT 3/4X3/4	20/80
BPE1NL	BRS PUSH ELL NL FITXFIT 1X1	12/48
Reducing Elbows		
BPRE1/2X3/8NL	BRS PUSH ELL NL FITXFIT 1/2X3/8	37/148
BPRE3/4X1/2NL	BRS PUSH ELL NL FITXFIT 3/4X1/2	25/100
BPRE3/4X1NL	BRS PUSH ELL NL FITXFIT 3/4X1	15/60
BPRE1X3/4NL	BRS PUSH ELL NL FITXFIT 1X3/4	15/60
Female Elbow		
BPFE3/8NL	BRS PUSH FEM ELBOW NL FITXFPT 3/8	60/240
BPFE1/2NL	BRS PUSH FEM ELBOW NL FITXFPT 1/2	40/160
BPFE3/4NL	BRS PUSH FEM ELBOW NL FITXFPT 3/4	20/80
BPFE1NL	BRS PUSH FEM ELBOW NL FITXFPT 1	13/52
Male Elbow		
BPME3/8NL	BRS PUSH MALE ELBOW NL FITXMPT 3/8x3/8	60/240
BPME1/2NL	BRS PUSH MALE ELBOW NL FITXMPT 1/2X1/2	40/160
BPME3/4NL	BRS PUSH MALE ELBOW NL FITXMPT 3/4X3/4	20/80
BPME1NL	BRS PUSH MALE ELBOW NL FITXMPT 1X1	13/52
Tees		
BPT3/8NL	BRS PUSH TEE NL FITXFIT 3/8x3/8x3/x3/8	45/180
BPT1/2NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X1/2	30/120
BPT3/4NL	BRS PUSH TEE NL FITXFIT 3/4X3/4X3/4	15/60
BPT1NL	BRS PUSH TEE NL FITXFIT 1X1X1	7/28
Reducing Tee		
BPRT3/8x3/8x1/2NL	BRS PUSH TEE NL FITXFIT 3/8x3/8x1/2	30/120
BPRT1/2X1/2X3/8NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X3/8	30/120
BPRT1/2X1/2X3/4NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X3/4	20/80
BPRT1/2X1/2X1NL	BRS PUSH TEE NL FITXFIT 1/2X1/2X1	15/60
BPRT1/2X3/4X3/4NL	BRS PUSH TEE NL FITXFIT 1/2X3/4X3/4	15/60
BPRT3/4X1/2X1/2NL	BRS PUSH TEE NL FITXFIT 3/4X1/2X1/2	20/80
BRPT3/4x1/2x3/4NL	BRS PUSH TEE NL FITXFIT 3/4X1/2X3/4	15/60
BPRT3/4X3/4X1/2NL	BRS PUSH TEE NL FITXFIT 3/4X3/4X1/2	15/60
BPRT1X1X3/4NL	BRS PUSH TEE NL FITXFIT 1X1X3/4	8/32
Female Tee		
BPFT1/2NL	BRS PUSH FEM TEE NL FITXFITXFPT 1/2X1/2X1/2	30/120
BPFT3/4NL	BRS PUSH FEM TEE NL FITXFITXFPT 3/4X3/4X3/4	15/60
Male Tee		
BPMT1/2NL	BRS PUSH MALE TEE NL FITXFIT 1/2X1/2X1/2	30/120
BPMT3/4NL	BRS PUSH MALE TEE NL FITXFIT 3/4X3/4X3/4	15/60
Drop Elbow		
BPDE1/2NL	BRS PUSH DROP ELBOW NL FITXFPT 1/2X1/2	30/120
Wall Plate Elbow		
BPWPE1/2NL	BRS PUSH WALL PLATE EL NL FITXFPT 1/2X1/2	30/120
End Cap		
BPECA3/8NL	BRS PUSH END CAP NL FIT 3/8	82/328
BPECA1/2NL	BRS PUSH END CAP NL FIT 1/2	100/400
BPECA3/4NL	BRS PUSH END CAP NL FIT 3/4	60/240
BPECA1NL	BRS PUSH END CAP NL FIT 1	30/120
Slip Repair Coupling		
BPSRC1/2NL	BRS PUSH REPAIR CPL NL FITXFIT 1/2X1/2	20/80
BPSRC3/4NL	BRS PUSH REPAIR CPL NL FITXFIT 3/4X3/4	15/60
BPRSC1NL	BRS PUSH REPAIR CPL NL FITXFIT 1X1	10/40

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NO LEAD Brass Push Fittings & Valves

CAUTION: FAILURE TO PROPERLY CHAMFER TUBING OD WILL RESULT IN A DAMAGED O-RING AND A LEAK. FAILURE TO PROPERLY CHAMFER THE TUBE VOIDS FITTING WARRANTY.



BPTOOLNL



BPSTIFFNL

Part Number	Description & Size	Ctn Qty
Removal Tool		
BPTOOL3/8NL	BRS PUSH REMOVAL TOOL NL 3/8	150/600
BPTOOL1/2NL	BRS PUSH REMOVAL TOOL NL 1/2	150/600
BPTOOL3/4NL	BRS PUSH REMOVAL TOOL NL 3/4	100/400
BPTOOL1NL	BRS PUSH REMOVAL TOOL NL 1	50/200
Stiffener for PEX		
BPSTIFF3/8NL	BRS PUSH PEX STIFFENER NL 3/8	400/1600
BPSTIFF1/2NL	BRS PUSH PEX STIFFENER NL 1/2	400/1600
BPSTIFF3/4NL	BRS PUSH PEX STIFFENER NL 3/4	200/800
BPSTIFF1NL	BRS PUSH PEX STIFFENER NL 1	150/600



BPBVNL

MATERIAL SPECIFICATIONS	
Handle	Zinc Coated Steel
Handle Nut	Stainless Steel
Packing	PTFE
Packing Nut	Brass
Ball	Chrome Plated Brass
Seats	PTFE
Body	NL Forged Brass
End Adapter	NL Forged Brass

NO LEAD Forged Brass Full Port Ball Valve with PUSH FIT Connection Features:

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

- Heavy pattern, full port, forges NO LEAD Brass construction.
- PTFE seat, shrome plated NO LEAD brass ball.
- PTFE packing.
- **200 psi, 125 psi S.W.P.**
- Push connect ends for use with copper tubing or PEX/PERT tubing connections.
- **Third party Certified lead free to NSF/ANSI 61&372.**

Part Number	Size	Ctn Qty
Brass Push Ball Valve	**FIT x FIT**	
BPBV1/2NL	1/2X1/2	10/40
BPBV3/4NL	3/4X3/4	7/28
BPBV1NL	1X1	5/20

NO LEAD Brass Water Heater Connectors

NEW

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

LOW LEAD

Push Fit Water Heater Connector Features:

- Stainless Steel braided water heater connectors..
- With and without NL brass, full flow ball valves.
- Push Fit x FPT connections.
- Working Temp: 68-158º F, max 180º F
- Working Pressure: 125 psi, max 200 psi
- **Third party Certified lead free to NSF/ANSI 61&372, cUPC.**



BPWHC Series



BPWHCBV Series

Part Number	Size x length	Ctn Qty
Push Fit Water Heater Connectors PF x FPT		
BPWHC1/2X3/4X12NL	WH CONN 1/2FITX3/4FIPX12	25
BPWHC1/2X3/4X15NL	WH CONN 1/2FITX3/4FIPX15	25
BPWHC1/2X3/4X18NL	WH CONN 1/2FITX3/4FIPX18	25
BPWHC1/2X3/4X24NL	WH CONN 1/2FITX3/4FIPX24	25
BPWHC3/4X3/4X12NL	WH CONN 3/4FITX3/4FIPX12	25
BPWHC3/4X3/4X15NL	WH CONN 3/4FITX3/4FIPX15	25
BPWHC3/4X3/4X18NL	WH CONN 3/4FITX3/4FIPX18	25
BPWHC3/4X3/4X24NL	WH CONN 3/4FITX3/4FIPX24	25
Push Fit Water Heater Connectors with Ball Valves PF x FPT		
BPWHCBV1/2X3/4X12NL	WH CONN w/ BV 1/2X3/4X12	25
BPWHCBV1/2X3/4X15NL	WH CONN w/ BV 1/2X3/4X15	25
BPWHCBV1/2X3/4X18NL	WH CON w/ BV 1/2X3/4X18	25
BPWHCBV1/2X3/4X24NL	WH CON w/ BV 1/2X3/4X24	25
BPWHCBV3/4X3/4X12NL	WH CONN w/ BV 3/4X3/4X12	25
BPWHCBV3/4X3/4X15NL	WH CONN w/ BV 3/4X3/4X15	25
BPWHCBV3/4X3/4X18NL	WH CONN w/ BV 3/4X3/4X18	25
BPWHCBV3/4X3/4X24NL	WH CONN w/ BV 3/4X3/4X24	25



BPWHK

Part Number	Description & Size	Ctn Qty
Water Heater Kit (includes 2 female adapters and 1 removal tool)		
BPWHK1/2X3/4NL	BRS PUSH WTHRT FITXFPT 1/2x3/4	20/160
BPWHK3/4NL	BRS PUSH WTHRT FITXFPT 3/4x3/4	15/120
BPWHK3/4X1/2NL	BRS PUSH WTHRT FITXFPT 3/4x1/2	15/120

americangranby.com
Ph: 800-776-2266 Fax: 800-729-3299

WHOLESALER PRICE LIST

STAINLESS STEEL CLAMPS

#99999-7076-099 - EFFECTIVE JANUARY 5, 2026

SUPERCEDES PRICE LIST EFFECTIVE JULY 2025

PRICES ARE DETERMINED BY THE TOTAL QUANTITY OF ASSORTED CLAMPS RELEASED FOR SHIPMENT AT ONE TIME TO ONE DESTINATION. PLEASE ORDER IN STANDARD CARTON QTY.

IMPORTANT NOTE: Orders of less than 5,000 pieces may be combined with all American Granby products for quick delivery and full freight allowance ($1800 net within continental US.)
Orders of 5,000 or more assorted clamps or $1750 of clamps only (whichever is greater value) are shipped freight prepaid direct from factory.

ALL STAINLESS BAND, HOUSING & SCREW

68 Series*
HY-GEAR®
Band & Housing: 9/16", 200 SS
Screw: 5/16" hex-head 410 SS

LOW-LEAD IAPMO R&T ®

Third-Party Certified to NSF/ANSI 372

*AVAILABLE IN BULK ONLY

PART NO	DIST PRICE PER 100				LBS PER 100	STD Carton QTY	DIAMETER	
	LOTS 500	LOTS 2000	LOTS 5000	LOTS 10,000			MIN (in)	MAX (in)
6806	$346.60	$277.28	$249.55	$235.69	5.0	200	3/8"	7/8"
6808	$346.60	$277.28	$249.55	$235.69	5.0	200	7/16"	1"
6810	$346.60	$277.28	$249.55	$235.69	5.0	500	1/2"	1 1/16"
6812	$352.10	$281.68	$253.51	$239.43	5.0	500	1/2"	1 1/4"
6816	$352.10	$281.68	$253.51	$239.43	5.0	500	11/16"	1 1/2"
6820	$359.30	$287.44	$258.70	$244.32	6.0	500	3/4"	1 3/4"
6824	$359.30	$287.44	$258.70	$244.32	6.0	500	1"	2"
6828	$362.00	$289.60	$260.64	$246.16	7.0	500	1 1/4"	2 1/4"
6832	$362.00	$289.60	$260.64	$246.16	7.0	500	1 1/2"	2 1/2"
6836	$379.50	$303.60	$273.24	$258.06	7.0	200	1 3/4"	2 3/4"
6840	$416.60	$333.28	$299.95	$283.29	8.0	200	2"	3"
6844	$484.90	$387.92	$349.13	$329.73	8.0	200	2 1/4"	3 1/4"
6848	$484.90	$387.92	$349.13	$329.73	9.0	200	2 1/2"	3 1/2"
6852	$506.50	$405.20	$364.68	$344.42	10.0	100	2 3/4"	3 3/4"
6856	$506.50	$405.20	$364.68	$344.42	10.0	100	3"	4"
6860	$557.60	$446.08	$401.47	$379.17	11.0	100	3 1/4"	4 1/4"
6864	$557.60	$446.08	$401.47	$379.17	11.0	100	2 1/2"	4 1/2"
6872	$583.20	$466.56	$419.90	$396.58	11.0	100	3"	5"
6880	$602.60	$482.08	$433.87	$409.77	14.0	100	3 1/2"	5 1/2"
6888	$647.70	$518.16	$466.34	$440.44	15.0	100	4"	6"
6896	$693.80	$555.04	$499.54	$471.78	15.0	100	4 1/2"	6 1/2"
68104	$700.70	$560.56	$504.50	$476.48	16.0	100	5"	7"
68116*	$725.70	$580.56	$522.50	$493.48	16.0	50*	5 3/4"	7 3/4"

64 Series*
HY-GEAR®
Band & Housing: 9/16", 200 SS
Screw: 3/8" hex-head, 410 SS

LOW-LEAD IAPMO R&T ®

Third-Party Certified to NSF/ANSI 372

PART NO	DIST PRICE PER 100				LBS PER 100	STD Carton QTY	DIAMETER	
	LOTS 500	LOTS 2000	LOTS 5000	LOTS 10,000			MIN (in)	MAX (in)
6406	$346.60	$277.28	$249.55	$235.69	5.0	200	3/8"	7/8"
6408	$346.60	$277.28	$249.55	$235.69	5.0	200	7/16"	1"
6410	$346.60	$277.28	$249.55	$235.69	5.0	500	1/2"	1 1/16"
6412	$352.10	$281.68	$253.51	$239.43	5.0	500	1/2"	1 1/4"
6416	$352.10	$281.68	$253.51	$239.43	6.0	500	11/16"	1 1/2"
6420	$359.30	$287.44	$258.70	$244.32	6.0	500	3/4"	1 3/4"
6424	$359.30	$287.44	$258.70	$244.32	7.0	500	1"	2"
6428	$362.00	$289.60	$260.64	$246.16	7.0	500	1 1/4"	2 1/4"
6432	$362.00	$289.60	$260.64	$246.16	8.0	500	1 1/2"	2 1/2"
6436	$379.50	$303.60	$273.24	$258.06	8.0	200	1 3/4"	2 3/4"
6440	$416.60	$333.28	$299.95	$283.29	9.0	200	2"	3"
6444	$484.90	$387.92	$349.13	$329.73	9.0	200	2 1/4"	3 1/4"
6448	$484.90	$387.92	$349.13	$329.73	9.0	200	2 1/2"	3 1/2"
6452	$506.50	$405.20	$364.68	$344.42	10.0	100	2 3/4"	3 3/4"
6456	$506.50	$405.20	$364.68	$344.42	10.0	100	3"	4"
6460	$557.60	$446.08	$401.47	$379.17	10.0	100	3 1/4"	4 1/4"
6464	$557.60	$446.08	$401.47	$379.17	11.0	100	2 1/2"	4 1/2"
6472	$583.20	$466.56	$419.90	$396.58	13.0	100	3"	5"
6480	$602.60	$482.08	$433.87	$409.77	14.0	100	3 1/2"	5 1/2"
6488	$647.70	$518.16	$466.34	$440.44	15.0	100	4"	6"
6496	$693.80	$555.04	$499.54	$471.78	16.0	100	4 1/2"	6 1/2"
64104	$700.70	$560.56	$504.50	$476.48	17.0	100	5"	7"

7652 Morgan Road Liverpool, NY 13090 | Ph: 800-776-2266 | Fax: 800-729-3299 | www.americangranby.com

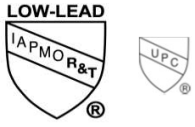
ALL STAINLESS BAND, HOUSING & SCREW

63004 Series
(Replaces 63 Series)
HY-GEAR®
Band & Housing: 9/16", 300 SS
Screw: 5/16" hex-head, 300 SS



PART NO	DIST PRICE PER 100				LBS PER 100	STD Carton QTY	DIAMETER	
	LOTS 500	LOTS 2000	LOTS 5000	LOTS 10,000			MIN (in)	MAX (in)
630040006	$409.60	$327.68	$294.91	$278.53	5.0	200	3/8"	7/8"
630040008	$409.60	$327.68	$294.91	$278.53	5.0	200	7/16"	1"
630040010	$409.60	$327.68	$294.91	$278.53	5.0	500	1/2"	1 1/16"
630040012	$418.90	$335.12	$301.61	$284.85	5.0	500	1/2"	1 1/4"
630040016	$418.90	$335.12	$301.61	$284.85	5.0	500	11/16"	1 1/2"
630040020	$425.70	$340.56	$306.50	$289.48	6.0	500	3/4"	1 3/4"
630040024	$425.70	$340.56	$306.50	$289.48	8.0	200	1"	2"
630040028	$429.40	$343.52	$309.17	$291.99	8.0	200	1 1/4"	2 1/4"
630040032	$429.40	$343.52	$309.17	$291.99	8.0	500	1 1/2"	2 1/2"
630040036	$441.10	$352.88	$317.59	$299.95	8.0	200	1 3/4"	2 3/4"
630040040	$485.10	$388.08	$349.27	$329.87	9.0	200	2"	3"
630040044	$549.10	$439.28	$395.35	$373.39	9.0	200	2 1/4"	3 1/4"
630040048	$549.10	$439.28	$395.35	$373.39	9.0	200	2 1/2"	3 1/2"
630040052	$580.20	$464.16	$417.74	$394.54	10.0	100	2 3/4"	3 3/4"
630040056	$580.20	$464.16	$417.74	$394.54	10.0	100	3"	4"
630040060	$643.40	$514.72	$463.25	$437.51	10.0	100	3 1/4"	4 1/4"
630040064	$643.40	$514.72	$463.25	$437.51	13.0	100	3"	5"
630040072	$664.50	$531.60	$478.44	$451.86	14.0	100	3 1/2"	5 1/2"
630040080	$739.20	$591.36	$532.22	$502.66	14.0	100	4"	6"
630040088	$759.60	$607.68	$546.91	$516.53	14.0	100	4 1/2"	6 1/2"
630040096	$783.40	$626.72	$564.05	$532.71	17.0	100	5"	7"
630040104	$791.50	$633.20	$569.88	$538.22	17.0	50*	5 3/4"	7 3/4"
630040116*	$792.80	$634.24	$570.82	$539.10	18.0	50*	5 1/2"	8 1/2"
630040128*	$831.90	$665.52	$598.97	$565.69	18.0	50*	2 1/2"	8 1/2"
630040140*	$879.60	$703.68	$633.31	$598.13	18.0	50*	2 1/2"	9 1/4"
630040152*	$901.70	$721.36	$649.22	$613.16	19.0	50*	2"	10"
630040164*	$940.70	$752.56	$677.30	$639.68	20.0	50*	2"	10 3/4"
630040176*	$956.90	$765.52	$688.97	$650.69	21.0	50*	9 1/2"	11 1/2"
630040188*	$980.30	$784.24	$705.82	$666.60	22.0	50*	2"	12 1/2"
630040208*	$1,050.30	$840.24	$756.22	$714.20	23.0	50*	11 1/2"	13 1/2"
630040224*	$1,105.20	$884.16	$795.74	$751.54	24.0	50*	12 1/2"	14 1/2"
630040236*	$1,129.70	$903.76	$813.38	$768.20	24.0	50*	13 1/4"	15 1/4"
630040248*	$1,187.20	$949.76	$854.78	$807.30	25.0	50*	2"	16"
630040260*	$1,481.80	$1,185.44	$1,066.90	$1,007.62	25.0	50*	2"	16 3/4"
630040272*	$1,602.20	$1,281.76	$1,153.58	$1,089.50	25.0	50*	3 1/4"	17 1/2"
630040312*	$1,750.70	$1,400.56	$1,260.50	$1,190.48	26.0	50*	2 1/2"	20"
630040380*	$2,002.00	$1,601.60	$1,441.44	$1,361.36	31.0	50*	2 1/2"	24 1/4"
630040760*	$2,501.00	$2,000.80	$1,800.72	$1,700.68	52.0	50*	2 1/2"	48"

69 Series*
LOX-ON®
Band: 1/2", 301 SS
Housing: 305 SS
Screw: 5/16" hex-head, 305 SS



Third-Party Certified to NSF/ANSI 372

PART NO	DIST PRICE PER 100				LBS PER 100	STD Carton QTY	DIAMETER	
	LOTS 500	LOTS 2000	LOTS 5000	LOTS 10,000			MIN (in)	MAX (in)
6912	$598.60	$478.88	$430.99	$407.05	4.0	500	11/16"	1 1/4"
6920	$608.30	$486.64	$437.98	$413.64	5.0	500	11/16"	1 3/4"
6932	$618.90	$495.12	$445.61	$420.85	5.0	500	11/16"	2 5/8"
6972	$937.20	$749.76	$674.78	$637.30	8.0	50	1 3/4"	5"
69104	$1,047.70	$838.16	$754.34	$712.44	9.0	50	4"	7 1/4"

62M Series
MICRO-GEAR®
Band & Housing: 5/16" 300 SS
Screw: 1/4" hex-head, 300 SS

PART NO	DIST PRICE PER 100				LBS PER 100	STD CARTON QTY	DIAMETER	
	LOTS 500	LOTS 2000	LOTS 5000	LOTS 10,000			MIN (in)	MAX (in)
62604	$287.10	$229.68	$206.71	$195.23	2.0	1000	5/16"	5/8"
62M05	$287.10	$229.68	$206.71	$195.23	2.0	1000	5/16"	3/4"
62606	$287.10	$229.68	$206.71	$195.23	2.0	1000	5/16"	7/8"
62M08	$332.80	$266.24	$239.62	$226.30	2.0	500	7/16"	1"
62M10	$332.80	$266.24	$239.62	$226.30	2.0	500	1/2"	1 1/16"
62M12	$341.30	$273.04	$245.74	$232.08	2.0	500	9/16"	1 1/4"
62M16	$341.30	$273.04	$245.74	$232.08	2.0	500	11/16"	1 1/2"
62M20	$346.20	$276.96	$249.26	$235.42	2.0	500	3/4"	1 3/4"
62M24	$346.20	$276.96	$249.26	$235.42	2.0	500	1"	2"
62M28	$350.00	$280.00	$252.00	$238.00	2.0	500	1 1/4"	2 1/4"
62M30	$350.00	$280.00	$252.00	$238.00	3.0	500	1 3/8"	2 3/8"
62M32	$356.60	$285.28	$256.75	$242.49	3.0	500	1 1/2"	2 1/2"
62M36	$356.90	$285.52	$256.97	$242.69	3.0	500	1 3/4"	2 3/4"
62M44	$445.50	$356.40	$320.76	$302.94	3.0	200	2 1/4"	3 1/4"
62M48	$445.50	$356.40	$320.76	$302.94	3.0	200	2 1/2"	3 1/2"

ALL STAINLESS BAND, HOUSING & SCREW

58 Series SNAPLOCK®
Band: 9/16" 200 SS
Bridge: 410 SS
Screw: 3/8" hex-head, 410 SS

PART NO	DIST PRICE PER 100				LBS PER 100	STD Carton QTY	DIAMETER	
	LOTS 500	LOTS 2000	LOTS 5000	LOTS 10,000			MIN (in)	MAX (in)
5812	$430.00	$344.00	$326.80	$309.60	6.0	500	1/2"	1 1/4"
5820	$446.90	$357.52	$339.64	$321.77	7.0	500	3/4"	1 3/4"
5824	$462.90	$370.32	$351.80	$333.29	7.0	500	1"	2"
5828	$484.00	$387.20	$367.84	$348.48	7.0	500	1"	2 1/4"
5836	$505.00	$404.00	$383.80	$363.60	8.0	200	1"	2 3/4"
5848	$598.90	$479.12	$455.16	$431.21	9.0	200	1 1/2"	3 1/2"
5856	$627.20	$501.76	$476.67	$451.58	9.0	100	1"	4"
5872	$759.10	$607.28	$576.92	$546.55	11.0	100	2"	5"
5888	$839.10	$671.28	$637.72	$604.15	13.0	100	2"	6"
58104	$924.10	$739.28	$702.32	$665.35	15.0	100	1 3/4"	7"
58116*	$1,005.60	$804.48	$764.26	$724.03	12.0	50*	1 3/4"	7 3/4"
58128*	$1,038.10	$830.48	$788.96	$747.43	16.0	250*	2 1/4"	8 1/2"
58152*	$1,122.30	$897.84	$852.95	$808.06	17.0	250*	2"	10"
58188*	$1,238.00	$990.40	$940.88	$891.36	18.0	250*	2"	12 1/4"
58224*	$1,385.90	$1,108.72	$1,053.28	$997.85	20.0	50*	2"	14 1/2"
58332*	$2,107.20	$1,685.76	$1,601.47	$1,517.18	26.0	75*	2"	21 1/4"

*AVAILABLE IN BULK ONLY

68 Series Clamp Assortment with FREE Display Rack

	PART NO	DIST PRICE PER 100				LBS EACH	STD Carton QTY	CLAMP QUANTITY
		LOTS 500	LOTS 2000	LOTS 5000	LOTS 10,000			
Small Rack + 250 Clamps	99903-1680-051	$56,610.60	$45,288.48	$40,759.63	$38,495.21	9.00	1	250
Large Rack + 450 Clamps	99903-2680-051	$94,955.20	$75,964.16	$68,367.74	$64,569.54	19.58	1	450
Large Rack + 600 Clamps	99903-3680-051	$116,085.10	$92,868.08	$83,581.27	$78,937.87	36.78	1	600

STAINLESS BAND & HOUSING, PLATED SCREW

50 Series HY-GEAR®
Band & Housing: 9/16" 200 SS
Screw: 5/16" hex-head, plated carbon steel

PART NO	DIST PRICE PER 100				LBS PER 100	STD Carton QTY	DIAMETER	
	LOTS 500	LOTS 2000	LOTS 5000	LOTS 10,000			MIN (in)	MAX (in)
5006	$259.70	$207.76	$186.98	$176.60	4.0	200	3/8"	7/8"
5008	$259.70	$207.76	$186.98	$176.60	5.0	200	7/16"	1"
5010	$259.70	$207.76	$186.98	$176.60	5.0	500	1/2"	1 1/16"
5012	$265.50	$212.40	$191.16	$180.54	5.0	500	1/2"	1 1/4"
5016	$265.50	$212.40	$191.16	$180.54	5.0	500	11/16"	1 1/2"
5020	$269.70	$215.76	$194.18	$183.40	6.0	500	3/4"	1 3/4"
5024	$269.70	$215.76	$194.18	$183.40	6.0	500	1"	2"
5028	$273.30	$218.64	$196.78	$185.84	7.0	500	1 1/4"	2 1/4"
5032	$273.30	$218.64	$196.78	$185.84	7.0	500	1 1/2"	2 1/2"
5036	$285.50	$228.40	$205.56	$194.14	7.0	200	1 3/4"	2 3/4"
5040	$338.60	$270.88	$243.79	$230.25	8.0	200	2"	3"
5044	$371.80	$297.44	$267.70	$252.82	8.0	200	2 1/4"	3 1/4"
5048	$371.80	$297.44	$267.70	$252.82	8.0	200	2 1/2"	3 1/2"
5052	$401.50	$321.20	$289.08	$273.02	9.0	100	2 3/4"	3 3/4"
5056	$401.50	$321.20	$289.08	$273.02	9.0	100	3"	4"
5060	$443.00	$354.40	$318.96	$301.24	9.0	100	3 1/4"	4 1/4"
5064	$443.00	$354.40	$318.96	$301.24	10.0	100	2 1/2"	4 1/2"
5072	$465.00	$372.00	$334.80	$316.20	11.0	100	3"	5"
5080	$534.30	$427.44	$384.70	$363.32	14.0	100	3 1/2"	5 1/2"
5088	$546.90	$437.52	$393.77	$371.89	14.0	100	4"	6"
5096	$555.80	$444.64	$400.18	$377.94	15.0	100	4 1/2"	6 1/2"
50104	$562.80	$450.24	$405.22	$382.70	16.0	100	5"	7"

ADDITIONAL SIZES AVAILABLE. CONTACT IDEAL FOR INFORMATION.

54 Series COMBO-HEX®
Band & Housing: 9/16", 200 SS
Screw: 3/8" safety-collared hex-head,plated carbon steel

PART NO	DIST PRICE PER 100				LBS PER 100	STD Carton QTY	DIAMETER	
	LOTS 500	LOTS 2000	LOTS 5000	LOTS 10,000			MIN (in)	MAX (in)
5406	$272.00	$217.60	$195.84	$184.96	5.0	500	3/8"	7/8"
5408	$272.00	$217.60	$195.84	$184.96	5.0	500	7/16"	1"
5410	$272.00	$217.60	$195.84	$184.96	5.0	500	1/2"	1 1/16"
5412	$278.20	$222.56	$200.30	$189.18	5.0	500	1/2"	1 1/4"
5416	$278.20	$222.56	$200.30	$189.18	6.0	500	11/16"	1 1/2"
5420	$282.90	$226.32	$203.69	$192.37	6.0	500	3/4"	1 3/4"
5424	$282.90	$226.32	$203.69	$192.37	7.0	500	1"	2"
5428	$287.50	$230.00	$207.00	$195.50	7.0	500	1 1/4"	2 1/4"
5432	$287.50	$230.00	$207.00	$195.50	7.0	500	1 1/2"	2 1/2"
5436	$299.10	$239.28	$215.35	$203.39	7.0	500	1 3/4"	2 3/4"
5440	$354.10	$283.28	$254.95	$240.79	8.0	200	2"	3"
5444	$390.50	$312.40	$281.16	$265.54	8.0	200	2 1/4"	3 1/4"
5448	$390.50	$312.40	$281.16	$265.54	9.0	200	2 1/2"	3 1/2"
5452	$421.20	$336.96	$303.26	$286.42	9.0	100	2 3/4"	3 3/4"
5456	$421.20	$336.96	$303.26	$286.42	10.0	100	3"	4"

STAINLESS BAND & HOUSING, PLATED SCREW

	PART NO	DIST PRICE PER 100				LBS PER 100	STD Carton QTY	DIAMETER	
		LOTS 500	LOTS 2000	LOTS 5000	LOTS 10,000			MIN (in)	MAX (in)
62P Series MICRO-GEAR® **Band & Housing: 5/16", 300 SS Screw: 1/4" hex-head, plated carbon steel**	6204	$206.60	$165.28	$148.75	$140.49	2.0	1000	5/16"	5/8"
	62P05	$206.60	$165.28	$148.75	$140.49	2.0	1000	5/16"	3/4"
	6206	$206.60	$165.28	$148.75	$140.49	2.0	1000	5/16"	7/8"
	62P08	$217.40	$173.92	$156.53	$147.83	2.0	500	7/16"	1"
	62P10	$217.40	$173.92	$156.53	$147.83	2.0	500	1/2"	1 1/16"
	62P12	$222.50	$178.00	$160.20	$151.30	2.0	500	9/16"	1 1/4"
	62P16	$222.50	$178.00	$160.20	$151.30	2.0	500	11/16"	1 1/2"
	62P20	$225.30	$180.24	$162.22	$153.20	2.0	500	3/4"	1 3/4"
	62P24	$225.30	$180.24	$162.22	$153.20	2.0	500	1"	2"
	62P28	$226.80	$181.44	$163.30	$154.22	2.0	500	1 1/4"	2 1/4"
	62P30	$226.90	$181.52	$163.37	$154.29	3.0	500	1 3/8"	2 3/8"
	62P32	$231.60	$185.28	$166.75	$157.49	3.0	500	1 1/2"	2 1/2"
	62P36	$231.60	$185.28	$166.75	$157.49	3.0	500	1 3/4"	2 3/4"
	62P44	$263.20	$210.56	$189.50	$178.98	3.0	200	2 1/4"	3 1/4"
	62P48	$263.20	$210.56	$189.50	$178.98	3.0	200	2 1/2"	3 1/2"

	PART NO	DIST PRICE PER 100				LBS PER 100	STD Carton QTY	DIAMETER	
		LOTS 500	LOTS 2000	LOTS 5000	LOTS 10,000			MIN (in)	MAX (in)
56 Series SNAPLOCK® **Band: 9/16", 200 SS Bridge & Screw: 5/16" hex-head, plated carbon steel**	5612	$287.20	$229.76	$218.27	$206.78	6.0	500	1/2"	1 1/4"
	5620	$293.60	$234.88	$223.14	$211.39	7.0	500	3/4"	1 3/4"
	5624	$296.60	$237.28	$225.42	$213.55	7.0	500	1"	2"
	5628	$299.30	$239.44	$227.47	$215.50	7.0	500	1"	2 1/4"
	5636	$308.60	$246.88	$234.54	$222.19	8.0	200	1"	2 3/4"
	5648	$383.70	$306.96	$291.61	$276.26	9.0	200	1 1/2"	3 1/2"
	5656	$413.30	$330.64	$314.11	$297.58	9.0	100	1"	4"
	5672	$480.60	$384.48	$365.26	$346.03	13.0	100	2"	5"
	5688	$558.60	$446.88	$424.54	$402.19	14.0	100	2"	6"
	56104	$586.80	$469.44	$445.97	$422.50	16.0	100	1 3/4"	7"
	56116*	$640.70	$512.56	$486.93	$461.30	16.0	50*	1 3/4"	7 3/4"
	56128*	$655.50	$524.40	$498.18	$471.96	17.0	250*	2 1/4"	8 1/2"
	56152*	$696.40	$557.12	$529.26	$501.41	18.0	250*	2"	10"
	56188*	$755.30	$604.24	$574.03	$543.82	20.0	250*	2"	12 1/4"
	56232*	$851.30	$681.04	$646.99	$612.94	20.0	50*	1 11/16"	15"
	56258*	$972.00	$777.60	$738.72	$699.84	21.0	50*	1 13/16"	16 1/4"
	56272*	$974.10	$779.28	$740.32	$701.35	22.0	50*	1 15/16"	17"
	56288*	$1,031.10	$824.88	$783.64	$742.39	23.0	50*	1 5/8"	18 1/2"
*AVAILABLE IN BULK ONLY	56332*	$1,595.70	$1,276.56	$1,212.73	$1,148.90	25.0	75*	2"	21 1/4"

FSC
Mixed Sources
Product group from well-managed forests and other controlled sources
Cert no. SGS-COC-004022
www.fsc.org
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Printed on FSC Certified Paper

American Granby™

PRICE GROUP	DESCRIPTION	DISCOUNT MULTIPLIER
05	PVC INSERT FITTINGS	

American Granby
Phone: (315) 451-1100 or (800) 776-2266
Fax: (800) 729-3299
7652 Morgan Road • Liverpool, New York 13090

PRODUCTS | PRICE LIST

PVC INSERT
PRESSURE FITTINGS

AGINS | EFFECTIVE MAY 1, 2026

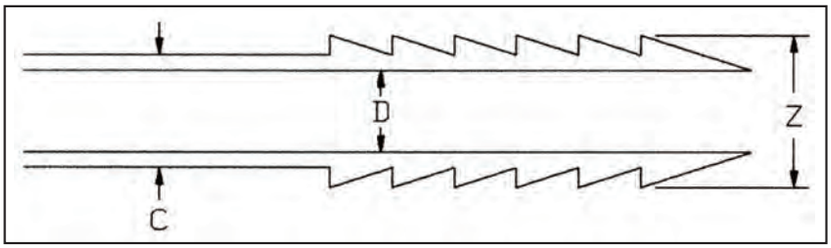
RECOMMENDED INSTALLATION PROCEDURES

INSERT (BARBED) CONNECTIONS:

Sizes **½, ¾ and 1inch** - one clamp directly over barbs.

Sizes **1¼ inch and greater** - one clamp directly over barbs plus one additional clamp.

INSERT DIAMETER DIMENSIONS



MAXIMUM DIAMETERS

Size	C MAX	D MIN	Z MAX
½	0.635	0.406	0.665
¾	0.835	0.562	0.865
1	1.055	0.750	1.095
1¼	1.375	0.995	1.425
1½	1.605	1.125	1.665
2	2.065	1.656	2.125
2½	2.460	2.062	2.520
3	3.065	2.600	3.125
4	4.030	3.525	4.090

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NOTES

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Insert

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1401-005	½	50	05	4.98
1401-007	¾	50	05	5.42
1401-010	1	25	05	7.01
1401-012	1¼	10	05	10.96
1401-015	1½	10	05	12.41
1401-020	2	10	05	24.53
1401-030	3	5	05	88.23



Insert x Insert x Reducing Insert

REDUCING TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1401-101	¾ x ¾ x ½	25	05	6.12
1401-130	1 x 1 x ½	25	05	7.16
1401-131	1 x 1 x ¾	25	05	7.21
1401-166	1¼ x 1¼ x ½	25	05	9.38
1401-167	1¼ x 1¼ x ¾	25	05	9.38
1401-168	1¼ x 1¼ x 1	25	05	9.38
1401-209	1½ x 1½ x ½	10	05	16.34
1401-210	1½ x 1½ x ¾	10	05	16.34
1401-211	1½ x 1½ x 1	10	05	16.34
1401-212	1½ x 1½ x 1¼	10	05	16.34
1401-247	2 x 2 x ½	10	05	23.27
1401-248	2 x 2 x ¾	10	05	23.27
1401-249	2 x 2 x 1	10	05	23.27
1401-250	2 x 2 x 1¼	10	05	24.36
1401-251	2 x 2 x 1½	10	05	25.10



Insert x Reducing Insert x Reducing Insert

REDUCING TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1401-094	¾ x ½ x ½	25	05	6.68
1401-125	1 x ¾ x ¾	25	05	11.63
1401-157	1¼ x 1 x ¾	25	05	13.36
1401-158	1¼ x 1 x 1	25	05	13.36
1401-202	1½ x 1¼ x 1	10	05	16.77
1401-203	1½ x 1¼ x 1¼	10	05	16.77



Insert x Insert x Double Helix

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1401-099	¾	25	05	7.73
1401-129	1	25	05	8.46



Slip x Slip x Insert

TRANSITION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1102-249	2 x 2 x 1	10	01	12.26

*See Schedule 40 Price List; Discounts will vary.



