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CarbonPress[®]

By Merit Brass Co.

2024

PRODUCT CATALOG



**MERIT
BRASS**
DIRECTING THE FLOW OF *Quality*

Merit Brass Co.

One Merit Dr. • PO Box 43127
Cleveland, OH 44143

CarbonPress® is Merit Brass' solution for professionals choosing to join steel pipes through the use of press technology. **CarbonPress®** is focused on quality, safety, reliability, and ease of use.

- 1/2" — 4" including couplings, elbows, tees, adapters, coupling reducers, unions, and flange adapters.
- Extensive offering of reducing tees.
- Dual leak detection feature identify uncrimped connections:
 - » **Mechanical Leak Before Press (LBP) sealing elements.**
 - » **FIRST TO MARKET Visual Indicator Press Ring® (VIPR®)** – facilitates immediate identification of unpressed connections as well as application – green = EPDM (water), yellow = HNBR (gas) and brown = industrial.
- Compatible with most common pressing tools and jaws in the market.
- EPDM (Ethylene Propylene Diene Monomer), HNBR (Hydrogenated Nitrile Butadiene Rubber) and FKM (Fluoroelastomer) seals are factory-installed & lubricated.
- Packaged in common industry quantities.
- Box, bag and ring are color-coded to the sealing element.
- Most comprehensive package with **over 400 SKUs.**



Merit Brass reserves the right to change any portion of the information shown in this product catalog without obligation to change **CarbonPress®** products previously or subsequently sold.

See meritbrass.com for most current information.

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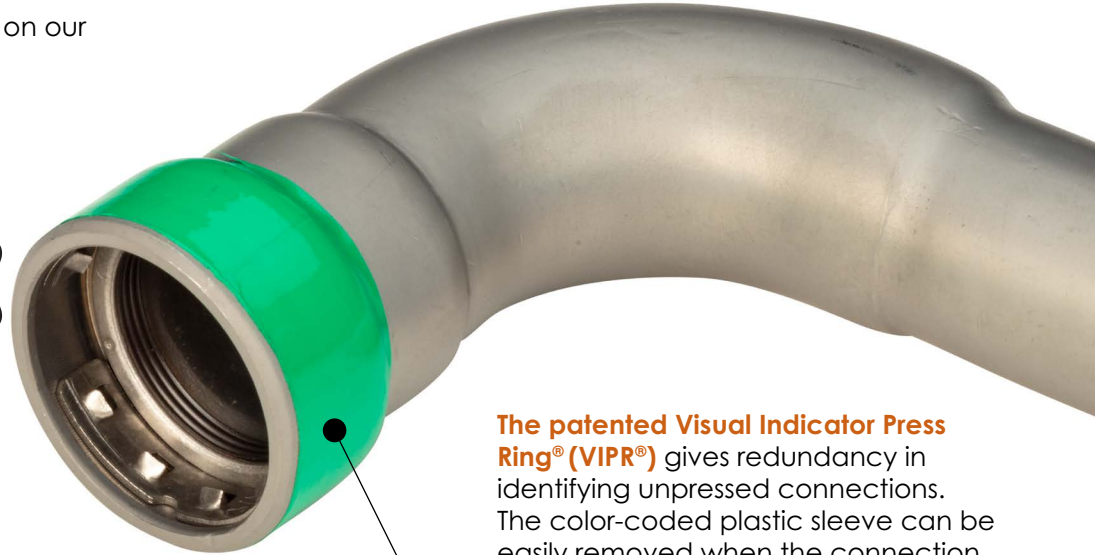
WHY CARBONPRESS® FITTINGS?

CarbonPress® is a 1/2" – 4" carbon steel press fitting system suitable for use on black iron, epoxy coated, and galvanized schedule 10 to 40 carbon steel pipe.

When pressed, a grab ring deforms and its sharp edges grip the outside diameter of the pipe, securing the fitting axially and preventing movement. At the same time an elastomeric sealing element impinges on the pipe, creating a leak tight seal. Press technology has a multi-decade history of successful use in applications including hydronic heating and fire sprinkler systems and the conveyance of fluids, gases, oils, and low pressure steam.

FEATURES & BENEFITS

15-year limited warranty on our CarbonPress® offering.

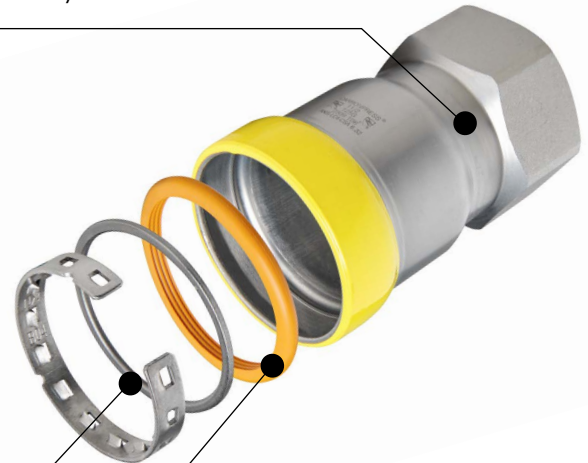


The patented **Visual Indicator Press Ring® (VIPR®)** gives redundancy in identifying unpressed connections. The color-coded plastic sleeve can be easily removed when the connection is pressed, and also indicates the sealing element material preventing costly and potentially unsafe installation errors.

Most Comprehensive Package with over 400 SKUs



Corrosion resistant Zn-Ni plating ensures years of trouble-free service.



Box, bag and ring are color-coordinated to the sealing element for ease of receipt and identification.

Grab Ring deforms and grips outside diameter of pipe

Engineered sealing elements are designed to leak before they are pressed, giving a visual indication of a connection that has not been pressed.

SYSTEM DATA

CarbonPress® Codes and Standards

- ASME B31.1 Power Piping
- ASME B31.3 Process Piping
- ASME B31.9 Building Service Piping
- CSA B149.1 Natural Gas and Propane Installation Code
- IAPMO Uniform Mechanical Code (UMC)
- IAPMO Uniform Plumbing Code (UPC)

CarbonPress® Certifications

- IAPMO Z 1117 (EPDM and FKM)
- IAPMO/ANSI LC 4/CSA 6.32 (HNBR)

CarbonPress® Temperature & Pressure

- **Surface Protection:** Corrosion Resistant Zn-Ni Plating

EPDM

- **Temperature Range:** -40°F to 300°F (-40°C to 148°C)
- **Working Pressure:** range from full vacuum to 250 psi (17.2 bar) for water

HNBR

- **Temperature Range:** -40°F to 200°F (-40°C to 93°C)
- **Working Pressure:** 125 psi (8.6 bar) for gas

FKM

- **Temperature Range:** 14°F to 293°F (-10°C to 145°C)
- **Working pressure:** 200 psi (13.7 bar) for industrial applications

Limited Warranty



We stand behind the quality of our products and offer a **15-year limited warranty*** on our CarbonPress® offering. We guarantee that our fittings will be free from defects in materials and workmanship for 15 years from the date of purchase. If any of our fittings fail due to defects during this time, we will replace or repair the product at no cost to the customer.

*This warranty does not cover damage caused by improper installation, misuse, or normal wear and tear.

