



# SECTION 6A

## PEX & RADIANT TUBING, FITTINGS & ACCESSORIES



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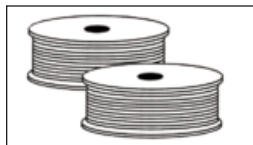
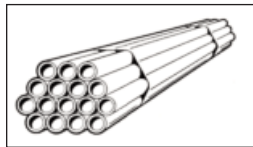
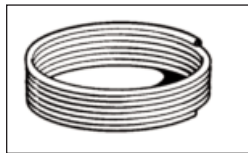




# CANPEX™ UV Plus Tubing



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
  - **STANDARD AGI DISCOUNTS DO NOT APPLY.**
- Contact your sales representative for pricing.



**CB PRODUCT CODE #1.**  
Potable CANPEX PEX Tubing

| Part Number  |          |          | Nominal Size         | Coil Length | List Price     |
|--|----------|----------|----------------------|-------------|----------------|
| <b>CANPEX™ UV PLUS TUBING - COILS</b>                                  |          |          |                      |             |                |
| PX1C1  |          |          | 1/4" (3/8" OD)       | 100'        | \$0.50/ft      |
| PX1C5  |          |          | 1/4" (3/8" OD)       | 500'        | 0.50/ft        |
| PX1C10   |          |          | 1/4" (3/8" OD)       | 1000'       | 0.50/ft        |
| PX2C1  | PXR2C1   | PXB2C1   | 3/8" (1/2" OD)       | 100'        | 0.67/ft        |
| PX2C2.5  | PXR2C2.5 | PXB2C2.5 | 3/8" (1/2" OD)       | 250'        | 0.67/ft        |
| PX2C5  | PXR2C5   | PXB2C5   | 3/8" (1/2" OD)       | 500'        | 0.67/ft        |
| PX2C10   | PXR2C10  | PXB2C10  | 3/8" (1/2" OD)       | 1000'       | 0.67/ft        |
| PX3C1  | PXR3C1   | PXB3C1   | 1/2" (5/8" OD)       | 100'        | 0.76/ft        |
| PX3C2.5  | PXR3C2.5 | PXB3C2.5 | 1/2" (5/8" OD)       | 250'        | 0.76/ft        |
| PX3C3  | PXR3C3   | PXB3C3   | 1/2" (5/8" OD)       | 300'        | 0.76/ft        |
| PX3C5  | PXR3C5   | PXB3C5   | 1/2" (5/8" OD)       | 500'        | 0.76/ft        |
| PX3C10   | PXR3C10  | PXB3C10  | 1/2" (5/8" OD)       | 1000'       | 0.76/ft        |
| PX4C1  | PXR4C1   | PXB4C1   | 3/4" (7/8" OD)       | 100'        | 1.38/ft        |
| PX4C2.5  | PXR4C2.5 | PXB4C2.5 | 3/4" (7/8" OD)       | 250'        | 1.38/ft        |
| PX4C3  | PXR4C3   | PXB4C3   | 3/4" (7/8" OD)       | 300'        | 1.38/ft        |
| PX4C5  | PXR4C5   | PXB4C5   | 3/4" (7/8" OD)       | 500'        | 1.38/ft        |
| PX4C10   | PXR4C10  | PXB4C10  | 3/4" (7/8" OD)       | 1000'       | 1.38/ft        |
| PX5C1  | PXR5C1   | PXB5C1   | 1" (1 1/8" OD)       | 100'        | 2.40/ft        |
| PX5C2.5  | PXR5C2.5 | PXB5C2.5 | 1" (1 1/8" OD)       | 250'        | 2.40/ft        |
| PX5C3  | PXR5C3   | PXB5C3   | 1" (1 1/8" OD)       | 300'        | 2.40/ft        |
| PX5C5  | PXR5C5   | PXB5C5   | 1" (1 1/8" OD)       | 500'        | 2.40/ft        |
| PX5C10   |          |          | 1" (1 1/8" OD)       | 1000'       | 2.40/ft        |
| <b>CANPEX™ UV PLUS TUBING - BUNDLED STRAIGHT LENGTHS of 10' or 20'</b> |          |          |                      |             |                |
|  | PXR2L10  | PXB2L10  | 3/8" x 20' (5/8" OD) | 1000' BDL   | 0.67/ft        |
| PX3L-S   | PXR3L-S  | PXB3L-S  | 1/2" x 10' (5/8" OD) | 500' BDL    | 0.76/ft        |
| PX3L10   | PXR3L10  | PXB3L10  | 1/2" x 20' (5/8" OD) | 1000' BDL   | 0.76/ft        |
| PX4L-S   | PXR4L-S  | PXB4L-S  | 3/4" x 10' (7/8" OD) | 250' BDL    | 1.38/ft        |
| PX4L5  | PXR4L5   | PXB4L5   | 3/4" x 20' (7/8" OD) | 500' BDL    | 1.38/ft        |
| PX5L-S   |          | PXB5L-S  | 1" x 10' (1 1/8" OD) | 100' BDL    | 2.40/ft        |
| PX5L1  | PXR5L1   | PXB5L1   | 1" x 20' (1 1/8" OD) | 100' BDL    | 2.40/ft        |
| PX6L1  |          |          | 1 1/4" x 20'         | 100' BDL    | <b>5.10/ft</b> |
| <b>CANPEX™ UV PLUS TUBING - MANAPAC REELS</b>                          |          |          |                      |             |                |
|  | PXM2R5   | PXM2B5   | 3/8" (1/2" OD)       | 500'        | 351.00/reel    |
|  | PXM3R3   | PXM3B3   | 1/2" (5/8" OD)       | 300'        | 293.37/reel    |
|  | PXM4R1   | PXM4R1   | 3/4" (7/8" OD)       | 100'        | 248.29/reel    |



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# CANPEX™ OXY Oxygen Barrier Radiant PEX



PEX OXY Tubing

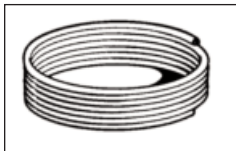
## CANPEX™ OXY Oxygen Barrier Tubing Features:

- 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 PRODUCT CODE #6.**  
Radiant CANPEX OXY Tubing



| Part Number   | Color | Nominal  |  | Description                    | Coil     |            |
|---|-------|----------|--|--------------------------------|----------|------------|
|   |       | Size     |  |                                | Length   | List Price |
| <b>CANPEX™ OXY Oxygen Barrier Red PEX TUBING - COILS</b>                        |       |          |  |                                |          |            |
| PXOB3C1   | Red   | 1/2"     |  | CANPEX™ OXY Tubing (5/8" OD)   | 100'     | \$ 0.87/ft |
| PXOB3C2.5   | Red   | 1/2"     |  | CANPEX™ OXY Tubing (5/8" OD)   | 250'     | 0.87/ft    |
| PXOB3C3   | Red   | 1/2"     |  | CANPEX™ OXY Tubing (5/8" OD)   | 300'     | 0.87/ft    |
| PXOB3C5   | Red   | 1/2"     |  | CANPEX™ OXY Tubing (5/8" OD)   | 500'     | 0.87/ft    |
| PXOB3C6   | Red   | 1/2"     |  | CANPEX™ OXY Tubing (5/8" OD)   | 600'     | 0.87/ft    |
| PXOB3C10  | Red   | 1/2"     |  | CANPEX™ OXY Tubing (5/8" OD)   | 1000'    | 0.87/ft    |
| PXOB3C12  | Red   | 1/2"     |  | CANPEX™ OXY Tubing (5/8" OD)   | 1200'    | 0.87/ft    |
| PXOB58C1  | Red   | 5/8"     |  | CANPEX™ OXY Tubing (3/4" OD)   | 100'     | 1.46/ft    |
| PXOB58C3  | Red   | 5/8"     |  | CANPEX™ OXY Tubing (3/4" OD)   | 300'     | 1.46/ft    |
| PXOB58C4  | Red   | 5/8"     |  | CANPEX™ OXY Tubing (3/4" OD)   | 400'     | 1.46/ft    |
| PXOB58C5  | Red   | 5/8"     |  | CANPEX™ OXY Tubing (3/4" OD)   | 500'     | 1.46/ft    |
| PXOB58C10   | Red   | 5/8"     |  | CANPEX™ OXY Tubing (3/4" OD)   | 1000'    | 1.46/ft    |
| PXOB4C1   | Red   | 3/4"     |  | CANPEX™ OXY Tubing (7/8" OD)   | 100'     | 1.74/ft    |
| PXOB4C2.5   | Red   | 3/4"     |  | CANPEX™ OXY Tubing (7/8" OD)   | 250'     | 1.74/ft    |
| PXOB4C3   | Red   | 3/4"     |  | CANPEX™ OXY Tubing (7/8" OD)   | 300'     | 1.74/ft    |
| PXOB4C5   | Red   | 3/4"     |  | CANPEX™ OXY Tubing (7/8" OD)   | 500'     | 1.74/ft    |
| PXOB4C10  | Red   | 3/4"     |  | CANPEX™ OXY Tubing (7/8" OD)   | 1000'    | 1.74/ft    |
| PXOB5C1   | Red   | 1"       |  | CANPEX™ OXY Tubing (1 1/8" OD) | 100'     | 3.42/ft    |
| PXOB5C2.5   | Red   | 1"       |  | CANPEX™ OXY Tubing (1 1/8" OD) | 250'     | 3.42/ft    |
| PXOB5C3   | Red   | 1"       |  | CANPEX™ OXY Tubing (1 1/8" OD) | 300'     | 3.42/ft    |
| PXOB5C5   | Red   | 1"       |  | CANPEX™ OXY Tubing (1 1/8" OD) | 500'     | 3.42/ft    |
| PXOB5C10  | Red   | 1"       |  | CANPEX™ OXY Tubing (1 1/8" OD) | 1000'    | 3.42/ft    |
| <b>CANPEX™ OXY Oxygen Barrier Red PEX TUBING - BUNDLED 20' STRAIGHT LENGTHS</b> |       |          |  |                                |          |            |
| PXOB3L5   | Red   | 1/2"x20' |  | CANPEX™ OXY Tubing             | 500' BDL | 0.87/ft    |
| PXOB4L2   | Red   | 3/4"x20' |  | CANPEX™ OXY Tubing             | 200' BDL | 1.74/ft    |
| PXOB5L1   | Red   | 1"x20'   |  | CANPEX™ OXY Tubing             | 100' BDL | 3.42/ft    |