Insert x Insert x Bullhead Insert

BULLHEAD TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1401-074	½ x ½ x ¾	25	05	13.43
1401-102	¾ x ¾ x 1	25	05	15.46
1401-132	1 x 1 x 1¼	25	05	21.58



Insert x Insert x FPT

COMBINATION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1402-005	½	50	05	5.42
1402-007	¾	50	05	8.08
1402-010	1	25	05	9.54
1402-012	1¼	10	05	14.02
1402-015	1½	10	05	24.36
1402-020	2	10	05	30.22



Insert x Insert x FPT

COMBINATION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1402-101	¾ x ¾ x ½	25	05	6.68
1402-130	1 x 1 x ½	25	05	8.83
1402-131	1 x 1 x ¾	25	05	8.83
1402-166	1¼ x 1¼ x ½	25	05	12.00
1402-167	1¼ x 1¼ x ¾	25	05	13.28
1402-168	1¼ x 1¼ x 1	25	05	14.02
1402-209	1½ x 1½ x ½	10	05	18.48
1402-210	1½ x 1½ x ¾	10	05	21.93
1402-211	1½ x 1½ x 1	10	05	21.93
1402-212	1½ x 1½ x 1¼	10	05	22.48
1402-247	2 x 2 x ½	10	05	24.80
1402-248	2 x 2 x ¾	10	05	26.24
1402-249	2 x 2 x 1	10	05	28.84
1402-251	2 x 2 x 1½	10	05	30.22



Insert x Reducing Insert x Reducing FPT

COMBINATION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1402-094	¾ x ½	25	05	8.82
1402-124	1 x ¾ x ½	25	05	11.01
1402-125	1 x ¾ x ¾	25	05	13.10
1402-156	1¼ x 1 x ½	25	05	16.22
1402-157	1¼ x 1 x ¾	25	05	18.99



Insert x Insert x MPT

COMBINATION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1403-005	½	50	05	6.88
1403-007	¾	50	05	9.38
1403-010	1	25	05	12.00
1403-012	1¼	10	05	15.68
1403-015	1½	10	05	17.51

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ELBOWS, CROSS



Insert x Insert

90° ELBOW

Part No	Size (in)	Ctn Qty	Code	List Price
1406-005	½	50	05	4.52
1406-007	¾	50	05	5.54
1406-010	1	25	05	6.13
1406-012	1¼	10	05	6.88
1406-015	1½	10	05	8.08
1406-020	2	10	05	11.34
1406-030	3	8	05	64.52



Insert x Reducing Insert

90° REDUCING ELBOW

Part No	Size (in)	Ctn Qty	Code	List Price
1406-101	¾ x ½	25	05	5.25
1406-131	1 x ¾	25	05	6.47
1406-168	1¼ x 1	25	05	9.54
1406-212	1½ x 1¼	10	05	11.34



Insert x FPT

90° COMBINATION ELBOW

Part No	Size (in)	Ctn Qty	Code	List Price
1407-005	½	50	05	5.13
1407-007	¾	50	05	5.54
1407-010	1	25	05	7.16
1407-012	1¼	10	05	10.59
1407-015	1½	10	05	12.00
1407-020	2	10	05	20.36



Insert x FPT

90° Reducing Combination Elbow

Part No	Size (in)	Ctn Qty	Code	List Price
1407-101	¾ x ½	50	05	5.25
1407-130	1 x ½	25	05	5.54
1407-131	1 x ¾	25	05	6.47
1407-166	1¼ x ½	25	05	9.54
1407-167	1¼ x ¾	25	05	9.54
1407-168	1¼ x 1	25	05	9.54
1407-211	1½ x 1	10	05	10.85
1407-212	1½ x 1¼	10	05	11.82
1407-251	2 x 1½	10	05	19.28



Insert x Slip

90° ELBOW

Part No	Size (in)	Ctn Qty	Code	
127-957	1½	50	05	20.71



Insert x MPT

90° COMBINATION ELBOW

Part No	Size (in)	Ctn Qty	Code	
1413-005	½	50	05	5.72
1413-007	¾	50	05	7.92
1413-010	1	25	05	10.38
1413-012	1¼	10	05	13.80
1413-015	1½	10	05	18.33
1413-020	2	10	05	28.91



FIPT x Insert

SIDE OUTLET ELBOW

Part No	Size (in)	Ctn Qty	Code	
1414-101	¾ x ¾ x ½	50	05	13.10
1414-130	1 x 1 x ½	25	05	14.09
1414-131	1 x 1 x ¾	25	05	14.09



Insert

SIDE OUTLET TEE

Part No	Size (in)	Ctn Qty	Code	
1416-007	¾	50	05	16.88
1416-101	¾ x ½	50	05	16.88
1416-130	1 x ½	50	05	17.96
1416-131	1 x ¾	50	05	17.96

CROSS



Insert

CROSS

Part No	Size (in)	Ctn Qty	Code	List Price
1420-007	¾	25	05	13.04
1420-010	1	25	05	16.18



Insert x Insert

COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
1429-005	½	50	05	2.33
1429-007	¾	50	05	2.80
1429-010	1	50	05	2.95
1429-012	1¼	25	05	4.30
1429-015	1½	25	05	5.09
1429-020	2	10	05	9.71
1429-030	3	10	05	42.37
1429-040	4	10	05	57.66



Insert x Reducing Insert

REDUCING COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
1429-101	¾ x ½	50	05	3.76
1429-130	1 x ½	50	05	5.15
1429-131	1 x ¾	50	05	3.90
1429-167	1¼ x ¾	25	05	7.96
1429-168	1¼ x 1	25	05	6.13
1429-210	1½ x ¾	25	05	9.71
1429-211	1½ x 1	25	05	9.26
1429-212	1½x1¼	25	05	7.21
1429-249	2 x 1	10	05	13.10
1429-250	2 x 1¼	10	05	12.18
1429-251	2 x 1½	10	05	11.59



Insert x Double Helix

REDUCING COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
1429-099	¾	50	05	5.00
1429-129	1	50	05	5.33

ADAPTERS



Insert x Spg/ Slip

FITTING ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1432-010	1 x 1 Spigot (¾ Slip)	50	05	6.88
1432-131	¾ x 1 Spigot (¾ Slip)	50	05	6.88



Insert x FPT

FEMALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1435-005	½	50	05	10.16
1435-007	¾	50	05	11.01
1435-101	½ x ¾	50	05	13.07
1435-010	1	50	05	12.18
1435-012	1¼	25	05	14.96
1435-015	1½	25	05	18.99
1435-020	2	10	05	24.15



Insert x MPT

MALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1436-005	½	50	05	2.32
1436-007	¾	50	05	2.80
1436-010	1	50	05	2.88
1436-012	1¼	20	05	4.59
1436-015	1½	25	05	5.09
1436-020	2	10	05	9.77
1436-030	3	10	05	46.22
1436-040	4	10	05	64.25



Reducing MPT x Insert

REDUCING MALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1436-074	½ x ¾	50	05	7.21
1436-075	½ x 1	50	05	7.53
1436-102	¾ x 1	50	05	7.53
1436-132	1 x 1¼	25	05	9.08
1436-133	1 x 1½	25	05	13.72
1436-169	1¼ x 1½	10	05	13.72
1436-213	1 ½ x 2	10	05	17.57



MPT x Reducing Insert

REDUCING MALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1436-101	¾ x ½	50	05	6.51
1436-131	1 x ¾	50	05	6.68
1436-167	1¼ x ¾	25	05	7.96
1436-168	1¼ x 1	25	05	8.51
1436-211	1½ x 1	25	05	10.38
1436-212	1½ x 1¼	25	05	10.38
1436-251	2 x 1½	10	05	17.43



MPT x 2" length SP

POOL ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
1436-170	1¼	25	05	12.26
1436-205	1½ x 1¼ x 2	25	05	14.14



Insert x SP

INSERT ADAPTER (WHITE PVC)

Part No	Size (in)	Ctn Qty	Code	List Price
460-007	¾ x ¾ SP (½ Slip)	50	01	*
460-010	1 x 1 SP (¾ Slip)	50	01	*
460-015	1½ x 1½ SP	25	01	*

*See Schedule 40 Price List; Discounts will vary.



Slip x Insert PVC pipe to Flexible pipe

ADAPTER (WHITE PVC)

Part No	Size (in)	Ctn Qty	Code	List Price
474-007	¾	50	01	*
474-010	1	50	01	*
474-015	1½	25	01	*

*See Schedule 40 Price List; Discounts will vary.



Insert

INSERT PLUG				
Part No	Size (in)	Ctn Qty	Code	List Price
1449-005	½	100	05	4.12
1449-007	¾	100	05	4.30
1449-010	1	50	05	5.79
1449-012	1¼	25	05	7.34
1449-015	1½	25	05	8.03
1449-020	2	10	05	14.14

RISER EXTENDER



MPT x FPT

RISER EXTENDER (WHITE PVC)				
Part No	Size (in)	Ctn Qty	Code	List Price
434-005	½ x $2^{1}/_{16}$ lg	50	01	*
434-007	¾ x $1^{5}/_{8}$ lg	50	01	*
434-008	¾ x $2^{15}/_{16}$ lg	50	01	*
434-020	2 x $2^{11}/_{16}$ lg	25	01	*
439-005	½ x $1^{3}/_{8}$ lg	50	01	*

*See Schedule 40 Price List; Discounts will vary.

DO NOT USE LASCO FITTINGS FOR COMPRESSED AIR OR GASES.
DO NOT TEST PVC PIPING SYSTEMS WITH COMPRESSED AIR OR GASES.
DO NOT USE FITTINGS WITH LIQUIDS NOT RECOMMENDED BY LASCO.
MODIFICATIONS OF FITTINGS VOIDS THE WARRANTY.



⚠WARNING:
USE OF COMPRESSED AIR OR GAS IN PVC/CPVC PIPE AND FITTINGS CAN RESULT IN EXPLOSIVE FAILURES AND CAUSE SEVERE INJURY OR DEATH.

STANDARDS AND SPECIFICATIONS – PVC INSERTS

ASTM D-2609	–	Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe.
ASTM D-1784	–	Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
ASTM F-1970	–	Standard Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems.
MATERIAL	–	LASCO Schedule 40 Fittings are produced from PVC TYPE 1, CELL Classification 12454-B.
LISTINGS	–	NSF (National Sanitation Foundation) for potable water services.

American Granby

CUSTOMER SERVICE
Phone: (315) 451-1100 or (800) 776-2266 | Fax: (800) 729-3299
7652 Morgan Road • Liverpool, New York 13090

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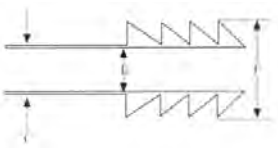
Insert Fittings - Nylon

Nylon Insert Fitting Features:

- White nylon insert fittings
- Meets ASTM-2609
- NSF for potable water

- **DO NOT USE NYLON INSERT FITTINGS FOR COMPRESSED AIR OR GASES.**
- **DO NOT TEST PIPING SYSTEMS WITH NYLON INSERT FITTING WITH COMPRESSED AIR OR GASES.**
- **DO NOT USE FITTINGS WITH LIQUIDS NOT RECOMMENDED BY MANUFACTURER.**
- **MODIFICATIONS OF FITTINGS VOIDS THE WARRANTY.**

Insert Diameter Dimensions



MAXIMUM DIAMETERS			
SIZE	C	E	F
1/2"	.605	.445	.665
3/4"	.800	.630	.865
1"	1.005	.805	1.095
1 1/4"	1.325	1.105	1.425
1 1/2"	1.565	1.345	1.665
2"	2.020	1.800	2.125

Recommended Installation Procedures:

- Sizes 1/2, 3/4 and 1" - one clamp directly over barbs.
- Sizes 1 1/4" and greater - one clamp directly over barbs PLUS one clamp behind barbs.

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



N401 Series



N406 Series



N413 Series



N429 Series



N436 Series

Part Number	Description	Inner/Master Ctn Qty
N401-005	NYLON INS X INS TEE 1/2"	10/180
N401-007	NYLON INS X INS TEE 3/4"	10/100
N401-010	NYLON INS X INS TEE 1"	10/60
N401-012	NYLON INS X INS TEE 11/4"	5/40
N401-015	NYLON INS X INS TEE 11/2"	5/30
N401-020	NYLON INS X INS TEE 2"	5/15
N406-005	NYLON INS X INS 90 ELBOW 1/2"	10/300
N406-007	NYLON INS X INS 90 ELBOW 3/4"	10/180
N406-010	NYLON INS X INS 90 ELBOW 1"	10/100
N406-012	NYLON INS X INS 90 ELBOW 11/4"	5/60
N406-015	NYLON INS X INS 90 ELBOW 11/2"	5/40
N406-020	NYLON INS X INS 90 ELBOW 2"	5/25
N413-005	NYLON INS X MIPT 90 ELL 1/2"	10/300
N413-007	NYLON INS X MIPT 90 ELL 3/4"	10/200
N413-010	NYLON INS X MIPT 90 ELL 1"	10/100
N413-012	NYLON INS X MIPT 90 ELL 1 1/4"	5/60
N413-015	NYLON INS X MIPT 90 ELL 11/2"	5/50
N429-005	NYLON INS X INS COUPLING 1/2"	10/400
N429-007	NYLON INS X INS COUPLING 3/4"	10/250
N429-010	NYLON INS X INS COUPLING 1"	10/160
N429-012	NYLON INS X INS COUPLING 11/4"	10/80
N429-015	NYLON INS X INS COUPLING 11/2'	5/60
N429-020	NYLON INS X INS COUPLING 2"	5/40
N436-005	NYLON INS X MIPT M/A 1/2"	10/400
N436-007	NYLON INS X MIPT M/A 3/4"	10/250
N436-010	NYLON INS X MIPT M/A 1"	10/160
N436-012	NYLON INS X MIPT M/A 11/4"	10/80
N436-015	NYLON INS X MIPT M/A 11/2"	5/60
N436-020	NYLON INS X MIPT M/A 2"	5/40

Insert Fittings - Economy NO LEAD Cast Bronze

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

NSF/ANSI 372

Features:

- **Light pattern, NO LEAD** cast bronze insert fittings for use with flexible plastic pipe.
- "E" Series **light pattern, NO LEAD** fittings compete with Merrill.
- **Third party certified to NSF/ANSI 61&372 or * NSF/ANSI 372**



ERBMANL



EXLRBMANL



ERBCNL



ERBTNL



ERBENL

Part Number	Size	Style	# Barbs	Ctn/CaseQty
NO LEAD Cast Bronze Male Insert Adapters (INS x MIP) (Merrill CRBMANL Series)				
ERBMA1/2NL	1/2" x 1/2"	Hex	6	10/200
ERBMA3/4NL	3/4" x 3/4"	Hex	6	10/100
ERBMA1NL	1" x 1"	Hex	7	10/100
ERBMA1X3/4NL	1" x 3/4"	Hex	5	10/100
ERBMA11/4NL	1 1/4" x 1 1/4"	Hex	6	10/100
ERBMA11/4X1NL	1 1/4" x 1"	Hex	7	10/100
ERBMA1X11/4NL	1" x 11/4"	Hex	6	10/100
ERBMA11/2NL	1 1/2" x 1 1/2"	Hex	6	5/50
ERBMA2NL	2" x 2"	Hex	7	5/50
NO LEAD Cast Bronze Extra Long Male Adapters (INS x MIP) (Merrill RBMANLXL)				
EXLRBMA1NL	1" x 1"	Hex	13	10/100
EXLRBMA11/4NL	1 1/4" x 1 1/4"	Hex	13	10/100
NO LEAD Cast Bronze Couplings (INS x INS) (Merrill RBCPNL Series)				
ERBC1/2NL	1/2" x 1/2"	Hex	4	10/200
ERBC3/4NL	3/4" x 3/4"	Hex	4	10/200
ERBC1NL	1" x 1"	Hex	5	10/100
ERBC11/4NL	1 1/4" x 1 1/4"	Hex	6	10/100
ERBC11/2NL	1 1/2" x 1 1/2"	Hex	4	5/50
ERBC2NL	2" x 2"	Hex	4	5/50
NO LEAD Cast Bronze Tees (INS x INS) *NSF61 (Merrill RBHTNL Series)				
ERBT3/4NL	3/4" x 3/4"		5	10/100
ERBT1NL	1" x 1"		5	10/100
ERBT11/4NL	1 1/4" x 1 1/4"		6	5/50
NO LEAD Cast Bronze Elbows (INS x INS) *NSF61 (Merrill RBHENL Series)				
ERBE3/4NL	3/4" x 3/4"		5	10/100
ERBE1NL	1" x 1"		5	10/100
ERBE11/4NL	1 1/4" x 1 1/4"		6	10/50

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Insert Fittings - NO LEAD Cast Bronze

- For use with flexible plastic pipe
- Heavy Pattern, contractor grade NO LEAD cast bronze.
- 20% to 30% heavier fittings than some competitors.
- **Third party certified NSF/ANSI 61&372 or *NSF/ANSI 372**

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372

* NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



NLRBMA



NLRRBMA



NLLRBMA



NLXLRBMA



NLRBMUA



NLRBRA



NLRBFA



NLRBC

Part Number	Size	Style	Number of Barbs	Ctn/Case Qty
No Lead Cast Bronze Male Insert Adapters (INS x MIP)				
NLRBMA1/2	1/2" x 1/2"	Hex	5	10/200
NLRBMA3/4	3/4" x 3/4"	Hex	5	10/200
NLRBMA3/4X1 *	3/4" x 1"	Hex	6	10/100
NLRBMA1	1" x 1"	Hex	7	10/100
NLRRBMA1	1" X 1"	Round	6	10/100
NLRBMA1X3/4	1" x 3/4"	Hex	5	10/100
NLRBMA1X11/4	1" x 11/4"	Hex	6	10/100
NLRBMA11/4	1 1/4" x 1 1/4"	Hex	6	10/100
NLRBMA11/4X1	1 1/4" x 1"	Hex	7	10/100
NLRBMA11/2	1 1/2" x 1 1/2"	Hex	6	5/50
NLRBMA11/2X11/4	11/2" x 1 1/4"	Hex	6	10/100
NLRBMA2	2" x 2"	Hex	7	5/50
No Lead Cast Bronze Long Male Adapters (INS x MIP) ☺ Limited Quantities Available				
NLLRBMA1 ☺	1" x 1"	Hex	9	10/100
NLLRBMA1x11/4 ☺	1" x 1 1/4"	Hex	9	10/100
No Lead Cast Bronze Extra Long Male Adapters (INS x MIP)				
NLXLRBMA1	1" x 1"	Hex	12	10/100
NLXLRBMA1x11/4	1" x 1 1/4"	Hex	12	10/100
NLXLRBMA11/4	1 1/4" x 1 1/4"	Hex	12	10/100
NLXLRBMA2	2" x 2"	Hex	12	5/50
No Lead Cast Bronze Male Union Adapters (INS x MIP)				
NLRBMUA1	1" x 1"	Hex	6	10/80
NLRBMUA11/4	1 1/4" x 1 1/4"	Hex	6	10/40
No Lead Cast Bronze Rope Adapter (INS x MIP)				
NLRBRA1	1" x 1"	Round w/ rope eye	7	10/100
NLRBRA1X11/4	1" x 1 1/4"	Round w/ rope eye	6	10/100
NLRBRA11/4	1 1/4" x 1 1/4"	Round w/ rope eye	6	10/100
No Lead Cast Bronze Female Adapters (INS x FIP)				
NLRBFA1/2	1/2" x 1/2"	Round	5	10/200
NLRBFA3/4	3/4" x 3/4"	Round	5	10/100
NLRBFA1	1" x 1"	Round	5	10/100
NLRBFA11/4	1 1/4" x 1 1/4"	Round	7	10/100
NLRBFA11/2	1 1/2" x 1 1/2"	Round	6	5/50
NLRBFA2	2" x 2"	Round	7	5/50
No Lead Cast Bronze Couplings (INS x INS)				
NLRBC1/2	1/2" x 1/2"	Hex	6	10/200
NLRBC3/4	3/4" x 3/4"	Hex	6	10/200
NLRBC3/4X1	3/4" x 1"	Hex	5 x 6	10/100
NLRBC1	1" x 1"	Hex	5	10/100
NLRBC1X11/4	1" x 1 1/4"	Hex	6	10/100
NLRBC11/4	1 1/4" x 1 1/4"	Hex	6	10/100
NLRBC11/2	1 1/2" x 1 1/2"	Hex	6	5/50
NLRBC2	2" x 2"	Hex	6	5/50

Insert Fittings - NO LEAD Cast Bronze

- For use with flexible plastic pipe
- Heavy Pattern, contractor grade NO LEAD cast bronze.
- **Third party certified NSF/ANSI 61&372 or *NSF/ANSI 372**

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372 * NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



NLXLRBC



NLRBHE



NLRBFE



NLRBE



NLRBHT



NLRBT



NLRBFT

Part Number	Size	Number of Barbs	Ctn/Case Qty
No Lead Cast Bronze Extra Long Couplings (INS x INS)			
NLXLRBC1	1" x 1"Hex	12	10/100
NLXLRBC11/4	1 1/4" x 1 1/4"Hex	12	5/50
NLXLRBC2	2" x 2"Hex	12	5/25
No Lead Cast Bronze Hydrant Elbow (INS x MIP)			
NLRBHE3/4	3/4" x 3/4"	5	10/100
NLRBHE1x3/4	1" x 3/4"	5	10/100
NLRBHE1	1" x 1"	5	10/100
NLRBHE11/4X1	1 1/4" x 1"	6	5/50
NLRBHE11/4	1 1/4" x 1 1/4"	6	5/50
No Lead Cast Bronze Extra Long Hydrant Elbows (INS x MIP)			
NLXLRBHE1	1" x 1"	8	10/100
NLXLRBHE1X3/4	1" x 3/4"	10	10/100
No Lead Cast Bronze Combination Elbows (INS x FIP)			
NLRBFE1	1" x 1"	8	5/50
NLRBFE1x11/4 *	1" x 1 1/4"	8	5/50
NLRBFE11/4	1 1/4" x 1 1/4"	6	5/50
No Lead Cast Bronze Elbows (INS x INS)			
NLRBE3/4	3/4" x 3/4"	5	10/200
NLRBE1	1" x 1"	6	10/100
NLRBE1X11/4	1"x 1 1/4"	6	10/50
NLRBE11/4	1 1/4" x 1 1/4"	6	10/50
No Lead Cast Bronze Hydrant Tees (INS x MIP)			
NLRBHT3/4	3/4" x 3/4"	6	10/100
NLRBHT1X3/4	1" x 3/4"	6	10/100
NLRBHT1	1" x 1"	6	10/100
No Lead Cast Bronze Tees (INS x INS)			
NLRBT3/4	3/4" x 3/4"	5	10/100
NLRBT1	1" x 1"	5	10/100
NLRBT11/4	1 1/4" x 1 1/4"	6	5/50
No Lead Cast Brass Combination Tees (INS x FPT) *			
NLRBFT3/4 *	3/4" x 3/4"	6	10/100
NLRBFT1 *	1" x 1"	6	6/60
NLRBFT1X1X3/4 *	1" x 1" x 3/4"	6	6/60
NLRBFT11/4 *	1 1/4" x 1 1/4"	6	4/40

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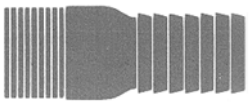
Insert Fittings - Steel, Zinc Plated

- For use with flexible poly pipe
- Made in North America.
- IMAS Imported
- Made from Sch 40 C.W. steel pipe, zinc plated.

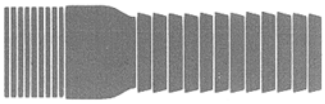


S12 Series

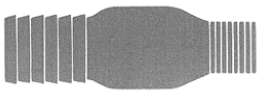
* NO wrench-grip shoulder



IMAS Series



XS12, IMAS--XL



S74, IMAS



S86

Part Number	Size	Ctn/Case Qty
Male Adapter, mipt x ins		
S12-1/2	1/2"	25
S12-3/4	3/4"	25
S12-1	1"	20
S12-11/4	1-1/4"	20
S12-11/2	1-1/2"	10
S12-2	2"	10
S12-21/2 *	2-1/2"	BULK
S12-3 *	3"	BULK
S12-4 *	4"	BULK
Male Adapter, mipt x ins IMPORTED		
IMAS50	1/2"	50/300
IMAS75	3/4"	50/200
IMAS100	1"	25/200
IMAS125	1 1/4"	12/108
IMAS150	1 1/2"	6/90
IMAS200	2"	5/60
IMAS250	2 1/2"	2/10
IMAS300	3"	2/10
IMAS400	4"	2/10
Extra Long Male Adapter, mipt x ins		
XS12-1	1"	25
XS12-11/4	1-1/4"	25
Extra Long Male Adapter, mipt x ins IMPORTED		
IMAS100XL	1"	10/120
IMAS125XL	1 1/4"	10/80
Reducing Male Adapter, ins x mipt		
S74-1X3/4	1" x 3/4"	25
Reducing Male Adapter, ins x mipt IMPORTED		
IMAS7550	3/4" x 1/2"	250
IMAS1075	1" x 3/4"	250
Venturi Adapter, mipt x ins		
S86-3/4X12	3/4 x 12"	25
S86-1X6	1" x 6"	25
S86-1X8	1" x 8"	25

Insert Fittings - Steel, Zinc Plated

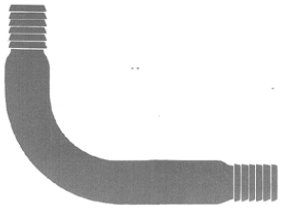
- For use with flexible poly pipe
- Made in North America.
- ISVMA, ISWSE, IFAS, ICS - Imported
- Made from Sch 40 C.W. steel pipe, zinc plated.

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T



ISVMA



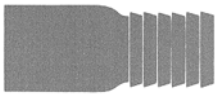
ISWSE



S10, ICS



ICS--XL



IFAS

Part Number	Size	Ctn/Case Qty
Venturi Adapter, mipt x ins IMPORTED		
ISVMA1X6	1" x 6"	60
ISVMA1X8	1" x 8"	50
ISVMA1X10	1" x 10"	40
ISVMA11/4X6	1-1/4" x 6"	50
ISVMA11/4X8	1-1/4" x 8"	40
ISVMA11/4X10	1-1/4" x 10"	30
Well Seal Elbow, ins x ins IMPORTED		
ISWSE100	1"	BULK
ISWSE125	1-1/4"	BULK
Coupling, ins x ins		
S10-3/4	3/4"	25
S10-1	1"	20
S10-11/4	1-1/4"	20
S10-11/2	1-1/2"	10
S10-2	2"	10
Coupling, ins x ins IMPORTED		
ICS50	1/2"	50/300
ICS75	3/4"	50/200
ICS100	1"	25/200
ICS125	1 1/4"	20/120
ICS150	1 1/2"	10/60
ICS200	2"	10/60
ICS250	2 1/2"	2/10
ICS300	3"	2/10
ICS400	4"	2/10
Extra Long Coupling, ins x ins IMPORTED		
ICS100XL	1"	10/120
ICS125XL	1-1/4"	10/80
Female Adapter, fipt x ins IMPORTED		
IFAS100	1"	125
IFAS125	1 1/4"	100

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Insert Fittings - Cast Stainless Steel

Stainless Steel Insert Fittings Features:

- Cast from Grade 304 Stainless Steel.
- For use with flexible poly pipe.
- **Third party certified to NSF/ANSI 61&372 or * NSF/ANSI 372**

LOW-LEAD IAPMO R&T *

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372



SSMA XLSSMA



SSC



SST



SSE



SSHE



SSHT

Part Number	Size	Style	# Barbs	Ctn/CaseQty
Cast 304 Stainless Steel Male Insert Adapters (MIP xINS)				
SSMA1/2 *	1/2"	Hex	6	10/100
SSMA3/4 *	3/4"	Hex	6	10/200
SSMA3/4X1 *	3/4" X 1"	Hex	6	10/200
SSMA1	1"	Hex	7	10/100
SSMA11/4	1 1/4"	Hex	8	10/100
SSMA11/4X1	1 1/4" x 1"	Hex	7	10/100
SSMA11/2 *	1 1/2"	Hex	7	5/80
SSMA2 *	2"	Hex	7	5/40
Cast 304 Stainless Steel Heavy Pattern Extra Long Male Adapters (MIPxINS)				
XLSSMA1 *	1" x 1"	Hex	13	10/100
XLSSMA11/4X1 *	1 1/4" x 1"	Hex	13	5/50
XLSSMA11/4 *	1 1/4" x 11/4"	Hex	13	5/50
Cast 304 Stainless Steel Coupling (INS x INS)				
SSC1/2	1/2" x 1/2"	Hex	6	10/200
SSC3/4 *	3/4" x 3/4"	Hex	6	10/200
SSC1 *	1" x 1"	Hex	6	10/100
SSC11/4	11/4" x 11/4"	Hex	6	10/100
SSC11/2 *	11/2" x 11/2"	Hex	8	10/50
Cast 304 Stainless Steel Tee (INS x INS x INS)				
SST3/4	3/4" x 3/4"		5	5/50
SST1	1" x 1"		5	10/100
SST1x3/4	1" x 3/4"		6	10/100
SST11/4	1 1/4" x 1 1/4"		5	10/100
Cast 304 Stainless Steel Elbow (INSxINS)				
SSE3/4	3/4" x 3/4"		5	10/100
SSE1	1" x 1"		6	10/100
SSE1X11/4	1" X 1 1/4"		6	10/50
SSE11/4	1 1/4" x 1 1/4"		7	5/50
Cast 304 Stainless Steel Hydrant Elbow (INSxMIP)				
SSHE3/4	3/4"x 3/4"		5	10/100
SSHE1X3/4	1" x 3/4"		5	10/100
SSHE1	1" x 1"		6	10/100
SSHE11/4	1 1/4" x 1 1/4"		6	10/50
Cast 304 Stainless Steel Hydrant Tee (INS x MIP)				
SSHT3/4	3/4" x 3/4"		4	10/100
SSHT1x3/4	1" x 3/4"		6	10/100
SSHT1	1" x 1"		4	10/100

Insert Fittings - Swaged Stainless Steel

Swaged Stainless Steel Insert Fitting Features:

- For use with flexible poly pipe.
- **Third party certified to NSF/ANSI 372**



IMASS



IMASSXL



ICSS Series



ISSVMA



SS12

* NO wrench-grip shoulder



SS38 Series



SS10 Series

Part Number	Size	Style	# Barbs	Ctn/Case Qty
Swaged 304 Stainless Steel Male Adapters (MIP x INS)				
IMASS50	1/2"	Round	6	25/200
IMASS75	3/4"	Round	6	25/150
IMASS100	1"	Round	7	20/120
IMASS125	1 1/4"	Round	7	20/80
IMASS12510	1 1/4 X 1"	Round	7	20/80
IMASS150	1 1/2"	Round	9	10/60
IMASS200	2"	Round	9	10/40
Swaged 304 Stainless Steel Extra Long Male Insert Adapters (MIPxINS)				
IMASS100XL	1"	Round	13	10/50
IMASS125XL	1 1/4"	Round	13	10/50
Swaged 304 Stainless Steel Couplings (INS x INS)				
ICSS50	1/2"	Round	6	25/200
ICSS75	3/4"	Round	6	25/150
ICSS7550	3/4 x 1/2"	Round	6x6	25/200
ICSS100	1"	Round	7	20/120
ICSS1075	1 x 3/4"	Round	7x6	10/100
ICSS125	1 1/4"	Round	7	20/80
ICSS12510	1 1/4 x 1"	Round	7x7	10/100
ICSS150	1 1/2"	Round	9	10/60
ICSS200	2"	Round	9	10/40
ICSS100XL	1"	Round	13	10/50
Swaged 304 Stainless Steel Venturi Adapters, MIPT x INS IMPORTED				
ISSVMA1X6	1" x 6"	Round	7	50
ISSVMA11/4X6	1 1/4" x 6"	Round	7	50
ISSVMA1X8	1" X 8"	Round	7	50
Swaged 316 Stainless Steel Male Insert Adapters (MIPxINS)				**Made in USA**
SS12-1/2*	1/2"	Round	6	25/300
SS12-3/4	3/4"	Hex	7	25/200
SS12-1	1"	Hex	7	20/160
SS12-11/4	1-1/4"	Hex	6	20/120
SS12-11/2	1-1/2"	Hex	6	10/60
Swaged 316 Stainless Steel Male Reducing Adapter (MIP x INS)				**Made in USA**
SS38-11/4x1	1-1/4 x 1"	Round	7	25/100
Swaged 316 Stainless Steel Extra Long Male Adapter (MIP x INS)				**Made in USA**
XSS12-1	1"	Round	13	25
XSS12-11/4	1 1/4"	Round	13	25
Swaged 316 Stainless Steel Coupling (INS x INS)				**Made in USA**
SS10-1	1"	Round	7	20
Swaged 316 Stainless Steel Extra Long Coupling (INS x INS)				**Made in USA**
XSS10-1	1"	Round	14	25

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Insert Fittings - Red Brass

- For use with flexible poly pipe
- Made in North America
- B and XB Series ANSI/NSF61
- IMAB Imported
- Made from 85% copper alloy seamless brass pipe with 0.05% lead.

ANSI/NSF Standard 61 Drinking Water System Components

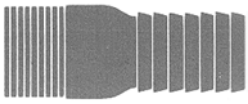
NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

LOW-LEAD IAPMO R&T

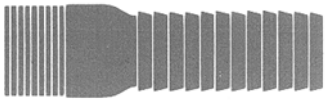
☺ Limited Quantities Available



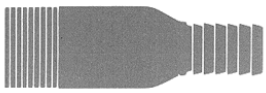
B12



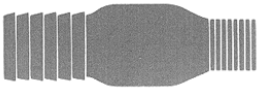
IMAB



XB12, IMAB---XL



B38



B74



B86

Part Number	Size	Ctn/Case Qty
Male Adapter, mipt x ins		
B12-1/2	1/2"	25/300
B12-3/4	3/4"	25/200
B12-1	1"	20/160
B12-11/4	1-1/4"	20/120
B12-11/2	1-1/2"	10/60
B12-2	2"	10/40
Male Adapter, mipt x ins IMPORTED		
IMAB50	1/2"	50/300
IMAB75	3/4"	50/200
IMAB100	1"	25/100
IMAB125	1 1/4"	20/80
IMAB150	1 1/2"	10/60
IMAB200	2"	10/60
IMAB250	2 1/2"	2/10
IMAB300	3"	2/10
IMAB400	4"	2/10
Extra Long Adapter, mipt x ins		
XB12-1	1"	25/100
Extra Long Adapter, mipt x ins IMPORTED		
IMAB100XL	1"	10/120
IMAB125XL	1-1/4"	10/80
Reducing Male Adapter, mipt x ins		
B38-11/4X1	1-1/4" x 1"	25/100
Reducing Male Adapter, ins x red. mipt		
B74-1X3/4	1" x 3/4"	25/200
B74-11/4X1	1-1/4" x 1"	25/100
Venturi Adapter, ins x mipt		
B86-1X6	1" x 6"	25/100

Insert Fittings - Red Brass, Yellow Brass

- For use with flexible plastic pipe
- Made in North America
- B and XB Series ANSI/NSF61
- IMAB, ICB Imported
- Made from 85% copper alloy seamless brass pipe with 0.05% lead.

ANSI/NSF Standard 61 Drinking Water System Components

LOW-LEAD IAPMO R&T

NO LEAD <0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

☺ Limited Quantities Available



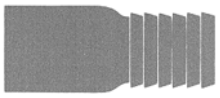
B10, ICB

Part Number	Size	Ctn/Case Qty
Coupling, ins x ins		
B10-1/2	1/2"	25/300
B10-3/4	3/4"	25/300
B10-1	1"	20/160
B10-11/4	1-1/4"	20/120
B10-11/2	1-1/2"	10/60
B10-2	2"	10/40
Coupling, ins x ins IMPORTED		
ICB50	1/2"	50/300
ICB75	3/4"	50/200
ICB100	1"	25/100
ICB125	1 1/4"	20/80
ICB150	1 1/2"	10/60
ICB200	2"	10/60
ICB300	3"	2/10
ICB400	4"	2/10



XB10, ICB--XL

Extra Long Coupling, ins x ins		
XB10-1	1"	25/100
Extra Long Coupling, ins x ins IMPORTED		
ICB100XL	1"	10/120
ICB125XL	1-1/4"	10/80



B90

Female Adapter, fipt x ins		
B90-3/4	3/4"	25/200
B90-1	1"	20/160
B90-11/4	1-1/4"	20/120



YB00NL

No Lead Yellow Brass Solder Adapter Features:

LOW-LEAD IAPMO R&T

NO LEAD <0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372

- For use with flexible poly pipe
- Third party certified to NSF/ANSI 372.

Part Number	Size	Ctn/Case Qty
NO LEAD Yellow Brass Solder Adapters, ins x solder		
YB00NL3/4	3/4"	10/200
YB00NL1 *	1"	10/200

* Use as 1" male or 3/4" female sweat fitting.

americangranby.com
Ph: 800-776-2266 Fax: 800-729-3299

PLASTIC THREAD INSTALLATION TIPS & QUICK REFERENCE GUIDE

Excerpts from LASCO Fittings, Inc. "Threads Installation Tips & Quick Reference Guide". For full text go to lascofittings.com

THE "DO'S AND DON'TS" OF ASSEMBLING THREADED PLASTIC FITTINGS

Today, there are millions of miles of plastic piping with threaded fittings, providing reliable, leak-free service. However, a tiny percentage of those threaded plastic fittings may leak or break. The reason for this is improper assembly of threaded joints.

Here are some of the Do's and Don'ts of PVC joint assembly:

- Don't over-tighten joints by giving them"one more turn to be sure. Do finger tighten plus one or two turns - No More.
- Don't wrap PTFE tape or PTFE paste or pipe dope to add bulk to or to lubricate the joint. Do use a sealant for threaded joints.
- Don't use"stronger"Schedule 80 threaded fittings on the assumption that they may solve the problem of splitting through over-tightening.
- Do use only Schedule 40 threaded fittings with Schedule 40 pipe and fittings.

On threaded male PVC fittings each successive thread is slightly larger in diameter than the one before it. Female threads get successively smaller. This is called taper and the amount of taper is specified (1¾ degrees) in the American National Standard B2.1. All pipe manufacturers voluntarily follow these standards to assure their customers they are receiving quality materials.

Because the threads are tapered, additional turns cause the female part to stretch or undergo"strain." This will split the female fitting just as a wedge, driven by a sledgehammer, will split a tree stump.

The amount of strain increases as the size of the pipe decreases. Therefore it is easier to split smaller diameter threaded joints than larger ones. It is also easier to over-torque smaller diameter fittings because their resistance to torque is less.

The right way to assemble a threaded PVC joint-Schedule 40 or 80 is finger tight plus one to two turns-no more.

LEAK-FREE JOINTS

Since sealant or tapes that contain PTFE reduce the friction, they will mask the loads and stress being applied during the tightening sequence. Because of the clearance between the root or valley and the peaks of the mating threads, there is a small spiral leak path that extends the length of the threaded connection. This leak path must be sealed, and this is the reason for thread sealant. The lubricating qualities of thread sealants can cloak the resistance the installer expects when tightening a joint. This leads to over tightening to get the"feel"of being leak free, while exerting the excessive stress of wedging the male and female components together.

The procedure to make leak free joints that will not cause split fittings is simple! Make-up the joint to finger-tight, not hand tight, then tighten 1 to 2 more turns. This method will provide a joint that is leak tight without causing excessive stress within the connection. It is important to realize that pipe thread sealant, especially those made with PTFE, lubricate the threads and mislead the installer to believe the joint is not tight.

DON'T USE PTFE TAPE, PTFE PASTE OR PIPE DOPE.
DO USE A SEALANT.

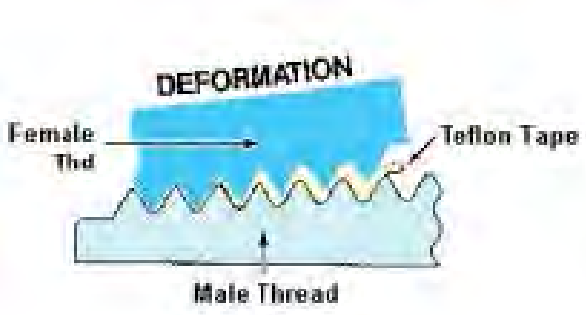
PTFE tape, PTFE paste and pipe dope is intended for metal pipe and fittings. Metal to metal fitting joints are more difficult to tighten than plastic; the surfaces tend to gall without the aid of such lubricants as PTFE or pipe dope. Plastic fittings do not need this lubrication.

When PTFE tape is wrapped around plastic male threads it adds to the strain and tensile stress. The tendency of most installers is to incorrectly wrap several thicknesses of tape around the male threads, increasing stain and stress further.

PTFE paste and pipe dope, just like PTFE tape, make threaded joints slippery. Their use on PVC fittings can be an invitation to over-torque.

When working with threaded plastic fittings do use a proper sealant. The right sealant for threaded joints is non-hardening, compatible with plastic and does not add slipperiness.

A non-hardening compound is forced by water pressure into potential points of leakage, thereby performing a true sealing function. Tapes and hardening pastes permit a leak path to develop when a joint is backed off, mechanically flexed, or expands with rising temperatures.





A sealing compound must be compatible to plastics. Many brands of pipe sealant contain oils, solvents or carriers that can damage plastic. A proper sealant must be certified by the manufacturer to be harmless to the fitting material and to not contaminate fluid in the pipe.