TOOLING REFERENCE GUIDE

CarbonPress® Tools, Kits, Jaws and Rings

| Size | Milwaukee Part # | Tooling Name | Adapter | Ridgid Part # | Tooling Name | Adapter | Press Profile |
|------------|------------------|---|------------|---------------|--|---------------|-----------------|
| 0.5" - 2" | 2773-20 | M18 Force Logic Press Tool | | 67063 | RP 350 Press Tool | | |
| 0.5" - 1" | 49-16-2696 | M18 Black Iron Press Kit (0.5" - 1") | | 48558 | Press Jaw Kit (0.5" - 1") | | |
| 0.5" - 2" | 49-16-2697 | M18 Black Iron Press Kit (0.5" - 2") | | 48553 | Press Jaw Kit (0.5" - 2") | | |
| 2.5" - 4" | 2773-20L | M18 Force Logic Long Throw Press Tool | | 60658 | Press Booster | | |
| 0.5" | 49-16-2650B | 0.5" M18 Black Iron Press Jaw | | 37958 | 0.5" Press Jaw | | IPS - Grab Ring |
| 0.75" | 49-16-2651B | 0.75" M18 Black Iron Press Jaw | | 37963 | 0.75" Press Jaw | | IPS - Grab Ring |
| 1" | 49-16-2652B | 1" M18 Black Iron Press Jaw | | 37968 | 1" Press Jaw | | IPS - Grab Ring |
| 1.25" | 49-16-2653B | 1.25" M18 Black Iron Press Ring | 49-16-2659 | 37973 | 1.25" Press Ring | 21878 | IPS - Grab Ring |
| 1.5" | 49-16-2654B | 1.5" M18 Black Iron Press Ring | 49-16-2659 | 37978 | 1.5" Press Ring | 21878 | IPS - Grab Ring |
| 2" | 49-16-2655B | 2" M18 Black Iron Press Ring | 49-16-2659 | 37983 | 2" Press Ring | 21878 | IPS - Grab Ring |
| 2.5" | 49-16-2656B | 2.5" M18 Black Iron Press Ring | 49-16-2659 | 60643 | 2.5" Press Ring | Press Booster | IPS - Grab Ring |
| 3" | 49-16-2657B | 3" M18 Black Iron Press Ring | 49-16-2659 | 60648 | 3" Press Ring | Press Booster | IPS - Grab Ring |
| 4" | 49-16-2658B | 4" M18 Black Iron Press Ring | 49-16-2659 | 64653 | 4" Press Ring | Press Booster | IPS - Grab Ring |
| 1.25" - 2" | 49-16-2659 | Ring Jaw 1 | | 21878 | V2 Press Ring Actuator | | |
| 2.5" - 4" | 49-16-2659S | Ring Jaw 2 | | | | | |
| 2.5" - 4" | 49-16-2698 | M18 Black Iron Press Kit XL (2.5" - 4") | | 60638 | Press Booster with Press Rings (2.5" - 4") | | |

CarbonPress®, by Merit Brass Co. products can be used with Milwaukee, REMS, Ridgid, and Rothenberger tools with the associated Jaws for Carbon Steel/Black Iron Pipe. Please contact Merit Brass Co. for additional information.



CarbonPress® fittings can be pressed with Milwaukee or Ridgid tools and associated jaws/rings for carbon steel applications. Above is a table of Milwaukee and Ridgid's part numbers for your reference.


SEALING APPLICATIONS

Fitting Housing


Made from ASTM A420 Carbon Steel with a Zn-Ni plating. See below for common applications.

Working Pressure


Working Pressure Range from Full Vacuum to 250 psi (17.2 bar) Water, 125 (8.6 bar) psi Gas and 200 psi for Industrial.

| EPDM SEALING ELEMENT | |  |
|------------------------------------|---|---|
| EPDM | Ethylene-propylene-diene monomer | |
| Color | Black | |
| Temperature | -40°F to 300°F (-40°C to 148°C) | |
| Manufacturing Process | Synthetically manufactured & peroxidically cross-linked | |
| Benefits of Sealing Element | Excellent oxidation resistance | |

Details of approved applications may be found on page 6. NOT COMPATIBLE WITH HYDROCARBONS.

| HNBR SEALING ELEMENT | |  |
|------------------------------------|---|---|
| HNBR | Hydrogenated Nitrile Butadiene Rubber | |
| Color | Yellow | |
| Temperature | -40°F to 200°F (-40°C to 93°C) | |
| Manufacturing Process | Synthetically manufactured & peroxidically cross-linked | |
| Benefits of Sealing Element | Excellent resilience and tear resistance | |

Details of approved applications may be found on page 7. NOT COMPATIBLE WITH HYDROCARBONS.

| FKM SEALING ELEMENT | |  |
|------------------------------------|---|---|
| FKM | Fluoroelastomer | |
| Color | Brown | |
| Temperature | 14°F to 293°F (-10°C to 145°C) | |
| Manufacturing Process | Synthetically manufactured & peroxidically cross-linked | |
| Benefits of Sealing Element | Retains mechanical properties at elevated temperatures | |

Details of approved applications may be found on page 8. NOT COMPATIBLE WITH HYDROCARBONS.

APPROVED APPLICATIONS

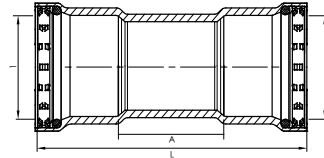
| Types Of Service | | System Operating Conditions | | | | Carbonpress® Seals | | |
|---------------------|----------------------------------|---|----------------------|----------------|----------------|--------------------|------------|------------|
| | | Notes | Pressure (EPDM/HNBR) | Pressure (FKM) | Temperature | EPDM (Water) | FKM (Ind.) | HNBR (Gas) |
| FLUIDS/ WATER | Chilled Water | Ethylene Glycol, ProPyylene Glycol | 230 psi | 200 psi | Min. -40°F | ✓ | ✓ | |
| | Fire Sprinkler | Compliant with UL & FM for NFPA 13, 13D & 13R | 175 psi | 175 psi | Ambient | ✓ | ✓ | |
| | Hydronic Heating | Ethylene Glycol, Propylene Glycol | 230 psi | 200 psi | 300°F | ✓ | ✓ | |
| | Low-Pressure System Steam | | 15 psi max. | 15 psi Max. | 300°F | ✓ | ✓ | |
| GASES | Argon | | 230 psi | 200 psi | Max. 140°F | ✓ | ✓ | ✓ |
| | Carbon Dioxide | | 230 psi | 200 psi | Max. 140°F | ✓ | ✓ | ✓ |
| | Compressed Air | Oil Concentrate <25mg/m3 | 230 psi | 200 psi | Max. 140°F | ✓ | ✓ | ✓ |
| | | Oil Concentrate >25mg/m3 | 230 psi | 200 psi | Max. 140°F | | ✓ | ✓ |
| | Natural Gas, LP Gas and Fuel Oil | | 125 psi max. | 125 psi Max. | -40°F to 180°F | | ✓ | ✓ |
| | Nitrogen | | 230 psi | 200 psi | Max. 140°F | ✓ | ✓ | ✓ |
| | Vacuum | | 29.2 in Hg max. | 29.2in Hg Max. | Max. 140°F | | ✓ | ✓ |
| OIL & LUBRICANTS | Diesel Fuel | Compliant with NFPA 30 & 30A | 125 psi | 125 psi | | | ✓ | ✓ |
| | Engine Oil | | 150 psi | 150 psi | Ambient | | ✓ | ✓ |
| | Heating Fuel Oil | | 125 psi | 125 psi | -40°F to 180°F | | ✓ | ✓ |
| | Hydraulic Fluid | Mineral Based | 230 psi | 200 psi | Ambient | | ✓ | ✓ |
| | Transmission Fluid | | 230 psi | 200 psi | Ambient | | ✓ | ✓ |

Please note that all systems are recommended to be labeled clearly with the gas or fluid that is being conveyed.