# VIPERT™ Potable Tubing



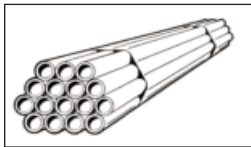
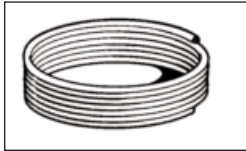
## VIPERT™ Potable Tubing Features:

- 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.
- CTS compatible with crimp fittings, F2080 cold expansion, push fittings or heat fusion systems.
- 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



- **STANDARD AGI DISCOUNTS DO NOT APPLY.**  
Contact your sales representative for pricing.

**CB PRODUCT CODE #1.**  
Potable Tubing



| Part Number  | WHITE    | RED       | BLUE      | Nominal Size | Coil Length | List Price |
|--|----------|-----------|-----------|--------------|-------------|------------|
| <b>VIPERT™ POTABLE TUBING - COILS</b>                                  |          |           |           |              |             |            |
| PRT3C1   | PRTR3C1  | PRTB3C1   |           | 1/2"         | 100'        | 0.76/ft    |
|  |          | PRTR3C2.5 | PRTB3C2.5 | 1/2"         | 250'        | 0.76/ft    |
| PRT3C3   | PRTR3C3  | PRTB3C3   |           | 1/2"         | 300'        | 0.76/ft    |
| PRT3C5   | PRTR3C5  | PRTB3C5   |           | 1/2"         | 500'        | 0.76/ft    |
| PRT3C10  | PRTR3C10 | PRTB3C10  |           | 1/2"         | 1000'       | 0.76/ft    |
| <b>VIPERT™ POTABLE TUBING - BUNDLED STRAIGHT LENGTHS of 10' or 20'</b> |          |           |           |              |             |            |
| PRT3L-S  | PRTR3L-S | PRTB3L-S  |           | 1/2" X 10'   | 500' BDL    | 0.76/ft    |
| PRT3L10  | PRTR3L10 | PRTB3L10  |           | 1/2" X 20'   | 1000' BDL   | 0.76/ft    |
| PRT4L-S  | PRTR4L-S | PRTB4L-S  |           | 3/4" X 10'   | 250' BDL    | 1.38/ft    |
| PRT4L5   | PRTR4L5  | PRTB4L5   |           | 3/4" X 20'   | 500' BDL    | 1.38/ft    |
| PRT5L-S  |          | PRTB5L-S  |           | 1" X 10'     | 100' BDL    | 2.40/ft    |
| PRT5L1   | PRTR5L1  | PRTB5L1   |           | 1" X 20'     | 100' BDL    | 2.40/ft    |
| PRT6L1   |          |           |           | 1 1/4" X 20' | 100' BDL    | 5.10/ft    |



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# VIPERT™ Oxy Barrier Radiant Tubing



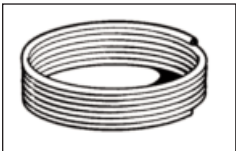
## VIPERT™ Oxy Barrier Radiant Tubing Features:

- 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.
- CTS compatible with crimp fittings, F2080 cold expansion, push fittings or heat fusion 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.



- **STANDARD AGI DISCOUNTS DO NOT APPLY.**  
Contact your sales representative for pricing.

**CB PRODUCT CODE #6.**  
Radiant Tubing



| Part Number   | Color | Nominal Size | Description                | Coil Length | List Price |
|---|-------|--------------|----------------------------|-------------|------------|
| <b>VIPERT™ Oxygen Barrier TUBING - COILS</b>                        |       |              |                            |             |            |
| PRTOB3C1  | Green | 1/2"         | VIPERT Oxy Barrier Radiant | 100'        | 0.87/ft    |
| PRTOB3C2.5  | Green | 1/2"         | VIPERT Oxy Barrier Radiant | 250'        | 0.87/ft    |
| PRTOB3C3  | Green | 1/2"         | VIPERT Oxy Barrier Radiant | 300'        | 0.87/ft    |
| PRTOB3C5  | Green | 1/2"         | VIPERT Oxy Barrier Radiant | 500'        | 0.87/ft    |
| PRTOB3C6  | Green | 1/2"         | VIPERT Oxy Barrier Radiant | 600'        | 0.87/ft    |
| PRTOB3C10   | Green | 1/2"         | VIPERT Oxy Barrier Radiant | 1000'       | 0.87/ft    |
| PRTOB3C12   | Green | 1/2"         | VIPERT Oxy Barrier Radiant | 1200'       | 0.87/ft    |
| <b>VIPERT™ Oxygen Barrier TUBING - BUNDLED 20' STRAIGHT LENGTHS</b> |       |              |                            |             |            |
| PRTOB3L5  | Green | 1/2"x20'     | VIPERT Oxy Barrier Radiant | 500' BDL    | 0.87/ft    |
| PRTOB4L2  | Green | 3/4"x20'     | VIPERT Oxy Barrier Radiant | 200' BDL    | 1.74/ft    |
| PRTOB5L1  | Green | 1"x20'       | VIPERT Oxy Barrier Radiant | 100' BDL    | 3.42/ft    |





# 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.



• **STANDARD AGI DISCOUNTS DO NOT APPLY.**  
Contact your sales representative for pricing.

**CB PRODUCT CODE #7.**  
Crimp Rings



Crimp Rings

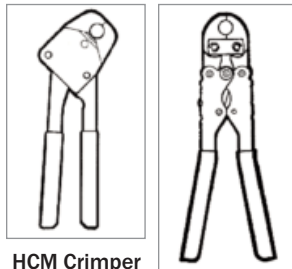


Crimp Sleeves

| Part Number               | Size Description                            | Bag/Ctn Qty | List Price |
|---------------------------|---|-------------|------------|
| <b>COPPER CRIMP RINGS</b> |   |             |            |
| CBXCR2                    | Copper Crimp Ring for 3/8" PEX Tubing       | 100/2000    | \$ 0.29    |
| CBXCR3                    | Copper Crimp Ring for 1/2" PEX Tubing       | 100/4000    | 0.47       |
| CBXCR58-B                 | Copper Crimp Ring Black for 5/8" PEX Tubing | 100         | 0.80       |
| CBXCR4                    | Copper Crimp Ring for 3/4" PEX Tubing       | 100/2000    | 0.65       |
| CBXCR5                    | Copper Crimp Ring for 1" PEX Tubing         | 50/250      | 0.78       |
| CBXCR6                    | Copper Crimp Ring for 1 1/4" PEX Tubing     | 100/400     | 1.48       |
| CBXSS3                    | Stainless Steel Crimp Sleeve 1/2" PEX       | 50/5000     | 0.56       |
| CBXSS4                    | Stainless Steel Crimp Sleeve 3/4" PEX       | 50/3200     | 0.79       |
| CBXSS5                    | Stainless Steel Crimp Sleeve 1" PEX         | 25/1600     | 1.20       |

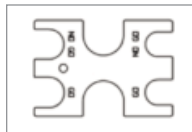
• **STANDARD AGI DISCOUNTS DO NOT APPLY.**  
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**CB PRODUCT CODE #3.**  
Tools