Finally, a sealing compound must not lubricate the joint to the point that over-tightening is encouraged. Several sealants on the market meet all these requirements.

americangranby.com
Ph: 800-776-2266 Fax: 800-729-3299

PRICE GROUP	DESCRIPTION	DISCOUNT MULTIPLIER
01	SCH 40 PVC through 8″	
91	SCH 40 PVC 10" AND LARGER	

American Granby
Phone: (315) 451-1100 or (800) 776-2266
Fax: (800) 729-3299
7652 Morgan Road • Liverpool, New York 13090

PRODUCTS | PRICE LIST

SCHEDULE 40 PVC PRESSURE FITTINGS

INCLUDES: SCHEDULE 40 PVC 1/4″ TO 12″

AG40P | EFFECTIVE MAY 1, 2026

NOTES



Slip x Slip x Slip

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
401-003	⅜	100	01	5.83
401-005	½	50	01	1.87
401-007	¾	50	01	2.15
401-010	1	50	01	4.09
401-012	1¼	25	01	6.30
401-015	1½	25	01	7.66
401-020	2	25	01	11.23
401-025	2½	10	01	36.95
401-030	3	10	01	48.53
401-040	4	5	01	87.80
401-050	5	4	01	212.05
401-060	6	4	01	295.60
401-080	8	2	01	685.49
401-100	10	1	91	2271.37
401-120	12	1	91	3355.95



Slip x Slip x Slip

REDUCER TEE

Part No	Size (in)	Ctn Qty	Code	List Price
401-094	¾ x ½ x ½	50	01	3.67
401-095	¾ x ½ x ¾	50	01	3.67
401-101	¾ x ¾ x ½	50	01	2.52
401-122	1 x ½ x 1	50	01	7.18
401-124	1 x ¾ x ½	50	01	7.18
401-125	1 x ¾ x ¾	50	01	7.18
401-126	1 x ¾ x 1	50	01	7.18
401-130	1 x 1 x ½	50	01	4.29
401-131	1 x 1 x ¾	50	01	4.65
401-156	1¼ x 1 x ½	25	01	9.82
401-157	1¼ x 1 x ¾	25	01	9.82
401-158	1¼ x 1 x 1	25	01	9.82
401-166	1¼ x 1¼ x ½	25	01	6.95
401-167	1¼ x 1¼ x ¾	25	01	6.95
401-168	1¼ x 1¼ x 1	25	01	6.95
401-199	1½ x 1¼ x ½	25	01	12.18
401-201	1½ x 1¼ x ¾	25	01	12.18
401-202	1½ x 1¼ x 1	25	01	12.18
401-209	1½ x 1½ x ½	25	01	12.18
401-210	1½ x 1½ x ¾	25	01	12.18
401-211	1½ x 1½ x 1	25	01	12.18
401-212	1½ x 1½ x 1¼	25	01	12.18
401-238	2 x 1½ x ¾	10	01	17.41
401-239	2 x 1½ x 1	10	01	17.41
401-241	2 x 1½ x 1½	10	01	17.41
401-247	2 x 2 x ½	10	01	11.98
401-248	2 x 2 x ¾	10	01	11.98
401-249	2 x 2 x 1	10	01	11.98
401-250	2 x 2 x 1¼	10	01	11.98
401-251	2 x 2 x 1½	10	01	11.98
401-287	2½ x 2½ x ½	10	01	36.85
401-288	2½ x 2½ x ¾	10	01	36.85
401-289	2½ x 2½ x 1	10	01	36.85
401-290	2½ x 2½ x 1¼	10	01	36.85
401-291	2½ x 2½ x 1½	10	01	36.85
401-292	2½ x 2½ x 2	10	01	36.85
401-333	3 x 3 x ½	10	01	52.82
401-334	3 x 3 x ¾	10	01	52.82



Slip x Slip x Slip

REDUCER TEE (Con't.)

Part No	Size (in)	Ctn Qty	Code	List Price
401-335	3 x 3 x 1	10	01	52.82
401-336	3 x 3 x 1¼	10	01	52.82
401-337	3 x 3 x 1½	10	01	52.82
401-338	3 x 3 x 2	10	01	52.71
401-339	3 x 3 x 2½	10	01	65.93
401-415	4 x 4 x ½*	4	01	91.22
401-416	4 x 4 x ¾	4	01	87.80
401-417	4 x 4 x 1	5	01	87.80
401-418	4 x 4 x 1¼	5	01	87.80
401-419	4 x 4 x 1½	5	01	87.80
401-420	4 x 4 x 2	5	01	87.80
401-422	4 x 4 x 3	5	01	87.80
401-486	5 x 5 x 2	5	01	205.89
401-488	5 x 5 x 3	5	01	205.89
401-490	5 x 5 x 4	5	01	205.89
401-528	6 x 6 x 2	5	01	295.60
401-530	6 x 6 x 3	5	01	295.60
401-532	6 x 6 x 4	5	01	295.60
401-582	8 x 8 x 4	2	01	685.49
401-585	8 x 8 x 6	2	01	685.49
401-621	10 x 10 x 2*	1	91	2035.41
401-622	10 x 10 x 2½*	1	91	2035.41
401-623	10 x 10 x 3*	1	91	2035.41
401-624	10 x 10 x 4	1	91	2035.41
401-626	10 x 10 x 6	1	91	1946.46
401-628	10 x 10 x 8	1	91	2492.07
401-661	12 x 12 x 2 *	1	91	2383.78
401-662	12 x 12 x 2½*	1	91	3185.99
401-663	12 x 12 x 3*	1	91	3185.99
401-664	12 x 12 x 4	1	91	3185.99
401-666	12 x 12 x 6	1	91	3185.99
401-668	12 x 12 x 8	1	91	2789.84
401-670	12 x 12 x 10*	1	91	4381.98

*Sized with BUSHING



Slip x Slip x Slip

BULLHEAD TEE

Part No	Size (in)	Ctn Qty	Code	List Price
401-074	½ x ¾	50	01	3.97
401-102	¾ x 1	50	01	7.18
401-132	1 x 1¼	50	01	9.61
401-133	1 x 1½	25	01	12.41
401-213	1½ x 2	25	01	17.41
401-341	3 x 4	10	01	90.61
401-344	3 x 3 x 6*	4	01	472.97
401-426	4 x 4 x 6*	4	01	472.97
401-428	4 x 4 x 8*	2	01	1305.45
401-492	5 x 5 x 6*	4	01	483.01
401-535	6 x 6 x 8*	2	01	1305.45
401-537	6 x 6 x 10*	1	91	3748.46
401-589	8 x 8 x 10*	1	91	3748.46
401-591	8 x 8 x 12*	1	91	4148.04
401-632	10 x 10 x 12*	1	91	4148.04

*Sized with BUSHING



Slip x Slip x FPT

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
402-005	½	50	01	2.52
402-007	¾	50	01	3.90
402-010	1	50	01	7.18
402-012	1¼	25	01	11.43
402-015	1½	25	01	14.90
402-020	2	10	01	18.87
402-030	3	10	01	73.05
402-040	4	5	01	111.66



Slip x Slip x FPT

REDUCING TEE

Part No	Size (in)	Ctn Qty	Code	List Price
402-071	½ x ½ x ⅛	50	01	5.42
402-072	½ x ½ x ¼	50	01	5.42
402-074	½ x ½ x ¾	50	01	5.42
402-094	¾ x ½ x ½	50	01	3.76
402-095	¾ x ½ x ¾	50	01	3.76
402-101	¾ x ¾ x ½	50	01	3.32
402-124	1 x ¾ x ½	50	01	7.18
402-125	1 x ¾ x ¾	50	01	7.18
402-130	1 x 1 x ½	50	01	5.03
402-131	1 x 1 x ¾	50	01	7.18
402-156	1¼ x 1 x ½	25	01	11.43
402-157	1¼ x 1 x ¾	25	01	11.43
402-166	1¼ x 1¼ x ½	25	01	11.98
402-167	1¼ x 1¼ x ¾	25	01	11.98
402-168	1¼ x 1¼ x 1	25	01	11.98
402-199	1½ x 1¼ x½	25	01	14.90
402-202	1½ x 1¼ x 1	25	01	14.90
402-209	1½ x 1½ x ½	25	01	14.90
402-210	1½ x 1½ x ¾	25	01	14.90
402-211	1½ x 1½ x 1	25	01	14.90
402-212	1½ x 1½ x 1¼	25	01	14.90
402-239	2 x 1½ x 1	10	01	18.71
402-247	2 x 2 x ½	10	01	18.71
402-248	2 x 2 x ¾	10	01	18.71
402-249	2 x 2 x 1	10	01	18.71
402-250	2 x 2 x 1¼	10	01	18.71
402-251	2 x 2 x 1½	10	01	18.71
402-287	2½ x 2½ x ½	10	01	40.48
402-288	2½ x 2½ x ¾	10	01	40.48
402-289	2½ x 2½ x 1	10	01	40.48
402-290	2½ x 2½ x 1¼	10	01	40.48
402-291	2½ x 2½ x 1½	10	01	40.48
402-292	2½ x 2½ x 2	10	01	40.48
402-333	3 x 3 x ½	10	01	57.88
402-334	3 x 3 x ¾	10	01	57.88
402-335	3 x 3 x 1	10	01	57.88
402-336	3 x 3 x 1¼	10	01	57.88
402-337	3 x 3 x 1½	10	01	57.88
402-338	3 x 3 x 2	10	01	57.88
402-416	4 x 4 x ¾	4	01	96.68
402-417	4 x 4 x 1	5	01	96.68
402-418	4 x 4 x 1¼	5	01	96.68
402-419	4 x 4 x 1½	5	01	96.68
402-420	4 x 4 x 2	5	01	96.68



Slip x Slip x FPT

REDUCING TEE (Con't.)

Part No	Size (in)	Ctn Qty	Code	List Price
402-422	4 x 4 x 3	5	01	96.68
402-483	5 x 5 x 1*	5	01	262.32
402-485	5 x 5 x 1½*	5	01	262.32
402-486	5 x 5 x 2*	5	01	262.32
402-487	5 x 5 x 2½*	5	01	262.32
402-488	5 x 5 x 3*	5	01	262.32
402-490	5 x 5 x 4	5	01	252.59
402-528	6 x 6 x 2	5	01	327.70
402-529	6 x 6 x 2½*	5	01	337.17
402-530	6 x 6 x 3	5	01	327.70
402-532	6 x 6 x 4	5	01	327.70
402-578	8 x 8 x 2*	2	01	708.66
402-579	8 x 8 x 2½*	2	01	708.66
402-582	8 x 8 x 4*	2	01	723.18
402-621	10 x 10 x 2*	1	01	2260.17
402-622	10 x 10 x 2½*	1	01	2260.17
402-623	10 x 10 x 3*	1	01	2260.17
402-624	10 x 10 x 4*	1	01	2260.17
402-661	12 x 12 x 2*	1	01	3510.23
402-662	12 x 12 x 2½*	1	01	3510.23
402-663	12 x 12 x 3*	1	01	3510.23
402-664	12 x 12 x 4*	1	01	3510.23

*Sized with BUSHING



Slip x Slip x MPT

MANIFOLD TEE

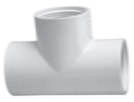
Part No	Size (in)	Ctn Qty	Code	List Price
402B-010	1	50	01	8.13



Slip x FPT x Slip

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
403-005	½	50	01	2.52
403-007	¾	50	01	3.90



FPT x FPT x FPT

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
405-005	½	50	01	6.92
405-007	¾	50	01	10.85
405-010	1	50	01	15.03
405-012	1¼	25	01	20.78
405-015	1½	25	01	21.48



Snap-On x FPT

SNAP-ON TEE

Part No	Size (in)	Ctn Qty	Code	List Price
464-007	¾	25	01	6.92
464-101	¾ x ½	25	01	5.82
464-130	1 x ½	50	01	10.47
464-131	1 x ¾	25	01	10.47



Slip x Slip x INSERT

TRANSITION TEE

Part No	Size (in)	Ctn Qty	Code	List Price
1102-249	2 x 2 x 1	10	01	12.26



Slip x Slip

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
406-003	⅜	100	01	7.63
406-005	½	50	01	1.51
406-007	¾	50	01	1.73
406-010	1	50	01	3.04
406-012	1¼	25	01	5.42
406-015	1½	25	01	5.79
406-020	2	25	01	9.08
406-025	2½	10	01	27.64
406-030	3	10	01	33.10
406-040	4	5	01	59.14
406-050	5	5	01	152.85
406-060	6	4	01	188.10
406-080	8	3	01	484.40
406-100	10	1	91	1824.55
406-120	12	1	91	2447.04



Slip x Slip

REDUCING 90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
406-101	¾ x ½	50	01	3.04
406-130	1 x ½	50	01	4.52
406-131	1 x ¾	50	01	5.46
406-167	1¼ x ¾	25	01	8.62
406-168	1¼ x 1	25	01	8.62
406-211	1½ x 1	25	01	13.72
406-212	1½ x 1¼	25	01	13.72
406-249	2 x 1	25	01	16.87
406-250	2 x 1¼	25	01	16.87
406-251	2 x 1½	25	01	23.32



Slip x FPT

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
407-005	½	50	01	1.87
407-007	¾	50	01	2.15
407-010	1	50	01	4.09
407-012	1¼	25	01	6.80
407-015	1½	25	01	7.57
407-020	2	10	01	19.41
407-025	2½	10	01	48.05
407-030	3	10	01	71.97
407-040	4	5	01	109.10



Slip x FPT

REDUCING 90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
407-074	½ x ¾	50	01	4.09
407-101	¾ x ½	50	01	2.25
407-130	1 x ½	50	01	6.22
407-131	1 x ¾	50	01	6.22
407-168	1¼ x 1	25	01	9.08
407-211	1½ x 1	25	01	15.12
407-212	1½ x 1¼	25	01	15.68
407-249	2 x 1	25	01	26.04
407-250	2 x 1¼	10	01	26.04
407-251	2 x 1½	10	01	26.04



FPT x FPT

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
408-005	½	50	01	3.67
408-007	¾	50	01	5.46
408-010	1	50	01	11.58
408-012	1¼	25	01	12.39
408-015	1½	25	01	15.68
408-020	2	10	01	23.77



SP x Slip

90° STREET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
409-005	½	50	01	4.29
409-007	¾	50	01	5.25
409-010	1	50	01	9.08
409-012	1¼	25	01	10.85
409-015	1½	25	01	11.98
409-020	2	10	01	23.11
409-025	2 ½	10	01	41.48
409-030	3	10	01	51.18
409-100	10	1	91	2718.59
409-120	12	1	91	3010.60



MPT x Slip

90° STREET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
410-005	½	50	01	3.32
410-007	¾	50	01	3.90
410-010	1	50	01	6.51
410-012	1¼	25	01	9.08
410-015	1½	25	01	9.48
410-020	2	10	01	23.35
410-101	¾ x ½	50	01	4.75



SP x FPT

90° STREET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
411-005	½	50	01	4.12
411-007	¾	50	01	4.98
411-010	1	50	01	8.67
411-012	1¼	25	01	10.42
411-015	1½	25	01	13.12



MPT x FPT



MPT x FPT
(Poly Version)

90° STREET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
412-005	½ PVC	50	01	4.46
412-007	¾ PVC	50	01	5.46
412-010	1 PVC	50	01	9.28
412-012	1¼ PVC	25	01	11.58
412-015	1½ PVC	25	01	12.55
M412-005	½ Poly*	50	01	4.38
M412-007	¾ Poly*	50	01	5.27
M412-010	1 Poly*	50	01	9.23

*Not Listed by NSF



Slip x Slip x Slip

90° SIDE OUTLET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
413-005	½	50	01	8.20
413-007	¾	50	01	11.23
413-010	1	25	01	14.32
413-015	1½	25	01	15.72
413-020	2	10	01	21.84



Slip x Slip x FPT

90° SIDE OUTLET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
414-005	½	50	01	8.03
414-010	1	25	01	14.35
414-101	¾ x ½	50	01	10.38
414-130	1 x 1 x ½	25	01	13.58



Slip x Slip with SP

REDUCING ELL

Part No	Size (in)	Ctn Qty	Code	List Price
416-251	2 x 1½ (2 Sp)	25	01	23.32
416-292	2½ x 2 (2½ Sp)	10	01	27.33



Slip x Slip

45° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
417-005	½	50	01	2.52
417-007	¾	50	01	3.90
417-010	1	50	01	4.65
417-012	1¼	25	01	6.51
417-015	1½	25	01	8.13
417-020	2	25	01	10.65
417-025	2½	10	01	27.68
417-030	3	10	01	42.99
417-040	4	5	01	77.07
417-050	5	5	01	152.85
417-060	6	4	01	190.38
417-080	8	4	01	457.89
417-100	10	1	91	1191.99
417-120	12	1	91	1766.35



SP x Slip

45° STREET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
423-015	1½	25	01	8.13
423-020	2	25	01	10.65
423-025	2½	10	01	34.61
423-030	3	10	01	42.99
423-100	10	1	91	1506.02
423-120	12	1	91	2206.50



Slip x Slip

11¼° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
461-100*	10	1	91	876.51
461-120*	12	1	91	1387.13

*FABRICATED FROM PIPE



Slip x Slip

22½° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
465-015	1½	20	01	10.49
465-020	2	10	01	15.21
465-025	2½	10	01	39.55
465-030	3	5	01	61.32
465-040	4	4	01	110.16
465-060	6	3	01	271.93
465-080	8	4	01	654.10
465-100*	10	1	91	876.51
465-120*	12	1	91	1387.13

*FABRICATED FROM PIPE



SP x Slip

22½° STREET ELL

Part No	Size (in)	Ctn Qty	Code	List Price
466-015	1½	20	01	11.63
466-020	2	10	01	15.23
466-025	2½	10	01	57.39
466-030	3	5	01	88.82
466-040	4	4	01	137.09
466-060	6	3	01	338.45

CROSSES



Slip x Slip x Slip x Slip

CROSS

Part No	Size (in)	Ctn Qty	Code	List Price
420-005	½	50	01	5.79
420-007	¾	50	01	9.62
420-010	1	50	01	11.98
420-012	1¼	25	01	15.82
420-015	1½	25	01	17.95
420-020	2	10	01	26.47
420-025	2½	8	01	56.14
420-030	3	10	01	68.85
420-040	4	5	01	102.04



Slip x Slip x Slip x Slip

REDUCING CROSS

Part No	Size (in)	Ctn Qty	Code	List Price
420-335	3 x 1	10	01	103.01
420-337	3 x 1½	10	01	103.01
420-338	3 x 2	10	01	103.01
420-419	4 x 1½	5	01	100.58
420-420	4 x 2	5	01	100.58



Slip x Slip x MPT x MPT

MANIFOLD CROSS

Part No	Size (in)	Ctn Qty	Code	List Price
421A-010	1	50	01	14.10



Slip x Slip

LONG SOCKET COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
428-015	1½ (1.824*)	25	01	7.58
428-020	2 (1.935*)	25	01	9.42

*Socket depth, each side.



Slip x Slip

COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
429-003	⅜	100	01	2.72
429-005	½	100	01	0.98
429-007	¾	50	01	1.37
429-010	1	50	01	2.40
429-012	1¼	25	01	3.32
429-015	1½	25	01	3.55
429-020	2	25	01	5.46
429-025	2 ½	10	01	11.98
429-030	3	10	01	18.74
429-040	4	5	01	27.15
429-050	5	4	01	49.70
429-060	6	5	01	85.86
429-080	8	4	01	160.28
429-100	10	1	91	467.15
429-120	12	1	91	930.72



Slip x Slip

REDUCER COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
429-101	¾ x ½	50	01	2.52
429-131	1 x ¾	50	01	4.29
429-168	1¼ x 1	25	01	7.18
429-211	1½ x 1	25	01	7.63
429-212	1½ x 1¼	25	01	7.63
429-251	2 x 1½	10	01	12.13
429-338	3 x 2	5	01	65.10
429-416	4 x ¾*	5	01	85.17
429-417	4 x 1*	5	01	135.25
429-418	4 x 1¼*	5	01	135.25
429-419	4 x 1½*	5	01	135.25
429-422	4 x 3	4	01	81.37
429-530	6 x 3*	4	01	133.15
429-532	6 x 4	4	01	107.38
429-582	8 x 4	4	01	248.95
429-534	6 x 4½	4	01	197.88
429-585	8 x 6	4	01	274.95
429-626	10 x 6	1	91	1318.66
429-628	10 x 8	1	91	1318.66
429-668	12 x 8	1	91	1501.46
429-670	12 x 10	1	91	1501.46

*Sized with BUSHING



FPT x FPT

COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
430-005	½	100	01	1.88
430-007	¾	50	01	3.55
430-010	1	50	01	4.65
430-012	1¼	50	01	15.71
430-015	1½	25	01	30.90
430-020	2	25	01	37.35
430-101	¾ x ½	50	01	4.61
430-131	1 x ¾	50	01	7.96
430-005-45	½ GRAY	100	01	1.88
430-007-45	¾ GRAY	50	01	3.55
430-101-45	¾ x ½ GRAY	50	01	4.61
430-131-45	1 x ¾ GRAY	50	01	7.96



FPT x FPT
(Gray Version)



Slip x Slip

NESTED COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
477-005	½*	100	01	0.98
477-007	¾	50	01	1.37
477-010	1	50	01	2.40

*1/2" Nested Couplings do not meet ASTM Standards for Sch 40 fittings and are not NSF listed.



Slip x Slip

DEEP SOCKET COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
482-015	1½ (2.181*)	25	01	9.26
482-020	2 (2.407*)	25	01	15.35
482-025	2½ (3.395*)	10	01	19.72
482-030	3 (3.641*)	10	01	29.73
482-040	4 (3.680*)	5	01	59.68

*Socket depth, each side.

RISER EXTENDER



MPT x FPT

RISER EXTENDER

Part No	Size (in)	Ctn Qty	Code	List Price
434-005	½	50	01	2.80
434-007	¾	50	01	4.65
434-008	¾*	50	01	4.77
434-010	1	50	01	5.82
434-020	2	25	01	11.83
439-198	Increasing 1½ x 2	10	01	14.65

*2 5/16 Long

EXTENDERS/CONNECTORS


Slip x SP

PIPE EXTENDER

Part No	Size (in)	Ctn Qty	Code	List Price
L0301-015	1½	50	09	*
L0301-020	2	25	09	*

*See Pool/Spa Price List.


SP x SP

INSIDE PIPE CONNECTOR

Part No	Size (in)	Ctn Qty	Code	List Price
L0302-015	1½	50	09	*
L0302-020	2	25	09	*

*See Pool/Spa Price List.

ADAPTERS


Slip x FPT

FEMALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
435-005	½	100	01	1.73
435-007	¾	50	01	2.15
435-010	1	50	01	2.52
435-012	1¼	25	01	3.90
435-015	1½	25	01	4.46
435-020	2	25	01	5.96
435-025	2½	10	01	15.12
435-030	3	10	01	20.28
435-040	4	5	01	33.59
435-050	5	5	01	86.99
435-060	6	4	01	123.65
435-080	8	4	01	233.13


Slip x FPT

REDUCING FEMALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
435-074	½ x ¾	50	01	3.04
435-101	¾ x ½	50	01	3.04
435-102	¾ x 1	50	01	4.09
435-130	1 x ½	50	01	4.09
435-131	1 x ¾	50	01	4.09
435-211	1 x 1½	25	01	8.13


MPT x Slip

MALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
436-005	½	100	01	1.37
436-007	¾	50	01	1.51
436-010	1	50	01	2.72
436-012	1¼	25	01	3.32
436-015	1½	25	01	4.46
436-020	2	25	01	5.82
436-025	2½	10	01	17.23
436-030	3	10	01	25.14
436-040	4	5	01	32.09
436-050	5	5	01	52.88
436-060	6	4	01	83.66
436-080	8	4	01	380.20


MPT x Slip

REDUCING MALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
436-073	½ x ⅜	100	01	2.72
436-074	½ x ¾	50	01	2.72
436-101	¾ x ½	50	01	2.52
436-102	¾ x 1	50	01	3.90
436-131	1 x ¾	50	01	8.35
436-132	1 x 1¼	25	01	9.08
436-133	1 x 1½	25	01	10.23
436-168	1¼ x 1	25	01	10.23
436-169	1¼ x 1½	25	01	10.23
436-212	1½ x 1¼	25	01	12.38
436-213	1½ x 2	10	01	12.38
436-251	2 x 1½	10	01	14.10
436-252	2 x 2½	10	01	21.96
436-253	2 x 3	10	01	24.67
436-293	2½x 3	10	01	26.54
436-341	3 x 4	10	01	42.51


MPT x FPT

ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
446-074	½ x ¾	50	01	5.82


INSERT Barb x Slip

ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
474-007	¾	50	01	5.82
474-010	1	50	01	6.14
474-015	1½	25	01	10.85
474-020	2	25	01	20.12


SP x FPT

FITTING ADAPTER

Part No	Size (in)	Ctn Qty	Code	
478-010	1	25	11	*
478-012	1¼	25	11	*
478-015	1½	25	11	*
478-020	2	20	11	*

*See Swing Joint Price List: Discounts will vary.


INSERT x SP

INSERT ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
460-007	¾ x ¾ SP (½ Slip)	50	01	6.98
460-010	1 x 1 SP (¾ Slip)	50	01	7.32
460-015	1½ x 1½ SP	25	01	8.08

ASTM D 2609 - Plastic INSERT Fitting for Polyethylene (PE) pipe



SP x Slip

REDUCER BUSHING

Part No	Size (in)	Ctn Qty	Code	List Price
437-073	½ x ⅜	100	01	2.88
437-101	¾ x ½	100	01	1.59
437-130	1 x ½	100	01	2.88
437-131	1 x ¾	100	01	2.88
437-166	1¼ x ½	25	01	3.90
437-167	1¼ x ¾	25	01	3.90
437-168	1¼ x 1	25	01	3.90
437-209	1½ x ½	25	01	4.11
437-210	1½ x ¾	25	01	4.11
437-211	1½ x 1	25	01	4.11
437-212	1½ x 1¼	25	01	4.11
437-247	2 x ½	10	01	6.80
437-248	2 x ¾	10	01	6.80
437-249	2 x 1	10	01	6.80
437-250	2 x 1¼	10	01	6.80
437-251	2 x 1½	25	01	6.80
437-287	2½ x ½	10	01	10.87
437-288	2½ x ¾	10	01	10.87
437-289	2½ x 1	10	01	10.87
437-290	2½ x 1¼	10	01	10.87
437-291	2½ x 1½	10	01	10.87
437-292	2½ x 2	10	01	10.87
437-333	3 x ½*	10	01	21.46
437-334	3 x ¾*	10	01	16.08
437-335	3 x 1	10	01	16.08
437-336	3 x 1¼	10	01	16.08
437-337	3 x 1½	10	01	16.08
437-338	3 x 2	10	01	16.08
437-339	3 x 2½	10	01	16.08
437-415	4 X ½*	5	01	44.00
437-416	4 X ¾*	5	01	44.00
437-417	4 X 1*	5	01	43.55
437-418	4 X 1¼*	5	01	44.00
437-419	4 X 1½*	5	01	44.00
437-420	4 x 2	5	01	35.89
437-421	4 x 2½	5	01	35.89
437-422	4 x 3	5	01	35.89
437-488	5 x 3	5	01	50.49
437-490	5 x 4	4	01	50.49
437-524	6 x ¾*	5	01	103.45
437-525	6 x 1*	5	01	103.45
437-526	6 x 1¼*	5	01	103.45
437-527	6 x 1½*	5	01	103.45
437-528	6 x 2	5	01	88.84
437-529	6 x 2½*	5	01	88.96
437-530	6 x 3	5	01	88.84
437-532	6 x 4	5	01	88.84
437-534	6 x 5	5	01	88.84
437-578	8 x 2*	5	01	350.67
437-580	8 x 3*	5	01	350.67
437-582	8 x 4	5	01	310.07
437-583	8 x 5	4	01	405.03
437-585	8 x 6	5	01	310.07
437-623	10 x 3*	1	91	930.22
437-624	10 x 4*	1	91	930.22
437-626	10 x 6	1	91	843.76
437-628	10 x 8	1	91	843.76



SP x Slip

REDUCER BUSHING (Con't.)

Part No	Size (in)	Ctn Qty	Code	List Price
437-661	12 x 3*	1	91	1256.47
437-664	12 x 4*	1	91	1256.47
437-666	12 x 6*	1	91	1256.47
437-668	12 x 8	1	91	938.33
437-670	12 x 10	1	91	938.33

*Sized with BUSHING

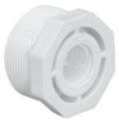


SP x FPT

REDUCER BUSHING

Part No	Size (in)	Ctn Qty	Code	List Price
438-071	½ x ⅛	100	01	3.32
438-072	½ x ¼	100	01	3.32
438-073	½ x ⅜	100	01	3.32
438-098	¾ x ¼	50	01	3.32
438-101	¾ x ½	100	01	2.52
438-129*	1 x ⅜	50	01	4.09
438-130	1 x ½	100	01	4.09
438-131	1 x ¾	100	01	4.09
438-166	1¼ x ½	25	01	6.22
438-167	1¼ x ¾	25	01	6.22
438-168	1¼ x 1	25	01	6.22
438-209	1½ x ½	25	01	7.18
438-210	1½ x ¾	25	01	7.18
438-211	1½ x 1	25	01	7.18
438-212	1½ x 1¼	25	01	7.18
438-245	2 x ¼	10	01	9.62
438-247	2 x ½	10	01	9.62
438-248	2 x ¾	10	01	9.62
438-249	2 x 1	10	01	9.62
438-250	2 x 1¼	10	01	9.62
438-251	2 x 1½	10	01	9.62
438-287	2 x 2½*	10	01	13.97
438-288	2½ x ¾*	10	01	13.97
438-289	2½ x 1	10	01	13.97
438-290	2½ x 1¼	10	01	13.97
438-291	2½ x 1½	10	01	13.97
438-292	2½ x 2	10	01	13.97
438-333	3 x ½*	10	01	17.93
438-334	3 X ¾*	10	01	16.04
438-335	3 x 1	10	01	16.08
438-336	3 x 1¼	10	01	16.08
438-337	3 x 1½	10	01	16.08
438-338	3 x 2	10	01	16.08
438-339	3 x 2½	10	01	16.08
438-415	4 X ½*	5	01	48.65
438-416	4 X ¾*	5	01	48.65
438-417	4 X 1*	5	01	48.65
438-418	4 X 1¼*	5	01	48.65
438-419	4 X 1½*	5	01	48.65
438-420	4 x 2	5	01	35.83
438-421	4 x 2½	5	01	35.83
438-422	4 x 3	5	01	35.83
438-490	5 x 4	5	01	69.89
438-528	6 x 2*	5	01	117.98
438-532	6 x 4	5	01	131.17

*Sized with BUSHING



MPT x FPT

THREADED REDUCER BUSHING

Part No	Size (in)	Ctn Qty	Code	List Price
439-005	½	50	01	2.80
439-052	⅜ x ¼	50	01	7.18
439-072	½ x ¼	50	01	7.18
439-073	½ x ⅜	50	01	7.18
439-098	¾ x ¼	50	01	4.46
439-099	¾ x ⅜	50	01	4.46
439-101	¾ x ½	50	01	4.46
439-130	1 x ½	50	01	6.22
439-131	1 x ¾	50	01	6.22
439-166	1¼ x ½	25	01	9.26
439-167	1¼ x ¾	25	01	9.26
439-168	1¼ x 1	25	01	9.26
439-198	Increasing 1½ x 2	10	01	14.65
439-209	1½ x ½	25	01	11.23
439-210	1½ x ¾	25	01	11.23
439-211	1½ x 1	25	01	11.23
439-212	1½ x 1¼	25	01	11.23
439-249	2 x 1	10	01	11.98
439-250	2 x 1¼	10	01	11.98
439-251	2 x 1½	10	01	11.98
439-292	2½ x 2	10	01	41.92
439-338	3 x 2	5	01	49.55

CAPS

Slip

CAP

Part No	Size (in)	Ctn Qty	Code	List Price
447-005	½	100	01	1.37
447-007	¾	100	01	1.59
447-010	1	50	01	2.52
447-012	1¼	25	01	3.55
447-015	1½	25	01	3.90
447-020	2	25	01	4.65
447-025	2 ½	10	01	14.90
447-030	3	10	01	16.22
447-040	4	5	01	36.95
447-050	5	5	01	62.08
447-060	6	5	01	88.60
447-080	8	4	01	222.50
447-100	10	1	91	397.71
447-120	12	1	91	516.28



FPT

CAP

Part No	Size (in)	Ctn Qty	Code	List Price
448-005	½	100	01	2.88
448-007	¾	100	01	3.32
448-010	1	50	01	5.03
448-012	1¼	25	01	5.96
448-015	1½	25	01	6.22
448-020	2	10	01	11.02
448-025	2 ½	10	01	16.22
448-030	3	10	01	21.23
448-040	4	5	01	37.30

PLUGS



SP

PLUG

Part No	Size (in)	Ctn Qty	Code	List Price
449-003	⅜	50	01	4.11
449-005	½	50	01	3.32
449-007	¾	50	01	3.90
449-010	1	50	01	4.65
449-012	1¼	25	01	6.22
449-015	1½	25	01	7.96
449-020	2	10	01	9.83
449-025	2½	10	01	16.77
449-030	3	10	01	22.17
449-040	4	5	01	50.24



MPT

PLUG

Part No	Size (in)	Ctn Qty	Code	List Price
450-005	½	50	01	4.11
450-007	¾	50	01	4.39
450-010	1	50	01	7.18
450-012	1¼	25	01	7.58
450-015	1½	25	01	8.08
450-020	2	10	01	10.45
450-025	2½	10	01	14.53
450-030	3	10	01	22.01
450-040	4	5	01	49.67

UNIONS



Slip x Slip

Pressure rated at 150 p.s.i. at 73.4°F. UNIONs are listed as NSF 61

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
457-005	½	10	01	15.36
457-007	¾	10	01	17.41
457-010	1	10	01	17.96
457-012	1¼	5	01	57.87
457-015	1½	5	01	60.28
457-020	2	5	01	81.24
457-030	3	5	01	181.74



FPT x FPT

Pressure rated at 150 p.s.i. at 73.4°F. UNIONs are listed as NSF 61

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
458-005	½	10	01	17.14
458-007	¾	10	01	28.70
458-010	1	10	01	39.17
458-012	1¼	5	01	67.24
458-015	1½	5	01	68.72
458-020	2	5	01	84.41
458-030	3	5	01	192.91
458-040	4	4	01	256.03



Buna-N (Nitrile) (Current style)

UNION O-RING

Part No	Size (in)	Ctn Qty	Code	List Price
40116	½	1	01	5.03
40119	¾	1	01	6.13
40119Q	¾	1	01	4.85
40123	1	1	01	7.08
40128	1¼	1	01	8.08
40224	1½	1	01	9.09
40228	2	1	01	10.18

WYES



Slip

WYE

Part No	Size (in)	Ctn Qty	Code	List Price
475-015	1½ (235psi)	20	01	28.15
475-020	2 (235psi)	10	01	84.54
475-030	3 (150psi)	5	01	142.38
475-040	4 (150psi)	6	01	268.57
475-060	6 (150psi)	3	01	568.22
475-080	8 (100psi)	1	01	913.98

235 psi working pressure
150 psi working pressure
100 working pressure



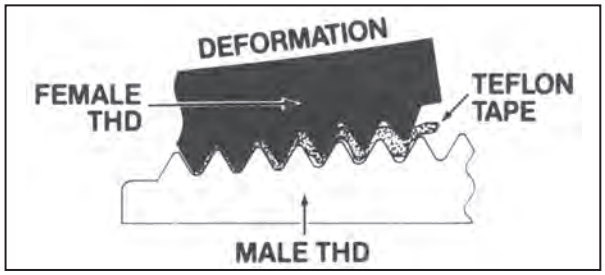
Slip

REDUCING WYE

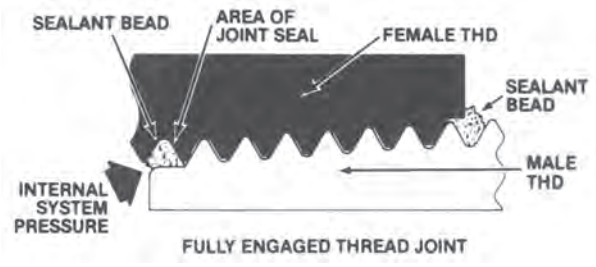
Part No	Size (in)	Ctn Qty	Code	List Price
475-209*	1½ x 1½ x ½ (235psi)	20	01	40.99
475-210*	1½ x 1½ x ¾ (235psi)	20	01	40.99
475-211*	1½ x 1½ x 1 (235psi)	20	01	40.99
475-212*	1½ x 1½ x 1¼ (235psi)	20	01	40.99
475-247*	2 x 2 x ½ (235psi)	10	01	93.15
475-248*	2 x 2 x ¾ (235psi)	10	01	93.15
475-249*	2 x 2 x 1 (235psi)	10	01	93.15
475-250*	2 x 2 x 1¼ (235psi)	10	01	93.15
475-251*	2 x 2 x 1½ (150psi)	10	01	93.15
475-334*	3 x 3 x ¾ (150psi)	5	01	161.72
475-335*	3 x 3 x 1 (150psi)	5	01	161.72
475-336*	3 x 3 x 1¼ (150psi)	5	01	161.72
475-337*	3 x 3 x 1½ (150psi)	5	01	161.72
475-338*	3 x 3 x 2 (150psi)	5	01	161.72
475-339*	3 x 3 x 2½ (150psi)	5	01	161.72
475-420*	4 x 4 x 2 (150psi)	6	01	310.70
475-421*	4 x 4 x 2½ (150psi)	6	01	310.70
475-422	4 x 4 x 3 (150psi)	6	01	292.01
475-528*	6 x 6 x 2 (150psi)	5	01	670.57
475-529*	6 x 6 2½ (150psi)	5	01	670.57
475-530*	6 x 6 x 3 (150psi)	5	01	670.57
475-532	6 x 6 x 4 (150psi)	5	01	730.58
475-582	8 x 8 x 4 (100psi)	2	01	1251.46
475-585*	8 x 8 x 6 (100psi)	1	01	1251.46

* Sized with Bushing
235 psi working pressure
150 psi working pressure
100 psi working pressure

Why Sealant is Recommended in Threaded Joints



Teflon tape, when compressed between male and female threads in PVC fittings joints, can cause deformation, leading to leakage, and possibly, to cracked female fittings.



Sealant, when compressed between threads, flows outward to achieve an effective seal against leakage in PVC fittings.

DO NOT USE LASCO FITTINGS FOR COMPRESSED AIR OR GASES.
DO NOT TEST PVC PIPING SYSTEMS WITH COMPRESSED AIR OR GASES.
DO NOT USE FITTINGS WITH LIQUIDS NOT RECOMMENDED BY LASCO.
MODIFICATIONS OF FITTINGS VOIDS THE WARRANTY.



⚠ WARNING:
USE OF COMPRESSED AIR OR GAS IN PVC/CPVC PIPE AND FITTINGS CAN RESULT IN EXPLOSIVE FAILURES AND CAUSE SEVERE INJURY OR DEATH.