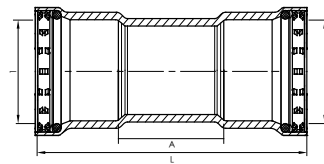
Additionally, please consult Merit's Engineering & Product Line Management Team for information on applications not listed and applications that are outside the temperature and pressure ranges listed above.

DIMENSIONAL DATA

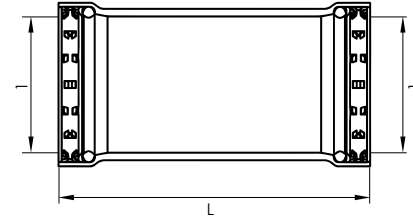
| Coupling with Stop | | | P x P | | |
|--------------------|---------|---------|----------------|--------|--------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) |
| EPDM | HNBR | FKM | | | |
| MB90000 | MB90001 | MB90002 | ½" | 0.79 | 2.83 |
| MB90005 | MB90006 | MB90007 | ¾" | 0.87 | 3.23 |
| MB90010 | MB90011 | MB90012 | 1" | 0.87 | 3.58 |
| MB90015 | MB90016 | MB90017 | 1¼" | 1.13 | 4.72 |
| MB90020 | MB90021 | MB90022 | 1½" | 1.18 | 4.88 |
| MB90025 | MB90026 | MB90027 | 2" | 1.26 | 5.12 |



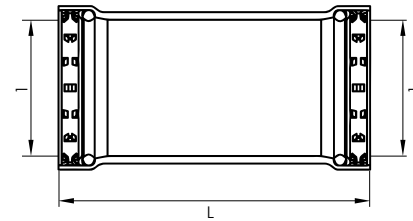
| XL Coupling with Stop | | | P x P | | |
|-----------------------|---------|---------|----------------|--------|--------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) |
| EPDM | HNBR | FKM | | | |
| MB90030 | MB90031 | MB90032 | 2½" | 1.18 | 4.92 |
| MB90035 | MB90036 | MB90037 | 3" | 1.42 | 5.98 |
| MB90040 | MB90041 | MB90042 | 4" | 1.63 | 7.87 |



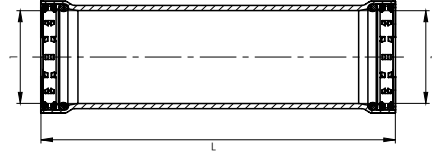
| Coupling w/o Stop | | | P x P | |
|-------------------|---------|---------|----------------|--------|
| Item Number | | | Nominal Size 1 | L (in) |
| EPDM | HNBR | FKM | | |
| MB90045 | MB90046 | MB90047 | 1/2" | 2.83 |
| MB90050 | MB90051 | MB90052 | 3/4" | 3.23 |
| MB90055 | MB90056 | MB90057 | 1" | 3.58 |
| MB90060 | MB90061 | MB90062 | 1 1/4" | 4.72 |
| MB90065 | MB90066 | MB90067 | 1 1/2" | 4.88 |
| MB90070 | MB90071 | MB90072 | 2" | 5.12 |



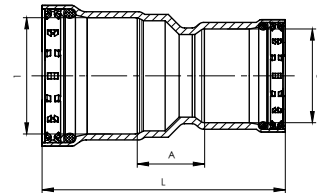
| XL Coupling w/o Stop | | | P x P | |
|----------------------|---------|---------|----------------|--------|
| Item Number | | | Nominal Size 1 | L (in) |
| EPDM | HNBR | FKM | | |
| MB90075 | MB90076 | MB90077 | 2 1/2" | 4.92 |
| MB90076 | MB90081 | MB90082 | 3" | 5.98 |
| MB90085 | MB90086 | MB90087 | 4" | 7.87 |



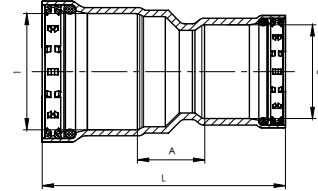
| Extended Coupling w/o Stop | | | | P x P | | |
|----------------------------|---------|---------|----------------|--------|--|--|
| Item Number | | | Nominal Size 1 | L (in) | | |
| EPDM | HNBR | FKM | | | | |
| MB90090 | MB90091 | MB90092 | 1/2" | 3.82 | | |
| MB90095 | MB90096 | MB90097 | 3/4" | 4.00 | | |
| MB90100 | MB90101 | MB90102 | 1" | 4.37 | | |
| MB90105 | MB90106 | MB90107 | 1 1/4" | 5.31 | | |
| MB90110 | MB90111 | MB90112 | 1 1/2" | 5.43 | | |
| MB90115 | MB90116 | MB90117 | 2" | 5.63 | | |



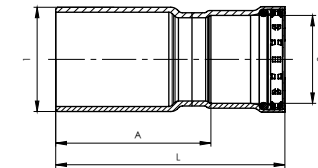
| Reducing Coupling | | | | | P x P | |
|-------------------|---------|---------|--------------|--------|--------|--------|
| Item Number | | | Nominal Size | | A (in) | L (in) |
| EPDM | HNBR | FKM | Size 1 | Size 2 | | |
| MB90120 | MB90121 | MB90122 | 3/4" | 1/2" | 0.83 | 3.03 |
| MB90125 | MB90126 | MB90127 | 1" | 1/2" | 0.96 | 3.35 |
| MB90130 | MB90131 | MB90132 | 1" | 3/4" | 0.94 | 3.48 |
| MB90135 | MB90136 | MB90058 | 1 1/4" | 3/4" | 1.32 | 4.29 |
| MB90140 | MB90141 | MB90048 | 1 1/4" | 1" | 1.04 | 4.19 |
| MB90137 | MB90139 | MB90049 | 1 1/2" | 3/4" | 1.54 | 4.57 |
| MB90142 | MB90143 | MB90144 | 1 1/2" | 1" | 1.22 | 4.43 |
| MB90145 | MB90146 | MB90152 | 1 1/2" | 1 1/4" | 1.07 | 4.72 |
| MB90147 | MB90148 | MB90153 | 2" | 1" | 1.56 | 4.84 |
| MB90150 | MB90151 | MB90154 | 2" | 1 1/4" | 1.59 | 5.31 |
| MB90155 | MB90156 | MB90157 | 2" | 1 1/2" | 1.50 | 5.28 |



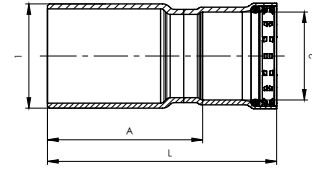
| XL Reducing Coupling | | | | | P x P | |
|----------------------|---------|---------|--------------|--------|--------|--------|
| Item Number | | | Nominal Size | | A (in) | L (in) |
| EPDM | HNBR | FKM | Size 1 | Size 2 | | |
| MB36000 | MB36002 | MB36001 | 2½" | 1" | 2.26 | 5.49 |
| MB36003 | MB36005 | MB36004 | 2½" | 1¼" | 2.16 | 5.83 |
| MB36006 | MB36008 | MB36007 | 2½" | 1½" | 2.01 | 5.73 |
| MB36009 | MB36011 | MB36010 | 2½" | 2" | 1.52 | 5.31 |
| MB36012 | MB36014 | MB36013 | 3" | 1¼" | 2.73 | 6.83 |
| MB36015 | MB36017 | MB36016 | 3" | 1½" | 2.60 | 6.75 |
| MB36018 | MB36020 | MB36019 | 3" | 2" | 2.13 | 6.36 |
| MB36021 | MB36023 | MB36022 | 3" | 2½" | 1.61 | 5.79 |
| MB36024 | MB36026 | MB36025 | 4" | 1½" | 3.58 | 8.56 |
| MB36027 | MB36029 | MB36028 | 4" | 2" | 3.09 | 8.15 |
| MB36030 | MB36032 | MB36031 | 4" | 2½" | 2.60 | 7.60 |
| MB36033 | MB36035 | MB36034 | 4" | 3" | 2.32 | 7.76 |