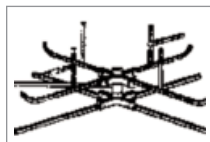


HCM Crimper

HAD Crimper



HAC34 Caliper



Uncoiler

| Part Number                 | Size Description                     | Bag/Ctn Qty | List Price |
|-----------------------------|--------------------------------------|-------------|------------|
| <b>CRIMP TOOLS</b>          |                                      |             |            |
| HCM2                        | 3/8" SINGLE HAND CRIMPER             | 1           | 239.40     |
| HCM3                        | 1/2" SINGLE HAND CRIMPER             | 1           | 239.40     |
| HCM4                        | 3/4" SINGLE HAND CRIMPER             | 1           | 239.40     |
| HCM5                        | 1" SINGLE HAND CRIMPER               | 1           | 285.60     |
| HAD2                        | 3/8" CRIMP TOOL PEX                  | 1           | 190.00     |
| HAD3                        | 1/2" CRIMP TOOL PEX                  | 1           | 190.00     |
| HAD4                        | 3/4" CRIMP TOOL PEX                  | 1           | 215.00     |
| HAD5                        | 1" CRIMP TOOL PEX                    | 1           | 387.00     |
| HAD34                       | 1/2 X 3/4" CRIMP TOOL PEX            | 1           | 300.00     |
| HADSS3                      | 1/2" STAINLESS STEEL RATCHET CRIMPER | 1           | 195.00     |
| HADSS4                      | 3/4" STAINLESS STEEL RATCHET CRIMPER | 1           | 195.00     |
| HADSS5                      | 1" STAINLESS STEEL RATCHET CRIMPER   | 1           | 195.00     |
| <b>PEX CRIMP RING GAUGE</b> |                                      |             |            |
| HAC34                       | 3/8, 1/2 and 3/4 GO-NO GO RING GAUGE | 1           | 11.11      |
| HAC5                        | 1" CRIMP RING GAUGE                  | 1           | 11.11      |
| <b>UNCOILER</b>             |                                      |             |            |
| TATK200                     | Tubing Uncoiler                      | 1           | 565.00     |



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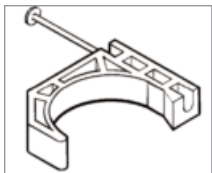
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# PEX Tubing Installation Accessories

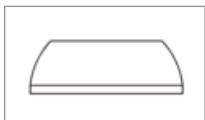


- STANDARD AGI DISCOUNTS DO NOT APPLY.  
Contact your sales representative for pricing.

**CB PRODUCT CODE #3.**  
PAL Accessories, Clamps, Tubes



Tube Clamps



Cone Seals



Escutcheons



Risers

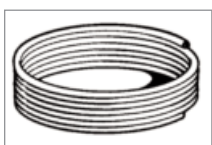


PTO Bend Support

| Part Number                | Size Description                               | Bag/Ctn Qty | List Price |
|----------------------------|--|-------------|------------|
| <b>TUBE CLAMPS</b>         |  |             |            |
| CLJ2                       | 3/8" J-Clamp with Nail                         | 100/500     | \$ 0.10    |
| CLJ3                       | 1/2" J-Clamp with Nail                         | 100/500     | 0.10       |
| CLJ4                       | 3/4" J-Clamp with Nail                         | 100/500     | 0.12       |
| CLJ5                       | 1" J-Clamp with Nail                           | 50/250      | 0.19       |
| <b>CONE SEALS</b>          |  |             |            |
| RXTC2                      | 1/2 ID CLOSET CONE                             | 100/1000    | 0.29       |
| RXTL2                      | 1/2 ID LAV CONE                                | 100/1000    | 0.14       |
| RXTL3                      | 3/4 ID LAV CONE                                | 100/1000    | 0.29       |
| <b>PLASTIC ESCUTCHEONS</b> |  |             |            |
| RXEW2                      | WHITE ESCUTCHEON, 3/8 TUBE                     | 50/500      | 0.43       |
| RXEW2D                     | WHITE DBL ESCUTCHEON, 3/8                      | 25/250      | 0.60       |
| RXEW3                      | WHITE ESCUTCHEON, 1/2 TUBE                     | 50/500      | 0.43       |
| RXEW3D                     | WHITE DBL ESCUTCHEON, 1/2                      | 25/250      | 0.60       |
| <b>RISERS</b>              |  |             |            |
| RLX112                     | 3/8" x 12" LAV Riser w/ compression ferrule    | 100         | 1.04       |
| RLX115                     | 3/8" x 15" LAV Riser w/ compression ferrule    | 100         | 1.25       |
| RLX120                     | 3/8" x 20" LAV Riser w/ compression ferrule    | 100         | 1.37       |
| RLX130                     | 3/8" x 30" LAV Riser w/ compression ferrule    | 100         | 1.93       |
| RLX136                     | 3/8" x 36" LAV Riser w/ compression ferrule    | 100         | 2.23       |
| RKX112                     | 3/8" x 12" CLOSET Riser w/ compression ferrule | 100         | 1.04       |
| RKX115                     | 3/8" x 15" CLOSET Riser w/ compression ferrule | 100         | 1.25       |
| RKX120                     | 3/8" x 20" CLOSET Riser w/ compression ferrule | 100         | 1.37       |
| RXF1                       | FERRULE FOR 3/8 OD RISER"                      | 100         | 0.11       |
| RX9S2                      | INSERT STIFFENER FOR 3/8 TUBE"                 | 10          | 0.35       |
| <b>BEND SUPPORT</b>        |  |             |            |
| PT03                       | 1/2" Bend Support                              | 50          | 2.94       |
| PT04                       | 3/4" Bend Support                              | 50          | 4.07       |

- STANDARD AGI DISCOUNTS DO NOT APPLY.  
Contact your sales representative for pricing.

**CB PRODUCT CODE #1.**  
Potable CANPEX PEX Tubing



Ice Maker Tubing

| Part Number                                    | Size Description                  | Bag/Ctn Qty | List Price |
|--|-----------------------------------|-------------|------------|
| <b>ICE MAKER TUBING 200 psi, CTS-OD SDR-11</b> |                                   |             |            |
| TBOC1  | 1/8" Nominal (1/4" OD) Natural PE | 100'        | 41.00      |





# Pex & Radiant Tubing Cutters



• STANDARD AGI DISCOUNTS DO APPLY to items on this page.



T Series Cutter

| Part Number   | Color                                 | Blade Material                | Cuts   | Ctn Qty | List Price |
|---|---------------------------------------|-------------------------------|--|---------|------------|
| <b>HARVARD CONTRACTOR Pipe &amp; Hose Cutters</b>   |                                       |                               |  |         |            |
| T100  | Black                                 | PTFE Coated<br>Hardened Steel | PE, Rubber hose & PVC<br>(Class & Sch 40) through 1"       | 50      | \$ 21.53   |
| YT100   | Yellow                                | PTFE Coated<br>Hardened Steel | PE, Rubber hose & PVC<br>(Class & Sch 40) through 1"       | 50      | 21.53      |
| T100SS  | Black                                 | Stainless Steel               | PE, Rubber hose & PVC<br>(Class & Sch 40) through 1"       | 50      | 22.48      |
| YT100SS   | Yellow                                | Stainless Steel               | PE, Rubber hose & PVC<br>(Class & Sch 40) through 1"       | 50      | 22.48      |
| T135  | Black                                 | PTFE Coated<br>Hardened Steel | PE, Rubber hose through 1 1/2"<br>Class PVC through 1 1/4" | 50      | 24.15      |
| YT135   | Yellow                                | PTFE Coated<br>Hardened Steel | PE, Rubber hose through 1 1/2"<br>Class PVC through 1 1/4" | 50      | 24.15      |
| T135SS  | Black                                 | Stainless Steel               | PE, Rubber hose through 1 1/2"<br>Class PVC through 1 1/4" | 50      | 25.10      |
| YT135SS   | Yellow                                | Stainless Steel               | PE, Rubber hose through 1 1/2"<br>Class PVC through 1 1/4" | 50      | 25.10      |
| <b>HARVARD CONTRACTOR Replacement Blades (includes one knock out pin) DP is DOUBLE PACK</b> |                                       |                               |  |         |            |
| BT100   | PTFE Coated Hardened Steel Blade      |                               | T100, YT100  | 100     | 8.20       |
| BT100SS   | Stainless Steel Blade                 |                               | T100SS, YT100SS  | 100     | 9.16       |
| BT135   | PTFE Coated Hardened Steel Blade      |                               | T135, YT135  | 100     | 8.98       |
| BT135DP   | PTFE Coated Hardened Steel Blades (2) |                               | T135, YT135  | 100     | 17.42      |
| BT135SS   | Stainless Steel Blade                 |                               | T135SS, YT135SS  | 100     | 9.91       |
| BT135DPSS   | Stainless Steel Blades (2)            |                               | T135SS, YT135SS  | 100     | 19.29      |





# PEX & Radiant Tubing Installation Valves

\* STANDARD AGI DISCOUNTS APPLY to items on this page only.



HFBV4-PEXNL Series

| MATERIAL SPECIFICATIONS |                        |
|-------------------------|------------------------|
| Handle Nut              | Zinc Coated Steel      |
| Handle                  | Zinc Coated Steel      |
| Stem O-ring (2)         | NBR                    |
| Ball                    | Chrome Plated NL Brass |
| Seats                   | PTFE                   |
| Body                    | NL Forged Brass        |
| End Adapter             | NL Forged Brass        |

## NO LEAD Forged Brass FULL Port Ball Valve with PEX 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.
- PEX ends for use with PEX tubing connections.
- **Third party certified to NSF/ANSI 372.**



| Part Number    | Size | Ctn/Case Qty | List Price* |
|----------------|------|--------------|-------------|
| HFBV4-50PEXNL  | 1/2" | 25/100       | \$ 6.39     |
| HFBV4-75PEXNL  | 3/4" | 10/60        | 10.54       |
| HFBV4-100PEXNL | 1"   | 10/40        | 15.89       |



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 372.**



| Part Number     | Size | Ctn/Case Qty | List Price* |
|-----------------|------|--------------|-------------|
| HFBV4-50PEXSWNL | 1/2" | 25/100       | \$ 9.27     |
| HFBV4-75PEXSWNL | 3/4" | 10/60        | 12.45       |

# PEX & Radiant Tubing Installation Valves



- STANDARD AGI DISCOUNTS DO NOT APPLY.  
Contact your sales representative for pricing.