STANDARDS AND SPECIFICATIONS – SCHEDULE 40

ASTM D-1784	–	Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly Vinyl Chloride) (CPVC) Compounds.
ASTM D-2466	–	Socket type Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40.
ASTM F-1970	–	Standard Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems.
MATERIAL	–	LASCO Schedule 40 Fittings are produced from PVC TYPE 1, CELL Classification 12454-B.
	–	O-RINGs are produced from a Buna-N (Nitrile) material.
LISTINGS	–	NSF/ANSI Standard 61, Annex G: Drinking Water System Components Weighted average lead content of ≤0.25% and is in compliance with California's Health & Safety Code Section 116875 (commonly known as AB1953) NSF/ANSI Standard 14: Plastics Piping system Components and Related Materials. Includes /ANSI Standard 61, Annex G

American Granby

CUSTOMER SERVICE
Phone: (315) 451-1100 or (800) 776-2266 | Fax: (800) 729-3299
7652 Morgan Road • Liverpool, New York 13090

PRICE GROUP	DESCRIPTION	DISCOUNT MULTIPLIER
02	SCH 80 PVC through 8″	
92	SCH 80 PVC 10" AND LARGER	
VB	GASKET for FLANGE	

American Granby
Phone: (315) 451-1100 or (800) 776-2266
Fax: (800) 729-3299
7652 Morgan Road • Liverpool, New York 13090

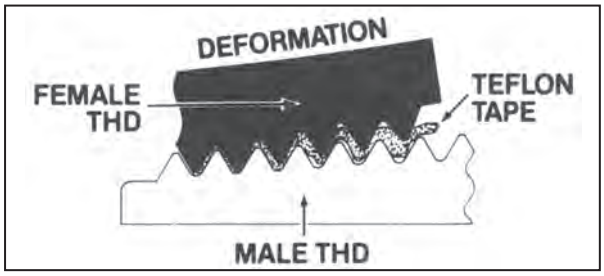
PRODUCTS | PRICE LIST

SCHEDULE 80 PVC PRESSURE FITTINGS

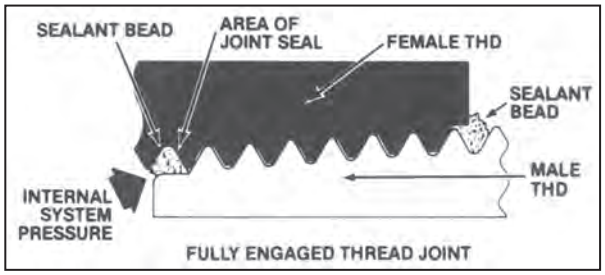
INCLUDES: SCHEDULE 80 PVC 1/4″ TO 12″

AG80P | EFFECTIVE MAY 1, 2026

Why Westlake Pipe & Fittings Recommends Sealant in Threaded Joints



Teflon tape, when compressed between male and female threads in PVC fittings joints, can cause deformation, leading to leakage, and possibly, to cracked female fittings.



Sealant, when compressed between threads, flows outward to achieve an effective seal against leakage in PVC fittings. Use a non-hardening thread sealant that is labeled safe for PVC.

⚠ **WARNING:** care must be taken to avoid overtightening during assembly of threaded joints – do not overtorque. Generally 1 to 2 turns beyond finger tight is all that is required to obtain a leak-tight seal for most sizes. Do not use both a tape sealant and a paste sealant simultaneously. Contact Westlake Pipe & Fittings Technical Services for additional information.

! NOTE: Some oil based thread pastes and pipe joint compounds contain ingredients that attack PVC or CPVC materials. Suitability of thread paste sealants must be clearly established prior to use. Contact thread paste manufacturer confirm chemical compatibility prior to use.

FLANGE INSTALLATION GUIDELINES

FLANGED CONNECTIONS: Properly installed flanged connections provide a transition fitting to join alternate piping materials, a mechanical means to connect to valves and other equipment, and when joining piping systems where frequent dismantling may be required. The grooved face of the flange provides a liquid tight seal on the gasket when flanges are properly assembled, supported, and proper torque is applied to the bolts.

GASKETS: Full face 1/8" thick elastomeric material with a Shore A Durometer hardness of 50-70; gasket material selected must be compatible with application and fluids conveyed. Variations in gasket material and shore hardness may affect sealing torque required.

FLANGE DIMENSIONS: Flange ring bolt hole dimensions conform to ANSI B 16.5 Class 150 bolt pattern. Threaded flange hubs are tapered iron pipe size threads per ANSI B2.1. Socket flange hubs conform to ASTM D2467 tapered socket dimensions.

PRESSURE RATING: Maximum pressure rating for molded flanges ½" thru 12" diameter 150psi non-shock at 73°F. Appropriate temperature de-rating factors must be applied when working at elevated temperatures greater than 73°F.

BOLTS AND BOLT TORQUE: Select proper bolt size, quantity, length, and washers for the specific sizes of flanges and equipment being assembled. Always use two (2) wide flat washers per bolt (one under the head and one under the nut). Threads should be clean and well lubricated.

⚠WARNING: USE ONLY LUBRICANTS COMPATIBLE WITH PVC OR CPVC MATERIAL.

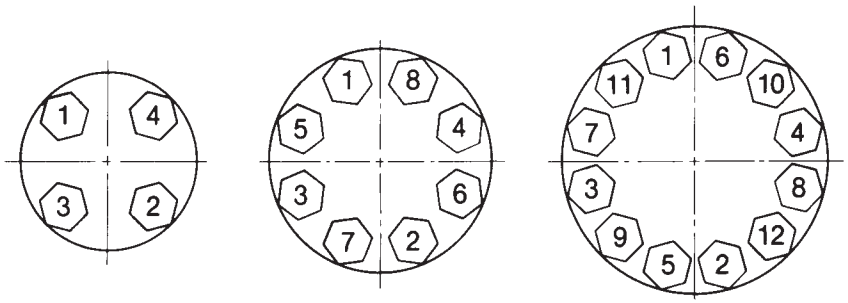
FLANGE ASSEMBLY:

Once the flange hub is correctly joined to the pipe and allowed to cure properly, and the piping system is supported properly, the method for joining two flanges is as follows:

1. Make sure the system is properly supported and aligned, and that mating surfaces of flanges being joined are not separated. Do not use bolts to align system or to pull flanges together.
   ⚠WARNING: STRESS INDUCED FROM MISALIGNMENT OR IMPROPER SUPPORT WILL DAMAGE THE FLANGE.
2. With thegasket in place, align all bolt holes of mating flanges by rotating the flange ring into position.
3. Insert all bolts, flat washers (two standard flat washers per bolt), and nuts.
4. Be certain the faces of the mating surfaces are flush against the gasket prior to bolting down the flanges.
5. Using the illustrated bolt-tightening sequence shown below, tighten all the nuts by hand until snug. Once snug by hand, tighten the bolts diametrically opposite each other (180°) using the sequence shown with a torque wrench. Apply uniform pressure across the flange by tightening in stages of 5 ft-lb increments until final torque values shown in the following table are obtained. Do not over tighten.
   ⚠WARNING!: OVER TORQUING WILL DAMAGE THE FLANGE.
6. Care must be taken to avoid bending stresses to the flange when mating to raised faced flange, metallic flange, stationary flanged objects or wafer-style valves. The plastic flange, attached pipe, fitting, and or valve must be supported properly to eliminate stress on the plastic flange.

RECOMMENDED FLANGE BOLT TORQUE

FOR WESTLAKE PIPE & FITTINGS PLASTIC FLANGES



! NOTE: Bolt length based on connecting two (2) Westlake Pipe & Fittings flanges, two (2) flat washers, and nut. Actual Bolt lengths required and torque values necessary to seal will vary based on type of equipment being joined. Adjustments will need to be made when assembling flanges to accommodate valves and other equipment.

Reference ASME B16.5 and ASME NM-1 as applicable. Contact Westlake Pipe & Fittings Technical Services for additional information.

! NOTE: certain applications may require flange bolts to be re-torqued at least 24 hours after gasket installation depending on flange materials being joined (i.e. transition from PVC to HDPE), and gasket material selected. Work with gasket manufacturer for proper material selection and other gasket design recommendations prior to installation. When evaluating gasket material, be certain to include any surge pressure that could be caused by opening valves and starting pumps.

Flange Size	No. of Bolt Holes	Bolt Dia. (in.)	Min. Bolt Length (in.)	Recommended Torque (Ft./Lbs.)
½	4	½	2	15-20
¾	4	½	2	15-20
1	4	½	2¼	15-20
1¼	4	½	2¼	15-20
1½	4	½	2½	15-20
2	4	⅝	3	20-30
2½	4	⅝	3¼	20-30
3	4	⅝	3¼	20-30
4	8	⅝	3½	20-30
5	8	¾	3¾	25-35
6	8	¾	4	33-50
8	8	¾	4½	33-50
10	12	⅞	5	53-75
12	12	⅞	5	53-75

Use primer and appropriate heavy-bodied solvent cement for materials being joined and allow to cure properly prior to flange assembly - follow Westlake Pipe & Fittings solvent welding instructions and/or contact Westlake Pipe & Fittings Technical Services for additional information.



Slip x Slip x Slip

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
801-002	¼	25	02	21.99
801-003	⅜	50	02	21.99
801-005	½	25	02	21.99
801-007	¾	25	02	23.01
801-010	1	25	02	28.83
801-012	1¼	10	02	79.13
801-015	1½	10	02	79.13
801-020	2	10	02	98.97
801-025	2½	5	02	107.59
801-030	3	5	02	134.48
801-040	4	5	02	155.84
801-060	6	4	02	532.01
801-080	8	2	02	1233.89
801-100	10	1	92	4076.51
801-120	12	1	92	5757.16



Slip x Slip x Slip

TEE, REDUCING

Part No	Size (in)	Ctn Qty	Code	List Price
801-072	½ x ½ x ¼	25	02	26.47
801-073	½ x ⅜	25	02	26.47
801-074	½ x ¾*	25	02	34.92
801-101	¾ x ¾ x ½	25	02	16.86
801-130	1 x 1 x ½	25	02	24.34
801-131	1 x 1 x ¾	25	02	24.34
801-157	1¼ x1 x ¾*	15	02	40.16
801-158	1¼ x 1 x 1*	15	02	40.16
801-159	1¼ x 1 x 1¼*	15	02	40.16
801-166	1¼ x 1¼ x ½*	10	02	67.15
801-167	1¼ x 1¼ x ¾*	10	02	52.84
801-168	1¼ x 1¼ x 1	15	02	52.84
801-202	1½ x 1¼ x 1*	10	02	50.22
801-209	1½ x 1½ x ½*	10	02	52.84
801-210	1½ x 1½ x ¾	10	02	52.84
801-211	1½ x 1½ x 1	10	02	52.84
801-212	1½ x 1½ x 1¼	10	02	52.84
801-247	2 x 2 x ½	10	02	66.95
801-248	2 x 2 x ¾	10	02	66.95
801-249	2 x 2 x 1	10	02	66.95
801-250	2 x 2 x 1¼	10	02	78.38
801-251	2 x 2 x 1½	10	02	66.95
801-289	2½ x 2½ x 1*	10	02	87.33
801-290	2½ x 2½ x 1¼	5	02	87.33
801-291	2½ x 2½ x 1½	5	02	87.33
801-292	2½ x 2½ x 2	5	02	87.33
801-333	3 x 3 x ½*	5	02	122.72
801-334	3 x 3 x ¾*	5	02	138.50
801-335	3 x 3 x 1*	5	02	122.72
801-336	3 x 3 x 1¼ *	5	02	122.72
801-337	3 x 3 x 1½	5	02	122.73
801-338	3 x 3 x 2	5	02	122.73
801-339	3 x 3 x 2½*	6	02	122.72
801-415	4 x 4 x ½*	5	02	242.68
801-416	4 x 4 x ¾*	5	02	242.68



Slip x Slip x Slip

TEE, REDUCING con't.

Part No	Size (in)	Ctn Qty	Code	List Price
801-417	4 x 4 x 1*	5	02	242.68
801-418	4 x 4 x 1¼*	5	02	242.68
801-419	4 x 4 x 1½*	5	02	198.33
801-420	4 x 4 x 2	5	02	198.33
801-421	4 x 2½*	5	02	580.95
801-422	4 x 4 x 3	5	02	198.33
801-525	6 x 6 x 1*	6	02	396.24
801-526	6 x 6 x 1¼*	4	02	515.73
801-527	6 x 6 x 1½*	4	02	515.73
801-528	6 x 6 x 2*	6	02	396.24
801-529	6 x 6 x 2½*	4	02	515.32
801-530	6 x 6 x 3	5	02	396.24
801-532	6 x 6 x 4	5	02	532.01
801-580	8 x 8 x 3**	1	02	1440.50
801-585	8 x 8 x 6*	2	02	1233.89
801-623	10 x 10 x 3*	1	92	3798.10
801-624	10 x 10 x 4*	1	92	3798.10
801-626	10 x 10 x 6*	1	92	3587.34
801-628	10 x 10 x 8*	1	92	4221.79
801-666	12 x 12 x 6*	1	92	6496.83
801-668	12 x 12 x 8*	1	92	5336.88
801-670	12 x 12 x 10*	1	92	7146.86

*Sized with BUSHING
** Sized with 2 BUSHINGS



Slip x Slip x Slip

BULLHEAD TEE

Part No	Size (in)	Ctn Qty	Code	List Price
801-536	6 x 6 x 8*	5	02	2338.35
801-537	6 x 6 x 10*	5	92	6713.89
801-589	8 x 8 x 10*	5	92	6713.89
801-591	8 x 8 x 12*	5	92	8802.35
801-632	10 x 10 x 12*	5	92	8842.99

*Sized with BUSHING



Slip x Slip x FPT

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
802-005	½	25	02	34.80
802-007	¾	25	02	44.97
802-010	1	25	02	52.61
802-012	1¼	10	02	56.22
802-015	1½	5	02	66.05
802-020	2	5	02	81.50



Slip x Slip x FPT

TEE, REDUCING

Part No	Size (in)	Ctn Qty	Code	List Price
802-072	½ x ½ x ¼*	25	02	36.87
802-101	¾ x ¾ x ½	15	02	31.91
802-130	1 x 1 x ½*	50	02	33.16
802-131	1 x 1 x ¾ *	15	02	42.61
802-166	1¼ x 1¼ x ½*	25	02	54.23
802-167	1¼ x 1¼ x ¾*	15	02	54.23
802-168	1¼ x 1¼ x 1*	10	02	107.66
802-209	1½ x 1½ x ½*	25	02	67.15
802-210	1½ x 1½ x ¾*	20	02	67.15
802-211	1½ x 1½ x 1*	10	02	67.15
802-212	1½ x 1½ x 1¼*	10	02	67.15
802-247	2 x 2 x ½*	10	02	76.71
802-248	2 x 2 x ¾*	10	02	76.71
802-249	2 x 2 x 1*	10	02	102.05
802-250	2 x 2 x 1¼	10	02	102.05
802-251	2 x 2 x 1½	10	02	142.32
802-291	2½ x 2½ x 1½	5	02	176.63
802-292	2½ x 2½ x 2*	10	02	197.17
802-333	3 x 3 x ½*	5	02	138.50
802-334	3 x 3 x ¾*	5	02	138.50
802-335	3 x 3 x 1*	5	02	166.58
802-336	3 x 3 x 1¼*	5	02	166.58
802-337	3 x 3 x 1½*	5	02	166.58
802-338	3 x 3 x 2*	5	02	212.72
802-339	3 x 3 x 2½*	5	02	299.14
802-415	4 x 4 x ½*	5	02	243.73
802-416	4 x 4 x ¾*	5	02	243.73
802-417	4 x 4 x 1*	5	02	243.73
802-418	4 x 4 x 1¼*	5	02	243.73
802-419	4 x 4 x 1½*	5	02	243.73
802-420	4 x 4 x 2*	5	02	364.27
802-421	4 x 4 x 2½*	5	02	364.27
802-422	4 x 4 x 3*	5	02	407.83
802-528	6 x 6 x 2*	1	02	1032.76
802-529	6 x 6 x 2½*	4	02	567.10
802-530	6 x 6 x 3*	5	02	791.63
802-532	6 x 6 x 4*	1	02	1279.77

*Sized with BUSHING



FPT x FPT x FPT

TEE

Part No	Size (in)	Ctn Qty	Code	List Price
805-002	¼	25	02	25.40
805-003	⅜	25	02	25.40
805-005	½	25	02	25.40
805-007	¾	25	02	28.26
805-010	1	25	02	62.39
805-012	1¼	10	02	66.14
805-015	1½	10	02	80.18
805-020	2	10	02	86.17
805-025	2½	5	02	313.91
805-030	3	5	02	327.86
805-040	4	5	02	532.83

ELBOWS



Slip x Slip

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
806-002	¼	25	02	7.77
806-003	⅜	25	02	7.77
806-005	½	25	02	7.77
806-007	¾	25	02	9.93
806-010	1	25	02	16.08
806-012	1¼	10	02	21.48
806-015	1½	10	02	23.00
806-020	2	10	02	27.82
806-025	2½	5	02	65.03
806-030	3	5	02	73.09
806-040	4	5	02	111.16
806-060	6	4	02	316.36
806-080	8	2	02	871.96
806-100	10	1	92	3902.36
806-120	12	1	92	5087.03



Slip x Slip

90° ELL, REDUCING

Part No	Size (in)	Ctn Qty	Code	List Price
806-052	⅜ x ¼*	25	02	37.80
806-072	½ x ¼*	25	02	34.88
806-073	½ x ⅜*	25	02	34.88
806-101	¾ x ½*	25	02	36.42
806-130	1 x ½*	25	02	44.97
806-131	1 x ¾*	25	02	42.52
806-167	1¼ x ¾*	10	02	77.74
806-168	1¼ x 1*	10	02	76.78
806-209	1½ x ½*	10	02	57.26
806-210	1½ x ¾*	10	02	57.26
806-211	1½ x 1*	10	02	53.55
806-212	1½ x 1¼*	10	02	51.61
806-247	2 x ½*	10	02	64.49
806-248	2 x ¾*	10	02	63.03
806-249	2 x 1*	10	02	66.92
806-250	2 x 1¼*	10	02	66.42
806-251	2 x 1½*	10	02	64.49
806-289	2½ x 1*	5	02	132.39
806-290	2½ x 1¼*	5	02	147.02
806-291	2½ x 1½*	5	02	147.02
806-292	2½ x 2*	5	02	154.36
806-335	3 x 1*	5	02	182.92
806-336	3 x 1¼*	5	02	196.60
806-337	3 x 1½*	5	02	188.29
806-338	3 x 2*	5	02	202.34
806-339	3 x 2½*	5	02	197.09
806-420	4 x 2*	5	02	246.54
806-422	4 x 3*	5	02	260.68
806-528	6 x 2*	4	02	694.16
806-530	6 x 3*	4	02	692.68
806-532	6 x 4*	4	02	690.74
806-535	6 x 8*	2	02	1453.97

*Sized with BUSHING



Slip x FPT

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
807-005	½	25	02	30.63
807-007	¾	25	02	36.04
807-010	1	25	02	39.00
807-012	1¼	10	02	44.97
807-015	1½	10	02	53.64
807-020	2	10	02	69.47



Slip x FPT

90° ELL, REDUCING

Part No	Size (in)	Ctn Qty	Code	List Price
807-052	⅜ x ¼*	25	02	37.80
807-072	½ x ¼*	25	02	36.83
807-101	¾ x ½*	25	02	36.42
807-130	1 x ½*	25	02	45.41
807-131	1 x ¾*	25	02	43.48
807-166	1¼ X ½*	10	02	68.85
807-167	1¼ x ¾*	10	02	68.35
807-168	1¼ x 1*	10	02	73.73
807-209	1½ x ½*	10	02	46.42
807-210	1½ x ¾*	10	02	44.46
807-211	1½ x 1*	10	02	49.96
807-212	1½ x 1¼*	10	02	48.00
807-247	2 x ½*	10	02	59.41
807-249	2 x 1*	10	02	60.87
807-250	2 x 1¼*	10	02	61.37
807-251	2 x 1½*	10	02	57.47
807-292	2½ x 1¼*	5	02	134.00
807-338	3 x 2*	5	02	176.91
807-339	3 x 2½*	5	02	164.72
807-420	4 x 2*	5	02	234.53
807-422	4 x 3*	5	02	245.26
807-532	6 x 4*	4	02	801.99

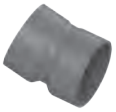
*Sized with BUSHING



FPT x FPT

90° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
808-002	¼	25	02	19.33
808-003	⅜	25	02	19.33
808-005	½	25	02	18.03
808-007	¾	25	02	22.48
808-010	1	25	02	28.26
808-012	1¼	10	02	30.45
808-015	1½	10	02	43.23
808-020	2	10	02	48.64
808-025	2½	5	02	189.49
808-030	3	5	02	305.55
808-040	4	5	02	537.62



Slip x Slip

11¼° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
861-100*	10	1	92	1533.80
861-120*	12	1	92	2245.30

* Fabricated from Pipe



Slip x Slip

22½° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
865-020	2	50	02	77.12
865-030	3	50	02	197.64
865-100*	10	1	92	1533.80
865-120*	12	1	92	2245.30

Note: Meets ASTM D-2467 socket and wall dimensions, but fitting pattern is not in D-2467. Working pressure rating of 150 p.s.i. Not NSF Standard 14 Listed.
* Fabricated from Pipe



Slip x Slip

30° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
815-060	6	8	02	447.17



Slip x Slip

45° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
817-002	¼	25	02	27.88
817-003	⅜	50	02	27.88
817-005	½	25	02	14.65
817-007	¾	25	02	22.40
817-010	1	25	02	33.59
817-012	1¼	10	02	42.79
817-015	1½	10	02	50.62
817-020	2	10	02	65.59
817-025	2½	5	02	137.74
817-030	3	5	02	167.67
817-040	4	5	02	301.89
817-060	6	4	02	380.17
817-080	8	2	02	824.24
817-100	10	1	92	2595.07
817-120	12	1	92	3347.46



FPT x FPT

45° ELL

Part No	Size (in)	Ctn Qty	Code	List Price
819-005	½	25	02	28.92
819-007	¾	20	02	31.10
819-010	1	25	02	39.08
819-012	1¼	15	02	59.54
819-015	1½	10	02	74.86
819-020	2	5	02	111.01
819-025	2½	5	02	219.64
819-030	3	5	02	353.25
819-040	4	5	02	506.93

CROSS



Slip x Slip
x Slip x Slip

CROSS

Part No	Size (in)	Ctn Qty	Code	List Price
820-015	1½	25	02	191.89
820-020	2	4	02	213.75
820-030	3	5	02	363.54
820-040	4	3	02	632.52



Slip x Slip
x Slip x Slip

CROSS, REDUCING

Part No	Size (in)	Ctn Qty	Code	List Price
820-209	1½ X ½*	20	02	233.00
820-210	1½ X ¾*	15	02	233.00
820-211	1½ X 1*	25	02	233.00
820-212	1½ X 1¼*	25	02	233.00

*Sized with BUSHING

COUPLINGS



Slip x Slip

COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
829-002	¼	25	02	22.58
829-003	⅜	25	02	22.58
829-005	½	25	02	14.10
829-007	¾	25	02	19.10
829-010	1	25	02	19.62
829-012	1¼	10	02	29.89
829-015	1½	10	02	32.23
829-020	2	10	02	34.60
829-025	2½	5	02	85.15
829-030	3	5	02	97.78
829-040	4	5	02	122.43
829-060	6	5	02	263.46
829-080	8	4	02	358.58
829-100	10	1	92	1230.65
829-120	12	1	92	1418.32



Slip x Slip

COUPLING, REDUCING

Part No	Size (in)	Ctn Qty	Code	List Price
829-052	⅜ x ¼*	25	02	22.58
829-072	½ x ¼	25	02	22.58
829-101	¾ x ½	20	02	17.26
829-131	1 x ¾	25	02	25.14
829-166	1¼ x ½*	25	02	51.09
829-167	1¼ x ¾*	25	02	51.09
829-168	1¼ x 1	10	02	51.09
829-209	1½ x ½*	25	02	53.48
829-210	1½ x ¾*	25	02	53.48
829-211	1½ x 1	10	02	66.05



Slip x Slip

COUPLING, REDUCING con't.

Part No	Size (in)	Ctn Qty	Code	List Price
829-212	1½ x 1¼	10	02	66.05
829-247	2 x ½*	25	02	60.30
829-248	2 x ¾*	10	02	60.30
829-249	2 x 1*	25	02	60.30
829-250	2 x 1¼*	10	02	60.30
829-251	2 x 1½*	5	02	60.30
829-290	2½ x 1¼*	10	02	113.95
829-291	2½ x 1½*	10	02	80.42
829-292	2½ x 2*	10	02	80.42
829-335	3 x 1*	8	02	183.96
829-336	3 x 1¼*	6	02	183.96
829-337	3 x 1½*	8	02	183.96
829-338	3 x 2	5	02	148.12
829-339	3 x 2½*	10	02	211.20
829-417	4 x 1*	6	02	305.92
829-419	4 x 1½*	6	02	305.92
829-420	4 x 2*	6	02	282.41
829-421	4 x 2½*	4	02	282.41
829-422	4 x 3	5	02	279.07
829-528	6 x 2*	6	02	698.73
829-530	6 x 3*	5	02	705.88
829-532	6 x 4*	5	02	569.21
829-585	8 x 6	2	02	1723.92
829-619	10 x 2*	1	92	2302.53
829-623	10 x 3*	1	92	2138.77
829-624	10 x 4*	1	92	2018.24
829-626	10 x 6*	1	92	2325.97
829-628	10 x 8*	1	92	2018.24
829-668	12 x 8*	1	92	2296.57
829-670	12 x 10*	1	92	2296.57

*Sized with BUSHING



FPT x FPT

COUPLING

Part No	Size (in)	Ctn Qty	Code	List Price
830-002	¼	25	02	16.89
830-005	½	25	02	15.73
830-007	¾	25	02	22.54
830-010	1	25	02	24.15
830-012	1¼	10	02	29.89
830-015	1½	10	02	66.45
830-020	2	10	02	69.80
830-025	2½	5	02	166.61
830-030	3	5	02	195.34
830-040	4	5	02	338.27

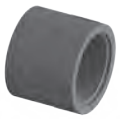


FPT x FPT

COUPLING (SPECIAL REINFORCED)

Part No	Size (in)	Ctn Qty	Code	List Price
830-005SR	½	25	02	35.88
830-007SR	¾	25	02	51.18
830-010SR	1	25	02	54.54
830-012SR	1¼	10	02	68.20
830-015SR	1½	10	02	150.55
830-020SR	2	10	02	157.97

ADAPTERS



Slip x FPT

FEMALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
835-002	¼	50	02	23.86
835-005	½	25	02	13.18
835-007	¾	25	02	19.62
835-010	1	25	02	28.91
835-012	1¼	10	02	46.82
835-015	1½	10	02	57.39
835-020	2	10	02	100.15
835-025	2½	5	02	158.12
835-030	3	5	02	178.00
835-040	4	5	02	305.97



Slip x FPT

FEMALE ADAPTER (SPECIAL REINFORCED)

Part No	Size (in)	Ctn Qty	Code	List Price
835-005SR	½	25	02	30.22
835-007SR	¾	25	02	44.04
835-010SR	1	25	02	65.37
835-012SR	1¼	10	02	105.75
835-015SR	1½	10	02	130.15
835-020SR	2	10	02	190.64



MPT x Slip

MALE ADAPTER

Part No	Size (in)	Ctn Qty	Code	List Price
836-005	½	25	02	16.52
836-007	¾	25	02	18.17
836-010	1	25	02	31.47
836-012	1¼	10	02	36.77
836-015	1½	10	02	52.84
836-020	2	10	02	76.43
836-025	2½	5	02	86.86
836-030	3	5	02	96.39
836-040	4	5	02	171.54
836-060	6	5	02	381.02



MPT x Slip

MALE ADAPTER, REDUCING

Part No	Size (in)	Ctn Qty	Code	List Price
836-102	¾ x 1	50	02	38.90
836-213	1½ x 2	10	02	93.05
836-251	2 x 1½	5	02	105.61

BUSHINGS



SP x Slip

REDUCER BUSHING (FLUSH STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
837-052	⅜ x ¼	25	02	12.45
837-072	½ x ¼	25	02	12.45
837-073	½ x ⅜	25	02	12.45
837-101	¾ x ½	25	02	4.52
837-129	1 x ⅜*	50	02	25.97
837-130	1 x ½	25	02	13.04
837-131	1 x ¾	25	02	13.04
837-166	1¼ x ½	10	02	20.43
837-167	1¼ x ¾	10	02	20.43
837-168	1¼ x 1	10	02	20.43
837-209	1½ x ½	10	02	27.82
837-210	1½ x ¾	10	02	27.82
837-211	1½ x 1	10	02	27.82
837-212	1½ x 1¼	10	02	27.82
837-247	2 x ½	10	02	39.60
837-248	2 x ¾	10	02	39.60
837-249	2 x 1	10	02	39.60
837-250	2 x 1¼	10	02	39.60
837-251	2 x 1½	10	02	39.60
837-287	2½ x ½*	10	02	92.04
837-288	2½ x ¾*	10	02	92.04
837-289	2½ x 1	10	02	68.84
837-290	2½ x 1¼	10	02	68.84
837-291	2½ x 1½	10	02	68.84
837-292	2½ x 2	10	02	68.84
837-333	3 x ½*	10	02	126.74
837-334	3 x ¾*	10	02	122.67
837-335	3 x 1	5	02	109.18
837-336	3 x 1¼	5	02	109.18
837-337	3 x 1½	5	02	109.18
837-338	3 x 2	5	02	109.18
837-339	3 x 2½	5	02	109.18
837-415	4 x ½*	6	02	194.07
837-416	4 x ¾*	6	02	194.07
837-417	4 x 1*	6	02	194.07
837-418	4 x 1¼*	6	02	194.07
837-419	4 x 1½*	6	02	194.07
837-420	4 x 2	5	02	151.16
837-421	4 x 2½	5	02	151.16
837-422	4 x 3	5	02	151.16
837-524	6 x ¾*	5	02	252.32
837-525	6 x 1*	5	02	239.70
837-526	6 x 1¼*	5	02	252.32
837-527	6 x 1½*	5	02	252.32
837-528	6 x 2	5	02	210.16
837-529	6 x 2½*	5	02	325.87
837-530	6 x 3	5	02	210.16
837-532	6 x 4	5	02	210.16
837-578	8 x 2*	4	02	736.23
837-580	8 x 3*	4	02	736.23
837-582	8 x 4*	4	02	511.36
837-585	8 x 6	5	02	511.30
837-624	10 x 4*	1	92	1423.65



SP x Slip

REDUCER BUSHING (FLUSH STYLE) con't.

Part No	Size (in)	Ctn Qty	Code	List Price
837-626	10 x 6	1	92	1201.21
837-628	10 X 8	1	92	1201.21
837-666	12 x 6*	1	92	1938.30
837-668	12 x 8	1	92	1388.18
837-670	12 x 10	1	92	1388.18

*Sized with Bushing



SP x FPT

REDUCER BUSHING (FLUSH STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
838-052	⅜ x ¼	25	02	12.45
838-072	½ x ¼	25	02	12.45
838-098	¾ x ¼	50	02	8.20
838-101	¾ x ½	25	02	8.20
838-128	1 x ¼*	50	02	14.27
838-130	1 x ½	25	02	13.04
838-131	1 x ¾	25	02	13.04
838-166	1¼ x ½	25	02	26.41
838-167	1¼ x ¾	10	02	26.41
838-168	1¼ x 1	10	02	26.41
838-207	1½ x ¼	25	02	31.47
838-209	1½ x ½	10	02	33.13
838-210	1½ x ¾	10	02	33.13
838-211	1½ x 1	10	02	33.13
838-212	1½ x 1¼	10	02	33.13
838-247	2 x ½	10	02	40.48
838-248	2 x ¾	10	02	40.48
838-249	2 x 1	10	02	40.48
838-250	2 x 1¼	10	02	40.48
838-251	2 x 1½	10	02	40.48
838-287	2½ x ½*	10	02	85.71
838-288	2½ x ¾*	10	02	85.71
838-289	2½ x 1*	10	02	158.72
838-290	2½ x 1¼*	10	02	85.71
838-291	2½ x 1½*	10	02	85.71
838-292	2½ x 2	10	02	85.70
838-334	3 x ¾*	10	02	158.72
838-335	3 x 1*	10	02	158.72
838-336	3 x 1¼*	10	02	158.72
838-337	3 x 1½ *	10	02	158.72
838-338	3 x 2	5	02	158.72
838-339	3 x 2½	5	02	158.72
838-419	4 x 1½*	6	02	306.80
838-420	4 x 2	5	02	243.83
838-421	4 x 2½*	6	02	243.83
838-422	4 x 3	5	02	243.83
838-528	6 x 2*	5	02	280.86
838-530	6 x 3*	5	02	280.86
838-532	6 x 4	5	02	280.88

*Sized with Bushing



MPT x FPT

REDUCER BUSHING (FLUSH STYLE) con't.

Part No	Size (in)	Ctn Qty	Code	List Price
839-052	⅜ x ¼	25	02	28.40
839-072	½ x ¼	25	02	28.40
839-073	½ x ⅜	25	02	28.40
839-098	¾ x ¼	25	02	21.17
839-099	¾ x ⅜	25	02	21.17
839-101	¾ x ½	25	02	17.43
839-128	1 x ¼	25	02	34.23
839-129	1 x ⅜	25	02	27.33
839-130	1 x ½	25	02	27.33
839-131	1 x ¾	25	02	27.33
839-166	1¼ x ½	10	02	28.98
839-167	1¼ x ¾	10	02	28.98
839-168	1¼ x 1	10	02	28.98
839-209	1½ x ½	10	02	34.35
839-210	1½ x ¾	10	02	34.35
839-211	1½ x 1	10	02	34.35
839-212	1½ x 1¼	10	02	34.35
839-247	2 x ½	10	02	50.32
839-248	2 x ¾	10	02	50.32
839-249	2 x 1	10	02	50.32
839-250	2 x 1¼	10	02	50.32
839-251	2 x 1½	10	02	50.32
839-292	2½ x 2	5	02	68.20
839-337	3 x 1½	5	02	92.59
839-338	3 x 2	5	02	92.59
839-339	3 x 2½	5	02	92.59
839-420	4 x 2	5	02	186.87
839-422	4 x 3	5	02	243.83



MPT x BSP

REDUCER BUSHING (FLUSH STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
845-249	2 x 1	10	02	51.43

CAPS



Slip

CAP

Part No	Size (in)	Ctn Qty	Code	List Price
847-002	¼	25	02	17.93
847-003	⅜	25	02	17.93
847-005	½	25	02	13.80
847-007	¾	25	02	14.53
847-010	1	25	02	25.83
847-012	1¼	10	02	31.16
847-015	1½	10	02	31.16
847-020	2	10	02	61.55
847-025	2½	5	02	125.68
847-030	3	5	02	147.07
847-040	4	5	02	248.01
847-060	6	4	02	616.93
847-080	8	4	02	792.08
847-100	10	1	92	810.27
847-120	12	1	92	1216.01



FPT

CAP

Part No	Size (in)	Ctn Qty	Code	List Pric
848-002	¼	25	02	17.26
848-003	⅜	25	02	17.26
848-005	½	25	02	17.26
848-007	¾	25	02	19.33
848-010	1	25	02	24.34
848-012	1¼	10	02	28.98
848-015	1½	10	02	33.13
848-020	2	10	02	65.03
848-025	2½	5	02	130.12
848-030	3	5	02	153.16
848-040	4	5	02	269.71

PLUGS



SP

PLUG

Part No	Size (in)	Ctn Qty	Code	List Price
849-007	¾	50	02	14.35
849-010	1	50	02	16.20
849-012	1¼	25	02	20.70
849-015	1½	10	02	22.66
849-020	2	5	02	30.01



MPT

PLUG

Part No	Size (in)	Ctn Qty	Code	List Price
850-002	¼	25	02	14.91
850-003	⅜	25	02	14.91
850-005	½	25	02	13.28
850-007	¾	25	02	13.80
850-010	1	25	02	16.89
850-012	1¼	10	02	24.92
850-015	1½	10	02	30.29
850-020	2	10	02	31.10
850-025	2½	5	02	86.86
850-030	3	5	02	101.35
850-040	4	5	02	197.29

FLANGES



Slip

FLANGE (SOLID STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
851-005	½	25	02	42.67
851-007	¾	25	02	45.63
851-010	1	25	02	50.82
851-012	1¼	10	02	52.29
851-015	1½	10	02	53.48
851-020	2	10	02	71.15
851-025	2½	5	02	109.87
851-030	3	5	02	121.30
851-040	4	5	02	153.62
851-060	6	5	02	241.53

See NOTE under Flange Installation Data (pg. 4)



FPT

FLANGE (SOLID STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
852-005	½	25	02	51.09
852-007	¾	25	02	59.89
852-010	1	25	02	65.54
852-012	1¼	10	02	90.38
852-015	1½	10	02	98.63
852-020	2	10	02	100.85
852-025	2½	5	02	231.90
852-030	3	5	02	238.67
852-040	4	5	02	448.47

See NOTE under Flange Installation Data (pg. 4)



Blind

FLANGE (BLIND)

Part No	Size (in)	Ctn Qty	Code	List Price
853-005	½	5	02	59.86
853-007	¾	5	02	71.32
853-010	1	5	02	97.36
853-012	1¼	10	02	119.49
853-015	1½	5	02	119.49
853-020	2	5	02	178.54
853-025	2½	5	02	290.87
853-030	3	5	02	351.00
853-040	4	5	02	437.32
853-060	6	2	02	531.38
853-080	8	2	02	665.13

See NOTE under Flange Installation Data (pg. 4)



Slip

FLANGE (VAN STONE STYLE - LOOSE RING)

Part No	Size (in)	Ctn Qty	Code	List Price
854-005	½	5	02	42.61
854-007	¾	5	02	45.62
854-010	1	5	02	50.73
854-012	1¼	5	02	52.27
854-015	1½	5	02	53.34
854-020	2	5	02	71.08
854-025	2½	5	02	109.75
854-030FT	3	5	02	121.27
854-040FT	4	5	02	153.36
854-050FT	5	5	02	241.29
854-060FT	6	5	02	241.29
854-080FT	8	5	02	392.96
854-100FT	10	2	92	508.75
854-120FT	12	1	92	548.51

FT Represents FiberTuff Ring.
See NOTE under Flange Installation Data (pg. 2)



SP

FLANGE (VAN STONE STYLE - LOOSE RING)

Part No	Size (in)	Ctn Qty	Code	List Price
856-005	½	25	02	42.88
856-007	¾	5	02	45.96
856-010	1	5	02	51.18
856-012	1¼	10	02	52.82
856-015	1½	5	02	53.85
856-020	2	5	02	71.60
856-025	2½	5	02	110.63
856-030FT	3	5	02	122.24
856-040FT	4	5	02	154.67
856-050FT	5	5	02	241.28
856-060FT	6	5	02	243.28
856-080FT	8	5	02	435.24
856-100FT	10	2	92	508.75
856-120FT	12	2	92	548.51

FT Represents FiberTuff Ring.
See NOTE under Flange Installation Data (pg. 4)



SP

FLANGE HUB SPIGOT

Part No	Size (in)	Ctn Qty	Code	List Price
82059	2½	5	02	50.32
82060	3	5	02	44.87
82062	4	5	02	67.15
82063	5	5	02	134.26
82064	6	5	02	146.83
82065	8	2	02	328.10
82066	10	2	92	399.65
82067	12	2	92	443.29



Slip

FLANGE HUB SOCKET

Part No	Size (in)	Ctn Qty	Code	List Price
82089	2½	5	02	49.00
82090	3	5	02	39.00
82092	4	5	02	55.16
82093	5	5	02	119.57
82094	6	5	02	102.16
82095	8	5	02	280.88
82096	10	2	92	369.04
82097	12	1	92	424.74

NIPPLES



MPT x MPT

TBE NIPPLE, REDUCING

Part No	Size (in)	Ctn Qty	Code	List Price
882-101	¾ x ½	50	02	3.43

See Nipple Price List (discounts will vary)

WYES



Slip x Slip x Slip

WYE

Part No	Size (in)	Ctn Qty	Code	List Price
875-020 †	2	5	01	238.59
875-030 ‡	3	5	01	767.13
875-040 ‡	4	4	01	1056.08
875-060 ‡	6	5	01	1298.17
875-080 §	8	5	01	2610.75

† 235 psi working pressure
‡ 150 psi working pressure
§ 100 psi working pressure



Slip x Slip x Slip

WYE, REDUCING

Part No	Size (in)	Ctn Qty	Code	List Price
875-247 †	2 x 2 x ½*	10	02	283.87
875-248 †	2 x 2 x ¾*	10	02	283.87
875-249 †	2 x 2 x 1*	10	02	283.87
875-250 †	2 x 2 x 1¼*	10	02	283.87
875-251 †	2 x 2 x 1½*	10	02	283.87
875-335 ‡	3 x 3 x 1*	5	02	894.15
875-336 ‡	3 x 3 x 1¼*	5	02	894.15
875-337 ‡	3 x 3 x 1½*	5	02	894.15
875-338 ‡	3 x 3 x 2*	4	02	894.15
875-339 ‡	3 x 3 x 2½*	5	02	894.15
875-420 ‡	4 x 4 x 2*	4	02	1124.16
875-422 ‡	4 x 4 x 3*	4	02	1124.16
875-528 ‡	6 x 6 x 2*	5	02	1224.01
875-530 ‡	6 x 6 x 3*	5	02	1224.01
875-532 ‡	6 x 6 x 4	5	02	989.40
875-578 §	8 x 8 x 2*	1	02	3415.29
875-580 §	8 x 8 x 3*	1	02	3415.29
875-582 §	8 x 8 x 4	1	02	2610.75
875-585 §	8 x 8 x 6	1	02	3185.86

* Sized with Bushing
† 235 psi working pressure
‡ 150 psi working pressure
§ 100 psi working pressure

UNIONS



Slip x MPT

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
896-005	½	10	02	39.91
896-007	¾	10	02	42.18
896-010	1	10	02	59.30
896-012	1¼	5	02	115.11
896-015	1½	5	02	121.96
896-020	2	5	02	149.13
896-030	3	5	02	336.53
896-168	1¼ x 1	5	02	156.96

Pressure rated at 235 p.s.i. at 73°F.
Unions are listed as NSF 61.