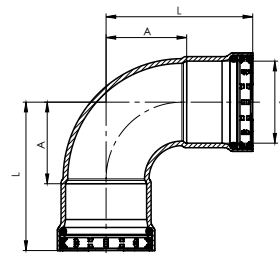
| Bushing Reducer | | | | | FTG x P | |
|-----------------|---------|---------|--------------|--------|---------|--------|
| Item Number | | | Nominal Size | | A (in) | L (in) |
| EPDM | HNBR | FKM | Size 1 | Size 2 | | |
| MB90160 | MB90161 | MB90162 | ¾" | ½" | 1.99 | 3.01 |
| MB90165 | MB90166 | MB90167 | 1" | ½" | 2.36 | 3.39 |
| MB90170 | MB90171 | MB90174 | 1" | ¾" | 2.26 | 3.44 |
| MB90172 | MB90173 | MB90177 | 1¼" | ¾" | 2.91 | 4.09 |
| MB90175 | MB90176 | MB90178 | 1¼" | 1" | 2.74 | 4.09 |
| MB90180 | MB90181 | MB90182 | 1½" | ¾" | 3.27 | 4.45 |
| MB90185 | MB90186 | MB90187 | 1½" | 1" | 2.91 | 4.27 |
| MB90190 | MB90191 | MB90192 | 1½" | 1¼" | 2.93 | 4.72 |
| MB90195 | MB90196 | MB90197 | 2" | 1" | 3.37 | 4.72 |
| MB90200 | MB90201 | MB90202 | 2" | 1¼" | 3.38 | 5.18 |
| MB90205 | MB90206 | MB90207 | 2" | 1½" | 3.31 | 5.16 |



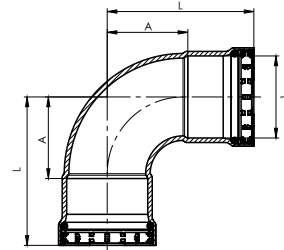
| XL Bushing Reducer | | | | | FTG x P | |
|--------------------|---------|---------|--------------|--------|---------|--------|
| Item Number | | | Nominal Size | | A (in) | L (in) |
| EPDM | HNBR | FKM | Size 1 | Size 2 | | |
| MB90210 | MB90211 | MB90212 | 2½" | 1" | 3.46 | 4.82 |
| MB90215 | MB90216 | MB90217 | 2½" | 1¼" | 3.40 | 5.20 |
| MB90220 | MB90221 | MB90222 | 2½" | 1½" | 3.33 | 5.18 |
| MB90225 | MB90226 | MB90227 | 2½" | 2" | 3.15 | 5.08 |
| MB90230 | MB90231 | MB90232 | 3" | 1¼" | 4.15 | 5.94 |
| MB90235 | MB90236 | MB90237 | 3" | 1½" | 4.09 | 5.94 |
| MB90240 | MB90241 | MB90242 | 3" | 2" | 4.29 | 6.22 |
| MB90245 | MB90246 | MB90247 | 3" | 2½" | 3.84 | 5.71 |
| MB90250 | MB90251 | MB90252 | 4" | 1½" | 5.59 | 7.44 |
| MB90255 | MB90256 | MB90257 | 4" | 2" | 5.39 | 7.36 |
| MB90260 | MB90261 | MB90262 | 4" | 2½" | 5.16 | 7.05 |
| MB90265 | MB90266 | MB90267 | 4" | 3" | 5.06 | 7.36 |



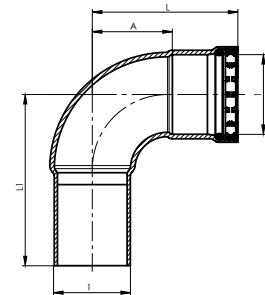
| 90° Elbow | | | | P x P | |
|-------------|---------|---------|----------------|--------|--------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) |
| EPDM | HNBR | FKM | | | |
| MB90450 | MB90451 | MB90452 | ½" | 1.56 | 2.58 |
| MB90455 | MB90456 | MB90457 | ¾" | 1.83 | 3.01 |
| MB90460 | MB90461 | MB90462 | 1" | 2.20 | 3.56 |
| MB90465 | MB90466 | MB90467 | 1¼" | 2.67 | 4.47 |
| MB90470 | MB90471 | MB90472 | 1½" | 2.93 | 4.78 |
| MB90475 | MB90476 | MB90477 | 2" | 3.66 | 5.59 |



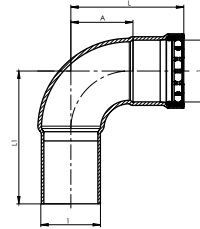
| XL 90° Elbow | | | P x P | | |
|--------------|---------|---------|----------------|--------|--------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) |
| EPDM | HNBR | FKM | | | |
| MB90480 | MB90481 | MB90482 | 2½" | 4.09 | 5.98 |
| MB90485 | MB90486 | MB90487 | 3" | 4.80 | 7.09 |
| MB90490 | MB90491 | MB90492 | 4" | 6.10 | 9.25 |



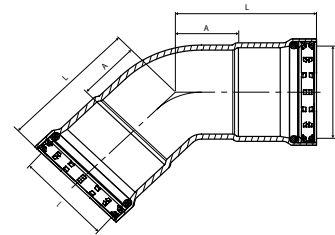
| 90° Street Elbow | | | FTG x Press | | | |
|------------------|---------|---------|----------------|--------|--------|---------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) | L1 (in) |
| EPDM | HNBR | FKM | | | | |
| MB90495 | MB90496 | MB90497 | ½" | 1.56 | 2.58 | 2.87 |
| MB90500 | MB90501 | MB90502 | ¾" | 1.83 | 3.01 | 3.27 |
| MB90505 | MB90506 | MB90507 | 1" | 2.20 | 3.56 | 3.86 |
| MB90510 | MB90511 | MB90512 | 1¼" | 2.67 | 4.47 | 4.61 |
| MB90515 | MB90516 | MB90517 | 1½" | 2.93 | 4.78 | 5.12 |
| MB90520 | MB90521 | MB90522 | 2" | 3.66 | 5.59 | 6.08 |