## NO LEAD Brass Chrome Plated Ball Valve with PEX Connections Features:

- Chrome Plated No Lead Brass.
- Plastic Oval Handle.
- For use with PEX tubing connections.
- Third party certified to NSF/ANSI 372.

**CB PRODUCT CODE #2.**  
PEX NL Brass Insert Valves



Angle Stop Valve



Straight Stop Valves

| Part Number                                     | Size Description                               | Bag Qty | List Price |
|---|--|---------|------------|
| <b>ANGLE STOP Valve Insert x Compression</b>    |  |         |            |
| 70-20-20-074NL                                  | 1/2" PEX x 3/8 Comp Angle Stop Ch Plated NL    | 25      | 9.62       |
| 70-30-10-072NL                                  | 1/2" PEX x 1/4 Comp Angle Stop Ch Plated NL    | 25      | 9.33       |
| <b>STRAIGHT STOP Valve Insert x Compression</b> |  |         |            |
| 70-20-10-074NL                                  | 1/2" PEX x 3/8 Comp Straight Stop Ch Plated NL | 25      | 9.33       |



# Radiant Installation Accessories

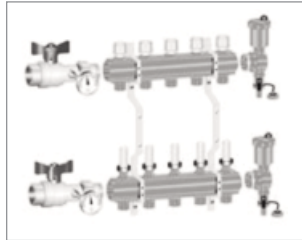


## Radiant Manifolds:

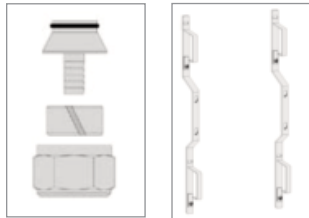
- Pre-Assembled manifold with red and blue butterfly handle isolator ball valves, thermometers, automatic airvents, fill port, flow meters and mounting brackets

- **STANDARD AGI DISCOUNTS DO NOT APPLY.**  
Contact your sales representative for pricing.

**CB PRODUCT CODE #8.**  
Hydronic Heating Manifolds & Accessories



Manifold



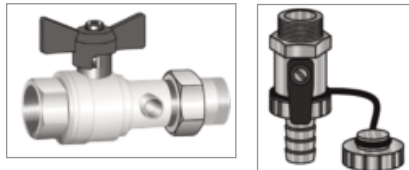
Compression x Manifold Ftg 271



419

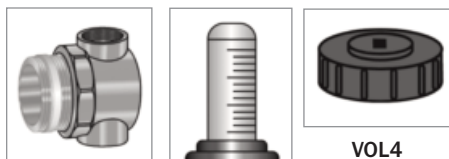
418T

448B



422 Valves

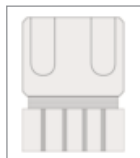
476A



229

VOL4

GRM6



399

227

| Part Number                                | Size Description                             | Ctn | List Price |
|--|--|-----|------------|
| <b>PRE-ASSEMBLED RADIANT MANIFOLDS</b>     |  |     |            |
| VGMC342S                                   | 2 Loop Vanguard 1" Manifold W/Flo Meter      | 1   | \$ 239.50  |
| VGMC343S                                   | 3 Loop Vanguard 1" Manifold W/Flo Meter      | 1   | 337.50     |
| VGMC344S                                   | 4 Loop Vanguard 1" Manifold W/Flo Meter      | 1   | 389.75     |
| VGMC345S                                   | 5 Loop Vanguard 1" Manifold W/Flo Meter      | 1   | 454.01     |
| VGMC346S                                   | 6 Loop Vanguard 1" Manifold W/Flo Meter      | 1   | 496.00     |
| VGMC347S                                   | 7 Loop Vanguard 1" Manifold W/Flo Meter      | 1   | 572.00     |
| VGMC348S                                   | 8 Loop Vanguard 1" Manifold W/Flo Meter      | 1   | 622.00     |
| VGMC349S                                   | 9 Loop Vanguard 1" Manifold W/Flo Meter      | 1   | 697.56     |
| VGMC350S                                   | 10 Loop Vanguard 1" Manifold W/Flo Meter     | 1   | 757.96     |
| VGMC346S.25                                | 6 Loop Vanguard 1 1/4" Manifold W/Flo Meter  | 1   | 623.43     |
| VGMC347S.25                                | 7 Loop Vanguard 1 1/4" Manifold W/Flo Meter  | 1   | 688.11     |
| VGMC348S.25                                | 8 Loop Vanguard 1 1/4" Manifold W/Flo Meter  | 1   | 760.39     |
| VGMC349S.25                                | 9 Loop Vanguard 1 1/4" Manifold W/Flo Meter  | 1   | 821.10     |
| VGMC350S.25                                | 10 Loop Vanguard 1 1/4" Manifold W/Flo Meter | 1   | 892.71     |
| <b>COMPRESSION X MANIFOLD FITTINGS</b>     |  |     |            |
| R2038CP                                    | 3/8" COMPRESSION X MANIFOLD FTG              | 25  | 6.75       |
| R2012CP                                    | 1/2" COMPRESSION X MANIFOLD FTG              | 25  | 6.75       |
| R2058CP                                    | 5/8" COMPRESSION X MANIFOLD FTG              | 10  | 8.50       |
| R2034CP                                    | 3/4" COMPRESSION X MANIFOLD FTG              | 10  | 9.80       |
| <b>RADIANT HEATING MANIFOLD COMPONENTS</b> |  |     |            |
| 271  | Manifold Bracket (Set of 2)                  | 1   | 14.00      |
| 419  | Manifold Automatic Air Flow Vent             | 1   | 10.17      |
| 418T                                       | Manual Air Flow Vent                         | 1   | 2.17       |
| 448B                                       | Manifold Thermometer Temperature Indicator   | 1   | 17.50      |
| 422R                                       | Manifold Isolater Valve (Red Handle)         | 1   | 48.90      |
| 422B                                       | Manifold Isolater Valve (Blue Handle)        | 1   | 48.90      |
| 229  | Manifold Fill Port Adapter                   | 1   | 7.40       |
| 476A                                       | Manifold Fill Port                           | 1   | 11.10      |
| GRM6                                       | Manifold Flow Meter, 0-6 GPM                 | 1   | 14.70      |
| VOL4                                       | Red Handle for Flow Meter                    | 1   | 1.27       |
| 399  | Manifold Return Valve Cap                    | 1   | 3.57       |
| 227  | 3/4" Manifold Circuit Cap                    | 1   | 2.40       |

# Radiant Installation Accessories

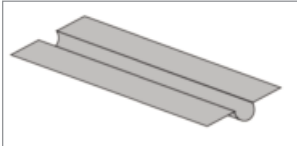


## Radiant Accessories



- STANDARD AGI DISCOUNTS DO NOT APPLY.  
Contact your sales representative for pricing.

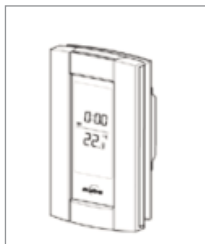
**CB PRODUCT CODE #8.**  
Hydronic Heating Manifolds & Accessories



HRTP



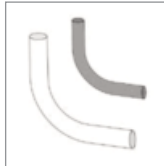
Circuit Actuator



Digital Thermostat



In-Slab Repair Kit



Slip-on Slab Elbow



Staples



| Part Number                   | Size Description                          | Ctn | List Price |
|-------------------------------|---|-----|------------|
| <b>Heat Transfer Plates</b>   |   |     |            |
| HRTP3                         | Aluminum Heat Transfer Plates 19" x 5"    | 25  | \$ 2.45    |
| <b>CIRCUIT ACTUATORS</b>      |   |     |            |
| AM24V                         | 24V Actuating Valve 2 Wire                | 1   | 99.36      |
| AM24V4                        | 24V Actuating Valve 4 Wire                | 1   | 107.99     |
| <b>Digital Thermostat</b>     |   |     |            |
| TH115-A-24T                   | Programmable Ambient Thermostat           | 1   | 129.06     |
| TH115-AF-024T                 | Programmable Ambient Floor Thermostat     | 1   | 182.22     |
| TH114-A-024V                  | Non-Programmable Ambient Thermostat       | 1   | 109.06     |
| TH114AF024T                   | Non-Programmable Ambient Floor Thermostat | 1   | 160.74     |
| <b>In Slab Repair Kit</b>     |   |     |            |
| CBXRK33HR                     | In-slab repair kit 1/2"                   | 1   | 1.75       |
| CBXRK58HR                     | In-Slab repair kit 5/8"                   | 1   | 2.15       |
| CBXRK44HR                     | In-slab repair kit 3/4"                   | 1   | 2.15       |
| <b>Slip-on Elbow for Slab</b> |   |     |            |
| HRSL3                         | 1/2" PEX Plastic Slip On Elbow for Slab   | 1   | 2.10       |
| HRSL4                         | 3/4" PEX Plastic Slip On Elbow for Slab   | 1   | 2.25       |
| <b>Foam Staples</b>           |   |     |            |
| STAP1                         | 1 1/2" Staple 300/box                     | 1   | 73.30      |
| STAP2                         | 2 1/2" Staple 300/box                     | 1   | 94.55      |



# NO LEAD Brass PEX Insert Fittings

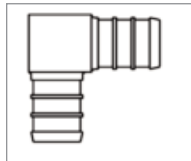
## NO LEAD Brass PEX Insert Fitting Features:

- 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 372.