Slip x Slip

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
897-002	¼	25	02	55.72
897-003	⅜	25	02	55.72
897-005	½	10	02	29.15
897-007	¾	10	02	37.88
897-010	1	10	02	43.22
897-012	1¼	5	02	85.84
897-015	1½	5	02	97.17
897-020	2	5	02	131.72
897-030	3	5	02	245.32
897-040	4	4	02	315.02

Pressure rated at 235 p.s.i. at 73°F.
Unions are listed as NSF 61.



FPT x FPT

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
898-005	½	10	02	34.58
898-007	¾	10	02	48.43
898-010	1	10	02	64.36
898-012	1¼	5	02	122.83
898-015	1½	5	02	152.10
898-020	2	5	02	233.96
898-030	3	5	02	593.49
898-040	4	4	02	697.40

Pressure rated at 235 p.s.i. at 73°F.
Unions are listed as NSF 61.



Slip x FPT

UNION (O-RING TYPE)

Part No	Size (in)	Ctn Qty	Code	List Price
899-005	½	10	02	36.30
899-007	¾	10	02	50.76
899-010	1	10	02	67.48
899-012	1¼	5	02	128.95
899-015	1½	5	02	159.59
899-020	2	5	02	245.70

Pressure rated at 235 p.s.i. at 73°F.
Unions are listed as NSF 61.



Viton

UNION O-RING (CURRENT STYLE)

Part No	Size (in)	Ctn Qty	Code	List Price
80115	½	1	02	5.82
80118	¾	1	02	6.47
80215	1	1	02	7.92
80221	1¼	1	02	13.58
80223	1½	1	02	14.93
80227	2	1	02	14.93
80235	3	1	02	33.95



Viton

UNION O-RING (PRIOR TO 2004)

Part No	Size (in)	Ctn Qty	Code	List Price
80213	½	1	02	5.82
80216	¾	1	02	6.47
80222	1	1	02	7.92
80225	1¼	1	02	13.58
80227	1½	1	02	14.93
80231	2	1	02	18.33
80240	3	1	02	33.95

DO NOT USE LASCO FITTINGS FOR COMPRESSED AIR OR GASES.
DO NOT TEST PVC PIPING SYSTEMS WITH COMPRESSED AIR OR GASES.
DO NOT USE FITTINGS WITH LIQUIDS NOT RECOMMENDED BY LASCO.
MODIFICATIONS OF FITTINGS VOIDS THE WARRANTY.



⚠WARNING:
USE OF COMPRESSED AIR OR GAS IN PVC/CPVC PIPE AND FITTINGS CAN RESULT IN EXPLOSIVE FAILURES AND CAUSE SEVERE INJURY OR DEATH.

STANDARDS AND SPECIFICATIONS – SCHEDULE 80

ASTM D-1784	–	Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly Vinyl Chloride) (CPVC) Compounds.
ASTM D-2464	–	Threaded type Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80.
ASTM D-2467	–	Socket Type Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80.
ASTM F-1970	–	Standard Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems.
MATERIAL	–	LASCO Schedule 80 Fittings are produced from PVC TYPE 1, CELL Classification 12454-B.
	–	O-RINGs are produced from a fluorocarbon elastomer (VITON).
LISTINGS	–	NSF (National Sanitation Foundation) for potable water services.

American Granby

CUSTOMER SERVICE
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7652 Morgan Road • Liverpool, New York 13090

Unions - PVC Sch 80



PV79, PV69 Series

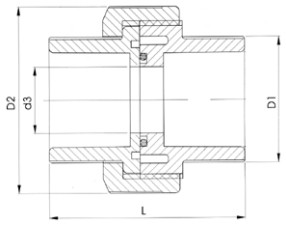
ISO 9002

NO LEAD < 0.25% Pb by weighted avg. Third Party Certified to NSF / ANSI 372

NSF Certified to ANSI-NSF 61 & ANSI-NSF 61 Annex G

PVC Sch 80 Union Features:

- Ideal for swimming pool, spa and plumbing installations.
- EPDM O-Ring seal.
- Working pressure: 150 PSI at 72ºF, 100 PSI at 120ºF.
- Meets ASTM standards for Schedule 80 construction.
- Manufactured for AGI in an ISO 9002 facility.
- NSF listed.
- Available white or gray.
- Imported.



DIMENSIONS (IN.)	SIZE	d3	D1	D2	L
	1/2"	.51	1.21	1.80	2.11
	3/4"	.71	1.45	2.15	2.42
	1"	.92	1.76	2.58	2.69
	1 1/4"	1.17	2.11	3.20	3.32
	1 1/2"	1.52	2.54	3.83	3.40
	2"	1.92	3.05	4.68	3.71
	3"	2.84	3.52	6.10	4.96
	4"	3.94	4.52	8.86	6.30

MATERIAL SPECIFICATIONS	
Body	PVC
End Connector	PVC
Union Nut	PVC
O-Ring	EPDM

Part Number			IPS Size	Ctn Qty
SCHEDULE 80 - WHITE				
SLIP X SLIP	**FIPT X FIPT**	**SLIP X FIPT**		
PV797-1/2	PV798-1/2		1/2"	36
PV797-3/4	PV798-3/4		3/4"	24/144
PV797-1	PV798-1		1"	12/96
PV797-11/4	PV798-11/4		1 1/4"	12/96
PV797-11/2	PV798-11/2	PV799-11/2	1 1/2"	8/64
PV797-2	PV798-2		2"	4/48
SCHEDULE 80 - GRAY				
slip x slip	**FIPT x FIPT**			
PV697-1/2	PV698-1/2		1/2"	36/288
PV697-3/4	PV698-3/4		3/4"	24/144
PV697-1	PV698-1		1"	12/96
PV697-11/4	PV698-11/4		1 1/4"	12/96
PV697-11/2	PV698-11/2		1 1/2"	8/64
PV697-2	PV698-2		2"	4/48
PV697-3	PV698-3		3"	2/12
PV697-4			4"	1/4

Replacement O-Ring for PV797, PV798, PV799, PV697, PV698		
PV796-1/2	1/2"	1
PV796-3/4	3/4"	1
PV796-1	1"	1
PV796-11/4	1 1/4"	1
PV796-11/2	1 1/2"	1
PV796-2	2"	1
Union Repair Split Nut		
SNR150	1 1/2" FBT Repair Split Nut w/ Screw	125
SNR200	2" FBT REpair Split Nut w/ Screw	100



Union, PVC Sch 40



1600 Series

NO LEAD LEAD-FREE

Part Number	IPS Size	Ctn Qty
SCHEDULE 40 - MADE IN USA		
SLIP X SLIP		
1600-15	1 1/2" Socket both ends, 2" spigot one end	24
1600-20	2" Socket both ends, 2 1/2" spigot one end	20

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CPVC Plastic Fittings - CTS

CPVC CTS Plastic Fitting Features:

- For CPVC copper tube size 1/2" and 3/4".
- For hot and cold water service.
- Meets ASTM-D-2846.
- NSF Approved.
- Rated 100 PSI at 180ºF, 400 psi at 73ºF.
- NSF Standard 61

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF/ANSI 61 & 372



2429 Series



2406 Series



2410 Series



2415 Series



2424 Series



2417 Series



2423 Series



2401 Series

Part Number	Size	Description	Ctn Qty
CPVC Coupling			
2429-005	1/2"	s x s	25/500
2429-007	3/4"	s x s	50/500
2429-010	1"	s x s	10/100
2429-101	3/4 x 1/2"	s x s	25/250
2429-131	1" x 3/4"	s x s	10/100
2413-007	3/4 x 3/4"	pvc slip x cpvc slip	25/250
2413-010	1" x 1"	pvc slip x cpvc slip	25/100
CPVC 90º Elbow			
2406-005	1/2"	s x s	50/500
2406-007	3/4"	s x s	50/500
2406-010	1"	s x s	10/100
2406-101	3/4 x 1/2"	s x s	25/250
CPVC 90º Street Elbow			
2410-005	1/2"	ms x fs	25/500
2410-007	3/4"	ms x fs	50/250
2410-010	1"	ms x fs	10/100
CPVC Drop Ear Elbow			
2415-005	1/2"	s x s	25/250
2424-005	1/2"	s x ft	25/250
CPVC 45º Elbow			
2417-005	1/2"	s x s	50/500
2417-007	3/4"	s x s	25/250
2417-010	1"	s x s	10/100
CPVC 45º Street Elbow			
2423-005	1/2"	s x s	25
2423-007	3/4"	s x s	25
2423-010	1"	s x s	10
CPVC Tee			
2401-005	1/2"	s x s x s	50/500
2401-007	3/4"	s x s x s	50/250
2401-010	1"	s x s x s	10/100
2401-094	3/4 x 1/2 x 1/2	s x s x s	50/250
2401-095	3/4 x 1/2 x 3/4	s x s x s	25/250
2401-101	3/4 x 3/4 x 1/2	s x s x s	50/250
2401-125	1" x 3/4" x 3/4"	s x s x s	1/25
2401-126	1" x 3/4" x 1"	s x s x s	1/25
2401-130	1" x 1" x 1/2"	s x s x s	1/25
2401-131	1" x 1" x 3/4"	s x s x s	10/100

CPVC Plastic Fittings - CTS

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372


2436 Series


2435 Series


2437 Series


2447 Series


2438 Series


2439 Series


2492 Series


2457 Series

Part Number	Size	Description	Ctn Qty
CPVC Male Adapter			
2436-005	1/2"	s x mipt	50/1000
2436-007	3/4"	s x mipt	25/250
2436-010	1"	s x mipt	10/100
CPVC Female Adapter			
2435-005	1/2"	s x fipt	25/250
2435-007	3/4"	s x fipt	25/250
2435-010	1"	s x fipt	10/100
CPVC Reducing Bushing			
2437-101	3/4 x 1/2"	spigot x s	25/250
2437-130	1" x 1/2"	spigot x s	10/100
2437-131	1" x 3/4"	spigot x s	10/100
CPVC Cap			
2447-005	1/2"	slip	50/500
2447-007	3/4"	slip	50/500
2447-010	1"	slip	10/100
CPVC to Metal Transition Fittings			
2438-005	1/2 x 1/2"	cpvc x fipt SS	10/100
2438-007	3/4 x 3/4"	cpvc x fipt SS	5
2438-010	1" x 1"	cpvc x fipt SS	5
2439-005	1/2 x 1/2	cpvc x mipt SS	10/100
2439-007	3/4 x 3/4"	cpvc x mipt SS	5
2439-010	1" x 1"	cpvc x mipt SS	25
Tubing Straps			
2492-005	1/2"		100/1000
2492-007	3/4"		100/1000
CPVC Union			
2457-005	1/2"	slip	60
2457-007	3/4"	slip	48

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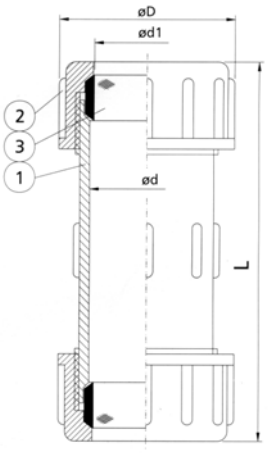
Compression Couplings-Imported, PVC/CPVC



NO LEAD
LEAD-FREE

PVC Compressing Coupling Features:

- Iron Pipe Size (PVC), Copper Tube Size (CPVC)
- For use with cold water (PVC) or hot water (CPVC-CTS)
- Natural rubber gasket seals
- Rated at 200 psi at 70°F
- Imported



"PC" Series IPS DIMENSIONS (IN.)

SIZE	D	d	d1	L
1/2"	1.85	.91	.83	5.24
3/4"	2.09	1.18	1.04	5.32
1"	2.40	1.42	1.31	5.75
1 1/4"	2.87	1.81	1.65	6.30
1 1/2"	3.15	2.05	1.89	6.89
2"	3.62	2.56	2.37	7.87
2 1/2"	4.53	2.52	2.87	9.92
3"	5.28	3.62	3.49	10.87
4"	6.34	4.65	4.49	11.93
6"	8.78	6.85	6.62	11.22

"HW" Series CTS DIMENSIONS (IN.)

1/2"	1.30	.71	.63	4.49
3/4"	1.85	.95	.88	5.00

MATERIAL SPECIFICATIONS

#	Part	Material
1	Body	UPVC, CPVC
2	Compression Nut	UPVC, CPVC
3	Gasket - PVC	NR
	Gasket - CPVC	EPDM

Part Number	Material	Size	Case Qty
PC10-1/2	PVC	1/2" IPS	100
PC10-3/4	PVC	3/4" IPS	90
PC10-1	PVC	1" IPS	60
PC10-11/4	PVC	1 1/4" IPS	40
PC10-11/2	PVC	1 1/2" IPS	30
PC10-2	PVC	2" IPS	20
PC10-21/2	PVC	2 1/2" IPS	10
PC10-3	PVC	3" IPS	4
PC10-4	PVC	4" IPS	2
PC10-6	PVC	6" IPS	2
HW10CTS1/2	CPVC	1/2" CTS	20/360
HW10CTS3/4	CPVC	3/4" CTS	20/240

Compression Fittings, Galvanized

Galvanized Long Pattern Compression Fitting Features:

- Bodies made of steel tubing (GC10), malleable iron (GC10C)
- End nuts made of malleable iron.
- Galvanized finish
- Buna-N gaskets on domestic fittings.
- SBR gaskets on GC10C series.
- Maximum rated service temperature for gaskets: 212°F (100º C).
- GC10C manufactured for AGI in an ISO9002 facility.

WARNING: Designer and/or contractor must provide suitable anchoring of piping to prevent pull-out from fittings when applications subject piping to external forces such as ground shift and temperature variations that cause linear pipe contraction.

Recommended Maximum Pressure(PSI)		
Size	**Torque Ft. Lbs**	**Anchored Piping**
1/2"	150	150
3/4"	150	150
1"	225	100
1-1/4"	225	100
1-1/2"	225	100
2"	300	75



GC10C Series

ISO 9002

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Coupling GC10C - Long Pattern - Imported - Malleable Iron, 125 PSI, 120° F

Part Number	Size	Pipe O.D.	Ctn/Case Qty
GC10C1/2	1/2"	.840	30 / 60
GC10C3/4	3/4"	1.050	25 / 50
GC10C1	1"	1.315	15 / 30
GC10C11/4	1-1/4"	1.660	12 / 24
GC10C11/2	1-1/2"	1.900	9 / 18
GC10C2	2"	2.375	14

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Pipe Repair Clamps



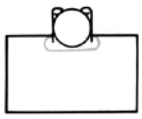
Repair Clamp Features:

- Pipe repair clamps eliminate the need for costly pipe replacement for simple leaks.
- Non-corrosive clamp band is made of annealed stainless steel.
- Nuts and bolts are cadmium plated with a chromate finish; heavy duty hex nut with washer.
- Lugs are made of annealed, malleable iron for maximum strength and permanence; iron phosphate finish.
- Neoprene gasket with maximum rated service temperature of 212° F (100°C).
- Imported

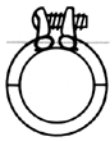
NO LEAD
< 0.25% Pb
by weighted
average



Straight through bolt pull on lugs gives more uniform pressure on the band, more pressure on pipe with less torque on nut.



Oval lug opening in band won't tear - no corners to rip out as with square hole.



Lugs above pipe level don't pull into pipe. Gives more tension on band - more sealing power yet won't crush pipe.



Band covers lead edge of lug. Equal pressure across entire band. No friction - no cutting into pipe surface by raw edge of band opening.

Part Number	Nominal Pipe Size	IPS Pipe O.D.	CTS Tube O.D.	Ctn Qty
3" Wide, 1 Bolt				
HRC3-3/8	3/8"	.675	.625	6/72
HRC3-1/2	1/2"	.840	.875	6/72
HRC3-3/4	3/4"	1.050	1.125	6/72
HRC3-1	1"	1.315	1.375	6/72
HRC3-11/4	1 1/4"	1.660	1.625	6/72
HRC3-11/2	1 1/2"	1.900		6/72
HRC3-2	2"	2.375		6/72
HRC3-21/2	2 1/2"	2.875		6/48
HRC3-3	3"	3.50		6/48
HRC3-4	4"	4.50		6/24
6" Wide, 2 Bolts				
HRC6-1/2	1/2"	.840	.875	6/56
HRC6-3/4	3/4"	1.050	1.125	6/56
HRC6-1	1"	1.315	1.375	6/56
HRC6-11/4	1 1/4"	1.660	1.625	6/56
HRC6-11/2	1 1/2"	1.900		6/56
HRC6-2	2"	2.375		6/56
HRC6-21/2	2 1/2"	2.875		6/24
HRC6-3	3"	3.50		6/24
HRC6-4	4"	4.50		6/24

Couplings, Caps - Flexible & No-Hub



Coupling, Cap Features:

- Flexible couplings for joining all types of sewer pipe, including transitions from one type to another.
- NO-HUB couplings for joining cast iron pipe sections
- End Caps for capping cast iron, steel, PVC and ABS pipe.
- 300 Series stainless steel clamps
- Meets IAPMO File #0317, BOCA ESI RR#90-68, SBCCI PST&ESI Report #9483B
- CSA Approved



C Series



MR Series



MRTC Series



07 Series

Part Number	Size	Connection	Ctn Qty
NO HUB COUPLINGS			
C150C	1 1/2 X 1 1/2	CI X CI	100
C200C	2 X 2	CI X CI	100
C300C	3 X 3	CI X CI	100
C400C	4 X 4	CI X CI	100
FLEXIBLE COUPLINGS			
MR0244	4 X 4	CLAY X CI/PL	18
MR56125	1 1/2" Tubing, Copper or 1 1/4" PL to Same		24
MR5615	1 1/2 x 1 1/2	CI/PL X CI/PL	24
MR5622/125	2 x 1 1/4	CI/PL x CI/PL	24
MR56215	2 X 1 1/2	CI/PL X CI/PL	24
MR5622	2 X 2	CI/PL X CI/PL	24
MR56315	3 x 1 1/2	CI/PL x CI/PL	24
MR5632	3 X 2	CI/PL X CI/PL	24
MR5633	3 X 3	CI/PL X CI/PL	18
MR5642	4 x 2	CI/PL x CI/PL	18
MR5643	4 X 3	CI/PL X CI/PL	18
MR5644	4 X 4	CI/PL X CI/PL	24
MR5655	5 X 5	CI/PL X CI/PL	14
MR5664	6 x 4	CI/PL x CI/PL	10
MR5666	6 X 6	CI/PL X CI/PL	12
DRAIN PIPING TO TUBULAR TRAP *			
MRTC150	1 1/4" x 1 1/2"		24
MRDTC150	1 1/4" or 1 1/2" x 1 1/4" or 1 1/2"		24
MRDTC215	2" x 1 1/4" or 1 1/2"		24
* Any combination of 1 1/4" or 1 1/2" tubular drain (plastic, tubular or copper)			
END CAPS			
0701-011	1 1/2"		24
0702-019	2"		24
0703-017	3"		24
0704-015	4"		24
0705-020	5"		20
0706-028	6"		12

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Sewer & Drain Fittings

Sewer & Drain Fitting Features:

- All fittings are white, solvent weld.
- Manufactured from superior raw material in the USA to meet and/or exceed the following specifications:
  High impact polystyrene fittings ASTM D2852.
  PVC solvent weld sewer fittings ASTM D3034, SDR35.

☺ Limited Quantities Available



AGV104



AGV2043



AGV2064



AGV1041



AGV3033



AGV2644



AGV303
Long Turn



AGV 3303
Short Turn

Part Number	Material	Size	Ctn Qty
COUPLINGS		**h x h**	
AGV103	PVC	3"	50
AGV104	PVC	4"	50
AGV1043	PVC	4 x 3"	40
AGV106	PVC	6"	24
AGV1064	PVC	6 x 4"	24
AGV108	PVC	8"	4
AGV1084	PVC	8 x 4"	8
AGV1086	PVC	8 x 6"	8
COUPLINGS		**h x h pvc dwv x sch 40**	
AGD104	PVC	4"	40
COUPLINGS		**h x h dwv x sewer**	
AGV2043	PVC	3x4"	40
AGV2044	PVC	4x4"	25
AGV2046	PVC	4x6"	24
AGV2066	PVC	6x6"	12
BUSHINGS		**s&d spg x h**	
AGV1143	PVC	4x3" Flush	25
AGV2064	PVC	6x4" Extended	24
AGV2664	PVC	6x4" spg x dwv	12
AGV2084	PVC	8x4" Extended	8
AGV2086	PVC	8x6" Extended	8
BUSHINGS		**s & d x dwv spg x h / spg x fipt**	
AGV1031	PVC	3 x 1-1/2" Flush	25
AGV1041	PVC	4 x 1 1/2" Flush	25
AGV1042	PVC	4 x 2" Flush	25
BUSHINGS		**adapter sleeve dwv spg x fem s&d**	
AGV3033	PVC	3 x 3"	25
AGV3044	PVC	4 x 4"	25
BUSHINGS		**s/d spg x dwv hub**	
AGV2644	PVC	4 x 4"	24
AGV2666	PVC	6 x 6"	12
90° 1/4 BEND		**h x h**	
AGV303	PVC	3" Long turn	25
AGV304	PVC	4" Long turn	36
AGV3303	PVC	3" Short turn	25
AGV3304	PVC	4" Short turn	25
AGV306	PVC	6" short turn	12
AGV366	PVC	6" Long turn	8

Sewer & Drain Fittings

NORMANDY PRODUCTS COMPANY
Plastic S&D Fittings

☺ Limited Quantities Available



AGV404
Long Turn



AGV3404
Short Turn



AGV504



AGV604



AGV704



AGV714



AGV804



AGV904



AGV1104



AGV1204

Part Number	Material	Size	Ctn Qty
90° 1/4 BEND STREET ELL		**h x spg**	
AGV403	PVC	3" long turn	25
AGV404	PVC	4" long turn	36
AGV3403	PVC	3" short turn	25
AGV3404	PVC	4" short turn	25
AGV406	PVC	6" short turn	12
45° 1/8 BEND		**h x h**	
AGV503	PVC	3"	30
AGV504	PVC	4"	60
AGV506	PVC	6"	18
45° 1/8 BEND STREET ELL		**h x spg**	
AGV603	PVC	3"	30
AGV604	PVC	4"	60
AGV606	PVC	6"	18
22 1/2° 1/16 BEND		**h x h**	
AGV703	PVC	3"	25
AGV704	PVC	4"	30
AGV706	PVC	6"	20
22 1/2° 1/16 BEND STREET ELL		**h x spg**	
AGV713	PVC	3"	25
AGV714	PVC	4"	30
AGV716	PVC	6"	20
TEE		**h x h x h**	
AGV803	PVC	3"	30
AGV804	PVC	4"	30
AGV806	PVC	6"	8
AGV8064	PVC	6x4"	8
45° WYE		**h x h x h**	
AGV903	PVC	3"	25
AGV904	PVC	4"	24
AGV906	PVC	6"	6
AGV9064	PVC	6x4"	8
SANITARY TEE		**h x h x h**	
AGV1103	PVC	3"	24
AGV1104	PVC	4"	25
AGV1106	PVC	6"	6
AGV11064	PVC	6X4"	5
SADDLE TEE		**pipe & hub**	
AGV1204	PVC	4 x 1-1/2"	25

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Sewer & Drain Fittings

NORMANDY PRODUCTS COMPANY
Plastic S&D Fittings

☺ Limited Quantities Available


AGV1304


AGV44


AGV1403


AGV1504


AGV1604


AGV1703


AGV1714


AGV1803


AGV1903


AGV2203


AGV2103


AGV2204

Part Number	Material	Size	Ctn Qty
CROSS		**h x h x h x h**	
AGV1304	PVC	4"	24
CORRUGATED ADAPTER		**s x ci**	
AGV44	PVC	4"	60
CAP		**h**	
AGV1403	PVC	3"	30
AGV1404	PVC	4"	30
AGV1406	PVC	6"	30
AGV1408	PVC	8"	10
ADAPTER		**h x clay pipe spg/ h x ci pipe spg**	
AGV1504	PVC	4" h x clay pipe spg	24
AGV1604	PVC	4" h x c.i. pipe spg	24
DOWNSPOUT ADAPTER		**ds x h**	
AGV1703	PVC	2x3x3"	50
AGV1704	PVC	2x3x4"	50
AGV1705	PVC	3x4x4"	25
AGV1706	PVC	4x6x6"	15
AGV1714	PVC	2x3x4 offset	25
AGV1715	PVC	3x4x4 offset	25
DRAIN GRATE		**spg**	
AGV1803	PVC	3"	50
AGV1804	PVC	4"	40
AGV1806	PVC	6"	30
FITTING CLEANOUT			
AGV1903	PVC	3"	40
AGV1904	PVC	4"	20
AGV1906	PVC	6"	24
THREADED PLUG			
AGV2003	PVC	3"	50
AGV2004	PVC	4"	50
AGV2006	PVC	6"	24
FEMALE ADAPTER			
AGV2103	PVC	3"	24
AGV2104	PVC	4"	24
AGV2106	PVC	6"	24
CLEANOUT TEE		**h x t x h**	
AGV8804	PVC	4"	30
TWO WAY CLEANOUT TEE			
AGV2204	PVC	4"	10

DrainGate



DrainGate Features:

- High impact plastic gate and one way hinge allows water to flow out.
- Keeps pests and debris from clogging pipes.
- Fits 4" or 6" pipe.
- Easy to install.
- Fits sewer and drain pipe, corrugated pipe, DWV & Sch 40 pipe.
- Kit contains bracket arm, drain gate and stainless steel screw.
- Packed one per plastic bag with directions.
- Master packed in point of purchase counter display.





The “one-way" DrainGate swings open to allow the free flow of water.

The “one-way" design prevents gate from swinging in the opposite direction.

Part Number	Pipe Size	Display Ctn Qty
DG04	4"	20
DG06	6"	12



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Single Wall Corrugated Fittings

Single Wall Corrugated Fitting Features:

- Black HDPE.
- Conforms to ASTM F405.



C104



C204



C1043



C44



C304



C804



C8064



C816



C8164



C904

Part Number	Size	Configuration	Ctn Qty
EXTERNAL SNAP COUPLING			
C103	3"	H x H	24
C104	4"	H X H	20
C106	6"	H X H	8
INTERNAL COUPLING			
C203	3"	Insert x Insert	30
C204	4"	Insert x Insert	25
C206	6"	Insert x Insert	8
REDUCER COUPLING-OFFSET			
C1043	4" x 3"	H X H	20
C1064	6" x 4"	H X H	8
CORRUGATED TO RIGID ADAPTER			
C33	3"	H x H	24
C44	4"	H X H	24
Corrugated hub x rigid SPG & insert adapts corrugated tube to rigid pipe or fitting.			
90° ELBOW - 1/4 BEND			
C303	3"	H x H	15
C304	4"	H X H	12
C306	6"	H x H	4
STRAIGHT TEE			
C803	3"	H X H X H	12
C804	4"	H X H X H	12
C806	6"	H X H X H	4
REDUCING TEE			
C8064	6" X 4"	H X H X H	3
Cut off 4" socket to make 5" socket.			
BLIND TEE (Serves as a 6" 90° elbow)			
C816	6"	H X H	3
REDUCING BLIND TEE (Serves as a 90° elbow)			
C8164	6" X 4"	H X H	3
Cut off 4" socket to make 5" socket.			
WYE			
C903	3"	H x H X H	10
C904	4"	H X H X H	8
C906	6"	H x H x H	4
REDUCING WYE			
C9064	6" X 4"	H x H X H	4

Single Wall Corrugated Fittings

Single Wall Corrugated Fitting Features:

- Black HDPE.
- Conforms to ASTM F405.



C1404



C1704

Part Number	Size	Configuration	Ctn Qty
CAP CORRUGATED HUB			
C1403	3"	H X H	20
C1404	4"	H X H	30
C1406	6"	H X H	10
DOWNSPOUT ADAPTER			
C1703	2" x 3" x 3"	DS X Corr Insert	15
C1704	2" x 3" x 4"	DS X Corr Insert	18
C1705	3" x 4" x 4"	DS X Corr Insert	15
C1706	4" x 6' x 6"	DS X Corr Insert	2

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Merchant Couplings

Merchant Coupling Features:

- Manufactured to American Iron and Steel Institute specifications.
- Manufactured in accordance with ASTM-A865.
- Deep chamfer permits easy assembly.
- Sizes thru 2" are straight tapped; sizes 2-1/2" thru 6" are taper tapped.
- Imported.
- **Third party certified to NSF/ANSI 372.**



BSMC Series



GSMC Series



SS304MC Series

Part Number	Pipe Size	Ctn Qty
Black Steel		
BSMC1/8	1/8"	100 / 1200
BSMC1/4	1/4"	100 / 800
BSMC3/8	3/8"	100 / 400
BSMC1/2	1/2"	50 / 200
BSMC3/4	3/4"	50 / 200
BSMC1	1"	48
BSMC11/4	1-1/4"	48
BSMC11/2	1-1/2"	20 / 80
BSMC2	2"	10 / 40
BSMC21/2	2-1/2"	30
BSMC3	3"	15
BSMC4	4"	10
BSMC6	6"	3
Galvanized Steel		
GSMC1/8	1/8"	100 / 1200
GSMC1/4	1/4"	100 / 800
GSMC3/8	3/8"	100 / 400
GSMC1/2	1/2"	50 / 200
GSMC3/4	3/4"	50 / 200
GSMC1	1"	48
GSMC11/4	1-1/4"	48
GSMC11/2	1-1/2"	20 / 80
GSMC2	2"	10 / 40
GSMC21/2	2-1/2"	30
GSMC3	3"	15
GSMC4	4"	10
GSMC6	6"	3
Stainless Steel 304		
SS304MC1/8	1/8"	50/300
SS304MC1/4	1/4"	50/300
SS304MC3/8	3/8"	50/100
SS304MC1/2	1/2"	20/400
SS304MC3/4	3/4"	10/250
SS304MC1	1"	10/120
SS304MC11/4	1-1/4"	5/90
SS304MC11/2	1-1/2"	5/50
SS304MC2	2"	5/40
SS304MC21/2	2-1/2"	1/20
SS304MC3	3"	1/16
SS304MC4	4"	1/12

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NO LEAD Threaded Bronze Fittings

No Lead Threaded Bronze 125 lb. IMPORT

- Dimensions: ANSI B16.15 125S fittings, ANSI B16.24 150S flanges
- Threads: ANSI/ASME B1.20.1
- Material: ASTM B584(C84400)
- Material: ASTM B584(C89833 NO LEAD)

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

90 º Elbow, fipt x fipt



Size	Part Number	Ctn Qty
1/8"	NLB90L1/8	50/600
1/4"	NLB90L1/4	35/420
3/8"	NLB90L3/8	90/360
1/2"	NLB90L1/2	50/200
3/4"	NLB90L3/4	35/105
1"	NLB90L1	20/60
1 1/4"	NLB90L11/4	20/40
1 1/2"	NLB90L11/2	15/30
2"	NLB90L2	8/16
2 1/2"	NLB90L21/2	1/12
3"	NLB90L3	1/8
4"	NLB90L4	2

90 º Elbow, Reducer fipt x fipt



Size	Part Number	Ctn Qty
1/2 x 3/8"	NLB90L1/2X3/8	60/240
3/4 x 1/2"	NLB90L3/4X1/2	40/160
1 x 1/2"	NLB90L1X1/2	50/100
1 x 3/4"	NLB90L1X3/4	50/100
1 1/4 x 1"	NLB90L11/4X1	10/40

45º Elbows, fipt x fipt



Size	Part Number	Ctn Qty
1/8"	NLB45L1/8	50/600
1/4"	NLB45L1/4	30/360
3/8"	NLB45L3/8	75/300
1/2"	NLB45L1/2	20/200
3/4"	NLB45L3/4	40/120
1"	NLB45L1	20/60
1 1/4"	NLB45L11/4	20/40
1 1/2"	NLB45L11/2	10/30
2"	NLB45L2	12/24
2 1/2"	NLB45L21/2	12
3"	NLB45L3	10
4"	NLB45L4	2/4

90 º Street Elbow, fipt x mipt



Size	Part Number	Ctn Qty
1/8"	NLB90SL1/8	60/720
1/4“	NLB90SL1/4	35/420
3/8"	NLB90SL3/8	60/240
1/2"	NLB90SL1/2	60/180
3/4"	NLB90SL3/4	35/105
1"	NLB90SL1	45/90
1 1/4"	NLB90SL11/4	25/50
1 1/2"	NLB90SL11/2	9/27
2"	NLB90SL2	8/16
2 1/2"	NLB90SL21/2	5/10
3"	NLB90SL3	1/8
4"	NLB90SL4	4

45º Street Elbows, fipt x mipt



Size	Part Number	Ctn Qty
1/8"	NLB45SL1/8	70/840
1/4"	NLB45SL1/4	40/480
3/8"	NLB45SL3/8	100/400
1/2"	NLB45SL1/2	75/225
3/4"	NLB45SL3/4	40/120
1"	NLB45SL1	25/75
1 1/4"	NLB45SL11/4	10/40
1 1/2"	NLB45SL11/2	10/30
2"	NLB45SL2	12/24

Tee, fipt x fipt x fipt



Size	Part Number	Ctn Qty
1/8"	NLBT1/8	120/480
1/4"	NLBT1/4	75/300
3/8"	NLBT3/8	45/180
1/2"	NLBT1/2	40/120
3/4"	NLBT3/4	35/70
1"	NLBT1	20/40
1 1/4"	NLBT11/4	14/28
1 1/2"	NLBT11/2	12/24
2"	NLBT2	8/16
2 1/2"	NLBT21/2	4/8
3’	NLBT3	6/6
4"	NLBT4	2

Tee, Reducer fipt x fipt x fipt



Size	Part Number	Ctn Qty
3/4x3/4x1/2	NLBT3/4X1/2	20/80
3/4x1/2x3/4	NLBT3/4X1/2X3/4	20/80
3/4x3/4x1/4	NLBT3/4X3/4X1/4	25/100
3/4x3/4x1"	NLBT3/4X1	40/80
1 x 1 x 1/4"	NLBT1X1/4	20/80
1 x 1 x 1/2"	NLBT1X1/2	15/60
1 x 1 x 3/4"	NLBT1X3/4	12/48
1 x 3/4 x 3/4	NLBT1X3/4X3/4	12/60
1 x 3/4 x 1"	NLBT1X3/4X1	30/60
11/4x11/4x3/4	NLBT11/4X3/4	20/40
11/4x11/4x1	NLBT11/4X1	20/40
11/2x11/2x3/4	NLBT11/2X3/4	15/30
11/2x11/2x1	NLBT11/2X1	10/30
11/2x11/2x11/4	NLBT11/2X11/4	12/24
2 x 2 x 3/4"	NLBT2X3/4	10/20
2 x 2 x 1"	NLBT2X1	10/20
2 x 2 x 1 1/4"	NLBT2X11/4	8/16
2 x 2 x 1 1/2"	NLBT2X11/2	8/16

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NO LEAD Threaded Bronze Fittings

No Lead Threaded Bronze 125 lb. IMPORT

- Dimensions: ANSI B16.15 125S fittings, ANSI B16.24 150S flanges
- Threads: ANSI/ASME B1.20.1
- Material: ASTM B584(C84400)
- Material: ASTM B584(C89833 NO LEAD)

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

Cross, fipt



Size	Part Number	Ctn Qty
1/8"	NLBCR1/8	30/360
1/4"	NLBCR1/4	60/240
3/8"	NLBCR3/8	50/150
1/2"	NLBCR1/2	30/90
3/4"	NLBCR3/4	20/60
1"	NLBCR1	15/30
1 1/4"	NLBCR11/4	10/20
1 1/2"	NLBCR11/2	8/16
2"	NLBCR2	5/10

Couplings, fipt x fipt



Size	Part Number	Ctn Qty
1/8“	NLBC1/8	70/840
1/4"	NLBC1/4	40/480
3/8"	NLBC3/8	40/480
1/2"	NLBC1/2	60/240
3/4"	NLBC3/4	50/150
1"	NLBC1	25/100
1 1/4"	NLBC11/4	16/64
1 1/2"	NLBC11/2	18/36
2"	NLBC2	12/24
2 1/2"	NLBC21/2	8/16
3"	NLBC3	12
4"	NLBC4	3/6

Couplings, Reducer fipt x fipt



Size	Part Number	Ctn Qty
1/4 x1/8"	NLBC1/4X1/8	50/600
3/8 x 1/8"	NLBC3/8X1/8	35/420
3/8 x 1/4"	NLBC3/8X1/4	30/360
1/2 X 1/8"	NLBC1/2X1/8	75/300
1/2 x 1/4"	NLBC1/2X1/4	75/300
1/2 x 3/8"	NLBC1/2X3/8	60/240
3/4 x 1/4"	NLBC3/4X1/4	45/180
3/4" X 3/8"	NLBC3/4X3/8	45/180
3/4 x 1/2"	NLBC3/4X1/2	60/180
1 X 3/8"	NLBC1X3/8	30/120
1 x 1/2"	NLBC1X1/2	30/120
1 x 3/4"	NLBC1X3/4	25/100
1 1/4 x 1/2"	NLBC11/4X1/2	25/75
1 1/4 x 3/4"	NLBC11/4X3/4	25/75
1 1/4 x 1"	NLBC11/4X1	15/60
1 1/2 X 1/2"	NLBC11/2X1/2	20/60
1 1/2 x 3/4"	NLBC11/2X3/4	15/60
1 1/2 x 1"	NLBC11/2X1	25/50
11/2x11/4"	NLBC11/2X11/4	12/48
2 x 1/2"	NLBC2X1/2	12/36
2 x 3/4"	NLBC2X3/4	12/36
2 x 1"	NLBC2X1	12/36
2 x 1 1/4"	NLBC2X11/4	9/27
2 x 1 1/2"	NLBC2X11/2	9/27
3 x 2"	NLBC3X2	6/12