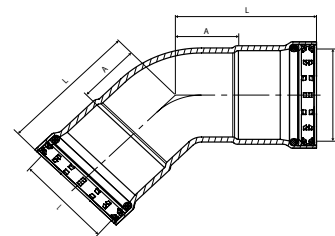
| XL 90° Street Elbow | | | FTG x Press | | | |
|---------------------|---------|---------|----------------|--------|--------|---------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) | L1 (in) |
| EPDM | HNBR | FKM | | | | |
| MB90525 | MB90526 | MB90527 | 2½" | 4.09 | 5.98 | 5.98 |
| MB90530 | MB90531 | MB90532 | 3" | 4.80 | 7.09 | 6.97 |
| MB90535 | MB90536 | MB90537 | 4" | 6.10 | 9.25 | 9.06 |



| 45° Elbow | | | P x P | | |
|-------------|---------|---------|----------------|--------|--------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) |
| EPDM | HNBR | FKM | | | |
| MB90540 | MB90541 | MB90542 | ½" | 0.87 | 1.89 |
| MB90545 | MB90546 | MB90547 | ¾" | 1.00 | 2.19 |
| MB90550 | MB90551 | MB90552 | 1" | 1.16 | 2.52 |
| MB90555 | MB90556 | MB90557 | 1¼" | 1.43 | 3.23 |
| MB90560 | MB90561 | MB90562 | 1½" | 1.54 | 3.41 |
| MB90565 | MB90566 | MB90567 | 2" | 1.87 | 3.80 |

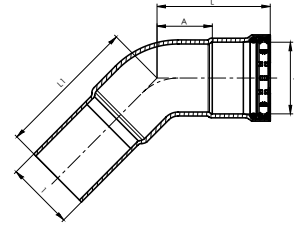


| XL 45° Elbow | | | P x P | | |
|--------------|---------|---------|----------------|--------|--------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) |
| EPDM | HNBR | FKM | | | |
| MB90570 | MB90571 | MB90572 | 2½" | 2.05 | 3.92 |
| MB90575 | MB90576 | MB90577 | 3" | 2.40 | 4.69 |
| MB90580 | MB90581 | MB90582 | 4" | 2.99 | 6.14 |



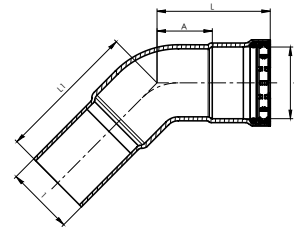
45° Street Elbow FTG x P

| Item Number | | | Nominal Size 1 | A (in) | L (in) | L1 (in) |
|-------------|---------|---------|----------------|--------|--------|---------|
| EPDM | HNBR | FKM | | | | |
| MB90585 | MB90586 | MB90587 | ½" | 0.87 | 1.89 | 2.17 |
| MB90590 | MB90591 | MB90592 | ¾" | 1.00 | 2.19 | 2.42 |
| MB90595 | MB90596 | MB90597 | 1" | 1.16 | 2.52 | 3.07 |
| MB90600 | MB90601 | MB90602 | 1¼" | 1.43 | 3.23 | 3.43 |
| MB90605 | MB90606 | MB90607 | 1½" | 1.54 | 3.41 | 3.74 |
| MB90610 | MB90611 | MB90612 | 2" | 1.87 | 3.80 | 3.94 |



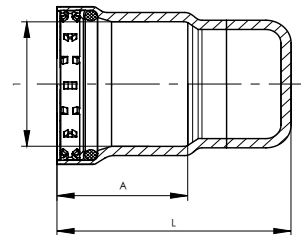
XL 45° Street Elbow FTG x P

| Item Number | | | Nominal Size 1 | A (in) | L (in) | L1 (in) |
|-------------|---------|---------|----------------|--------|--------|---------|
| EPDM | HNBR | FKM | | | | |
| MB90615 | MB90616 | MB90617 | 2½" | 2.05 | 3.92 | 4.23 |
| MB90620 | MB90621 | MB90622 | 3" | 2.40 | 4.69 | 4.57 |
| MB90625 | MB90626 | MB90627 | 4" | 2.99 | 6.14 | 5.94 |

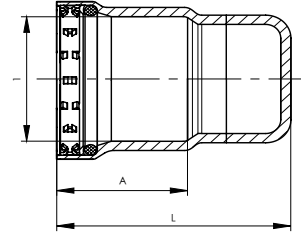


Cap P

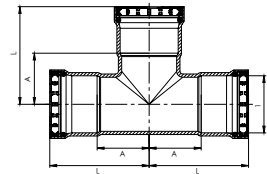
| Item Number | | | Nominal Size 1 | A (in) | L (in) |
|-------------|---------|---------|----------------|--------|--------|
| EPDM | HNBR | FKM | | | |
| MB90630 | MB90631 | MB90632 | ½" | 1.02 | 1.81 |
| MB90635 | MB90636 | MB90637 | ¾" | 1.18 | 2.01 |
| MB90640 | MB90641 | MB90642 | 1" | 1.36 | 2.19 |
| MB90645 | MB90646 | MB90647 | 1¼" | 1.80 | 2.83 |
| MB90650 | MB90651 | MB90652 | 1½" | 1.85 | 2.91 |
| MB90655 | MB90656 | MB90657 | 2" | 1.93 | 3.01 |



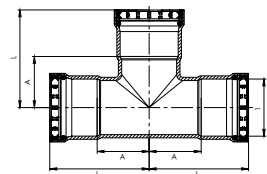
| XL Cap | | | P | | |
|-------------|---------|---------|----------------|--------|--------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) |
| EPDM | HNBR | FKM | | | |
| MB90660 | MB90661 | MB90662 | 2½" | 1.87 | 3.60 |
| MB90665 | MB90666 | MB90667 | 3" | 2.30 | 4.21 |
| MB90670 | MB90671 | MB90672 | 4" | 3.13 | 5.39 |



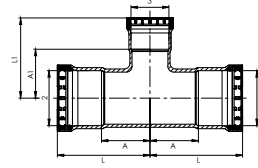
| Equal Tee | | | P x P x P | | | | |
|-------------|---------|---------|----------------|--------|---------|--------|---------|
| Item Number | | | Nominal Size 1 | A (in) | A1 (in) | L (in) | L1 (in) |
| EPDM | HNBR | FKM | | | | | |
| MB90270 | MB90271 | MB90272 | ½" | 0.89 | 0.89 | 1.91 | 1.91 |
| MB90275 | MB90276 | MB90277 | ¾" | 1.02 | 1.02 | 2.20 | 2.20 |
| MB90280 | MB90281 | MB90282 | 1" | 1.18 | 1.18 | 2.54 | 2.54 |
| MB90285 | MB90286 | MB90287 | 1¼" | 1.49 | 1.48 | 3.29 | 3.29 |
| MB90290 | MB90291 | MB90292 | 1½" | 1.61 | 1.61 | 3.46 | 3.46 |
| MB90295 | MB90296 | MB90297 | 2" | 1.93 | 1.93 | 3.86 | 3.86 |



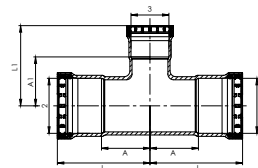
| XL Equal Tee | | | P x P x P | | | | |
|--------------|---------|---------|----------------|--------|---------|--------|---------|
| Item Number | | | Nominal Size 1 | A (in) | A1 (in) | L (in) | L1 (in) |
| EPDM | HNBR | FKM | | | | | |
| MB90395 | MB90396 | MB90397 | 2½" | 2.03 | 2.03 | 3.90 | 3.90 |
| MB90420 | MB90421 | MB90422 | 3" | 2.44 | 2.46 | 4.74 | 4.74 |
| MB90445 | MB90446 | MB90447 | 4" | 3.05 | 3.07 | 6.18 | 6.18 |