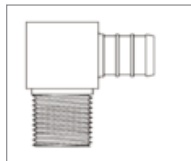


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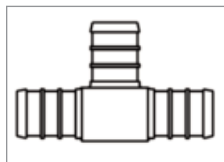
**CB PRODUCT CODE #2.**  
PEX NL Brass Insert Fittings



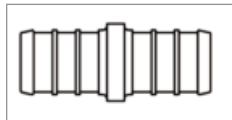
NLCBXE Elbow



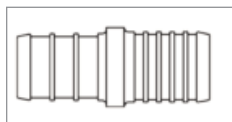
NLCBXME Male Elbow



NLCBXT Tee



NLCBXC Coupling



NLCBXC Transition Coupling

| Part Number   | Size Description                          | Bag Qty | List Price |
|---|---|---------|------------|
| <b>ELBOWS</b>   |   |         |            |
| <b>Ins x Ins</b>  |   |         |            |
| NLCBXE22  | 3/8 PEX 90 Elbow - NL                     | 50      | \$ 2.39    |
| NLCBXE33  | 1/2 PEX 90 Elbow - NL                     | 50      | 2.37       |
| NLCBXE43  | 3/4 x 1/2 PEX 90 Elbow -NL                | 25      | 2.80       |
| NLCBXE44  | 3/4 PEX 90 Elbow - NL                     | 25      | 3.34       |
| NLCBXE55  | 1 PEX 90 Elbow - NL                       | 10      | 5.46       |
| NLCBXE66  | 1 1/4 PEX 90 Elbow - NL                   | 10      | 15.29      |
| <b>Ins x MIP</b>  |   |         |            |
| NLCBXME32   | 1/2 PEX x 3/8 MPT 90 Elbow - NL           | 50      | 4.44       |
| NLCBXME33   | 1/2 PEX x 1/2 MPT 90 Elbow - NL           | 50      | 5.63       |
| NLCBXME44   | 3/4 PEX x 3/4 MPT 90 Elbow - NL           | 25      | 9.84       |
| NLCBXME55   | 1 PEX x 1 MPT 90 Elbow - NL               | 25      | 14.51      |
| NLCBXME66   | 1 1/4 PEX x 1 1/4 MPT 90 Elbow - NL       | 10      | 32.67      |
| <b>TEES</b>   |   |         |            |
| <b>Ins x Ins x Ins</b>  |   |         |            |
| NLCBXT222   | 3/8 PEX Tee - NL                          | 25      | 2.96       |
| NLCBXT333   | 1/2 PEX Tee - NL                          | 50      | 2.54       |
| NLCBXT334   | 1/2 x 1/2 x 3/4 PEX Tee - NL              | 25      | 5.32       |
| NLCBXT433   | 3/4 x 1/2 x 1/2 PEX Tee - NL              | 25      | 4.58       |
| NLCBXT434   | 3/4 x 1/2 x 3/4 PEX Tee - NL              | 25      | 4.41       |
| NLCBXT443   | 3/4 x 3/4 x 1/2 PEX Tee - NL              | 25      | 3.64       |
| NLCBXT444   | 3/4 PEX Tee - NL                          | 25      | 4.27       |
| NLCBXT445   | 3/4 x 3/4 x 1 PEX Tee - NL                | 10      | 6.54       |
| NLCBXT534   | 1 x 1/2 x 3/4 PEX Tee - NL                | 10      | 6.72       |
| NLCBXT543   | 1 x 3/4 x 1/2 PEX Tee - NL                | 10      | 6.72       |
| NLCBXT544   | 1 x 3/4 x 3/4 PEX Tee - NL                | 10      | 8.65       |
| NLCBXT545   | 1 x 3/4 x 1 PEX Tee - NL                  | 10      | 8.44       |
| NLCBXT553   | 1 x 1 x 1/2 PEX Tee - NL                  | 10      | 6.33       |
| NLCBXT554   | 1 x 1 x 3/4 PEX Tee - NL                  | 10      | 8.86       |
| NLCBXT555   | 1 PEX Tee - NL                            | 25      | 8.37       |
| NLCBXT666   | 1 1/4 PEX Tee - NL                        | 10      | 15.92      |
| <b>COUPLINGS</b>  |   |         |            |
| <b>Ins x Ins</b>  |   |         |            |
| NLCBXC22  | 3/8 PEX Coupling - NL                     | 100     | 1.26       |
| NLCBXC32  | 1/2 x 3/8 PEX Coupling - NL               | 50      | 1.51       |
| NLCBXC33  | 1/2 PEX Coupling - NL                     | 100     | 1.31       |
| NLCBXC43  | 3/4 x 1/2 PEX Coupling - NL               | 50      | 2.24       |
| NLCBXC44  | 3/4 PEX Coupling - NL                     | 50      | 2.43       |
| NLCBXC54  | 1 x 3/4 PEX Coupling - NL                 | 25      | 4.01       |
| NLCBXC55  | 1 PEX Coupling - NL                       | 25      | 4.44       |
| NLCBXC66  | 1 1/4 PEX Coupling - NL                   | 10      | 9.50       |
| <b>TRANSITION COUPLINGS Ins PEX x Ins Polybutylene - includes crimp rings</b> |   |         |            |
| NLCBXC22  | 3/8 PEX x 3/8 PB Transition Coupling - NL | 100     | 2.71       |
| NLCBXC33  | 1/2 PEX x 1/2 PB Transition Coupling - NL | 100     | 2.90       |
| NLCBXC44  | 3/4 PEX x 3/4 PB Transition Coupling - NL | 25      | 4.50       |
| NLCBXC55  | 1 PEX x 1 PB Transition Coupling - NL     | 10      | 6.65       |



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FALL 2016

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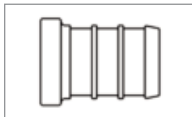
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# NO LEAD Brass PEX Insert Fittings

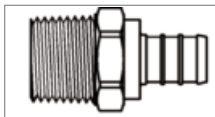


• STANDARD AGI DISCOUNTS DO NOT APPLY.  
Contact your sales representative for pricing.

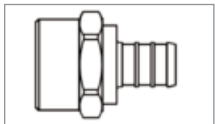
**CB PRODUCT CODE #2.**  
PEX NL Brass Insert Fittings