Case quantities required please for fittings through 2"

Bushing, mipt x fipt



Size	Part Number	Ctn Qty
1/4 x 1/8"	NLBB1/4X1/8	120/1440
3/8x 1/8"	NLBB3/8X1/8	75/900
3/8 x 1/4"	NLBB3/8X1/4	75/900
1/2 x 1/8"	NLBB1/2X1/8	150/600
1/2 x 1/4"	NLBB1/2X1/4	150/600
1/2 x 3/8"	NLBB1/2X3/8	150/600
3/4 x 1/8"	NLBB3/4X1/8	75/300
3/4 x 1/4"	NLBB3/4X1/4	75/300
3/4 x 3/8"	NLBB3/4X3/8	75/300
3/4 x 1/2"	NLBB3/4X1/2	75/300
1 x 1/4"	NLBB1X1/4	50/200
1 X 3/8"	NLBB1X3/8	50/200
1 x 1/2"	NLBB1X1/2	50/200
1 x 3/4"	NLBB1X3/4	50/200
1 1/4 x 1/4"	NLBB11/4X1/4	30/120
1 1/4 x 3/8"	NLBB11/4X3/8	30/120
1 1/4 x 1/2"	NLBB11/4X1/2	30/120
1 1/4 x 3/4"	NLBB11/4X3/4	30/120
1 1/4 x 1"	NLBB11/4X1	30/120
1 1/2 x 1/2"	NLBB11/2X1/2	25/75
1 1/2 x 3/4"	NLBB11/2X3/4	25/75
1 1/2 x 1"	NLBB11/2X1	25/75
11/2x11/4"	NLBB11/2X11/4	25/75
2 X 1/2"	NLBB2X1/2	20/60
2 x 3/4"	NLBB2X3/4	20/60
2 x 1"	NLBB2X1	20/60
2 x 1-1/4"	NLBB2X11/4	25/50
2 x 1-1/2"	NLBB2X11/2	25/50
21/2 x 1	NLBB21/2X1	15/30
21/2 x 11/4"	NLBB21/2X11/4	15/30
21/2 x 11/2"	NLBB21/2X11/2	15/30
21/2 x 2"	NLBB21/2X2	15/30
3 x 1"	NLBB3X1	12/24
3 x 2"	NLBB3X2	12/24

Caps, fipt



Size	Part Number	Ctn Qty
1/8"	NLBCP1/8	120/1440
1/4"	NLBCP1/4	80/960
3/8"	NLBCP3/8	60/720
1/2"	NLBCP1/2	75/300
3/4"	NLBCP3/4	40/160
1"	NLBCP1	25/100
1 1/4"	NLBCP11/4	20/80
1 1/2"	NLBCP11/2	18/54
2"	NLBCP2	12/36
2 1/2"	NLBCP21/2	20/40
3"	NLBCP3	24
4"	NLBCP4	12

americangranby.com
Ph: 800-776-2266 Fax: 800-729-3299

NO LEAD Threaded Bronze Fittings

No Lead Threaded Bronze 125 lb. IMPORT

- Dimensions: ANSI B16.15 125S fittings, ANSI B16.24 150S flanges
- Threads: ANSI/ASME B1.20.1
- Material: ASTM B584(C84400)
- Material: ASTM B584(C89833 NO LEAD)

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

NO LEAD (Certified)



Lock Nut

Size	Part Number	Ctn Qty
1/8"	NLBLN1/8	250/3000
1/4"	NLBLN1/4	125/1500
3/8"	NLBLN3/8	125/1500
1/2"	NLBLN1/2	150/600
3/4"	NLBLN3/4	90/360
1"	NLBLN1	60/240
1 1/4"	NLBLN11/4	45/180
1 1/2"	NLBLN11/2	45/135
2"	NLBLN2	25/75



Square Head Plug, mipt

Size	Part Number	Ctn Qty
1/8"	NLBP1/8	300/3600
1/4"	NLBP1/4	150/1800
3/8"	NLBP3/8	100/1200
1/2"	NLBP1/2	50/600
3/4"	NLBP3/4	30/360
1"	NLBP1	20/240
1 1/4"	NLBP11/4	40/120
1 1/2"	NLBP11/2	30/90
2"	NLBP2	20/60
2 1/2"	NLBP21/2	16/32
3"	NLBP3	16/32
4"	NLBP4	12



Threaded Union, fipt x fipt

Size	Part Number	Ctn Qty
1/8"	NLBU1/8	60/240
1/4"	NLBU1/4	20/240
3/8"	NLBU3/8	40/160
1/2"	NLBU1/2	50/100
3/4"	NLBU3/4	35/70
1"	NLBU1	20/40
1 1/4"	NLBU11/4	15/30
1 1/2"	NLBU11/2	10/20
2"	NLBU2	6/12
2 1/2"	NLBU21/2	4/8
3"	NLBU3	4/8
4"	NLBU4	4

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Ph: 800-776-2266 Fax: 800-729-3299

Stainless Steel 304 Threaded Fittings

Stainless Steel 304 150# Threaded Fittings

- Dimensions: ISO 4144
- Material: ASTM A351
- Threads: ANSI/ASME B1.20.1
- Approvals: NSF/ANSI 372

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372



90 º Elbow
fipt x fipt

Size	Part Number	Ctn Qty
1/8"	SS304E90-1/8	50/500
1/4"	SS304E90-1/4	50/400
3/8"	SS304E90-3/8	50/200
1/2"	SS304E90-1/2	20/280
3/4"	SS304E90-3/4	10/180
1"	SS304E90-1	10/100
1 1/4"	SS304E90-11/4	5/60
1 1/2"	SS304E90-11/2	5/40
2"	SS304E90-2	2/24
3"	SS304E90-3	1/8



90 º Elbow, Reducer
fipt x fipt

Size	Part Number	Ctn Qty
3/4 x 1/2"	SS304RE90-3/4X1/2	10/100
1 x 1/2"	SS304RE90-1X1/2	10/60
1 x 3/4"	SS304RE90-1X3/4	10/120
1 1/4 x 1"	SS304RE90-11/4X1	5/80



45º Elbows
fipt x fipt

Size	Part Number	Ctn Qty
1/8"	SS304E45-1/8	50/500
1/4"	SS304E45-1/4	50/400
3/8"	SS304E45-3/8	50/300
1/2"	SS304E45-1/2	20/300
3/4"	SS304E45-3/4	10/200
1"	SS304E45-1	10/120
1 1/4"	SS304E45-11/4	5/60
1 1/2"	SS304E45-11/2	5/50
2"	SS304E45-2	2/30



90 º Street Elbow
fipt x mipt

Size	Part Number	Ctn Qty
1/8"	SS304SE90-1/8	50/500
1/4“	SS304SE90-1/4	50/400
3/8"	SS304SE90-3/8	50/200
1/2"	SS304SE90-1/2	20/300
3/4"	SS304SE90-3/4	10/150
1"	SS304SE90-1	10/100
1 1/4"	SS304SE90-11/4	5/60
1 1/2"	SS304SE90-11/2	5/40
2"	SS304SE90-2	2/20
3"	SS304SE90-3	1/4



Tee
fipt x fipt x fipt

Size	Part Number	Ctn Qty
1/8"	SS304T1/8	50/400
1/4"	SS304T1/4	50/300
3/8"	SS304T3/8	50/150
1/2"	SS304T1/2	20/200
3/4"	SS304T3/4	10/100
1"	SS304T1	10/60
1 1/4"	SS304T11/4	5/40
1 1/2"	SS304T11/2	5/30
2"	SS304T2	2/20
3’	SS304T3	1/8



Tee, Reducer
fipt x fipt x fipt

Size	Part Number	Ctn Qty
3/4x3/4x1/2	SS304RT3/4X1/2	10/60
3/4x1/2x3/4	SS304RT3/4X1/2X3/4	10/120
3/4x3/4x1/4	SS304RT3/4X1/4	10/120
3/4x3/4x1"	SS304RT3/4X1	10/80
1 x 1 x 1/4"	SS304RT1X1/4	10/80
1 x 1 x 1/2"	SS304RT1X1/2	10/80
1 x 1 x 3/4"	SS304RT1X3/4	10/80
1 x 3/4 x 1"	SS304RT1X3/4X1	10/80
1 x 3/4 x 3/4"	SS304RT1X3/4X3/4	10/80
11/4x11/4x3/4	SS304RT11/4X3/4	5/50
11/4x11/4x1	SS304RT11/4X1	5/50
11/2x11/2x3/4	SS304RT11/2X3/4	5/35
11/2x11/2x1	SS304RT11/2X1	5/35
11/2x11/2x11/4	SS304RT11/2X11/4	5/30
2 x 2 x 3/4"	SS304RT2X3/4	2/30
2 x 2 x 1"	SS304RT2X1	2/26
2 x 2 x 1 1/4"	SS304RT2X11/4	2/10
2 x 2 x 1 1/2"	SS304RT2X11/2	2/10

Carton quantities required please for fittings through 2"

americangranby.com
Ph: 800-776-2266 Fax: 800-729-3299

Stainless Steel 304 Threaded Fittings

Stainless Steel 304 150# Threaded Fittings

- Dimensions: ISO 4144
- Material: ASTM A351
- Threads: ANSI/ASME B1.20.1
- Approvals: NSF/ANSI 372

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg Third Party Certified to NSF / ANSI 372



Cross fipt

Size	Part Number	Ctn Qty
1/8"	SS304CR1/8	10/150
1/4"	SS304CR1/4	10/150
3/8"	SS304CR3/8	10/100
1/2"	SS304CR1/2	5/120
3/4"	SS304CR3/4	5/40
1"	SS304CR1	5/60
1 1/4"	SS304CR11/4	2/30
1 1/2"	SS304CR11/2	2/10
2"	SS304CR2	2/10



Couplings fipt x fipt

Size	Part Number	Ctn Qty
1/8“	SS304C1/8	50/600
1/4"	SS304C1/4	50/500
3/8"	SS304C3/8	50/300
1/2"	SS304C1/2	20/400
3/4"	SS304C3/4	10/200
1"	SS304C1	10/150
1 1/4"	SS304C11/4	5/80
1 1/2"	SS304C11/2	5/60
2"	SS304C2	2/40
3"	SS304C3	1/16



Couplings, Reducer fipt x fipt

Size	Part Number	Ctn Qty
1/4 x1/8"	SS304RC1/4X1/8	50/500
3/8 x 1/8"	SS304RC3/8X1/8	50/300
3/8 x 1/4"	SS304RC3/8X1/4	50/300
1/2 X 1/8"	SS304RC1/2X1/8	20/200
1/2 x 1/4"	SS304RC1/2X1/4	20/200
1/2 x 3/8"	SS304RC1/2X3/8	20/200
3/4 x 1/4"	SS304RC3/4X1/4	10/250
3/4" X 3/8"	SS304RC3/4X3/8	10/250
3/4 x 1/2"	SS304RC3/4X1/2	10/200
1 X 3/8"	SS304RC1X3/8	10/180
1 x 1/2"	SS304RC1X1/2	10/150
1 x 3/4"	SS304RC1X3/4	10/150
1 1/4 x 1/2"	SS304RC11/4X1/2	5/140
1 1/4 x 3/4"	SS304RC11/4X3/4	5/140
1 1/4 x 1"	SS304RC11/4X1	5/120

Couplings, Reducer fipt x fipt

Size	Part Number	Ctn Qty
1 1/2 X 1/2"	SS304RC11/2X1/2	5/80
1 1/2 x 3/4"	SS304RC11/2X3/4	5/40
1 1/2 x 1"	SS304RC11/2X1	5/70
11/2x11/4"	SS304RC11/2X11/4	5/70
2 x 1/2"	SS304RC2X1/2	2/40
2 x 3/4"	SS304RC2X3/4	2/40
2 x 1"	SS304RC2X1	2/60
2 x 1 1/4"	SS304RC2X11/4	2/60
2 x 1 1/2"	SS304RC2X11/2	2/60
3 x 2"	SS304RC3X2	1/16



Bushing mipt x fipt

Size	Part Number	Ctn Qty
1/4 x 1/8"	SS304HB1/4X1/8	50/800
3/8x 1/8"	SS304HB3/8X1/8	50/500
3/8 x 1/4"	SS304HB3/8X1/4	50/400
1/2 x 1/8"	SS304HB1/2X1/8	20/400
1/2 x 1/4"	SS304HB1/2X1/4	20/400
1/2 x 3/8"	SS304HB1/2X3/8	20/300
3/4 x 1/8"	SS304HB3/4X1/8	20/240
3/4 x 1/4"	SS304HB3/4X1/4	20/400
3/4 x 3/8"	SS304HB3/4X3/8	20/240
3/4 x 1/2"	SS304HB3/4X1/2	20/240
1 x 1/4"	SS304HB1X1/4	10/150
1 X 3/8"	SS304HB1X3/8	10/150
1 x 1/2"	SS304HB1X1/2	10/150
1 x 3/4"	SS304HB1X3/4	10/300
1 1/4 x 1/4"	SS304HB11/4X1/4	5/150
1 1/4 x 3/8"	SS304HB11/4X3/8	5/150
1 1/4 x 1/2"	SS304HB11/4X1/2	5/150
1 1/4 x 3/4"	SS304HB11/4X3/4	5/150
1 1/4 x 1"	SS304HB11/4X1	5/150
1 1/2 x 1/2"	SS304HB11/2X1/2	5/60
1 1/2 x 3/4"	SS304HB11/2X3/4	5/60
1 1/2 x 1"	SS304HB11/2X1	5/120
11/2x11/4"	SS304HB11/2X11/4	5/120
2 X 1/2"	SS304HB2X1/2	5/80
2 x 3/4"	SS304HB2X3/4	5/80
2 x 1"	SS304HB2X1	5/80
2 x 1-1/4"	SS304HB2X11/4	5/80
2 x 1-1/2"	SS304HB2X11/2	5/80
21/2 x 2"	SS304HB21/2X2	1/45
3 x 2"	SS304HB3X2	1/30

Carton quantities required please for fittings through 2"

americangranby.com
Ph: 800-776-2266 Fax: 800-729-3299

Stainless Steel 304 Threaded Fittings

Stainless Steel 304 150# Threaded Fittings

- Dimensions: ISO 4144
- Material: ASTM A351
- Threads: ANSI/ASME B1.20.1
- Approvals: NSF/ANSI 372

LOW-LEAD IAPMO R&T

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

Size	Part Number	Ctn Qty
	**Caps fipt**	
1/8"	SS304CA1/8	50/800
1/4"	SS304CA1/4	50/600
3/8"	SS304CA3/8	50/400
1/2"	SS304CA1/2	20/360
3/4"	SS304CA3/4	20/240
1"	SS304CA1	10/100
1 1/4"	SS304CA11/4	5/150
1 1/2"	SS304CA11/2	5/60
2"	SS304CA2	5/40
	**Square Head Plug mipt**	
1/8"	SS304P1/8	50/1200
1/4"	SS304P1/4	50/1000
3/8"	SS304P3/8	50/800
1/2"	SS304P1/2	20/600
3/4"	SS304P3/4	20/300
1"	SS304P1	10/150
1 1/4"	SS304P11/4	5/100
1 1/2"	SS304P11/2	5/60
2"	SS304P2	5/100
3"	SS304P3	1/30
4"	SS304P4	1/18
	**Threaded Union fipt x fipt**	
1/8"	SS304U1/8	10/160
1/4"	SS304U1/4	10/160
3/8"	SS304U3/8	10/120
1/2"	SS304U1/2	5/100
3/4"	SS304U3/4	5/60
1"	SS304U1	5/40
1 1/4"	SS304U11/4	2/50
1 1/2"	SS304U11/2	2/40
2"	SS304U2	2/20

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Malleable Iron Fittings - Imported

Imported Malleable Iron Fitting Features:

- Class 150 malleable iron pipe fittings
- Suitable for water, steam, air, gas and oil
- All fittings are air pressure tested
- Working pressure: Max: 300 psi @ -20°F to 150°F. , Min 150 psi @ 350°F
- Made in China
- Tensile Strength: Min 48000 psi (330 MPa)
- Elongation: Min 8%
- Hardness: Max HB150

Specifications:

Material:	ANSI/ASTM A197
Dimensions:	ANSI B.16.3 fittings ASME/ANSI B.16.39 unions
Threads:	ASME/ANSI B.1.20.1

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

ISO 9002

All class 150 imported malleable iron pipe fittings are manufactured under a quality control program complying with CSA B-51 speccifications.
Canadian Registration Number OA5312.5C
Third party certified to NSF/ANSI 61&372.

NEW
More Sizes



BIM90L/GIM90L Series



BIM90L/GIM90L Reducer Series

U - UL Approval
F - FM Approval

Size	BLACK Inner/Master Ctn Qty	Size	GALVANIZED Inner/Master Ctn Qty
90º ELBOW fiptxfipt		**90º ELBOW fiptxfipt**	
BIM90L1/8	50/600	GIM90L1/8	50/600
BIM90L1/4	35/420	GIM90L1/4	35/420
BIM90L3/8	90/360	GIM90L3/8	90/360
BIM90L1/2 UF	50/200	GIM90L1/2 UF	50/200
BIM90L3/4 UF	35/105	GIM90L3/4 UF	35/105
BIM90L1 UF	20/60	GIM90L1 UF	20/60
BIM90L11/4 UF	20/40	GIM90L11/4 UF	20/40
BIM90L11/2 UF	15/30	GIM90L11/2 UF	15/30
BIM90L2 UF	8/16	GIM90L2 UF	8/16
BIM90L21/2 UF	1/12	GIM90L21/2 UF	1/12
BIM90L3 UF	1/8	GIM90L3 UF	1/8
BIM90L4 UF	1/2	GIM90L4 UF	1/2
BIM90L6	**1/1**		
90º ELBOW REDUCER fiptxfipt		**90º ELBOW REDUCER fiptxfipt**	
BIM90L3/8X1/8	90/360	GIM90L3/8X1/8	90/360
BIM90L3/8X1/4	90/360	GIM90L3/8X1/4	90/360
BIM90L1/4X1/8	40/480	GIM90L1/4X1/8	40/480
BIM90L1/2X1/8	60/240	GIM90L1/2X1/8	60/240
BIM90L1/2X1/4 UF	60/240	GIM90L1/2X1/4 UF	60/240
BIM90L1/2x3/8 UF	60/240	GIM90L1/2 x 3/8 UF	60/240
BIM90L3/4x1/2	40/160	GIM90L3/4 x 1/2 UF	40/160
BIM90L3/4X1/4 UF	40/160	GIM90L3/4X1/4 UF	40/160
BIM90L3/4X3/8 UF	40/160	GIM90L3/4X3/8 UF	40/160
BIM90L1X1/4 UF	25/100	GIM90L1X1/4 UF	25/100
BIM90L1x1/2	25/100	GIM90L1X1/2	25/100
BIM90L1X3/8 UF	25/100	GIM90L1X3/8 UF	25/100
BIM90L1X3/4 UF	25/100	GIM90L1 x 3/4 UF	25/100
BIM90L11/4X1/2 UF	20/80		
BIM90L11/4x1 UF	10/40	GIM90L11/4 x 1 UF	10/40
BIM90L11/4X3/4 UF	15/60		
BIM90L11/2x1 UF	10/40	GIM90L11/2 x 1 UF	10/40
BIM90L11/2x11/4 UF	15/30	GIM90L11/2 x 11/4 UF	15/30
BIM90L2X3/4	**9/36**		
BIM90L2x1 UF	14/28	GIM90L2 x 1 UF	14/28
BIM90L2x11/4 UF	10/20	GIM90L2 x 11/4 UF	10/20
BIM90L2x11/2 UF	10/20	GIM90L2 x 11/2 UF	10/20
BIM90L21/2X3/4 F	10/20	GIM90L21/2X3/4 F	10/20
BIM90L21/2X1 F	8/16	GIM90L21/2X1 F	8/16
BIM90L21/2X11/4 F	8/16	GIM90L21/2X11/4 F	8/166
BIM90L21/2X11/2 UF	6/12	GIM90L21/2X11/2 UF	6/12
BIM90L21/2X2 UF	6/12	GIM90L21/2X2 UF	6/12
BIM90L3X2 UF	4/8	GIM90L3X2 UF	4/8

Malleable Iron Fittings - Imported

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



BIM45L/GIM45L Series



BIM90SL/GIM90SL Series



BIM45SL/GIM45SL Series



BIMT/GIMT Series

U - UL Approval
F - FM Approval

Size	BLACK Inner/Master Ctn Qty	Size	GALVANIZED Inner/Master Ctn Qty
45º ELBOW fiptxfipt		**45º ELBOW fiptxfipt**	
BIM45L1/8	50/600	GIM45L1/8	50/600
BIM45L1/4	30/360	GIM45L1/4	30/360
BIM45L3/8	75/300	GIM45L3/8	75/300
BIM45L1/2 UF	50/200	GIM45L1/2 UF	50/200
BIM45L3/4 UF	40/120	GIM45L3/4 UF	40/120
BIM45L1 UF	20/60	GIM45L1 UF	20/60
BIM45L11/4 UF	20/40	GIM45L11/4 UF	20/40
BIM45L11/2 UF	15/30	GIM45L11/2 UF	15/30
BIM45L2 UF	12/24	GIM45L2 UF	12/24
BIM45L21/2 UF	1/12	GIM45L21/2 UF	1/12
BIM45L3 UF	1/10	GIM45L3 UF	1/10
BIM45L4 UF	1/6	GIM45L4 UF	1/6
90º STREET ELBOW fiptxmipt		**90º STREET ELBOW fiptxmipt**	
BIM90SL1/8	60/720	GIM90SL1/8	60/720
BIM90SL1/4	35/420	GIM90SL1/4	35/420
BIM90SL3/8	60/240	GIM90SL3/8	60/240
BIM90SL1/2 UF	60/180	GIM90SL1/2 UF	60/180
BIM90SL3/4 UF	35/105	GIM90SL3/4 UF	35/105
BIM90SL1 UF	45/90	GIM90SL1 UF	45/90
BIM90SL11/4 UF	25/50	GIM90SL11/4 UF	25/50
BIM90SL11/2 UF	9/27	GIM90SL11/2 UF	9/27
BIM90SL2 UF	8/16	GIM90SL2 UF	8/16
BIM90SL21/2 UF	5/10	GIM90SL21/2 UF	5/10
BIM90SL3 UF	1/8	GIM90SL3 UF	1/8
45º STREET ELBOW fiptxmipt		**45º STREET ELBOW fiptxmipt**	
BIM45SL1/8	70/840	GIM45SL1/8	70/840
BIM45SL1/4	40/480	GIM45SL1/4	40/480
BIM45SL3/8	100/400	GIM45SL3/8	100/400
BIM45SL1/2 UF	75/225	GIM45SL1/2 UF	75/225
BIM45SL3/4 UF	40/120	GIM45SL3/4 UF	40/120
BIM45SL1 UF	25/75	GIM45SL1 UF	25/75
BIM45SL11/4 UF	10/40	GIM45SL11/4 UF	10/40
BIM45SL11/2 UF	10/30	GIM45SL11/2 UF	10/30
BIM45SL2	**12/24**	**GIM45SL2**	**12/24**
BIM45SL21/2	**1/12**		
BIM45SL3	**1/6**		
TEE fiptxfiptxfipt		**TEE fiptxfiptxfipt**	
BIMT1/8	120/480	GIMT1/8	120/480
BIMT1/4	75/300	GIMT1/4	75/300
BIMT3/8 UF	45/180	GIMT3/8	45/180
BIMT1/2 UF	40/120	GIMT1/2 UF	40/120
BIMT3/4 UF	35/70	GIMT3/4 UF	35/70
BIMT1 UF	20/40	GIMT1 UF	20/40
BIMT11/4 UF	14/28	GIMT11/4UF	14/28
BIMT11/2 UF	12/24	GIMT11/2 UF	12/24
BIMT2 UF	8/16	GIMT2 UF	8/16
BIMT21/2 UF	4/8	GIMT21/2 UF	4/8
BIMT3 UF	1/6	GIMT3 UF	1/6
BIMT4 UF	1/2	GIMT4 UF	1/2

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Malleable Iron Fittings - Imported

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



BIMT/GIMT
Reducer Series



U - UL Approval
F - FM Approval

Size	Inner/Master Ctn Qty	Size	Inner/Master Ctn Qty
	BLACK		GALVANIZED
TEE REDUCER fiptxfiptxfipt		**TEE REDUCER fiptxfiptxfipt**	
BIMT1/2X1/2X1/4	**40/160**		
BIMT1/2X1/2X3/8 UF	40/160	GIMT1/2X1/2X3/8	40/160
BIMT1/2X1/2X3/4	**30/120**		
BIMT1/2X1/2X1	**25/100**		
BIMT3/4x1/2x1/2 UF	25/100	GIMT3/4x1/2x1/2 UF	25/100
BIMT3/4X1/2x3/4 UF	20/80		
BIMT3/4X3/4X1/4 UF	25/100	GIMT3/4X3/4X1/4 UF	25/100
BIMT3/4X3/4X3/8	**25/100**	GIMT3/4x3/4x1/2 UF	25/100
BIMT3/4x3/4x1/2 UF	20/80	GIMT3/4x1/2x3/4 UF	20/80
BIMT3/4X3/4X1 UF	20/80	GIMT3/4X3/4X1 UF	20/80
BIMT1X1/2X1/2 UF	20/80		
BIMT1X1/2X3/4 UF	20/80	GIMT1X1/2X3/4 UF	20/80
BIMT1X1/2X1 UF	15/60	GIMT1X1/2X1 UF	15/60
BIMT1X3/4X1/2 UF	20/80	GIMT1X3/4X1/2 UF	20/80
BIMT1x3/4x3/4 UF	15/60	GIMT1x3/4x3/4 UF	15/60
BIMT1x3/4x1 UF	15/60	GIMT1x3/4x1 UF	15/60
BIMT1X1X1/4	**20/80**	**GIMT1X1X1/4**	**30/60**
BIMT1X1X3/8	**15/60**		
BIMT1x1x1/2 UF	15/60	GIMT1x1x1/2 UF	15/60
BIMT1x1x3/4 UF	12/48	GIMT1x1x3/4 UF	12/48
BIMT1X1X11/4 UF	11/44	GIMT1X1X11/4 UF	11/44
BIMT1X1X11/2	**9/36**		
BIMT11/4X1/2X1/2	**25/50**		
BIMT11/4X1/2X3/4	**25/50**		
BINT11/4X1/2X1	**20/40**		
BIMT11/4X1/2X11/4 UF	10/40	GIMT11/4X1/2X11/4 UF	10/40
BIMT11/4X3/4X1/2	**10/40**		
BIMT11/4X3/4X3/4 UF	10/40	GIMT11/4X3/4X3/4 UF	10/40
BIMT11/4X3/4X1 UF	10/40	GIMT11/4x3/4x1 UF	10/40
BIMT11/4x3/4x11/4 UF	10/40	GIMT11/4x3/4x11/4 UF	10/40
BIMT11/4X1X1/2 UF	20/40	GIMT11/4X1X1/2 UF	20/40
BIMT11/4X1X3/4 UF	20/40	GIMT11/4X1X3/4 UF	20/40
BIMT11/4X1X1 UF	20/40	GIMT11/4X1X1 UF	20/40
BIMT11/4X11/4X3/8	**20/40**		
BIMT11/4X11/4X1/2 UF	20/40		
BIMT11/4x11/4x3/4 UF	20/40	GIMT11/4x11/4x3/4 UF	20/40
BIMT11/4x11/4x1 UF	20/40	GIMT11/4x11/4x1 UF	20/40
BIMT11/4x1x11/4 UF	15/30	GIMT11/4x1x11/4 UF	15/30
BIMT11/2X1/2X11/2 UF	12/24	GIMT11/2X1/2X11/2 UF	12/24
BIMT11/2X3/4X3/4 F	15/30	GIMT11/2X3/4X3/4 F	15/30
BIMT11/2X3/4X11/4 F	12/24	GIMT11/2X3/4X11/4 F	12/24
BIMT11/2X3/4X11/2 UF	12/24	GIMT11/2X3/4X11/2 UF	12/24
BIMT11/2X1X1/2	**15/30**		
BIMT11/2X1X3/4 F	15/30	GIMT11/2X1X3/4 F	15/30
BIMT11/2X1X1 UF	15/30	GIMT11/2X1X1 UF	15/30
BIMT11/2X1X11/4	**12/24**		
BIMT11/2X1X11/2 UF	12/24	GIMT11/2X1X11/2 UF	12/24
BIMT11/2X11/4X1/2	**12/24**		
BIMT11/2X11/4X3/4 UF	12/24	GIMT11/2X11/4X3/4 UF	12/24
BIMT11/2X11/4X1 UF	12/24	GIMT11/2X11/4X1 UF	12/24
BIMT11/2X11/4X11/4 UF	12/24	GIMT11/2X11/4X11/4 UF	12/24
BIMT11/2X11/4X11/2	**12/24**		
BIMT11/2X11/2X1/2 UF	18/36	GIMT11/2X11/2X1/2 UF	18/36

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Third Party Certified to NSF/ANSI 61 & 372



BIMT/GIMT
Reducer Series



BIMST/GIMST
Reducer Series



BIMCR/GIMCR Series

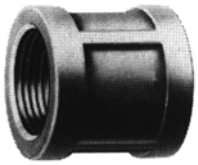
U - UL Approval
F - FM Approval

BLACK		GALVANIZED	
Size	Inner/Master Ctn Qty	Size	Inner/Master Ctn Qty
BIMT11/2x11/2x3/4 UF	18/36	GIMT11/2x11/2x3/4 UF	18/36
BIMT11/2x11/2x1 UF	15/30	GIMT11/2x11/2x1 UF	15/30
BIMT11/2X11/2X11/4 UF	12/24	GIMT11/2X11/2X11/4 UF	12/24
BIMT11/2X11/2X2	**8/32**		
BIMT2X1/2X1/2	**12/24**		
BIMT2X1/2X2 UF	8/16	GIMT2X1/2X2 UF	8/16
BIMT2X3/4X3/4	12/24	GIMT2X3/4X3/4	12/24
BIMT2X3/4X2 UF	8/16	GIMT2X3/4X2 UF	8/16
BIMT2X1X1	**12/24**		
BIMT2X1X2 UF	8/16	GIMT2X1X2 UF	8/16
BIMT2X11/4X1	**8/16**		
BIMT2X11/4X11/4	**8/16**		
BIMT2X11/4X11/2	**8/16**		
BIMT2X11/4X2	**8/16**		
BIMT2X11/2X3/4	**10/20**		
BIMT2X11/2X1	**10/20**		
BIMT2X11/2X11/4 UF	8/16	GIMT2X11/2X11/4 UF	8/16
BIMT2X11/2X11/2 UF	8/16	GIMT2X11/2X11/2 UF	8/16
BIMT2X11/2X2 UF	8/16	GIMT2X11/2X2 UF	8/16
BIMT2X2X1/2 UF	10/20	**GIMT2X2X1/2**	**10/20**
BIMT2X2X3/4	**10/20**	**GIMT2X2X3/4**	**9/18**
BIMT2X2X1 UF	10/20	GIMT2X2X1 UF	10/20
BIMT2X2X11/4 UF	8/16	GIMT2X2X11/4 UF	8/16
BIMT2X2X11/2 UF	8/16	GIMT2X2X11/2 UF	8/16
BIMT21/2X21/2X3/4	**6/12**		
BIMT21/2X21/2X1 UF	5/10	GIMT21/2X21/2X1 UF	5/10
BIMT21/2X21/2X11/4	**5/10**		
BIMT21/2X21/2X11/2 UF	5/10	GIMT21/2X21/2X11/2 UF	5/10
BIMT21/2X21/2X2 UF	4/8	GIMT21/2X21/2X2 UF	4/8
BIMT3X3X3/4 UF	3/6	GIMT3X3X3/4 UF	3/6
BIMT3X3X1 UF	3/6	GIMT3X3X1 UF	3/6
BIMT3X3X11/4 UF	3/6	GIMT3X3X11/4 UF	3/6
BIMT3X3X11/2 UF	3/6	GIMT3X3X11/2 UF	3/6
BIMT3X3X2 UF	3/6	GIMT3X3X2 UF	3/6
BIMT3X3X21/2 UF	3/6	GIMT3X3X21/2 UF	3/6
STREET TEE fiptxmiptxfipt		**STREET TEE fiptxmiptxfipt**	
BIMST1/2 UF	40/120	GIMST1/2 UF	40/120
BIMST3/4 UF	25/75	GIMST3/4 UF	25/75
BIMST1 UF	20/40	GIMST1 UF	20/40
BIMST11/4 UF	20/40	GIMST11/4 UF	20/40
CROSS fipt		**CROSS fipt**	
BIMCR1/8	30/360	GIMCR1/8	30/360
BIMCR1/4	80/240	GIMCR1/4	80/240
BIMCR3/8	50/150	GIMCR3/8	50/150
BIMCR1/2 UF	30/90	GIMCR1/2 UF	30/90
BIMCR3/4 UF	20/60	GIMCR3/4 UF	20/60
BIMCR1 UF	15/30	GIMCR1 UF	15/30
BIMCR11/4 UF	10/20	GIMCR11/4 UF	10/20
BIMCR11/2 UF	8/16	GIMCR11/2 UF	8/16
BIMCR2 UF	5/10	GIMCR2 UF	5/10
BIMCR21/2 UF	3/6	GIMCR21/2 UF	3/6
BIMCR3 UF	2/4	GIMCR3 UF	2/4
BIMCR4 UF	2/4	GIMCR4 UF	2/4

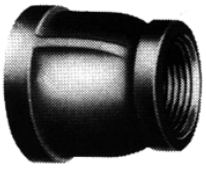
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Malleable Iron Fittings - Imported

NO LEAD
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Third Party Certified to NSF/ANSI 61 & 372



BIMRHC/GIMRHC Series



BIMRC/GIMRC Reducer Series

U - UL Approval
F - FM Approval

Size	BLACK Inner/Master Ctn Qty	Size	GALVANIZED Inner/Master Ctn Qty
RIGHT HAND COUPLING fiptxfipt		**RIGHT HAND COUPLING fiptxfipt**	
BIMRHC1/8	**70/210**		
BIMRHC1/4	40/480	GIMRHC1/4	40/480
BIMRHC3/8	40/480	GIMRHC3/8	40/480
BIMRHC1/2 UF	60/240	GIMRHC1/2 UF	60/240
BIMRHC3/4 UF	50/150	GIMRHC3/4 UF	50/150
BIMRHC1 UF	25/100	GIMRHC1 UF	25/100
BIMRHC11/4 UF	16/64	GIMRHC11/4 UF	16/64
BIMRHC11/2 UF	12/36	GIMRHC11/2 UF	12/36
BIMRHC2 UF	12/24	GIMRHC2 UF	12/24
BIMRHC21/2 UF	8/16	GIMRHC21/2 UF	8/16
BIMRHC3 UF	1/12	GIMRHC3 UF	1/12
BIMRHC4 UF	3/6	GIMRHC4 UF	3/6
REDUCING COUPLING fiptxfipt		**REDUCING COUPLING fiptxfipt**	
BIMRC1/4 x 1/8	50/600	GIMRC1/4 x 1/8	50/600
BIMRC3/8 x 1/8	**35/420**		
BIMRC3/8 x 1/4	30/360	GIMRC3/8 x 1/4	30/360
BIMRC1/2 x 1/8	**75/300**		
BIMRC1/2 x 1/4 U	75/300	GIMRC1/2 x 1/4 U	75/300
BIMRC1/2 x 3/8 UF	60/240	GIMRC1/2 x 3/8 UF	60/240
BIMRC3/4X1/8	**70/210**		
BIMRC3/4X1/4 U	45/180	GIMRC3/4X1/4 U	45/180
BIMRC3/4 x 3/8 UF	45/180	GIMRC3/4 x 3/8 UF	45/180
BIMRC3/4 x 1/2 UF	60/180	GIMRC3/4 x 1/2 UF	60/180
BIMRC1X1/4	**45/135**	**GIMC1X1/4**	**40/120**
BIMRC1X3/8 UF	30/120	GIMRC1X3/8 UF	30/120
BIMRC1 x 1/2 UF	30/120	GIMRC1 x 1/2 UF	30/120
BIMRC1 x 3/4 UF	25/100	GIMRC1 x 3/4 UF	25/100
BIMRC11/4 x 1/2 UF	25/75	GIMRC11/4 x 1/2 UF	25/75
BIMRC11/4 x 3/4 UF	25/75	GIMRC11/4 x 3/4 UF	25/75
BIMRC11/4 x 1 UF	15/60	GIMRC11/4 x 1 UF	15/60
BIMRC11/2 x 1/2	**20/60**		
BIMRC11/2 x 3/4 UF	15/60	GIMRC11/2 x 3/4 UF	15/60
BIMRC11/2 x 1 UF	25/50	GIMRC11/2 x 1 UF	25/50
BIMRC11/2 x 11/4 UF	12/48	GIMRC11/2 x 11/4 UF	12/48
BIMRC2 x 1/2 UF	12/36	GIMRC2 x 1/2 UF	12/36
BIMRC2 x 3/4 UF	12/36	GIMRC2 x 3/4 UF	12/36
BIMRC2 x 1 UF	12/36	GIMRC2 x 1 UF	12/36
BIMRC2 x 11/4 UF	9/27	GIMRC2 x 11/4 UF	9/27
BIMRC2 x 11/2 UF	9/27	GIMRC2 x 11/2 UF	9/27
BIMRC21/2X1	**10/20**		
BIMRC21/2 x 11/4	**10/20**		
BIMRC21/2X11/2 UF	7/14	GIMRC21/2X11/2 UF	7/14
BIMRC21/2X2 UF	7/14	GIMRC21/2X2 UF	7/14
BIMRC3X1	6/12	GIMRC3X1	6/12
BIMRC3X11/4	6/12	GIMRC3X11/4	6/12
BIMRC3X11/2 UF	6/12	GIMRC3X11/2 UF	6/12
BIMRC3X2 UF	6/12	GIMRC3X2 UF	6/12
BIMRC3X21/2 UF	5/10	GIMRC3X21/2 UF	5/10
BIMRC4X2 UF	3/6	GIMRC4X2 UF	3/6
BIMRC4X3 UF	3/6	GIMRC4X3 UF	3/6

Malleable Iron Fittings - Imported

NO LEAD
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Third Party Certified to NSF/ANSI 61 & 372