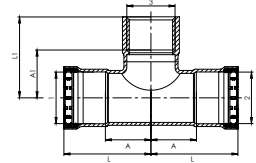
| Reducing Tee | | | | | | P x P x P | | | |
|--------------|---------|---------|--------------|--------|--------|-----------|---------|--------|---------|
| Item Number | | | Nominal Size | | | A (in) | A1 (in) | L (in) | L1 (in) |
| EPDM | HNBR | FKM | Size 1 | Size 2 | Size 3 | | | | |
| MB90300 | MB90301 | MB90302 | ¾" | ¾" | ½" | 0.98 | 0.98 | 2.20 | 2.01 |
| MB90305 | MB90306 | MB90307 | 1" | 1" | ½" | 1.14 | 1.14 | 2.54 | 2.17 |
| MB90310 | MB90311 | MB90312 | 1" | 1" | ¾" | 1.18 | 1.18 | 2.54 | 2.36 |
| MB90315 | MB90316 | MB90317 | 1¼" | 1¼" | ½" | 1.49 | 1.32 | 3.29 | 2.34 |
| MB90320 | MB90321 | MB90322 | 1¼" | 1¼" | ¾" | 1.49 | 1.36 | 3.29 | 2.54 |
| MB90325 | MB90326 | MB90327 | 1¼" | 1¼" | 1" | 1.49 | 1.36 | 3.29 | 2.72 |
| MB90330 | MB90331 | MB90332 | 1½" | 1½" | ½" | 1.61 | 1.42 | 3.46 | 2.44 |
| MB90335 | MB90336 | MB90337 | 1½" | 1½" | ¾" | 1.61 | 1.46 | 3.46 | 2.64 |
| MB90340 | MB90341 | MB90342 | 1½" | 1½" | 1" | 1.61 | 1.46 | 3.46 | 2.81 |
| MB90345 | MB90346 | MB90347 | 1½" | 1½" | 1¼" | 1.61 | 1.59 | 3.46 | 3.39 |
| MB90350 | MB90351 | MB90352 | 2" | 2" | ½" | 1.93 | 1.71 | 3.86 | 2.74 |
| MB90355 | MB90356 | MB90357 | 2" | 2" | ¾" | 1.93 | 1.75 | 3.86 | 2.93 |
| MB90360 | MB90361 | MB90362 | 2" | 2" | 1" | 1.93 | 1.75 | 3.86 | 3.11 |
| MB90365 | MB90366 | MB90367 | 2" | 2" | 1¼" | 1.93 | 1.89 | 3.86 | 3.68 |
| MB90370 | MB90371 | MB90372 | 2" | 2" | 1½" | 1.93 | 1.91 | 3.86 | 3.76 |



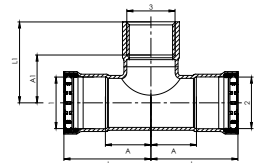
| XL Reducing Tee | | | | | | P x P x P | | | |
|-----------------|---------|---------|--------------|--------|--------|-----------|---------|--------|---------|
| Item Number | | | Nominal Size | | | A (in) | A1 (in) | L (in) | L1 (in) |
| EPDM | HNBR | FKM | Size 1 | Size 2 | Size 3 | | | | |
| MB90375 | MB90376 | MB90377 | 2½" | 2½" | 1" | 1.97 | 1.97 | 3.90 | 3.33 |
| MB90380 | MB90381 | MB90382 | 2½" | 2½" | 1¼" | 2.11 | 2.11 | 3.90 | 3.90 |
| MB90385 | MB90386 | MB90387 | 2½" | 2½" | 1½" | 2.13 | 2.13 | 3.90 | 3.98 |
| MB90390 | MB90391 | MB90392 | 2½" | 2½" | 2" | 2.13 | 2.13 | 3.90 | 4.07 |
| MB90400 | MB90401 | MB90402 | 3" | 3" | 1¼" | 2.28 | 2.28 | 4.74 | 4.15 |
| MB90405 | MB90406 | MB90407 | 3" | 3" | 1½" | 2.38 | 2.38 | 4.74 | 4.23 |
| MB90410 | MB90411 | MB90412 | 3" | 3" | 2" | 2.40 | 2.40 | 4.74 | 4.33 |
| MB90415 | MB90416 | MB90417 | 3" | 3" | 2½" | 2.28 | 2.28 | 4.74 | 4.15 |
| MB90425 | MB90426 | MB90427 | 4" | 4" | 1½" | 3.05 | 2.87 | 6.18 | 4.72 |
| MB90430 | MB90431 | MB90432 | 4" | 4" | 2" | 3.05 | 2.89 | 6.18 | 4.82 |
| MB90435 | MB90436 | MB90437 | 4" | 4" | 2½" | 3.05 | 2.78 | 6.18 | 4.65 |
| MB90440 | MB90441 | MB90442 | 4" | 4" | 3" | 3.05 | 2.95 | 6.18 | 5.24 |



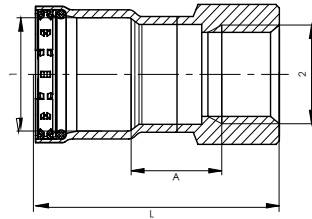
| Reducing Tee (P x FPT) | | | | | | P x P x FPT | | | |
|------------------------|---------|---------|--------------|--------|--------|-------------|---------|--------|---------|
| Item Number | | | Nominal Size | | | A (in) | A1 (in) | L (in) | L1 (in) |
| EPDM | HNBR | FKM | Size 1 | Size 2 | Size 3 | | | | |
| MB90840 | MB90841 | MB90842 | ¾" | ¾" | ½" | 1.02 | 1.18 | 2.20 | 1.85 |
| MB90843 | MB90844 | MB90845 | ¾" | ¾" | ¾" | 1.02 | 1.18 | 2.20 | 1.85 |
| MB90846 | MB90847 | MB90848 | 1" | 1" | ½" | 1.18 | 1.34 | 2.54 | 2.01 |
| MB90849 | MB90850 | MB90851 | 1" | 1" | ¾" | 1.18 | 1.34 | 2.54 | 2.01 |
| MB90852 | MB90853 | MB90854 | 1¼" | 1¼" | ½" | 1.48 | 1.52 | 3.29 | 2.19 |
| MB90855 | MB90856 | MB90857 | 1¼" | 1¼" | ¾" | 1.48 | 1.52 | 3.29 | 2.19 |
| MB90858 | MB90859 | MB90860 | 1¼" | 1¼" | 1" | 1.48 | 1.56 | 3.29 | 2.34 |
| MB90861 | MB90862 | MB90863 | 1½" | 1½" | ½" | 1.61 | 1.61 | 3.46 | 2.28 |
| MB90864 | MB90865 | MB90866 | 1½" | 1½" | ¾" | 1.61 | 1.61 | 3.46 | 2.28 |
| MB90867 | MB90868 | MB90869 | 1½" | 1½" | 1" | 1.61 | 1.65 | 3.46 | 2.44 |
| MB90870 | MB90871 | MB90872 | 1½" | 1½" | 1¼" | 1.61 | 1.57 | 3.46 | 2.54 |
| MB90873 | MB90874 | MB90875 | 2" | 2" | ½" | 1.93 | 1.91 | 3.86 | 2.58 |
| MB90876 | MB90877 | MB90878 | 2" | 2" | ¾" | 1.93 | 1.91 | 3.86 | 2.58 |
| MB90879 | MB90880 | MB90881 | 2" | 2" | 1" | 1.93 | 1.95 | 3.86 | 2.74 |
| MB90882 | MB90883 | MB90884 | 2" | 2" | 1¼" | 1.93 | 1.87 | 3.86 | 2.83 |
| MB90885 | MB90886 | MB90887 | 2" | 2" | 1½" | 1.93 | 1.95 | 3.86 | 2.93 |