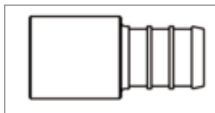
NLCBP Plug



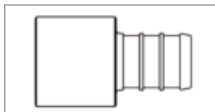
NLCBXM Male Adapter



NLCBXFC Female Adapter



NLCBXC Male Sweat Adapter



NLCBXC Female Sweat Adapter

| Part Number                                       | Size Description                          | Bag Qty | List Price |
|---|---|---------|------------|
| <b>PLUGS</b>                                      |   |         |            |
| NLCBXP2B  | 3/8 PEX Plug - NL                         | 100     | 0.87       |
| NLCBXP3B  | 1/2 PEX Plug - NL                         | 100     | 0.98       |
| NLCBXP4B  | 3/4 PEX Plug - NL                         | 50      | 1.89       |
| NLCBXP5B  | 1 PEX Plug - NL                           | 50      | 2.95       |
| NLCBXP6B  | 1 1/4 PEX Plug NL                         | 10      | 8.86       |
| <b>MALE ADAPTERS    Ins x MPT</b>                 |   |         |            |
| NLCBXM23  | 3/8 PEX x 1/2 MPT Adapter - NL            | 25      | \$ 3.74    |
| NLCBXM33  | 1/2 PEX x 1/2 MPT Adapter - NL            | 50      | 3.19       |
| NLCBXM34  | 1/2 PEX x 3/4 MPT Adapter - NL            | 25      | 4.88       |
| NLCBXM43  | 3/4 PEX x 1/2 MPT Adapter - NL            | 25      | 3.48       |
| NLCBXM44  | 3/4 PEX x 3/4 MPT Adapter - NL            | 25      | 4.98       |
| NLCBXM45  | 3/4 PEX x 1 MPT Adapter - NL              | 10      | 9.28       |
| NLCBXM54  | 1 PEX x 3/4 MPT Adapter - NL              | 10      | 6.19       |
| NLCBXM55  | 1 PEX x 1 MPT Adapter - NL                | 10      | 9.58       |
| NLCBXM66  | 1 1/4 PEX x 1 1/4 MPT Adapter NL          | 10      | 22.21      |
| <b>FEMALE ADAPTERS    Ins x FPT</b>               |   |         |            |
| NLCBXFC23   | 3/8 PEX x 1/2 FPT Adapter - NL            | 25      | 4.77       |
| NLCBXFC33   | 1/2 PEX x 1/2 FPT Adapter - NL            | 25      | 3.90       |
| NLCBXFC43   | 3/4 PEX x 1/2 FPT Adapter - NL            | 25      | 5.79       |
| NLCBXFC34   | 1/2 PEX x 3/4 FPT Adapter - NL            | 25      | 6.09       |
| NLCBXFC44   | 3/4 PEX x 3/4 FPT Adapter - NL            | 25      | 5.42       |
| NLCBXFC45   | 3/4 PEX x 1 FPT Adapter - NL              | 25      | 10.66      |
| NLCBXFC54   | 1 PEX x 3/4 FPT Adapter - NL              | 25      | 6.13       |
| NLCBXFC55   | 1 PEX x 1 FPT Adapter - NL                | 50      | 11.19      |
| NLCBXFC66   | 1 1/4 PEX x 1 1/4 FPT Adapter - NL        | 10      | 25.43      |
| <b>MALE SWEAT ADAPTERS    Ins x Male Sweat</b>    |   |         |            |
| NLCBXC23M   | 3/8 PEX x 1/2 Male Sweat Adapter - NL     | 50      | 1.79       |
| NLCBXC33M   | 1/2 PEX x 1/2 Male Sweat Adapter - NL     | 50      | 1.65       |
| NLCBXC34M   | 1/2 PEX x 3/4 Male Sweat Adapter - NL     | 25      | 3.45       |
| NLCBXC44M   | 3/4 PEX x 3/4 Male Sweat Adapter - NL     | 25      | 3.17       |
| NLCBXC55M   | 1 PEX x 1 Male Sweat Adapter - NL         | 25      | 5.78       |
| NLCBXC66M   | 1 1/4 PEX x 1 Male Sweat Adapter NL       | 10      | 12.77      |
| <b>FEMALE SWEAT ADAPTER    Ins x Female Sweat</b> |   |         |            |
| NLCBXC23F   | 3/8 PEX x 1/2 Female Sweat Adapter - NL   | 50      | 1.97       |
| NLCBXC33F   | 1/2 PEX x 1/2 Female Sweat Adapter - NL   | 50      | 1.81       |
| NLCBXC44F   | 3/4 PEX x 3/4 Female Sweat Adapter - NL   | 25      | 3.25       |
| NLCBXC55F   | 1 PEX x 1 Female Sweat Adapter - NL       | 10      | 5.93       |
| NLCBXC66F   | 1 1/4 PEX x 1 1/4 Female Sweat Adapter NL | 10      | 11.43      |

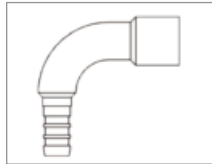




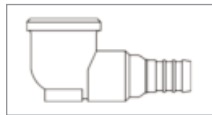
# NO LEAD Brass PEX Insert Fittings

• STANDARD AGI DISCOUNTS DO NOT APPLY.  
Contact your sales representative for pricing.

CB PRODUCT CODE #2.  
PEX NL Brass Insert Fittings



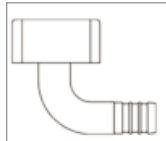
NLCBXE Sweat Elbows



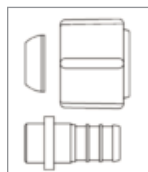
NLCBXDE Drop Ear Elbows



CBXE Stubout Elbows



NLCBXSE Swivel Elbows



NLCBXSA Transition Ftg

| Part Number  | Size Description                                  | Bag Qty | List Price |
|--|---|---------|------------|
| <b>MALE SWEAT ELBOWS Ins x Male Sweat</b>            |   |         |            |
| NLCBXE33MC   | 1/2 PEX x 1/2 Male Sweat Elbow - NL               | 25      | 3.44       |
| NLCBXE44MC   | 3/4 PEX x 3/4 Male Sweat Elbow - NL               | 10      | 6.87       |
| <b>FEMALE SWEAT ELBOWS Ins x Female Sweat</b>        |   |         |            |
| NLCBXE33FC   | 1/2 PEX x 1/2 Female Sweat Elbow - NL             | 10      | 3.89       |
| NLCBXE44FC   | 3/4 PEX x 3/4 Female Sweat Elbow - NL             | 10      | 6.67       |
| NLCBXE55FC   | 1 PEX x 1 Female Sweat Elbow - NL                 | 25      | 12.73      |
| <b>DROP EAR ELBOWS Ins x FPT</b>                     |   |         |            |
| NLCBXDE33C   | 1/2 PEX x 1/2 FPT Drop Ear Elbow - NL             | 10      | 8.18       |
| NLCBXDE43C   | 3/4 PEX x 1/2 FPT Drop Ear Elbow - NL             | 25      | 12.89      |
| NLCBXDE44C   | 3/4 PEX x 3/4 FPT Drop Ear Elbow - NL             | 10      | 13.10      |
| <b>STUB OUT ELBOWS Ins x Closed</b>                  |   |         |            |
| CBXE33SO   | 4" x 6" Ins x 1/2 Closed End Copper               | 50      | 7.20       |
| CBXE33SO8  | 4" x 8" Ins x 1/2 Closed End Copper               | 50      | 6.72       |
| CBXE33SOE  | 4" x 6" Ins x 1/2 Closed End w/ Ear Copper        | 25      | 10.55      |
| CBXE33SOE8   | 4" x 8" Ins x 1/2 Closed End w/ Ear Copper        | 25      | 11.74      |
| <b>SWIVEL ELBOWS Ins x FPT</b>                       |   |         |            |
| NLCBXSE23C   | 3/8 PEX x 1/2 FPT Swivel Elbow-NL                 | 50      | 3.40       |
| NLCBXSE33C   | 1/2 PEX x 1/2 FPT Swivel Elbow-NL (plastic nut)   | 50      | 3.36       |
| NLCBXSE44C   | 3/4 PEX x 3/4 FPT Swivel Elbow-NL (plastic nut)   | 25      | 7.41       |
| <b>TRANSITION SWIVEL ADAPTER Ins x Female Swivel</b> |   |         |            |
| NLCBXSA23  | 3/8 PEX x 1/2 FPT Thrd Swivel Adapter NL (pl nut) | 25      | 2.09       |
| NLCBXSA33  | 1/2 PEX x 1/2 FPT Thrd Swivel Adapter NL(pl nut)  | 25      | 2.04       |
| NLCBXSA34  | 1/2 PEX x 3/4 FPT Thrd Swivel Adapter NL (pl nut) | 10      | 3.72       |
| NLCBXSA44  | 3/4 PEX x 3/4 FPT Thrd Swivel Adapter NL (pl nut) | 10      | 3.97       |
| NLCBXSA33B   | 1/2 PEX x 1/2 FPT Thrd Swivel Adapter NL (BR nut) | 25      | 5.70       |
| NLCBXSA44B   | 3/4 PEX x 3/4 FPT Thrd Swivel Adapter NL (BR nut) | 10      | 9.65       |



In the United States: Phone (800) 776-2266 Fax (800) 729-3299  
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

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FALL 2016

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# NO LEAD PAL PEX Insert Fittings



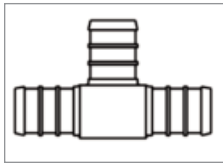
## Polyalloy PAL PEX Insert Fitting Features:

- 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 372.

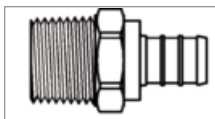


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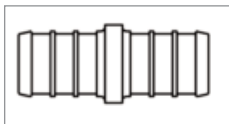
**CB PRODUCT CODE #3.**  
PAL Insert Fittings