BIMHB/GIMHB Series

BLACK		GALVANIZED	
Size	Inner/Master Ctn Qty	Size	Inner/Master Ctn Qty
HEX BUSHING miptxfipt		**HEX BUSHING miptxfipt**	
BIMHB3/8X1/8	**75/900**	**GIMHB3/8X1/8**	**75/900**
BIMHB1/4X1/8	120/1440	GIMHB1/4X1/8	120/1440
BIMHB3/8x1/4	75/900	GIMHB3/8X1/4	75/900
BIMHB1/2x1/8 U	150/600	GIMHB1/2x1/8 U	150/600
BIMHB1/2x1/4 UF	150/600	GIMHB1/2x1/4 UF	150/600
BIMHB1/2x3/8 UF	150/600	GIMHB1/2x3/8 UF	150/600
BIMHB3/4X1/8 U	75/300	GIMHB3/4X1/8 U	75/300
BIMHB3/4x1/4 U	75/300	GIMHB3/4x1/4 U	75/300
BIMHB3/4x3/8 UF	75/300	GIMHB3/4x3/8 UF	75/300
BIMHB3/4x1/2 UF	75/300	GIMHB3/4x1/2 UF	75/300
BIMHB1X1/8 U	50/200	GIMHB1X1/8 U	50/200
BIMHB1X1/4 U	50/200	GIMHB1X1/4 U	50/200
BIMHB1X3/8 U	50/200	GIMHB1X3/8 U	50/200
BIMHB1x1/2 UF	50/200	GIMHB1x1/2 UF	50/200
BIMHB1x3/4 UF	50/200	GIMHB1x3/4 UF	50/200
BIMHB11/4X1/4 U	30/120	GIMHB11/4X1/4 U	30/120
BIMHB11/4X3/8 U	30/120	GIMHB11/4X3/8 U	30/120
BIMHB11/4x1/2 UF	30/120	GIMHB11/4x1/2	30/120
BIMHB11/4x3/4 UF	30/120	GIMHB11/4x3/4 UF	30/120
BIMHB11/4x1 UF	30/120	GIMHB11/4x1 UF	30/120
BIMHB11/2X1/4 U	25/75	GIMHB11/2X1/4 U	25/75
BIMHB11/2x1/2 UF	25/75	GIMHB11/2x1/2 UF	25/75
BIMHB11/2x3/4 UF	25/75	GIMHB11/2x3/4 UF	25/75
BIMHB11/2x1 UF	25/75	GIMHB11/2x1 UF	25/75
BIMHB11/2x11/4 UF	25/75	GIMHB11/2X11/4 UF	25/75
BIMHB2X1/4 U	20/60	GIMHB2X1/4 U	20/60
BIMHB2X3/8	**20/60**		
BIMHB2x1/2 UF	20/60	GIMHB2 x 1/2 UF	20/60
BIMHB2x3/4 UF	20/60	GIMHB2 x 3/4 UF	20/60
BIMHB2x1 UF	20/60	GIMHB2 x 1 F	20/60
BIMHB2x11/4 UF	20/60	GIMHB2 x 11/4 UF	20/60
BIMHB2x11/2 UF	20/60	GIMHB2 x 11/2 UF	20/60
BIMHB21/2X3/4 UF	15/30	GIMHB21/2X3/4 UF	15/30
BIMHB21/2X1 UF	15/30	GIMHB21/2X1 UF	15/30
BIMHB21/2X11/4 UF	15/30	GIMHB21/2X11/4 UF	15/30
BIMHB21/2X11/2 UF	15/30	GIMHB21/2X11/2 UF	15/30
BIMHB21/2X2 UF	15/30	GIMHB21/2X2 UF	15/30
BIMHB3X3/4 UF	12/24	GIMHB3X3/4 UF	12/24
BIMHB3X1 UF	12/24	GIMHB3X1 UF	12/24
BIMHB3X11/4 UF	12/24	GIMHB3X11/4 UF	12/24
BIMHB3X11/2 UF	12/24	GIMHB3X11/2 UF	12/24
BIMHB3X2 UF	12/24	GIMHB3X2 UF	12/24
BIMHB3X21/2 UF	12/24	GIMHB3X21/2 UF	12/24
BIMHB31/2X3 UF	8/16	GIMHB31/2X3 UF	6/16
BIMHB4X3/4 F	5/10	GIMHB4X3/4 F	5/10
BIMHB4X1 F	5/10	GIMHB4X1 F	5/10
BIMHB4X11/4 UF	5/10	GIMHB4X11/4 UF	5/10
BIMHB4X11/2 UF	5/10	GIMHB4X11/2 UF	5/10
BIMHB4X2 F	5/10	GIMHB4X2 F	5/10
BIMHB4X21/2 F	5/10	GIMHB4X21/2 F	5/10
BIMHB4X3 UF	5/10	GIMHB4X3 UF	5/10

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F - FM Approval

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BLACK ☺ Steel, Made in USA **GALVANIZED**



BIMHB/GIMHB Series

Size	Inner/Master Ctn Qty
HEX BUSHING miptxfipt	
BIMHB5X2	**2/4**
BIMHB5X3	**2/4**
BIMHB5/4	**2/4**
BIMHB6X21/2	**2/4**
BIMHB6X3	**2/4**
BIMHB6X4	**2/4**

Size	Inner/Master Ctn Qty



BIMCA/GIMCA Series

CAP fipt	
BIMCA1/8	**120/1440**
BIMCA1/4	**80/960**
BIMCA3/8	60/720
BIMCA1/2 UF	75/300
BIMCA3/4 UF	40/160
BIMCA1 UF	25/100
BIMCA11/4 UF	20/80
BIMCA11/2 UF	18/54
BIMCA2 UF	12/36
BIMCA21/2 UF	20/40
BIMCA3 UF	12/24
BIMCA4 UF	6/12
BIMCA6 UF	2/4

CAP fipt	
GIMCA1/4	**80/960**
GIMCA3/8	60/720
GIMCA1/2 UF	75/300
GIMCA3/4 UF	40/160
GIMCA1 UF	25/100
GIMCA11/4 UF	20/80
GIMCA11/2 UF	18/54
GIMCA2 UF	12/36
GIMCA21/2 UF	20/40
GIMCA3 UF	12/24
GIMCA4 UF	6/12
GIMCA6 UF	2/4



BIMP/GIMP Square Head Series

Square Head Plug mipt	
BIMP1/8 ☺	300/3600
BIMP1/4 ☺	150/1800
BIMP3/8 ☺	100/1200
BIMP1/2 UF ☺	50/600
BIMP3/4 UF ☺	30/360
BIMP1 UF	20/240
BIMP11/4 UF	40/120
BIMP11/2 UF	30/90
BIMP2 UF	20/60
BIMP21/2 UF	16/32
BIMP3 UF	16/32
BIMP4 F	6/12
BIMP4 BAR	**5/10**
BIMP5 UF	5/10
BIMP5 BAR	5/10
BIMP6 UF	1/5
BIMP6 BAR	3/6

Square Head Plug mipt	
GIMP1/8 ☺	300/3600
GIMP1/4 ☺	150/1800
GIMP3/8 ☺	100/1200
GIMP1/2 UF ☺	50/600
GIMP3/4 UF ☺	30/360
GIMP1 UF	20/240
GIMP11/4 UF	40/120
GIMP11/2 UF	30/90
GIMP2 UF	20/60
GIMP21/2 UF	16/32
GIMP3 UF	16/32
GIMP4 F	6/12
GIMP4 BAR	**5/10**
GIMP5 UF	5/10
GIMP5 BAR	5/10
GIMP6 UF	1/5
GIMP6 BAR	3/6



BIMP/GIMP Bar Head Series

U - UL Approval
F - FM Approval

☺ Steel, Made in USA

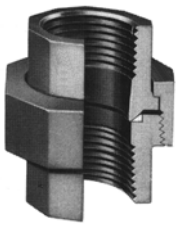
Carton Quantities subject to change, contact Customer Service.

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Malleable Iron Fittings - Imported

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

BLACK ☺ Steel, Made in USA **GALVANIZED**



BIMU/GIMU Series
Iron to NL Brass Seat



BIMFF/GIMFF Series



BIMEP/GIMEP Series

Size	Inner/Master Ctn Qty
Unions, 150 lbs UL Listed fiptxfipt	
BIMU150-1/8	60/240
BIMU150-1/4	20/240
BIMU150-3/8	40/160
BIMU150-1/2 UF	50/100
BIMU150-3/4 UF	35/70
BIMU150-1 UF	20/40
BIMU150-11/4 UF	15/30
BIMU150-11/2 UF	10/20
BIMU150-2 UF	6/12
BIMU150-21/2 UF	4/8
BIMU150-3 UF	4/8
FLOOR FLANGE fipt	
BIMFF1/4	10/30
BIMFF3/8	25/75
BIMFF1/2 F	25/50
BIMFF3/4 F	15/45
BIMFF1 F	15/30
BIMFF11/4 F	10/30
BIMFF11/2 F	8/24
BIMFF2 F	8/16
EXTENSION PIECE	
BIMEP1/2 F	75/300
BIMEP3/4 F	40/160
BIMEP1 F	30/90
BIMEP11/4 F	15/60
BIMEP11/2 F	10/40
BIMEP2 F	15/30

Size	Inner/Master Ctn Qty
Unions, 150 lbs UL Listed fiptxfipt	
GIMU150-1/8	60/240
GIMU150-1/4	20/240
GIMU150-3/8	40/160
GIMU150-1/2 UF	50/100
GIMU150-3/4 UF	35/70
GIMU150-1 UF	20/40
GIMU150-11/4 UF	15/30
GIMU150-11/2 UF	10/20
GIMU150-2 UF	6/12
GIMU150-21/2 UF	4/8
GIMU150-3 UF	4/8
GIMU150-4	1
FLOOR FLANGE fipt	
GIMFF1/4	10/30
GIMFF3/8	25/75
GIMFF1/2 F	25/50
GIMFF3/4 F	15/45
GIMFF1 F	15/30
GIMFF11/4 F	10/30
GIMFF11/2 F	8/24
GIMFF2 F	8/16
EXTENSION PIECE	
GIMEP1/2 F	75/300
GIMEP3/4 F	40/160
GIMEP1 F	30/90
GIMEP11/4 F	15/60
GIMEP11/2 F	10/40
GIMEP2 F	15/30

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Malleable Iron Fittings - Domestic

Domestic Malleable Iron Fitting Features:

- Class 150 malleable iron pipe fittings
- Suitable for water, steam, air, gas and oil
- All fittings are air pressure tested
- Working pressure:
  Max: 300 psi @ -20°F to 150°F.
  Min 150 psi @ 366°F
- Made in USA
- **Galvanized: Third party certified to NSF/ANSI 61&372.**

Malleable Iron Fitting Specifications:

Material:	ASTM A197
Dimensions:	ANSI/ASME B16.3
	ANSI/ASME B1.20.1
Pressure ratings:	ANSI/ASME B16.3
Coatings:	ASTM A153, A165

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



BM90L/GM90L Series



BM90L/GM90L Reducer Series

BLACK		GALVANIZED	
Size	**Ctn Qty**	**Size**	**Ctn Qty**
90º ELBOW fiptxfipt		**90º ELBOW fiptxfipt**	
BM90L1/8	35/210	GM90L1/8	35/210
BM90L1/4	30/180	GM90L1/4	30/180
BM90L3/8	30/180	GM90L3/8	30/180
BM90L1/2	50/200	GM90L1/2	50/200
BM90L3/4	35/140	GM90L3/4	35/140
BM90L1	20/80	GM90L1	20/80
BM90L11/4	20/40	GM90L11/4	20/40
BM90L11/2	8/32	GM90L11/2	8/32
BM90L2	8/16	GM90L2	8/16
BM90L21/2	12	GM90L21/2	12
BM90L3	5	GM90L3	5
BM90L4	4	GM90L4	4
90º ELBOW REDUCER fiptxfipt		**90º ELBOW REDUCER fiptxfipt**	
BM90L3/8 x 1/4	25/150	GM90L3/8 x 1/4	25/150
BM90L1/2 x 1/4	30/180	GM90L1/2 x 1/4	30/180
BM90L1/2 x 3/8	50/200	GM90L1/2 x 3/8	50/200
BM90L3/4 x 3/8	30/180	GM90L3/4 x 3/8	30/180
BM90L3/4 x 1/2	30/120	GM90L3/4 x 1/2	30/120
BM90L1 x 1/2	25/100	GM90L1 x 1/2	25/100
BM90L1 x 3/4	20/80	GM90L1 x 3/4	20/80
BM90L11/4 x 3/4	15/60	GM90L11/4 x 3/4	15/60
BM90L11/4 x 1	10/40	GM90L11/4 x 1	10/40
BM90L11/2 x 1/2	12/48	GM90L11/2 x 1/2	12/48
BM90L11/2 x 3/4	12/48	GM90L11/2 x 3/4	12/48
BM90L11/2 x 1	10/40	GM90L11/2 x 1	10/40
BM90L11/2 x 11/4	15/30	GM90L11/2 x 11/4	15/30
BM90L2 x 1/2	10/40	GM90L2 x 1/2	10/40
BM90L2 x 3/4	15/30	GM90L2 x 3/4	15/30
BM90L2 x 1	12/24	GM90L2 x 1	12/24
BM90L2 x 11/4	10/20	GM90L2 x 11/4	10/20
BM90L2 x 11/2	10/20	GM90L2 x 11/2	10/20
BM90L21/2 x 11/2	12	GM90L21/2 x 11/2	12
		GM90L3 x 2	8

Case quantities required please for fittings through 2"

Malleable Iron Fittings - Domestic

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



BM45L/GM45L Series



BM90SL/GM90SL Series



BM45SL/GM45SL Series



BMT/GMT Series

BLACK		GALVANIZED	
Size	**Ctn Qty**	**Size**	**Ctn Qty**
45º ELBOW fiptxfipt		**45º ELBOW fiptxfipt**	
BM45L1/4	35/210	GM45L1/4	35/210
BM45L3/8	40/240	GM45L3/8	40/240
BM45L1/2	50/200	GM45L1/2	50/200
BM45L3/4	40/160	GM45L3/4	40/160
BM45L1	25/100	GM45L1	25/100
BM45L11/4	10/40	GM45L11/4	10/40
BM45L11/2	10/40	GM45L11/2	10/40
BM45L2	8/16	GM45L2	8/16
BM45L21/2	15	GM45L21/2	15
BM45L3	8	GM45L3	8
BM45L4	4	GM45L4	4
90º STREET ELBOW fiptxmipt		**90º STREET ELBOW fiptxmipt**	
BM90SL1/8	40/240	GM90SL1/8	40/240
BM90SL1/4	30/180	GM90SL1/4	30/180
BM90SL3/8	30/180	GM90SL3/8	30/180
BM90SL1/2	50/200	GM90SL1/2	50/200
BM90SL3/4	35/140	GM90SL3/4	35/140
BM90SL1	20/80	GM90SL1	20/80
BM90SL11/4	15/30	GM90SL11/4	15/30
BM90SL11/2	12/24	GM90SL11/2	12/24
BM90SL11/2 x 11/4	16/32	GM90SL11/2 x 11/4	16/32
BM90SL2	8/16	GM90SL2	8/16
BM90SL21/2	8	GM90SL21/2	8
BM90SL3	8	GM90SL3	8
45º STREET ELBOW fiptxmipt		**45º STREET ELBOW fiptxmipt**	
BM45SL1/8	30/180	GM45SL1/8	30/180
BM45SL3/8	30/180	GM45SL3/8	30/180
BM45SL1/2	50/200	GM45SL1/2	50/200
BM45SL3/4	40/160	GM45SL3/4	40/160
BM45SL1	25/100	GM45SL1	25/100
BM45SL11/4	25/50	GM45SL11/4	25/50
BM45SL11/2	15/30	GM45SL11/2	15/30
BM45SL2	10/20	GM45SL2	10/20
TEE fiptxfiptxfipt		**TEE fiptxfiptxfipt**	
BMT1/8	35/210	GMT1/8	35/210
BMT1/4	35/210	GMT1/4	35/210
BMT3/8	30/180	GMT3/8	30/180
BMT1/2	30/120	GMT1/2	30/120
BMT3/4	20/80	GMT3/4	20/80
BMT1	12/48	GMT1	12/48
BMT11/4	15/30	GMT11/4	15/30
BMT11/2	10/20	GMT11/2	10/20
BMT2	15	GMT2	15
BMT21/2	8	GMT21/2	8
BMT3	6	GMT3	6
BMT4	3	GMT4	3

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Malleable Iron Fittings - Domestic

NO LEAD
< 0.25% Pb by weighted avg
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BMT/GMT
Reducer Series



Size	Ctn Qty	Size	Ctn Qty
TEE Reducing fiptxfiptxfipt		**TEE Reducing fiptxfiptxfipt**	
BMT1/2 x 1/2 x 1/4	25/100	GMT1/2 x 1/2 x 3/8	35/140
BMT1/2 x 1/2 x 3/4	30/120		
BMT3/4 x 1/2 x 1/2	30/120	GMT3/4 x 1/2 x 1/2	30/120
BMT3/4 x 3/4 x 1/4	30/120	GMT3/4 x 3/4 x 1/4	30/120
BMT3/4 x 3/4 x 3/8	30/120		
BMT3/4 x 3/4 x 1/2	25/100	GMT3/4 x 3/4 x 1/2	25/100
BMT3/4 x 1/2 x 3/4	20/80	GMT3/4 x 1/2 x 3/4	20/80
BMT3/4 x 3/4 x 1	15/60	GMT3/4 x 3/4 x 1	15/60
		GMT1 x 1/4 x 1	15/80
BMT1 x 1/2 x 1/2	20/80	GMT1 x 1/2 x 1/2	20/80
BMT1 x 1/2 x 3/4	20/80	GMT1 x 1/2 x 1	15/60
BMT1 x 1/2 x 1	15/60	GMT1 x 3/4x 1/2	20/40
BMT1 x 3/4x 1/2	20/40	GMT1 x 3/4 x 3/4	20/40
BMT1 x 3/4 x 3/4	20/40	GMT1 x 3/4 x 1	20/40
BMT1 x 3/4 x 1	20/40	GMT1 x 1 x 1/4	20/80
BMT1 x 1 x 1/4	20/80	GMT1 x 1 x 1/2	15/60
BMT1 x 1 x 1/2	15/60	GMT1 x 1 x 3/4	25/50
BMT1 x 1 x 3/4	25/50	GMT1 x 1 x 11/4	15/30
BMT1 x 1 x 11/4	15/30	GMT11/4 x 1/2 x 11/4	10/40
BMT11/4 x 1/2 x 11/4	10/40	GMT11/4 x 3/4 x 3/4	10/40
BMT11/4 x 3/4 x 3/4	10/40	GMT11/4 x 3/4 x 1	10/40
BMT11/4 x 3/4 x 1	10/40	GMT11/4 x 3/4 x 11/4	15/30
BMT11/4 x 3/4 x 11/4	15/30	GMT11/4 x 1 x 1	15/30
BMT11/4 x 1 x 1	15/30	GMT11/4 x 11/4 x 1/2	15/30
BMT11/4 x 11/4 x 1/2	15/30	GMT11/4 x 11/4 x 3/4	12/24
BMT11/4 x 11/4 x 3/4	12/24	GMT11/4 x 11/4 x 1	14/28
BMT11/4 x 11/4 x 1	14/28	GMT11/4 x 1 x 11/4	15/30
BMT11/4 x 1 x 11/4	15/30	GMT11/2 x 1/2 x 11/2	10/20
BMT11/2 x 1/2 x 11/2	10/20	GMT11/2 x 3/4 x 3/4	10/40
BMT11/2 x 3/4 x 3/4	10/40	GMT11/2 x 3/4 x 11/2	10/20
BMT11/2 x 3/4 x 11/2	10/20	GMT11/2 x 1 x 11/2	10/20
BMT11/2 x 1 x 11/2	10/20	GMT11/2 x 11/4 x 3/4	10/20
BMT11/2 x 11/4 x 3/4	10/20	GMT11/2 x 11/4 x 1	8/16
BMT11/2 x 11/4 x 1	8/16	GMT11/2 x 11/4 x 11/4	10/20
BMT11/2 x 11/4 x 11/4	10/20	GMT11/2 x 11/4 x 11/2	10/20
BMT11/2 x 11/4 x 11/2	10/20	GMT11/2 x 11/2 x 1/2	8/32
BMT11/2 x 11/2 x 1/2	8/32	GMT11/2 x 11/2 x 3/4	10/20
BMT11/2 x 11/2 x 3/4	10/20	GMT11/2 x 11/2 x 1	10/20
BMT11/2 x 11/2 x 1	10/20	GMT11/2 x 11/2 x 11/4	8/40
BMT11/2 x 11/2 x 11/4	8/40	GMT2 x 1/2 x 2	8/16
BMT2 x 1/2 x 2	8/16	GMT2 x 3/4 x 2	8/16
BMT2 x 3/4 x 2	8/16	GMT2 x 1 x 2	8/16
BMT2 x 1 x 2	8/16	GMT2 x 2 x 1/2	10/20
BMT2 x 2 x 1/2	10/20	GMT2 x 2 x 3/4	10/20
BMT2 x 2 x 3/4	10/20	GMT2 x 2 x 1	10/20
BMT2 x 2 x 1	10/20	GMT2 x 2 x 11/4	8/16
BMT2 x 2 x 11/4	8/16	GMT2 x 2 x 11/2	8/16
BMT2 x 2 x 11/2	8/16	GMT2 x 11/4 x 11/4	8/16
BMT2 x 11/4 x 11/4	8/16	GMT2 x 11/2x11/4	8/16
BMT2 x 11/2 x 11/4	8/16		
BMT2 x 11/2 x 11/2	8/16		
BMT21/2 x 21/2 x 2	12	GMT21/2 x 21/2 x 2	12

Malleable Iron Fittings - Domestic

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



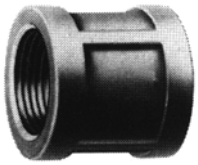
BMT/GMT
Reducer Series



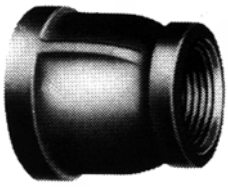
BMST/GSMT Series



BMCR/GMCR Series



BMRHC/GMRHC
Series



BMRHC/GMRHC
Reducer Series

Size	Ctn Qty
BLACK	
TEE Reducing, Cont. fiptxfiptxfipt	
BMT3 x 3 x 3/4	8
BMT3 x 3 x 1	8
BMT3 x 3 x 11/4	8
BMT3 x 3 x 11/2	8
BMT3 x 3 x 2	8
BMT3 x 3 x 21/2	8
STREET TEE fiptxmiptxfipt	
BMST3/4	20/80
BMST1	12/24
BMST11/4	10/20
CROSS fipt	
BMCR1/2	30/120
BMCR3/4	15/60
BMCR1	15/30
BMCR11/4	12/24
BMCR11/2	8/16
BMCR2	8
Right Hand Coupling fiptxfipt	
BMRHC1/4	35/210
BMRHC3/8	40/240
BMRHC1/2	40/240
BMRHC3/4	40/160
BMRHC1	25/100
BMRHC11/4	15/60
BMRHC11/2	10/40
BMRHC2	8/32
BMRHC21/2	8
BMRHC3	8
BMRHC4	4
REDUCING COUPLING fiptxfipt	
BMRC1/4 x 1/8 ☺	25/150
BMRC3/8 x 1/4	25/150
BMRC1/2 x 1/4	25/150
BMRC1/2 x 3/8	30/180
BMRC3/4 x 1/4	35/210
BMRC3/4 x 3/8	35/210
BMRC3/4 x 1/2	50/200
BMRC1 x 3/8	30/120
BMRC1 x 1/2	30/120
BMRC1 x 3/4	25/100
BMRC11/4 x 1/2	15/60
BMRC11/4 x 3/4	15/60
BMRC11/4 x 1	15/60

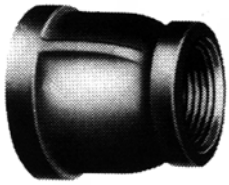
Size	Ctn Qty
GALVANIZED	
TEE Reducing, Cont. fiptxfiptxfipt	
GMT3 x 3 x 3/4	8
GMT3 x 3 x 1	8
GMT3 x 3 x 11/4	8
GMT3 x 3 x 11/2	8
GMT3 x 3 x 2	8
GMT3 x 3 x 21/2	8
STREET TEE fiptxmiptxfipt	
GMST3/4	20/80
GMST1	12/24
GMST11/4	10/20
CROSS fipt	
GMCR1/2	30/120
GMCR3/4	15/60
GMCR1	15/30
GMCR11/4	12/24
GMCR11/2	8/16
GMCR2	8
Right Hand Coupling fiptxfipt	
GMRHC1/4	35/210
GMRHC3/8	40/240
GMRHC1/2	40/240
GMRHC3/4	40/160
GMRHC1	25/100
GMRHC11/4	15/60
GMRHC11/2	10/40
GMRHC2	8/32
GMRHC21/2	8
GMRHC3	8
GMRHC4	4
REDUCING COUPLING fiptxfipt	
GMRC1/4 x 1/8 ☺	25/150
GMRC3/8 x 1/4	25/150
GMRC1/2 x 1/4	25/150
GMRC1/2 x 3/8	30/180
GMRC3/4 x 1/4	35/210
GMRC3/4 x 3/8	35/210
GMRC3/4 x 1/2	50/200
GMRC1 x 3/8	30/120
GMRC1 x 1/2	30/120
GMRC1 x 3/4	25/100
GMRC11/4 x 1/2	15/60
GMRC11/4 x 3/4	15/60
GMRC11/4 x 1	15/60

☺ Steel

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Malleable Iron Fittings - Domestic

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



BMRHC/GMRHC
Reducer Series



BMHB/GMHB Series

Size	BLACK Ctn Qty	Size	GALVANIZED Ctn Qty
REDUCING COUPLING - con't fiptxfipt		**REDUCING COUPLING - con't fiptxfipt**	
BMRC11/2 x 1/2	15/60	GMRC11/2 x 1/2	15/60
BMRC11/2 x 3/4	10/40	GMRC11/2 x 3/4	10/40
BMRC11/2 x 1	10/40	GMRC11/2 x 1	10/40
BMRC11/2 x 11/4	10/40	GMRC11/2 x 11/4	10/40
BMRC2 x 1/2	8/32	GMRC2 x 1/2	8/32
BMRC2 x 3/4	8/32	GMRC2 x 3/4	8/32
BMRC2 x 1	15/30	GMRC2 x 1	15/30
BMRC2 x 11/4	10/20	GMRC2 x 11/4	10/20
BMRC2 x 11/2	10/20	GMRC2 x 11/2	10/20
BMRC21/2 x 11/2	10	GMRC21/2 x 11/2	10
BMRC21/2 x 2	10	GMRC21/2 x 2	10
BMRC3 x 1	8	GMRC3 x 1	8
BMRC3 x 11/4	8	GMRC3 x 11/4	8
BMRC3 x 11/2	8	GMRC3 x 11/2	8
BMRC3 x 2	8	GMRC3 x 2	8
BMRC3 x 21/2	8	GMRC3 x 21/2	8
BMRC4 x 2	4	GMRC4 x 2	4
BMRC4 x 3	4	GMRC4 x 3	4
HEX BUSHING miptxfipt		**HEX BUSHING miptxfipt**	
BMHB1/4 x 1/8 ☺	25/150	GMHB1/4 x 1/8 ☺	25/150
BMHB3/8 x 1/8 ☺	25/150	GMHB3/8 x 1/8 ☺	25/150
BMHB3/8 x 1/4 ☺	25/150	GMHB3/8 x 1/4 ☺	25/150
BMHB1/2 x 1/8 ☺	25/150	GMHB1/2 x 1/8 ☺	25/150
BMHB1/2 x 1/4 ☺	25/150	GMHB1/2 x 1/4 ☺	25/150
BMHB1/2 x 3/8 ☺	25/150	GMHB1/2 x 3/8 ☺	25/150
BMHB3/4 x 1/8	25/150	GMHB3/4 x 1/8	25/150
BMHB3/4 x 1/4	25/150	GMHB3/4 x 1/4	25/150
BMHB3/4 x 3/8	25/150	GMHB3/4 x 3/8	25/150
BMHB3/4 x 1/2	25/150	GMHB3/4 x 1/2	25/150
BMHB1 x 1/8	25/150	GMHB1 x 1/8	25/150
BMHB1 x 1/4	25/150	GMHB1 x 1/4	25/150
BMHB1 x 3/8	25/150	GMHB1 x 3/8	25/150
BMHB1 x 1/2	25/150	GMHB1 x 1/2	25/150
BMHB1 x 3/4	25/150	GMHB1 x 3/4	25/150
BMHB11/4 x 1/8	25/150	GMHB11/4 x 1/8	25/150
BMHB11/4x1/4	25/150	GMHB11/4 X 1/4	25/150
		GMHB11/4 X 3/8	25/150
BMHB11/4 x 1/2	25/150	GMHB11/4 x 1/2	25/150
BMHB11/4 x 3/4	25/150	GMHB11/4 x 3/4	25/150
BMHB11/4 x 1	25/150	GMHB11/4 x 1	25/150
BMHB11/2 x 1/4	15/150	GMHB11/2 x 1/4	15/120
BMHB11/2 x 1/2	30/120	GMHB11/2 x 1/2	30/120
BMHB11/2 x 3/4	30/120	GMHB11/2 x 3/4	30/120
BMHB11/2 x 1	30/120	GMHB11/2 x 1	30/120
BMHB11/2 x 11/4	30/120	GMHB11/2 x 11/4	30/120
BMHB2 x 1/4	20/80	GMHB2x 1/4	20/80
BMHB2 x 1/2	20/80	GMHB2 x 1/2	20/80
BMHB2 x 3/4	20/80	GMHB2 x 3/4	20/80
BMHB2 x 1	20/80	GMHB2 x 1	20/80
BMHB2 x 11/4	20/80	GMHB2 x 11/4	20/80
BMHB2 x 11/2	20/80	GMHB2 x 11/2	20/80

☺ Steel

Malleable Iron Fittings - Domestic

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



BMHB/GMHB Series



BMFB/GMFB Series



BMCA/GMCA Series

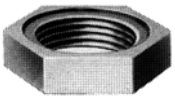
Size	BLACK Ctn Qty	Size	GALVANIZED Ctn Qty
HEX BUSHING CONT. miptxfipt		**HEX BUSHING CONT. miptxfipt**	
BMHB21/2 x 3/4	20	GMHB21/2 x 3/4	20
BMHB21/2 x 1	20	GMHB21/2 x 1	20
BMHB21/2 x 11/4	20	GMHB21/2 x 11/4	20
BMHB21/2 x 11/2	20	GMHB21/2 x 11/2	20
BMHB21/2 x 2	20	GMHB21/2 x 2	20
BMHB3 x 1/2	10/20	GMHB3x1/2	10/20
BMHB3 x 3/4	10/20	GMHB3 x 3/4	10/20
BMHB3 x 1	10/20	GMHB3 x 1	10/20
BMHB3 x 11/4	10/20	GMHB3 x 11/4	10/20
BMHB3 x 11/2	10/20	GMHB3 x 11/2	10/20
BMHB3 x 2	10/20	GMHB3 x 2	10/20
BMHB3 x 21/2	10	GMHB3 x 21/2	10
BMHB4 x 1	10	GMHB4 x 1	10
BMHB4 x 11/4	10	GMHB4 x 11/4	10
BMHB4 x 11/2	10	GMHB4 x 11/2	10
BMHB4 x 2	10	GMHB4 x 2	10
BMHB4 x 21/2	10	GMHB4 x 21/2	10
BMHB4 x 3	10	GMHB4 x 3	10
FLUSH BUSHING		**FLUSH BUSHING**	
BMFB1 x 3/4	25/150	GMFB1 x 3/4	25/150
BMFB11/4 x 1	25/150	GMFB11/4 x 1	25/150
DOUBLE TAP BUSHING		**DOUBLE TAP BUSHING**	
BMDTB2X11/4	20	GMDTB2X1X1	20
		GMDTB2X11/4X11/4	20
CAP fipt		**CAP fipt**	
BMCA1/4 ☺	40	GMCA1/4 ☺	40
BMCA3/8 ☺	40	GMCA3/8 ☺	40
BMCA1/2	50/300	GMCA1/2	50/300
BMCA3/4	40/240	GMCA3/4	40/240
BMCA1	25/150	GMCA1	25/150
BMCA11/4	25/100	GMCA11/4	25/100
BMCA11/2	20/80	GMCA11/2	20/80
BMCA2	10/40	GMCA2	10/40
BMCA21/2	6/12	GMCA21/2	6/12
BMCA3	6/12	GMCA3	6/12
BMCA4	5/10	GMCA4	5/10

☺ Steel

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Malleable Iron Fittings - Domestic

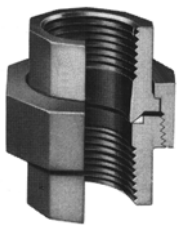
NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372



BMLN/GMLN Series



BMP/GMP Series



BMU/GMU Series



BMFF/GMFF Series

☺ Steel

BLACK		GALVANIZED	
Size	**Ctn Qty**	**Size**	**Ctn Qty**
LOCK NUT		**LOCK NUT**	
BMLN1/8 ☺	100/600	GMLN1/8 ☺	100/600
BMLN1/4 ☺	100/600	GMLN1/4 ☺	100/600
BMLN3/8	50/300	GMLN3/8	50/300
BMLN1/2	50/300	GMLN1/2	50/300
BMLN3/4	50/300	GMLN3/4	50/300
BMLN1	40/160	GMLN1	40/160
BMLN11/4	40/160	GMLN11/4	40/160
BMLN11/2	40/160	GMLN11/2	40/160
BMLN2	25/100	GMLN2	25/100
Square Head Plug mipt		**Square Head Plug mipt**	
BMP1/8 ☺	100	GMP1/8 ☺	100
BMP1/4 ☺	100	GMP1/4 ☺	100
BMP3/8 ☺	100	GMP3/8 ☺	100
BMP1/2 ☺	100	GMP1/2 ☺	100
BMP3/4 ☺	100	GMP3/4 ☺	100
BMP1	40/240	GMP1	40/240
BMP11/4	40/160	GMP11/4	40/160
BMP11/2	40/80	GMP11/2	40/80
BMP2	25/50	GMP2	40/50
BMP21/2	20/40	GMP21/2	20/40
BMP3	10/20	GMP3	10/20
BMP4 (BAR HEAD)	5/10	GMP4 (BAR HEAD)	5/10
BMP5 (BAR HEAD)	5/5	GMP5 (BAR HEAD)	5/5
Unions, 150 lbs UL Listed		**Unions, 150 lbs UL Listed 8**	
BMU150-1/8	25/150	GMU150-1/8	25/150
BMU150-1/4	35/210	GMU150-1/4	35/210
BMU150-3/8	35/210	GMU150-3/8	35/210
BMU150-1/2	40/160	GMU150-1/2	40/160
BMU150-3/4	30/60	GMU150-3/4	30/60
BMU150-1	25/50	GMU150-1	25/50
BMU150-11/4	15/30	GMU150-11/4	15/30
BMU150-11/2	12/24	GMU150-11/2	12/24
BMU150-2	8/16	GMU150-2	8/16
BMU150-21/2	8	GMU150-21/2	8
BMU150-3	8	GMU150-3	8
BMU150-4	1	GMU150-4	1
FLOOR FLANGE (diameter)				**FLOOR FLANGE (diameter)**		
BMFF1/4	2 3/8"	25/150	GMFF1/4	2 3/8"	25/150
BMFF3/8	2 15/16"	25/150	GMFF3/8	2 15/16"	25/150
BMFF1/2	3"	30/120	GMFF1/2	3"	30/120
BMFF3/4	3 1/4"	30/120	GMFF3/4	3 1/4"	30/120
BMFF1	3 7/8"	30/60	GMFF1	3 7/8"	30/60
BMFF11/4	3 7/8"	30/60	GMFF11/4	3 7/8"	30/60
BMFF11/2	4 1/2"	10/40	GMFF11/2	4 1/2"	10/40
BMFF2	5 1/2"	15/30	GMFF2	5 1/2"	15/30
BMFF21/2	5 13/16"	10	GMFF21/2	5 13/16"	10
BMFF3	6 3/8"	10	GMFF3	6 3/8"	10

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Nipples - PVC, CPVC



Schedule 80 PVC and CPVC Nipple Features:

NO LEAD < 0.25% Pb by weighted avg
Third Party Certified to NSF / ANSI 372

- Sturdy, machined from Sch 80 PVC, CPVC pipe
- Chemical Resistant.
- Gray
- For white Sch 80 PVC add **W** suffix. Available on 1/2" thru 2".
- Threaded on both ends.
- Threaded one end only (TOE) available upon request.