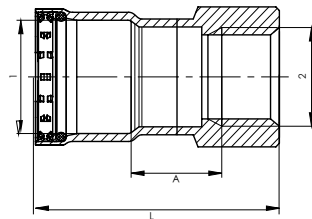
| XL Reducing Tee (P x FPT) | | | | | | P x P x FPT | | | |
|---------------------------|---------|---------|--------------|--------|--------|-------------|---------|--------|---------|
| Item Number | | | Nominal Size | | | A (in) | A1 (in) | L (in) | L1 (in) |
| EPDM | HNBR | FKM | Size 1 | Size 2 | Size 3 | | | | |
| MB90888 | MB90889 | MB90890 | 2½" | 2½" | ¾" | 1.28 | 2.13 | 3.15 | 2.80 |
| MB36036 | MB36038 | MB36037 | 2½" | 2½" | 1" | 1.28 | 2.17 | 3.15 | 2.95 |
| MB90891 | MB90892 | MB90893 | 3" | 3" | ¾" | 1.44 | 2.38 | 3.74 | 3.05 |
| MB36039 | MB36041 | MB36040 | 3" | 3" | 1" | 1.44 | 2.42 | 3.74 | 3.21 |
| MB90894 | MB90895 | MB90896 | 4" | 4" | ¾" | 1.59 | 2.87 | 4.72 | 3.54 |
| MB36042 | MB36044 | MB36043 | 4" | 4" | 1" | 1.59 | 2.91 | 4.72 | 3.70 |



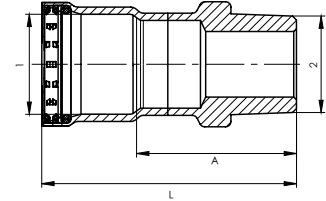
| Female Adapter | | | | | | P x FPT | |
|----------------|---------|---------|--------------|--------|--------|---------|--|
| Item Number | | | Nominal Size | | A (in) | L (in) | |
| EPDM | HNBR | FKM | Size 1 | Size 2 | | | |
| MB90720 | MB90721 | MB90722 | 1/2" | 1/2" | 0.83 | 2.52 | |
| MB90725 | MB90726 | MB90737 | 3/4" | 1/2" | 0.98 | 2.83 | |
| MB90730 | MB90731 | MB90727 | 3/4" | 3/4" | 0.87 | 2.72 | |
| MB90735 | MB90736 | MB90747 | 1" | 1/2" | 1.46 | 3.48 | |
| MB90740 | MB90741 | MB90738 | 1" | 3/4" | 1.08 | 3.11 | |
| MB90745 | MB90746 | MB90742 | 1" | 1" | 0.91 | 3.05 | |
| MB90750 | MB90751 | MB90767 | 1 1/4" | 1/2" | 1.67 | 4.13 | |
| MB90755 | MB90756 | MB90752 | 1 1/4" | 3/4" | 1.67 | 4.13 | |
| MB90760 | MB90761 | MB90757 | 1 1/4" | 1" | 1.16 | 3.76 | |
| MB90765 | MB90766 | MB90762 | 1 1/4" | 1 1/4" | 1.06 | 3.72 | |
| MB90770 | MB90771 | MB90792 | 1 1/2" | 1/2" | 1.69 | 4.21 | |
| MB90775 | MB90776 | MB90772 | 1 1/2" | 3/4" | 1.69 | 4.21 | |
| MB90780 | MB90781 | MB90777 | 1 1/2" | 1" | 1.73 | 4.37 | |
| MB90785 | MB90786 | MB90782 | 1 1/2" | 1 1/4" | 1.18 | 3.90 | |
| MB90790 | MB90791 | MB90787 | 1 1/2" | 1 1/2" | 1.06 | 3.90 | |
| MB90795 | MB90796 | MB90822 | 2" | 1/2" | 1.71 | 4.31 | |
| MB90800 | MB90801 | MB90797 | 2" | 3/4" | 1.71 | 4.31 | |
| MB90805 | MB90806 | MB90802 | 2" | 1" | 1.75 | 4.47 | |
| MB90810 | MB90811 | MB90807 | 2" | 1 1/4" | 1.77 | 4.57 | |
| MB90815 | MB90816 | MB90812 | 2" | 1 1/2" | 1.46 | 4.37 | |
| MB90820 | MB90821 | MB90817 | 2" | 2" | 1.20 | 4.15 | |



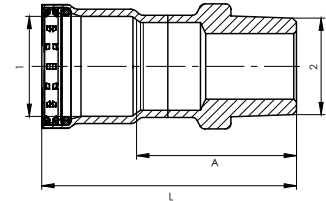
| XL Female Adapter | | | | | | P x FPT | |
|-------------------|---------|---------|--------------|--------|--------|---------|--|
| Item Number | | | Nominal Size | | A (in) | L (in) | |
| EPDM | HNBR | FKM | Size 1 | Size 2 | | | |
| MB90825 | MB90826 | MB90827 | 2 1/2" | 2 1/2" | 1.06 | 4.00 | |
| MB90830 | MB90831 | MB90832 | 3" | 3" | 1.20 | 4.65 | |
| MB90835 | MB90836 | MB90837 | 4" | 4" | 1.32 | 5.71 | |



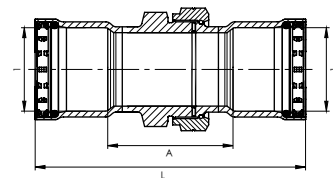
| Male Adapter | | | P x MPT | | | |
|--------------|---------|---------|--------------|--------|--------|--------|
| Item Number | | | Nominal Size | | A (in) | L (in) |
| EPDM | HNBR | FKM | Size 1 | Size 2 | | |
| MB90675 | MB90676 | MB90677 | ½" | ½" | 1.65 | 2.68 |
| MB90680 | MB90681 | MB90682 | ¾" | ¾" | 1.69 | 2.87 |
| MB90685 | MB90686 | MB90687 | 1" | 1" | 1.73 | 3.09 |
| MB90690 | MB90691 | MB90692 | 1¼" | 1¼" | 2.06 | 3.86 |
| MB90695 | MB90696 | MB90697 | 1½" | 1½" | 2.24 | 4.09 |
| MB90700 | MB90701 | MB90702 | 2" | 2" | 2.40 | 4.33 |



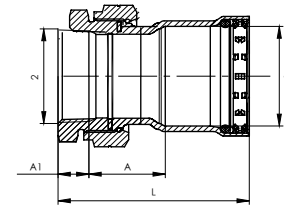
| XL Male Adapter | | | P x MPT | | | |
|-----------------|---------|---------|--------------|--------|--------|--------|
| Item Number | | | Nominal Size | | A (in) | L (in) |
| EPDM | HNBR | FKM | Size 1 | Size 2 | | |
| MB90705 | MB90706 | MB90707 | 2½" | 2½" | 2.66 | 4.53 |
| MB90710 | MB90711 | MB90712 | 3" | 3" | 2.93 | 5.24 |
| MB90715 | MB90716 | MB90717 | 4" | 4" | 3.13 | 6.26 |