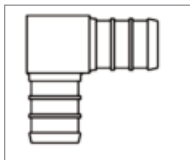
XPT Tee



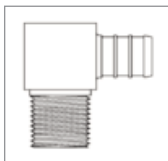
XPMC Male Adapter



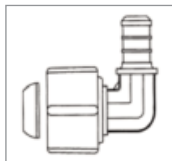
XPC Coupling



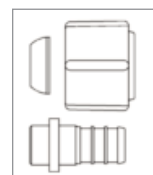
XPE Elbow



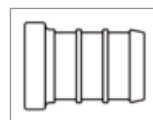
XPME Male Elbow



XPMSW Swivel Elbow



XPSA Transition Swivel Adapter



CBXP Plug

| Part Number                      | Size Description             | Bag/Box Qty | List Price |
|----------------------------------|------------------------------|-------------|------------|
| <b>TEES</b>                      |                              |             |            |
|                                  | <b>Ins x Ins x Ins</b>       |             |            |
| XPT333                           | 1/2 PAL TEE                  | 50/500      | \$ 0.90    |
| XPT334                           | 1/2 X 1/2 X 3/4 PAL TEE      | 25/675      | 1.28       |
| XPT433                           | 3/4 X 1/2 X 1/2 PAL TEE      | 25/600      | 1.28       |
| XPT434                           | 3/4 X 1/2 X 3/4 PAL TEE      | 25/500      | 1.28       |
| XPT443                           | 3/4 X 3/4 X 1/2 PAL TEE      | 25/500      | 1.14       |
| XPT445                           | 3/4 x 3/4 x 1 PAL TEE        | 25/500      | 2.85       |
| XPT444                           | 3/4 PAL TEE                  | 25/250      | 1.28       |
| XPT544                           | 1 X 3/4 x 3/4 PAL TEE        | 25/325      | 2.85       |
| XPT545                           | 1 x 3/4 x 1 PAL TEE          | 25/250      | 2.85       |
| XPT553                           | 1 X 1 X 1/2 PAL TEE          | 25/300      | 2.85       |
| XPT554                           | 1 x 1 x 3/4 PAL TEE          | 25/300      | 2.85       |
| XPT555                           | 1 PAL TEE                    | 25/200      | 3.55       |
| <b>MALE ADAPTERS</b>             |                              |             |            |
|                                  | <b>Ins x MPT</b>             |             |            |
| XPMC33                           | 1/2 PAL MPT ADAPTER          | 25/1000     | 1.16       |
| XPMC34                           | 1/2 X 3/4 PAL MPT ADAPTER    | 25/200      | 1.55       |
| XPMC44                           | 3/4 PAL MPT ADAPTER          | 25/600      | 1.55       |
| XPMC43                           | 3/4 X 1/2 PAL MPT ADAPTER    | 25/600      | 1.55       |
| XPMC55                           | 1 x 1 PAL MPT ADAPTER        | 25/300      | 2.97       |
| <b>COUPLINGS</b>                 |                              |             |            |
|                                  | <b>Ins x Ins</b>             |             |            |
| XPC32                            | 1/2 x 3/8 PAL COUPLING       | 25/1500     | 0.52       |
| XPC33                            | 1/2 PAL COUPLING             | 100/800     | 0.52       |
| XPC43                            | 3/4x1/2 PAL COUPLING         | 25/1250     | 0.84       |
| XPC44                            | 3/4 PAL COUPLING             | 50/400      | 0.76       |
| XPC55                            | 1 PAL COUPLING               | 50/600      | 1.69       |
| XPC54                            | 1X3/4 PAL COUPLING           | 25/700      | 1.69       |
| <b>ELBOWS</b>                    |                              |             |            |
|                                  | <b>Ins x Ins</b>             |             |            |
| XPE33                            | 1/2 PAL ELBOW                | 50/500      | 0.71       |
| XPE43                            | 3/4X1/2 PAL ELBOW            | 25/750      | 1.05       |
| XPE44                            | 3/4 PAL ELBOW                | 50/400      | 1.02       |
| XPE55                            | 1 PAL ELBOW                  | 25/350      | 2.94       |
| <b>MALE THREADED ELBOWS</b>      |                              |             |            |
|                                  | <b>Ins x MPT</b>             |             |            |
| XPME32                           | 1/2 X 3/8 PAL MPT ELBOW      | 10/200      | 1.25       |
| XPME33                           | 1/2 PAL MPT ELBOW            | 10/600      | 1.10       |
| XPME43                           | 3/4 X 1/2 PAL MPT ELBOW      | 25/400      | 1.82       |
| XPME44                           | 3/4 PAL MPT ELBOW            | 25/500      | 1.65       |
| <b>SWIVEL ELBOWS</b>             |                              |             |            |
|                                  | <b>Ins x FPT</b>             |             |            |
| XPSE44                           | 3/4 PAL FPT SWIVEL ELBOW     | 25/100      | 4.56       |
| <b>TRANSITION SWIVEL ADAPTER</b> |                              |             |            |
|                                  | <b>Ins x FPT</b>             |             |            |
| XPSA23                           | 3/8 X 1/2 PAL SWIVEL ADAPT   | 25          | 1.26       |
| XPSA44                           | 3/4 PAL SWIVEL ADAPT         | 100/500     | 2.21       |
| <b>PLUGS</b>                     |                              |             |            |
| CBXP2                            | 3/8 PLASTIC INSERT TEST PLUG | 100/6000    | 0.37       |
| CBXP3                            | 1/2 PLASTIC INSERT TEST PLUG | 100/3500    | 0.37       |
| CBXP4                            | 3/4 PLASTIC INSERT TEST PLUG | 25/2000     | 0.47       |
| CBXP5                            | 1 PLASTIC INSERT TEST PLUG   | 25/1000     | 0.70       |



# 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 372.



LOW LEAD



| MATERIAL SPECIFICATIONS |                 |
|-------------------------|-----------------|
| Body                    | Forged NL Brass |
| O-ring                  | 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.**

**• STANDARD AGI DISCOUNTS DO APPLY to items on this page.**



BPCNL



BPRCNL



BPMANL



BPRMANL



BPFANL



BPRFANL



BPWHK



| Part Number   | Description & Size                     | Ctn Qty       | List Price    |
|---|--|---------------|---------------|
| <b>Couplings</b>  |  |               |               |
| <b>BPC3/8NL</b>   | <b>BRS PUSH CPL NL FITXFIT 3/8x3/8</b> | <b>60/240</b> | <b>\$4.82</b> |
| BPC1/2NL  | BRS PUSH CPL NL FITXFIT 1/2x1/2        | 50/200        | 5.89          |
| BPC3/4NL  | BRS PUSH CPL NL FITXFIT 3/4x3/4        | 30/120        | 8.75          |
| BPC1NL  | BRS PUSH CPL NL FITXFIT 1X1            | 15/60         | 16.25         |
| <b>Reducing Coupling</b>  |  |               |               |
| <b>BPRC1/2X3/8NL</b>  | <b>BRS PUSH CPL NL FITXFIT 1/2X3/8</b> | <b>45/180</b> | <b>5.32</b>   |
| BPRC3/4X1/2NL   | BRS PUSH CPL NL FITXFIT 3/4X1/2        | 35/140        | 7.82          |
| BPRC1X3/4NL   | BRS PUSH CPL NL FITXFIT 1X3/4          | 20/80         | 15.18         |
| <b>Male Adapters</b>  |  |               |               |
| <b>BPMA3/8NL</b>  | <b>BRS PUSH M/A NL FITXMPT 3/8x3/8</b> | <b>60/240</b> | <b>4.29</b>   |
| BPMA1/2NL   | BRS PUSH M/A NL FITXMPT 1/2X1/2        | 60/240        | 5.57          |
| BPMA3/4NL   | BRS PUSH M/A NL FITXMPT 3/4X3/4        | 40/160        | 8.39          |
| BPMA1NL   | BRS PUSH M/A NL FITXMPT 1X1            | 20/80         | 16.25         |
| <b>Reducing Male Adapter</b>  |  |               |               |
| <b>BPRMA3/8x1/2NL</b>   | <b>BRS PUSH M/A NL FITXMT 3/8x1/2</b>  | <b>52/208</b> | <b>5.11</b>   |
| <b>BPRMA1/2X3/8NL</b>   | <b>BRS PUSH M/A NL FITXMT 1/2X3/8</b>  | <b>60/240</b> | <b>5.11</b>   |
| BPRMA1/2X3/4NL  | BRS PUSH M/A NL FITXMT 1/2X3/4         | 50/200        | 8.39          |
| BPRMA3/4X1/2NL  | BRS PUSH M/A NL FITXMT 3/4X1/2         | 40/160        | 8.39          |
| <b>Female Adapters</b>  |  |               |               |
| <b>BPFA3/8NL</b>  | <b>BRS PUSH F/A NL FITXFPT 3/8x3/8</b> | <b>60/240</b> | <b>4.43</b>   |
| BPFA1/2NL   | BRS PUSH F/A NL FITXFPT 1/2X1/2        | 60/240        | 5.71          |
| BPFA3/4NL   | BRS PUSH F/A NL FITXFPT 3/4X3/4        | 40/160        | 8.93          |
| BPFA1NL   | BRS PUSH F/A NL FITXFPT 1X1            | 20/80         | 14.54         |
| <b>Reducing Female Adapter</b>  |  |               |               |
| <b>BPRFA3/8X1/2NL</b>   | <b>BRS PUSH F/A NL FITXFPT 3/8X1/2</b> | <b>52/208</b> | <b>5.54</b>   |
| BPRFA1/2X3/4NL  | BRS PUSH F/A NL FITXFPT 1/2X3/4        | 40/160        | 8.75          |
| BPRFA3/4X1/2NL  | BRS PUSH F/A NL FITXFPT 3/4X1/2        | 40/160        | 8.75          |
| BPRFA3/4X1NL  | BRS PUSH F/A NL FITXFPT 3/4X1          | 25/100        | 13.21         |
| BPRFA1X3/4NL  | BRS PUSH F/A NL FITXFPT 1X3/4          | 25/100        | 13.21         |
| <b>Water Heater Kit (includes 2 female adapters and 1 removal tool)</b> |  |               |               |
| <b>BPWHK1/2X3/4NL</b>   | <b>BRS PUSH WTHRT FITXFPT 1/2x3/4</b>  | <b>20/160</b> | <b>18.93</b>  |
| <b>BPWHK3/4NL</b>   | <b>BRS PUSH WTHRT FITXFPT 3/4x3/4</b>  | <b>15/120</b> | <b>19.46</b>  |
| <b>BPWHK3/4X1/2NL</b>   | <b>BRS PUSH WTHRT FITXFPT 3/4x1/2</b>  | <b>15/120</b> | <b>18.93</b>  |