Size/ Part Number	Ctn Qty
1/4XCLOSE	100
1/4X2	50
1/4X3	50
1/4X4	100
1/4X12	50
1/4X18	50
3/8XCLOSE	50
3/8X2	100
3/8X8	50
1/2XCLOSE	50
1/2X11/2	50
1/2X2	50
1/2X21/2	50
1/2X3	50
1/2X4	50
1/2X5	50
1/2X6	50
1/2X8	50
1/2X10	50
1/2X12	50
1/2X18	50
1/2X24	50
1/2X30	50
1/2X36	50
1/2X48	50
3/4XCLOSE	50
3/4X2	50
3/4X21/2	50
3/4X3	50
3/4X4	50
3/4X5	25
3/4X6	25
3/4X8	25
3/4X10	25
3/4X12	25
3/4X18	25
3/4X24	25
3/4X30	25
3/4X36	25
3/4X48	25
1XCLOSE	50
1X2	50
1X21/2	50
1X3	50
1X31/2	50

Size/ Part Number	Ctn Qty
1X4	25
1X41/2	25
1X5	25
1X6	25
1X8	25
1X10	25
1X12	25
1X14	25
1X15	20
1X16	20
1X17	20
1X18	20
1X24	20
1X36	1
1X48	20
11/4XCLOSE	25
11/4X2	25
11/4X21/2	25
11/4X3	25
11/4X4	25
11/4X5	25
11/4X6	25
11/4X8	25
11/4X10	25
11/4X12	25
11/4X14	10
11/4X18	1
11/4X24	10
11/4X48	10
11/4X60	1
11/2XCLOSE	25
11/2X2	25
11/2X21/2	25
11/2X3	25
11/2X4	25
11/2X5	25
11/2X51/2	25
11/2X6	25
11/2X8	25
11/2X10	25
11/2X12	25
11/2X24	1
11/2X36	1
2XCLOSE	25
2X21/2	25
2X3	25

Size/ Part Number	Ctn Qty
2X4	25
2X5	25
2X6	25
2X8	25
2X10	25
2X12	25
2X30	1
2X36	1
21/2XCLOSE	15
21/2X6	25
21/2X8	25
21/2X10	15
21/2X12	25
3XCLOSE	10
3X3	10
3X4	10
3X6	10
3X8	10
3X10	10
3X12	10
3X18	1
3X24	1
4XCLOSE	5
4X4	5
4X6	5
4X8	5
4X10	5
4X12	5
4X24	1

CPVC NIPPLES

CPVC1/2X3TOE	25
CPVC11/2X12	25
CPVC11/2X6	25
CPVC11/2X8	25
CPVC11/2XCLOSE	25
CPVC1XCLOSE	25
CPVC2X12	25
CPVC2X24	1
CPVC2X6	25
CPVC2X8	25
CPVC2XCLOSE	25

Nipples - Red Brass



Red Brass Nipple Features:

- Made from red brass pipe.
- Material specification: ASTM B43 brass pipe.
- Dimensional specification: ASTM B687 pipe nipples.
- Thread specification: ANSI/ASME B1.20.1 pipe threads.
- **Third party certified to NSF/ANSI 61 & 372.**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

Size/ Part Number	Ctn/Case Qty	
B80-1/8XCLOSE	25	400
B80-1/8X11/2	25	400
B80-1/8X2	25	400
B80-1/8X21/2	25	400
B80-1/8X3	25	400
B80-1/8X31/2	25	400
B80-1/8X4	25	400
B80-1/8X41/2	25	400
B80-1/8X5	25	400
B80-1/8X51/2	25	400
B80-1/8X6	25	400
B80-1/4XCLOSE	25	400
B80-1/4X11/2	25	400
B80-1/4X2	25	400
B80-1/4X21/2	25	400
B80-1/4X3	25	400
B80-1/4X31/2	25	400
B80-1/4X4	25	400
B80-1/4X41/2	25	400
B80-1/4X5	25	400
B80-1/4X51/2	25	400
B80-1/4X6	25	400
B80-1/4X12	25	200
B80-3/8XCLOSE	25	400
B80-3/8X11/2	25	400
B80-3/8X2	25	400
B80-3/8X21/2	25	400
B80-3/8X3	25	400
B80-3/8X31/2	25	400
B80-3/8X4	25	400
B80-3/8X41/2	25	400
B80-3/8X5	25	300
B80-3/8X51/2	25	300
B80-3/8X6	25	300
B80-1/2XCLOSE	25	400
B80-1/2X11/2	25	400
B80-1/2X2	25	400
B80-1/2X21/2	25	300
B80-1/2X3	25	300
B80-1/2X31/2	25	300
B80-1/2X4	25	200
B80-1/2X41/2	25	200
B80-1/2X5	25	200
B80-1/2X51/2	25	200
B80-1/2X6	25	200
B80-1/2X7	25	100
B80-1/2X8	25	100
B80-1/2X10	25	100

Size/ Part Number	Ctn/Case Qty	
B80-3/4XCLOSE	25	400
B80-3/4X11/2	25	400
B80-3/4X2	25	300
B80-3/4X21/2	25	300
B80-3/4X3	25	200
B80-3/4X31/2	25	200
B80-3/4X4	25	150
B80-3/4X41/2	25	150
B80-3/4X5	25	100
B80-3/4X51/2	25	100
B80-3/4X6	25	100
B80-3/4X61/2	25	75
B80-3/4X7	25	75
B80-3/4X8	25	75
B80-3/4X9	25	50
B80-3/4X10	25	50
B80-3/4X12	25	50
B80-3/4X18		5
B80-3/4X24		5
B80-3/4X30		5
B80-3/4X36		5
B80-1XCLOSE	25	200
B80-1X2	25	200
B80-1X21/2	25	150
B80-1X3	25	150
B80-1X31/2	25	100
B80-1X4	25	100
B80-1X41/2	25	100
B80-1X5	25	75
B80-1X51/2	25	75
B80-1X6	25	50
B80-1X7	25	50
B80-1X8	25	50
B80-1X9	20	40
B80-1X10	20	40
B80-1X12	20	40
B80-1X18		3
B80-1X24		3
B80-1X36		3
B80-11/4XCLOSE	25	100
B80-11/4X2	25	100
B80-11/4X21/2	25	100
B80-11/4X3	25	100
B80-11/4X31/2	25	50
B80-11/4X4	25	50
B80-11/4X41/2	25	50
B80-11/4X5	25	50
B80-11/4X51/2	25	50
B80-11/4X6	25	50

Size/ Part Number	Ctn/Case Qty	
B80-11/4X8	15	30
B80-11/4X10	15	30
B80-11/4X12	15	30
B80-11/2XCLOSE	25	100
B80-11/2X2	25	100
B80-11/2X21/2	25	50
B80-11/2X3	25	50
B80-11/2X31/2	25	50
B80-11/2X4	25	50
B80-11/2X41/2	25	50
B80-11/2X5	20	40
B80-11/2X51/2	20	40
B80-11/2X6	20	40
B80-11/2X8		25
B80-11/2X12		25
B80-11/2X24		3
B80-2XCLOSE	25	50
B80-2X21/2	25	50
B80-2X3	25	50
B80-2X31/2	20	40
B80-2X4	20	40
B80-2X41/2	20	40
B80-2X5	20	40
B80-2X51/2	14	28
B80-2X6	14	28
B80-2X8		18
B80-2X10		14
B80-2X12		14
B80-2X24		2
B80-21/2XCLOSE	18	36
B80-21/2X3	18	36
B80-21/2X6		18
B80-3XCLOSE	12	24
B80-3X4		18
B80-3X6		12
B80-3X8		8
B80-3X10		6
B80-4XCLOSE		15
B80-4X6		8

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Nipples - 304 Stainless Steel



304 Stainless Steel Nipple Features:

- Made from 304 stainless steel welded pipe.
- Material specification: ASTM A312 SS pipe, ASME SA312 SS pipe.
- Dimensional specification: ASTM A733.
- Thread specification: ANSI/ASME B1.20.1 pipe threads.
- **Third party certified to NSF/ANSI 61 & 372**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

NEW 7-12" lengths

Size/ Part Number	Ctn/Case Qty	
SS80-1/8XCLOSE	25	400
SS80-1/8X11/2	25	400
SS80-1/8X2	25	400
SS80-1/8X21/2	25	400
SS80-1/8X3	25	400
SS80-1/8X31/2	25	400
SS80-1/8X4	25	400
SS80-1/8X41/2	25	400
SS80-1/8X5	25	400
SS80-1/8X51/2	25	400
SS80-1/8X6	25	400
SS80-1/8X7	25	200
SS80-1/8X8	25	200
SS80-1/8X9	25	200
SS80-1/8X10	25	200
SS80-1/8X11	25	200
SS80-1/8X12	25	200
SS80-1/4XCLOSE	25	400
SS80-1/4X11/2	25	400
SS80-1/4X2	25	400
SS80-1/4X21/2	25	400
SS80-1/4X3	25	400
SS80-1/4X31/2	25	400
SS80-1/4X4	25	400
SS80-1/4X41/2	25	400
SS80-1/4X5	25	400
SS80-1/4X51/2	25	400
SS80-1/4X6	25	400
SS80-1/4X7	25	200
SS80-1/4X8	25	200
SS80-1/4X9	25	200
SS80-1/4X10	25	200
SS80-1/4X11	25	200
SS80-1/4X12	25	200
SS80-3/8XCLOSE	25	400
SS80-3/8X11/2	25	400
SS80-3/8X2	25	400
SS80-3/8X21/2	25	400
SS80-3/8X3	25	400
SS80-3/8X31/2	25	400
SS80-3/8X4	25	400
SS80-3/8X41/2	25	400
SS80-3/8X5	25	300
SS80-3/8X51/2	25	300
SS80-3/8X6	25	300
SS80-3/8X7	25	150
SS80-3/8X8	25	150
SS80-3/8X9	25	150
SS80-3/8X10	25	150
SS80-3/8X11	25	150
SS80-3/8X12	25	150
SS80-1/2XCLOSE	25	400
SS80-1/2X11/2	25	400
SS80-1/2X2	25	400
SS80-1/2X21/2	25	300
SS80-1/2X3	25	300
SS80-1/2X31/2	25	300
SS80-1/2X4	25	200
SS80-1/2X41/2	25	200
SS80-1/2X5	25	200
SS80-1/2X51/2	25	200
SS80-1/2X6	25	200
SS80-1/2X7	25	100
SS80-1/2X8	25	100
SS80-1/2X9	25	100
SS80-1/2X10	25	100
SS80-1/2X11	25	100
SS80-1/2X12	25	100
SS80-3/4XCLOSE	25	400
SS80-3/4X11/2	25	400
SS80-3/4X2	25	300
SS80-3/4X21/2	25	300
SS80-3/4X3	25	200
SS80-3/4X31/2	25	200
SS80-3/4X4	25	150
SS80-3/4X41/2	25	150
SS80-3/4X5	25	100
SS80-3/4X51/2	25	100
SS80-3/4X6	25	100
SS80-3/4X7	25	75
SS80-3/4X8	25	75
SS80-3/4X9	25	50
SS80-3/4X10	25	50
SS80-3/4X11	25	50
SS80-3/4X12	25	50
SS80-1XCLOSE	25	200
SS80-1X2	25	200
SS80-1X21/2	25	150
SS80-1X3	25	150
SS80-1X31/2	25	100
SS80-1X4	25	100
SS80-1X41/2	25	100
SS80-1X5	25	75
SS80-1X51/2	25	75
SS80-1X6	25	50
SS80-1X7	25	50
SS80-1X8	25	50
SS80-1X9	20	40
SS80-1X10	20	40
SS80-1X11	20	40
SS80-1X12	20	40
SS80-11/4XCLOSE	25	100
SS80-11/4X2	25	100
SS80-11/4X21/2	25	100
SS80-11/4X3	25	100
SS80-11/4X31/2	25	50
SS80-11/4X4	25	50
SS80-11/4X41/2	25	50
SS80-11/4X5	25	50
SS80-11/4X51/2	25	50
SS80-11/4X6	25	50
SS80-11/4X7	15	30
SS80-11/4X8	15	30
SS80-11/4X9	15	30
SS80-11/4X10	15	30
SS80-11/4X11	15	30
SS80-11/4X12	15	30
SS80-11/2XCLOSE	25	100
SS80-11/2X2	25	100
SS80-11/2X21/2	25	50
SS80-11/2X3	25	50
SS80-11/2X31/2	25	50
SS80-11/2X4	25	50
SS80-11/2X41/2	25	50
SS80-11/2X5	20	40
SS80-11/2X51/2	20	40
SS80-11/2X6	20	40
SS80-11/2X7		35
SS80-11/2X8		25
SS80-11/2X9		25
SS80-11/2X10		25
SS80-11/2X11		25
SS80-11/2X12		25
SS80-2XCLOSE	25	50
SS80-2X21/2	25	50
SS80-2X3	25	50
SS80-2X31/2	20	40
SS80-2X4	20	40
SS80-2X41/2	20	40
SS80-2X5	20	40
SS80-2X51/2	14	28
SS80-2X6	14	28
SS80-2X7		18
SS80-2X8		18
SS80-2X9		18
SS80-2X10		14
SS80-2X11		14
SS80-2X12		14
SS80-3X12		6
SS80-4X12		4
SS80-5X12		2
SS80-6X12		1

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Nipples - Black Steel



Black Steel Nipple Features:

- Welded.
- Dimensional specification: ASTM A733 pipe nipples.
- Thread specification: ANSI/ASME B1.20.1 pipe threads.
- **Third party certified to NSF/ANSI 61 & 372.**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

Size/ Part Number	Ctn/Case Qty
BS80-1/8XCLOSE	25 400
BS80-1/8X11/2	25 400
BS80-1/8X2	25 400
BS80-1/8X21/2	25 400
BS80-1/8X3	25 400
BS80-1/8X31/2	25 400
BS80-1/8X4	25 400
BS80-1/8X41/2	25 400
BS80-1/8X5	25 400
BS80-1/8X51/2	25 400
BS80-1/8X6	25 400
BS80-1/8X7	25 200
BS80-1/8X8	25 200
BS80-1/8X9	25 200
BS80-1/8X10	25 200
BS80-1/8X11	25 200
BS80-1/8X12	25 200
BS80-1/4XCLOSE	25 400
BS80-1/4X11/2	25 400
BS80-1/4X2	25 400
BS80-1/4X21/2	25 400
BS80-1/4X3	25 400
BS80-1/4X31/2	25 400
BS80-1/4X4	25 400
BS80-1/4X41/2	25 400
BS80-1/4X5	25 400
BS80-1/4X51/2	25 400
BS80-1/4X6	25 400
BS80-1/4X7	25 200
BS80-1/4X8	25 200
BS80-1/4X9	25 200
BS80-1/4X10	25 200
BS80-1/4X11	25 200
BS80-1/4X12	25 200
BS80-3/8XCLOSE	25 400
BS80-3/8X11/2	25 400
BS80-3/8X2	25 400
BS80-3/8X21/2	25 400
BS80-3/8X3	25 400
BS80-3/8X31/2	25 400
BS80-3/8X4	25 400
BS80-3/8X41/2	25 400
BS80-3/8X5	25 300
BS80-3/8X51/2	25 300
BS80-3/8X6	25 300
BS80-3/8X7	25 150
BS80-3/8X8	25 150
BS80-3/8X9	25 100
BS80-3/8X10	25 100
BS80-3/8X11	25 100
BS80-3/8X12	25 100
BS80-3/8X18	5
BS80-3/8X24	5
BS80-3/8X48	5
BS80-1/2XCLOSE	25 400
BS80-1/2X11/2	25 400
BS80-1/2X2	25 400
BS80-1/2X21/2	25 300
BS80-1/2X3	25 300
BS80-1/2X31/2	25 300
BS80-1/2X4	25 200
BS80-1/2X41/2	25 200
BS80-1/2X5	25 200
BS80-1/2X51/2	25 200
BS80-1/2X6	25 200
BS80-1/2X7	25 100
BS80-1/2X8	25 100
BS80-1/2X9	25 100
BS80-1/2X10	25 100
BS80-1/2X11	25 100
BS80-1/2X12	25 100
BS80-1/2X14	5
BS80-1/2X16	5
BS80-1/2X18	5
BS80-1/2X24	5
BS80-1/2X30	5
BS80-1/2X36	5
BS80-1/2X48	5
BS80-1/2X60	5
BS80-1/2X72	5
BS80-3/4XCLOSE	25 400
BS80-3/4X11/2	25 400
BS80-3/4X2	25 300
BS80-3/4X21/2	25 300
BS80-3/4X3	25 200
BS80-3/4X31/2	25 200
BS80-3/4X4	25 150
BS80-3/4X41/2	25 150
BS80-3/4X5	25 100
BS80-3/4X51/2	25 100
BS80-3/4X6	25 100
BS80-3/4X7	25 75
BS80-3/4X8	25 75
BS80-3/4X9	25 50
BS80-3/4X10	25 50
BS80-3/4X11	25 50
BS80-3/4X12	25 50
BS80-3/4X14	5
BS80-3/4X16	5
BS80-3/4X18	5
BS80-3/4X24	5
BS80-3/4X30	5
BS80-3/4X36	5
BS80-3/4X48	5
BS80-3/4X60	5
BS80-3/4X72	5
BS80-1XCLOSE	25 200
BS80-1X2	25 200
BS80-1X21/2	25 150
BS80-1X3	25 150
BS80-1X31/2	25 100
BS80-1X4	25 100
BS80-1X41/2	25 100
BS80-1X5	25 75
BS80-1X51/2	25 75
BS80-1X6	25 50
BS80-1X7	25 50
BS80-1X8	25 50
BS80-1X9	20 40
BS80-1X10	20 40
BS80-1X11	20 40
BS80-1X12	20 40
BS80-1X14	3
BS80-1X16	3
BS80-1X18	3
BS80-1X24	3
BS80-1X30	3
BS80-1X36	3
BS80-1X48	3
BS80-1X60	3
BS80-1X72	3
BS80-11/4XCLOSE	25 100
BS80-11/4X2	25 100
BS80-11/4X21/2	25 100
BS80-11/4X3	25 100
BS80-11/4X31/2	25 50
BS80-11/4X4	25 50
BS80-11/4X41/2	25 50
BS80-11/4X5	25 50
BS80-11/4X51/2	25 50
BS80-11/4X6	25 50
BS80-11/4X7	15 30
BS80-11/4X8	15 30
BS80-11/4X9	15 30
BS80-11/4X10	15 30
BS80-11/4X11	15 30
BS80-11/4X12	15 30
BS80-11/4X18	3
BS80-11/4X24	3
BS80-11/4X30	3

Nipples - Black Steel

Size/ Part Number	Ctn/Case Qty
BS80-11/4X36	3
BS80-11/4X48	3
BS80-11/4X60	3
BS80-11/4X72	3
BS80-11/2XCLOSE	25 100
BS80-11/2X2	25 100
BS80-11/2X21/2	25 50
BS80-11/2X3	25 50
BS80-11/2X31/2	25 50
BS80-11/2X4	25 50
BS80-11/2X41/2	25 50
BS80-11/2X5	20 40
BS80-11/2X51/2	20 40
BS80-11/2X6	20 40
BS80-11/2X7	35
BS80-11/2X8	25
BS80-11/2X9	25
BS80-11/2X10	25
BS80-11/2X11	25
BS80-11/2X12	25
BS80-11/2X18	3
BS80-11/2X24	3
BS80-11/2X30	3
BS80-11/2X36	3
BS80-11/2X48	3
BS80-11/2X60	3
BS80-11/2X72	3
BS80-2XCLOSE	25 50
BS80-2X21/2	25 50
BS80-2X3	25 50
BS80-2X31/2	20 40
BS80-2X4	20 40
BS80-2X41/2	20 40
BS80-2X5	20 40
BS80-2X51/2	14 28
BS80-2X6	14 28
BS80-2X7	18
BS80-2X8	18

Size/ Part Number	Ctn/Case Qty
BS80-2X9	18
BS80-2X10	14
BS80-2X11	14
BS80-2X12	14
BS80-2X18	2
BS80-2X24	2
BS80-2X30	2
BS80-2X36	2
BS80-2X48	2
BS80-2X60	2
BS80-2X72	2
BS80-21/2XCLOSE	18 36
BS80-21/2X3	18 36
BS80-21/2X31/2	27
BS80-21/2X4	27
BS80-21/2X41/2	24
BS80-21/2X5	18
BS80-21/2X51/2	18
BS80-21/2X6	18
BS80-21/2X7	14
BS80-21/2X8	12
BS80-21/2X9	12
BS80-21/2X10	9
BS80-21/2X11	9
BS80-21/2X12	9
BS80-21/2X24	1
BS80-3XCLOSE	12 24
BS80-3X3	24
BS80-3X31/2	18
BS80-3X4	18
BS80-3X41/2	16
BS80-3X5	12
BS80-3X51/2	12
BS80-3X6	12
BS80-3X7	9
BS80-3X8	8
BS80-3X9	8
BS80-3X10	6

Size/ Part Number	Ctn/Case Qty
BS80-3X11	6
BS80-3X12	6
BS80-3X18	1
BS80-3X24	1
BS80-3X36	1
BS80-3X48	1
BS80-4XCLOSE	15
BS80-4X31/2	12
BS80-4X4	12
BS80-4X41/2	10
BS80-4X5	8
BS80-4X51/2	8
BS80-4X6	8
BS80-4X7	5
BS80-4X8	5
BS80-4X9	5
BS80-4X10	4
BS80-4X11	4
BS80-4X12	4
BS80-4X18	1
BS80-4X24	1
BS80-5X6	4
BS80-6X6	2
BS80-6X8	1
BS80-6X10	1
BS80-6X12	1

Black Steel Nipple Assortments:

- Qty 6 of each CLOSE-6" nipples.
- Packaged in handled tote box.





Part Number	# Pieces and Sizes Included
BS80-1/2ASST66P	66-CL,1 1/2, 2, 2 1/2, 3, 3 1/2,4,4 1/2,5,5 1/2,6
BS80-3/4ASST66P	66-CL,1 1/2, 2, 2 1/2, 3, 3 1/2,4,4 1/2,5,5 1/2,6
BS80-1ASST60P	60-CL, 2, 2 1/2, 3, 3 1/2,4,4 1/2,5,5 1/2,6

Black Steel Tank Leg Features:

- For use with standard steel tanks
- No cradle required
- Threaded one end x square cut

Part Number	Ctn/Case Qty
BS80-11/4X10TOE	5/20
BS80-11/4X11TOE	5/20
BS80-11/4X12TOE	5/20
BS80-11/4X13TOE	5/20

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Nipples - Galvanized Steel



Galvanized Steel Nipple Features:

- Welded.
- Dimensional specification: ASTM A733 pipe nipples.
- Thread specification: ANSI/ASME B1.20.1 pipe threads.
- **Third party certified to NSF/ANSI 61 & 372.**

NO LEAD
< 0.25% Pb by weighted avg
Third Party Certified to NSF/ANSI 61 & 372

Size/ Part Number	Ctn/Case Qty	
GS80-1/8XCLOSE	25	400
GS80-1/8X11/2	25	400
GS80-1/8X2	25	400
GS80-1/8X21/2	25	400
GS80-1/8X3	25	400
GS80-1/8X31/2	25	400
GS80-1/8X4	25	400
GS80-1/8X41/2	25	400
GS80-1/8X5	25	400
GS80-1/8X51/2	25	400
GS80-1/8X6	25	400
GS80-1/8X7	25	200
GS80-1/8X8	25	200
GS80-1/8X9	25	200
GS80-1/8X10	25	200
GS80-1/8X11	25	200
GS80-1/8X12	25	200
GS80-1/4XCLOSE	25	400
GS80-1/4X11/2	25	400
GS80-1/4X2	25	400
GS80-1/4X21/2	25	400
GS80-1/4X3	25	400
GS80-1/4X31/2	25	400
GS80-1/4X4	25	400
GS80-1/4X41/2	25	400
GS80-1/4X5	25	400
GS80-1/4X51/2	25	400
GS80-1/4X6	25	400
GS80-1/4X7	25	200
GS80-1/4X8	25	200
GS80-1/4X9	25	200
GS80-1/4X10	25	200
GS80-1/4X11	25	200
GS80-1/4X12	25	200
GS80-3/8XCLOSE	25	400
GS80-3/8X11/2	25	400
GS80-3/8X2	25	400
GS80-3/8X21/2	25	400
GS80-3/8X3	25	400
GS80-3/8X31/2	25	400
GS80-3/8X4	25	400
GS80-3/8X41/2	25	400
GS80-3/8X5	25	300

Size/ Part Number	Ctn/Case Qty	
GS80-3/8X51/2	25	300
GS80-3/8X6	25	300
GS80-3/8X7	25	150
GS80-3/8X8	25	150
GS80-3/8X9	25	100
GS80-3/8X10	25	100
GS80-3/8X11	25	100
GS80-3/8X12	25	100
GS80-1/2XCLOSE	25	400
GS80-1/2X11/2	25	400
GS80-1/2X2	25	400
GS80-1/2X21/2	25	300
GS80-1/2X3	25	300
GS80-1/2X31/2	25	300
GS80-1/2X4	25	200
GS80-1/2X41/2	25	200
GS80-1/2X5	25	200
GS80-1/2X51/2	25	200
GS80-1/2X6	25	200
GS80-1/2X7	25	100
GS80-1/2X8	25	100
GS80-1/2X9	25	100
GS80-1/2X10	25	100
GS80-1/2X11	25	100
GS80-1/2X12	25	100
GS80-1/2X18	5	
GS80-1/2X24	5	
GS80-1/2X30	5	
GS80-1/2X36	5	
GS80-1/2X48	5	
GS80-1/2X60	5	
GS80-1/2X72	5	
GS80-3/4XCLOSE	25	400
GS80-3/4X11/2	25	400
GS80-3/4X2	25	300
GS80-3/4X21/2	25	300
GS80-3/4X3	25	200
GS80-3/4X31/2	25	200
GS80-3/4X4	25	150
GS80-3/4X41/2	25	150
GS80-3/4X5	25	100
GS80-3/4X51/2	25	100
GS80-3/4X6	25	100
GS80-3/4X7	25	75
GS80-3/4X8	25	75
GS80-3/4X9	25	50
GS80-3/4X10	25	50
GS80-3/4X11	25	50
GS80-3/4X12	25	50
GS80-3/4X18	5	
GS80-3/4X24	5	
GS80-3/4X30	5	

Size/ Part Number	Ctn/Case Qty	
GS80-3/4X36	5	
GS80-3/4X48	5	
GS80-3/4X60	5	
GS80-3/4X72	5	
GS80-1XCLOSE	25	200
GS80-1X2	25	200
GS80-1X21/2	25	150
GS80-1X3	25	150
GS80-1X31/2	25	100
GS80-1X4	25	100
GS80-1X41/2	25	100
GS80-1X5	25	75
GS80-1X51/2	25	75
GS80-1X6	25	50
GS80-1X7	25	50
GS80-1X8	25	50
GS80-1X9	20	40
GS80-1X10	20	40
GS80-1X11	20	40
GS80-1X12	20	40
GS80-1X18	3	
GS80-1X24	3	
GS80-1X30	3	
GS80-1X36	3	
GS80-1X48	3	
GS80-1X60	3	
GS80-11/4XCLOSE	25	100
GS80-11/4X2	25	100
GS80-11/4X21/2	25	100
GS80-11/4X3	25	100
GS80-11/4X31/2	25	50
GS80-11/4X4	25	50
GS80-11/4X41/2	25	50
GS80-11/4X5	25	50
GS80-11/4X51/2	25	50
GS80-11/4X6	25	50
GS80-11/4X7	15	30
GS80-11/4X8	15	30
GS80-11/4X9	15	30
GS80-11/4X10	15	30
GS80-11/4X11	15	30
GS80-11/4X12	15	30
GS80-11/4X18	3	
GS80-11/4X24	3	
GS80-11/4X30	3	
GS80-11/4X36	3	
GS80-11/4X48	3	
GS80-11/4X60	3	

Nipples - Galvanized Steel

Size/ Part Number	Ctn/Case Qty
GS80-11/2XCLOSE	25 100
GS80-11/2X2	25 100
GS80-11/2X21/2	25 50
GS80-11/2X3	25 50
GS80-11/2X31/2	25 50
GS80-11/2X4	25 50
GS80-11/2X41/2	25 50
GS80-11/2X5	20 40
GS80-11/2X51/2	20 40
GS80-11/2X6	20 40
GS80-11/2X7	35
GS80-11/2X8	25
GS80-11/2X9	25
GS80-11/2X10	25
GS80-11/2X11	25
GS80-11/2X12	25
GS80-11/2X18	3
GS80-11/2X24	3
GS80-11/2X30	3
GS80-11/2X36	3
GS80-11/2X48	3
GS80-11/2X60	3
GS80-2XCLOSE	25 50
GS80-2X21/2	25 50
GS80-2X3	25 50
GS80-2X31/2	20 40
GS80-2X4	20 40
GS80-2X41/2	20 40
GS80-2X5	20 40
GS80-2X51/2	14 28
GS80-2X6	14 28
GS80-2X7	18
GS80-2X8	18
GS80-2X9	18
GS80-2X10	14

Size/ Part Number	Ctn/Case Qty
GS80-2X11	14
GS80-2X12	14
GS80-2X18	2
GS80-2X24	2
GS80-2X30	2
GS80-2X36	2
GS80-2X48	2
GS80-2X60	2
GS80-21/2XCLOSE	18 36
GS80-21/2X3	18 36
GS80-21/2X31/2	27
GS80-21/2X4	27
GS80-21/2X41/2	24
GS80-21/2X5	18
GS80-21/2X51/2	18
GS80-21/2X6	18
GS80-21/2X7	14
GS80-21/2X8	12
GS80-21/2X9	12
GS80-21/2X10	9
GS80-21/2X11	9
GS80-21/2X12	9
GS80-21/2X18	
GS80-21/2X24	
GS80-21/2X30	
GS80-3XCLOSE	12 24
GS80-3X3	24
GS80-3X31/2	18
GS80-3X4	18
GS80-3X41/2	16
GS80-3X5	12
GS80-3X51/2	12
GS80-3X6	12
GS80-3X7	9

Size/ Part Number	Ctn/Case Qty
GS80-3X8	8
GS80-3X9	8
GS80-3X10	6
GS80-3X11	6
GS80-3X12	6
GS80-3X18	1
GS80-3X24	1
GS80-3X30	1
GS80-3X36	1
GS80-3X48	1
GS80-4XCLOSE	15
GS80-4X4	12
GS80-4X41/2	10
GS80-4X5	8
GS80-4X51/2	8
GS80-4X6	8
GS80-4X7	5
GS80-4X8	5
GS80-4X9	5
GS80-4X10	4
GS80-4X11	4
GS80-4X12	4
GS80-4X18	1
GS80-4X24	1
GS80-4X36	
GS80-4X48	
GS80-4X60	
GS80-6XCLOSE	1
GS80-6X4	2
GS80-6X6	2
GS80-6X8	1
GS80-6X10	1
GS80-6X12	1

Galvanized Steel Reducing Pipe Nipples

Part Number	Size	Ctn Qty
GSR80-11/4x1x31/2	1 1/4 x 1 x 3 1/2	25
GSR80-1x3/4x3	1 x 3/4 x 3	25

Galvanized Steel Nipple Assortments:

- Qty 6 of each CLOSE-6" nipples.
- Packaged in handled tote box.





Part Number	# Pieces and Sizes Included
GS80-1/2ASST66P	66-CL,1 1/2, 2, 2 1/2, 3, 3 1/2,4,4 1/2,5,5 1/2,6
GS80-3/4ASST66P	66-CL,1 1/2, 2, 2 1/2, 3, 3 1/2,4,4 1/2,5,5 1/2,6
GS80-1ASST60P	60-CL, 2, 2 1/2, 3, 3 1/2,4,4 1/2,5,5 1/2,6

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NGWA The Groundwater Association

ASA AMERICAN SUPPLY ASSOCIATION

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Reference Data

The following pages provide reference data for general applications.

Lead Law symbols.....X.3
Weight of water and pipe.....X.4
Plastic Pipe Friction Loss.....X.4
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The following four symbols appear in the AGI catalog to reference the lead free status of any AGI product.



The **UPC/IAPMO R&T** Low Lead symbol indicates products that AGI or our supplier has had certified by IAPMO to NSF/ANSI 372 standards and can be sold in California as well as the rest of the U.S.



The **No Lead/<0.25% weighted avg./NSF/ANSI 372** symbol indicates a product that has been NSF/ANSI 372 certified by another testing agency (other than IAPMO) and can be sold in California as well as the rest of the U.S.



The **No Lead/<0.25% Pb weighted average** symbol indicates a product that meets the new Federal lead standards but has not been certified by a third party and can be sold in all states except California and Louisiana (2013).



The **No Lead/Lead Free** symbol indicates a product not made from brass or bronze and does not contain lead that can be sold in all states except California and Louisiana (2013).

Weight of Water and Pipe (per foot)

Pipe Size	Pipe Type	Pipe ID	Water Weight	Pipe Weight	Total Weight
1"	125 PSI Polyethylene	1.04"	0.38 lbs.	0.20 lbs.	0.58 lbs.
1 1/4"	125 PSI Polyethylene	1.38"	0.65 lbs.	0.33 lbs.	0.98 lbs.
1"	160 PSI Polyethylene	1.049"	0.38 lbs.	0.26 lbs.	0.64 lbs.
1 1/4"	160 PSI Polyethylene	1.38"	0.65 lbs.	0.43 lbs.	1.08 lbs.
1"	Sch 80 PVC	0.957"	0.31 lbs.	0.40 lbs.	0.71 lbs.
1 1/4"	Sch 80 PVC	1.278"	0.56 lbs.	0.55 lbs.	1.11 lbs.
1 1/2"	Sch 80 PVC	1.5"	0.77 lbs.	0.66 lbs.	1.43 lbs.
2"	Sch 80 PVC	1.939"	1.28 lbs.	0.92 lbs.	2.20 lbs.
1"	Steel	1.049"	0.38 lbs.	1.68 lbs.	2.06 lbs.
1 1/4"	Steel	1.38"	0.65 lbs.	2.28 lbs.	2.93 lbs.
1 1/2"	Steel	1.61"	0.88 lbs.	2.73 lbs.	3.61 lbs.
2"	Steel	2.067"	1.45 lbs.	3.68 lbs.	5.13 lbs.

PLASTIC PIPE: FRICTION LOSS (IN FEET OF HEAD) PER 100 Ft.

GPM	GPH	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
1	60	4.25	1.39	.356	.11							
2	120	15.13	4.83	1.21	.38	.10						
3	180	31.97	9.96	2.51	.77	.21	.10					
4	240	54.97	17.07	4.21	1.30	.35	.16					
5	300	84.41	25.76	6.33	1.92	.51	.24					
6	360		36.34	8.83	2.69	.71	.33	.10				
8	480		63.71	15.18	4.58	1.19	.55	.17				
10	600		97.52	25.98	6.88	1.78	.83	.25	.11			
15	900			49.68	14.63	3.75	1.74	.52	.22			
20	1200			86.94	25.07	6.39	2.94	.86	.36	.13		
25	1500				38.41	9.71	4.44	1.29	.54	.19		
30	1800					13.62	6.26	1.81	.75	.26		
35	2100					18.17	8.37	2.42	1.00	.35	.09	
40	2400					23.55	10.70	3.11	1.28	.44	.12	
45	2700					29.44	13.46	3.84	1.54	.55	.15	
50	3000						16.45	4.67	1.93	.66	.17	
60	3600						23.48	6.60	2.71	.93	.25	
70	4200							8.83	3.66	1.24	.33	
80	4800							11.43	4.67	1.58	.41	
90	5400							14.26	5.82	1.98	.52	
100	6000								7.11	2.42	.63	.08
125	7500								10.83	3.80	.95	.13
150	9000									5.15	1.33	.18
175	10500									6.90	1.78	.23
200	12000									8.90	2.27	.30

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COPPER PIPE: FRICTION LOSS (IN FEET OF HEAD) PER 100 Ft.

GPM	GPH	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
1	60	6.2	1.8	.39								
2	120	19.6	6.0	1.2								
5	300		30.0	5.8	1.6							
7	420		53.00	11.0	3.2	2.2						
10	600			19.6	5.3	3.9						
15	900			37.0	9.9	6.2	2.1					
18	1080			55.4	16.1	6.9	3.2					
20	1200				18.5	10.4	3.9					
25	1500				27.7	14.3	5.3	1.5				
30	1800				39.3	18.7	7.6	2.1				
35	2100				48.5	25.4	10.2	2.8				
40	2400					30.0	13.2	3.5	1.2			
45	2700					39.3	16.2	4.2	1.6			
50	3000						19.4	5.1	1.8			
60	3600						27.7	6.9	2.5	1.1		
70	4200						40.0	9.2	3.5	1.4		
75	4500						41.6	9.9	3.7	1.6		
80	4800						45.0	11.6	4.2	1.8		
90	5400						50.8	13.9	4.8	2.2		
100	6000							16.9	6.2	2.8		
125	7500							25.4	8.6	3.7		
150	9000							32.3	11.6	4.8	1.2	
175	10500							41.6	16.2	6.9	1.7	
200	12000							57.8	20.8	9.0	2.1	

STEEL PIPE: FRICTION LOSS (IN FEET OF HEAD) PER 100 Ft.

GPM	GPH	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
1	60	.3	1.86	.26								
2	120	15.00	4.78	1.21	.38							
3	180	31.80	10.00	2.50	.77							
4	240	54.90	17.10	4.21	1.30	.34						
5	300	83.50	25.80	6.32	1.93	.51	.24					
6	360		36.50	8.87	2.68	.70	.33	.10				
7	420		48.70	11.80	3.56	.93	.44	.13				
8	480		62.70	15.00	4.54	1.18	.56	.17				
9	540			18.80	5.65	1.46	.69	.21				
10	600			23.00	6.86	1.77	.83	.25	.11	.04		
12	720			32.60	9.62	2.48	1.16	.34	.15	.05		
15	900			49.70	14.70	3.74	1.75	.52	.22	.08		
20	1200			86.10	25.10	6.34	2.94	.87	.36	.13		
25	1500				38.60	9.65	4.48	1.30	.54	.19		
30	1800				54.60	13.60	6.26	1.82	.75	.26		
35	2100				73.40	18.20	8.37	2.42	1.00	.35		
40	2400				95.00	23.50	10.79	3.10	1.28	.44		
45	2700					30.70	13.45	3.85	1.60	.55		
70	4200					68.80	31.30	8.86	3.63	1.22	.35	
100	6000						62.20	17.40	7.11	2.39	.63	
150	9000							38.00	15.40	5.14	1.32	
200	1200							66.30	26.70	8.90	2.27	.736

HEAD AND PRESSURE EQUIVALENTS

Feet Head of Water and Equivalent Pressures

Feet Head	PSI
1	.43
2	.87
3	1.30
4	1.73
5	2.17
6	2.60
7	3.03
8	3.46
9	3.90
10	4.33
20	8.66
30	12.99
40	17.32
50	21.65
60	25.99
70	30.32
80	34.65
90	38.96
100	43.31
110	47.64
120	51.97
130	56.30
140	60.63
150	64.96
160	69.29
170	73.63
180	77.96
190	82.29
200	86.62
225	97.45
250	108.27
275	119.10
300	129.93
325	140.75
350	151.58
400	173.24
500	216.55
600	259.85

Pressure and Equivalent Feet Head of Water

PSI	Feed Head
1	2.31
2	4.62
3	6.93
4	9.24
5	11.54
6	13.85
7	16.16
8	18.47
9	20.78
10	23.09
15	34.63
20	46.18
25	57.72
30	69.27
40	92.36
50	115.45
60	138.54
70	161.63
80	184.72
90	207.81
100	230.90
110	253.98
120	277.07
125	288.62
130	300.16
140	323.25
150	346.34
160	369.43
170	392.52
180	415.61
190	438.90
200	461.78
225	519.51
250	577.24
275	643.03
300	692.69
325	750.41
350	808.13

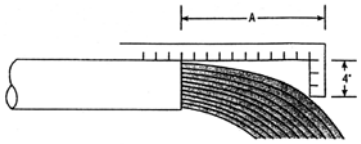
To change head in feet to pressure in pounds, multiply by .434
To change pressure in pounds to head in feet, multiply by 2.3

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CALCULATION OF DISCHARGE RATE
USING HORIZONTAL OPEN DISCHARGE FORMULA

FULL PIPE FLOW -

An L-shaped measuring square can be used to estimate flow capacity, using the chart below. As shown in illustration, place 4" side of square so that it hangs down and touches the water. The horizontal distance shown "A" is located in the first column of the chart and you read across to the pipe diameter (ID) to find the gallons per minute discharge rate.



DISCHARGE RATES IN GPM - NOMINAL PIPE SIZE (ID)

Horizontal Discharge	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
4	5.7	9.8	13.3	22.0	31.3	48.5	83.5					
5	7.1	12.2	16.6	27.5	39.0	61.0	104	163				
6	8.5	14.7	20.0	33.0	47.0	73.0	125	195	285			
7	10.0	17.1	23.2	38.5	55	85	146	228	334	380		
8	11.3	19.6	26.5	44.0	62.5	97.5	166	260	380	665	1060	
9	12.8	22.0	29.8	49.5	70.0	110	187	293	430	750	1190	1160
10	14.2	24.5	33.2	55.5	78.2	122	208	326	476	830	1130	1850
11	15.6	27.0	36.5	60.5	86.0	134	229	360	525	915	1460	2100
12	17.0	29.0	40.0	66.0	94.0	146	250	390	570	1000	1600	2220
13	18.5	31.5	43.0	71.5	102	158	270	425	620	1080	1730	2400
14	20.0	34.0	46.5	77.0	109	170	292	456	670	1160	1860	2590
15	21.3	36.3	50.0	82.5	117	183	312	490	710	1250	2000	2780
16	22.7	39.0	53.0	88.0	125	196	334	520	760	1330	2120	2960
17		41.5	56.5	93.0	133	207	355	550	810	1410	2260	3140
18			60.0	99.0	144	220	375	590	860	1500	2390	3330
19				110	148	232	395	620	910	1580	2520	3500
20					156	244	415	650	950	1660	2660	3700

NEMA CONTROL PANEL RATINGS

Rating	Desc	Explanation
NEMA 1	General Purpose	To prevent accidental contact with enclosed apparatus. Suitable for application indoors where not exposed to unusual service conditions.
NEMA 2	Driptight	To prevent accidental contact, and in addition, to exclude falling moisture or dirt.
NEMA 3	Weatherproof	Protection against specified weather hazards. Suitable for outdoors.
NEMA 3R	Raintight	Protects against entrance of water from a beating rain. Suitable for general outdoor application not requiring sleetproof.
NEMA 4	Watertight	Designed to exclude water applied in form of hose stream. To protect against stream of water during cleaning operations, etc.
NEMA 4X	Watertight & Corrosion Rest.	Designed to exclude water applied in form of hose stream. To protect against stream of water during cleaning operations, etc. Corrosion Resistant
NEMA 5	Dust tight	Constructed so that dust will not enter enclosed case. Being replaced in some equipment by NEMA 12
NEMA 6	Submersible	Intended to permit enclosed apparatus to be operated successfully when submerged in water under specified pressure and time
NEMA 7	Hazardous Locations	Designed to meet application requirements of the NEC for Class I, Class I - Air Hazardous Locations (explosive atmospheres) Circuit interruption occurs in air.
NEMA 8	Hazardous Locations Class II - Oil A,B,C,D	Identical to NEMA 7 above, except the apparatus is immersed in oil.
NEMA 9	Hazardous Locations Class II - Oil E, F, G	Designed to meet application requirements of the NEC for Class II Hazardous Locations (combustible dust, etc.)
NEMA 10	Bureau of Mines	Meets requirements of US Bureau of Mines. Suitable for coal mines.
NEMA 11	Oil Immersed	Provides oil immersion of apparatus such that it is suitable for application Fume Resistant where equipment is subject to acid or other corrosive fumes.
NEMA 12	Industrial Use	For use in those industries where it is desired to exclude dust, lint, fibers and flyings, or oil or coolant seepage.

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