# NO LEAD Brass Push Fittings



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**• STANDARD AGI DISCOUNTS DO APPLY to items on this page.**



BPENL



BPRENL



BPFENL



BPMENL



BPTNL



BPRTNL



BPFTNL



BPMTNL



BPDENL



BPWPENL



BPECANL



BPSRCNL

| Part Number                 | Description & Size                            | Ctn Qty       | List Price   |
|-----------------------------|---|---------------|--------------|
| <b>Elbows</b>               |   |               |              |
| <b>BPE3/8NL</b>             | <b>BRS PUSH ELL NL FITXFIT 3/8x3/8</b>        | <b>60/240</b> | <b>6.43</b>  |
| BPE1/2NL                    | BRS PUSH ELL NL FITXFIT 1/2X1/2               | 40/160        | 8.50         |
| BPE3/4NL                    | BRS PUSH ELL NL FITXFIT 3/4X3/4               | 20/80         | 11.89        |
| BPE1NL                      | BRS PUSH ELL NL FITXFIT 1X1                   | 12/48         | 25.18        |
| <b>Reducing Elbows</b>      |   |               |              |
| <b>BPPE1/2X3/8NL</b>        | <b>BRS PUSH ELL NL FITXFIT 1/2X3/8</b>        | <b>37/148</b> | <b>7.00</b>  |
| BPPE3/4X1/2NL               | BRS PUSH ELL NL FITXFIT 3/4X1/2               | 25/100        | 11.96        |
| BPPE3/4X1NL                 | BRS PUSH ELL NL FITXFIT 3/4X1                 | 15/60         | 21.17        |
| <b>Female Elbow</b>         |   |               |              |
| <b>BPFE3/8NL</b>            | <b>BRS PUSH FEM ELBOW NL FITXFPT 3/8</b>      | <b>60/240</b> | <b>6.61</b>  |
| BPFE1/2NL                   | BRS PUSH FEM ELBOW NL FITXFPT 1/2             | 40/160        | 9.11         |
| BPFE3/4NL                   | BRS PUSH FEM ELBOW NL FITXFPT 3/4             | 20/80         | 12.82        |
| BPFE1NL                     | BRS PUSH FEM ELBOW NL FITXFPT 1               | 13/52         | 17.68        |
| <b>Male Elbow</b>           |   |               |              |
| <b>BPME3/8NL</b>            | <b>BRS PUSH MALE ELBOW NL FITXMPT 3/8x3/8</b> | <b>60/240</b> | <b>5.89</b>  |
| BPME1/2NL                   | BRS PUSH MALE ELBOW NL FITXMPT 1/2X1/2        | 40/160        | 9.11         |
| BPME3/4NL                   | BRS PUSH MALE ELBOW NL FITXMPT 3/4X3/4        | 20/80         | 13.39        |
| BPME1NL                     | BRS PUSH MALE ELBOW NL FITXMPT 1X1            | 13/52         | 19.50        |
| <b>Tees</b>                 |   |               |              |
| <b>BPT3/8NL</b>             | <b>BRS PUSH TEE NL FITXFIT 3/8x3/8x3/x</b>    | <b>45/180</b> | <b>8.36</b>  |
| BPT1/2NL                    | BRS PUSH TEE NL FITXFIT 1/2X1/2X1/2           | 30/120        | 12.54        |
| BPT3/4NL                    | BRS PUSH TEE NL FITXFIT 3/4X3/4X3/4           | 15/60         | 18.68        |
| BPT1NL                      | BRS PUSH TEE NL FITXFIT 1X1X1                 | 7/28          | 35.54        |
| <b>Reducing Tee</b>         |   |               |              |
| <b>BPRT3/8x3/8x1/2NL</b>    | <b>BRS PUSH TEE NL FITXFIT 3/8x3/8x1/2</b>    | <b>30/120</b> | <b>10.89</b> |
| <b>BPRT1/2X1/2X3/8NL</b>    | <b>BRS PUSH TEE NL FITXFIT 1/2X1/2X3/8</b>    | <b>30/120</b> | <b>11.25</b> |
| BPRT1/2X1/2X3/4NL           | BRS PUSH TEE NL FITXFIT 1/2X1/2X3/4           | 20/80         | 18.46        |
| BPRT1/2X1/2X1NL             | BRS PUSH TEE NL FITXFIT 1/2X1/2X1             | 15/60         | 23.75        |
| BPRT1/2X3/4X3/4NL           | BRS PUSH TEE NL FITXFIT 1/2X3/4X3/4           | 15/60         | 20.56        |
| BPRT3/4X1/2X1/2NL           | BRS PUSH TEE NL FITXFIT 3/4X1/2X1/2           | 20/80         | 16.25        |
| BPRT3/4X3/4X1/2NL           | BRS PUSH TEE NL FITXFIT 3/4X3/4X1/2           | 15/60         | 17.32        |
| BPRT1X1X3/4NL               | BRS PUSH TEE NL FITXFIT 1X1X3/4               | 8/32          | 29.46        |
| <b>Female Tee</b>           |   |               |              |
| BPFT1/2NL                   | BRS PUSH FEM TEE NL FITXFITFPT 1/2X1/2X1/2    | 30/120        | 14.13        |
| BPFT3/4NL                   | BRS PUSH FEM TEE NL FITXFITFPT 3/4X3/4X3/4    | 15/60         | 20.88        |
| <b>Male Tee</b>             |   |               |              |
| BPMT1/2NL                   | BRS PUSH MALE TEE NL FITXFIT 1/2X1/2X1/2      | 30/120        | 14.13        |
| BPMT3/4NL                   | BRS PUSH MALE TEE NL FITXFIT 3/4X3/4X3/4      | 15/60         | 20.88        |
| <b>Drop Elbow</b>           |   |               |              |
| BPDE1/2NL                   | BRS PUSH DROP ELBOW NL FITXFPT 1/2X1/2        | 30/120        | 11.25        |
| <b>Wall Plate Elbow</b>     |   |               |              |
| BPWPE1/2NL                  | BRS PUSH WALL PLATE EL NL FITXFPT 1/2X1/2     | 30/120        | 12.11        |
| <b>End Cap</b>              |   |               |              |
| <b>BPECA3/8NL</b>           | <b>BRS PUSH END CAP NL FIT 3/8</b>            | <b>82/328</b> | <b>2.60</b>  |
| BPECA1/2NL                  | BRS PUSH END CAP NL FIT 1/2                   | 100/400       | 3.54         |
| BPECA3/4NL                  | BRS PUSH END CAP NL FIT 3/4                   | 60/240        | 5.93         |
| BPECA1NL                    | BRS PUSH END CAP NL FIT 1                     | 30/120        | 9.82         |
| <b>Slip Repair Coupling</b> |   |               |              |
| BPSRC1/2NL                  | BRS PUSH REPAIR CPL NL FITXFIT 1/2X1/2        | 20/80         | 12.11        |
| BPSRC3/4NL                  | BRS PUSH REPAIR CPL NL FITXFIT 3/4X3/4        | 15/60         | 18.32        |
| BPSRC1NL                    | BRS PUSH REPAIR CPL NL FITXFIT 1X1            | 10/40         | 28.02        |



# 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.**

**• STANDARD AGI DISCOUNTS DO APPLY to items on this page.**



BPBVNL



BPTOOLNL



BPSTIFFNL

| Part Number              | Description & Size                     | Ctn Qty         | List Price  |
|--------------------------|--|-----------------|-------------|
| <b>Ball Valve</b>        |  |                 |             |
| BPBV1/2NL                | BRS PUSH BALL VALVE NL FITXFIT 1/2X1/2 | 10/40           | 18.90       |
| BPBV3/4NL                | BRS PUSH BALL VALVE NL FITXFIT 3/4X3/4 | 7/28            | 25.32       |
| BPBV1NL                  | BRS PUSH BALL VALVE NL FITXFIT 1X1     | 5/20            | 40.75       |
| <b>Removal Tool</b>      |  |                 |             |
| <b>BPTOOL3/8NL</b>       | <b>BRS PUSH REMOVAL TOOL NL 3/8</b>    | <b>150/600</b>  | <b>0.13</b> |
| BPTOOL1/2NL              | BRS PUSH REMOVAL TOOL NL 1/2           | 150/600         | 0.15        |
| BPTOOL3/4NL              | BRS PUSH REMOVAL TOOL NL 3/4           | 100/400         | 0.26        |
| BPTOOL1NL                | BRS PUSH REMOVAL TOOL NL 1             | 50/200          | 0.33        |
| <b>Stiffener for PEX</b> |  |                 |             |
| <b>BPSTIFF3/8NL</b>      | <b>BRS PUSH PEX STIFFENER NL 3/8</b>   | <b>400/1600</b> | <b>0.28</b> |
| BPSTIFF1/2NL             | BRS PUSH PEX STIFFENER NL 1/2          | 400/1600        | 0.28        |
| BPSTIFF3/4NL             | BRS PUSH PEX STIFFENER NL 3/4          | 200/800         | 0.40        |
| BPSTIFF1NL               | BRS PUSH PEX STIFFENER NL 1            | 150/600         | 0.56        |