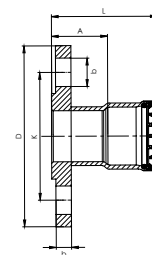
| Union | | | P x P | | |
|-------------|---------|---------|----------------|--------|--------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) |
| EPDM | HNBR | FKM | | | |
| MB90897 | MB90919 | MB90920 | ½" | 2.83 | 4.88 |
| MB90900 | MB90922 | MB90923 | ¾" | 3.19 | 5.55 |
| MB90903 | MB90925 | MB90926 | 1" | 3.50 | 6.22 |
| MB90909 | MB90928 | MB90929 | 1¼" | 4.08 | 7.68 |
| MB90912 | MB90931 | MB90932 | 1½" | 4.13 | 7.83 |
| MB90915 | MB90934 | MB90935 | 2" | 4.92 | 8.78 |



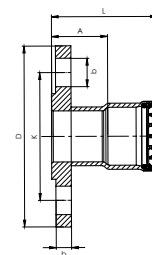
| Female Union | | | P x FPT | | | | |
|--------------|---------|---------|--------------|--------|--------|---------|--------|
| Item Number | | | Nominal Size | | A (in) | A1 (in) | L (in) |
| EPDM | HNBR | FKM | Size 1 | Size 2 | | | |
| MB90936 | MB90955 | MB90956 | ½" | ½" | 1.50 | 0.71 | 3.23 |
| MB90939 | MB90958 | MB90959 | ¾" | ¾" | 1.63 | 0.81 | 3.62 |
| MB90942 | MB90961 | MB90962 | 1" | 1" | 1.79 | 0.87 | 4.02 |
| MB90945 | MB90964 | MB90965 | 1¼" | 1¼" | 2.06 | 1.06 | 4.92 |
| MB90948 | MB90967 | MB90968 | 1½" | 1½" | 2.09 | 1.06 | 5.00 |
| MB90951 | MB90970 | MB90971 | 2" | 2" | 2.68 | 1.18 | 5.79 |



| Flange Adapter | | | P x Flange | | | | | | |
|----------------|---------|---------|----------------|--------|--------|--------|--------|--------|--------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) | b (in) | K (in) | D (in) | d (in) |
| EPDM | HNBR | FKM | | | | | | | |
| MB90972 | MB90973 | MB90974 | ½" | 1.23 | 2.25 | 0.46 | 2.36 | 3.54 | 0.63 |
| MB90975 | MB90976 | MB90977 | ¾" | 1.43 | 2.61 | 0.52 | 2.76 | 3.94 | 0.63 |
| MB90978 | MB90979 | MB90980 | 1" | 1.60 | 2.96 | 0.58 | 3.11 | 4.33 | 0.63 |
| MB90981 | MB90982 | MB90983 | 1¼" | 1.08 | 2.88 | 0.64 | 3.50 | 4.53 | 0.63 |
| MB90984 | MB90985 | MB90986 | 1½" | 1.17 | 3.02 | 0.70 | 3.86 | 4.92 | 0.63 |
| MB90987 | MB90988 | MB90989 | 2" | 1.26 | 3.19 | 0.77 | 4.76 | 5.91 | 0.75 |



| XL Flange Adapter | | | P x Flange | | | | | | |
|-------------------|---------|---------|----------------|--------|--------|--------|--------|--------|--------|
| Item Number | | | Nominal Size 1 | A (in) | L (in) | b (in) | K (in) | D (in) | d (in) |
| EPDM | HNBR | FKM | | | | | | | |
| MB90990 | MB90991 | MB90992 | 2½" | 1.24 | 3.12 | 0.81 | 5.51 | 7.01 | 0.75 |
| MB90993 | MB90994 | MB90995 | 3" | 1.50 | 3.78 | 0.88 | 6.00 | 7.48 | 0.75 |
| MB90996 | MB90997 | MB90998 | 4" | 1.61 | 4.72 | 0.88 | 7.50 | 9.02 | 0.75 |



INSTALLATION INSTRUCTIONS

Small Diameter (SD)

WARNING: CarbonPress® fittings must be installed in accordance with this section. Always ensure that the pressing tool and its jaws are appropriate for the schedule of pipe and size of fitting. Always refer to the pressing tool manufacturer's instructions for operation and maintenance prior to use with CarbonPress® fittings. Always wear PPE such as a hardhat, gloves, and safety glasses when making press connections. Failure to follow these instructions may void the warranty and result in extensive property damage, serious injury or death.

1. Cut pipe

After selecting the correct size of pipe for the job, ensure that it is clean and free from imperfections. Once inspected, cut the pipe squarely to length using a pipe cutter, fine-toothed steel saw or an electrical mechanical saw to avoid jagged edges or scratching the pipe's surface. When cutting pipe, it must be cut all the way through. Never partially cut the pipe and break it off as it could cause leakage.



2. Deburr pipe

After the pipe is cut to length, deburr the inside and outside with a file, hand deburrer and an electrical pipe deburrer to remove debris and prevent damage to the sealing element. Once the pipe has been deburred, lightly clean the end of the pipe with a piece of sand cloth or similar material to ensure a smooth, and oil-free surface.



3. Check press fittings

In addition to checking the pipe for any imperfections, check the fitting to ensure that it is free of debris, burrs, etc., and that the sealing element is present and appropriate for the application. If the sealing element is lifted from its bead pocket, gently push it back into place being sure to not transfer dirt or debris to the sealing surface. When checking the seal for the correct fit, do not use oil and lubricants.

4. Measure & mark pipe

With a permanent marker, mark the proper insertion depth at the appropriate

distance from the end of the pipe as indicated in the CarbonPress® Insertion Depth Chart.

| CarbonPress™ Insertion Depth Chart | | | | | |
|------------------------------------|-------|-------|--------|--------|----|
| Nominal Pipe Size | | | | | |
| 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
| Insertion Depth | | | | | |
| 1.06" | 1.19" | 1.38" | 1.81" | 1.88" | 2" |



NOTE: improper insertion depth may result in an improper seal.

5. Insert pipe into fitting

Carefully insert the pipe into the fitting to the prescribed insertion depth. The insertion depth mark must be visible after the pipe is inserted into the fitting to identify any



movement that may occur before or after the pressing. In the instance that a fitting does not have a stop, the fitting must be centered between the pipe ends, however, the minimum pipe insertion depth must be maintained and marked.

NOTE: if the pipe is roughly or carelessly inserted into the press fitting, it may cause damage to the sealing element.

6. Verify tool & jaw

Verify that the tool and jaw being used for the application are the appropriate size for the fitting using an approved press tool from the **CarbonPress® Tooling Table**.



NOTE: failure to follow these instructions may void the warranty.

7. Position tool

Ensure jaw pressing surfaces are free from debris. Once inspected, insert the approved jaw into the pressing tool and push in, hold the pin until it locks in place.



8. Press connection

To begin the pressing process, position the tool jaws on the raised portion at the fitting end(s) then squeeze until the trigger has engaged the sealing element or VIPR® (Visual Indicator Press Ring®). The press tool will complete a cycle then stop. Do not release the trigger until the pressing action is complete.



An incomplete press may reduce the pressure retention capabilities of the joint and lead to subsequent system leakage.

9. Remove tool & Inspect press connection

Once the tool has completed a full pressing cycle, release the trigger, and remove the jaw from the fitting. Once the jaw is removed from the fitting, the VIPR® will break off, indicating a complete press.



NOTE: if the VIPR® does not instantly break off, simply remove by hand.

Leak testing

Unpressed connections can be identified prior to pressurization by the presence of the VIPR® on the bead outer diameter. The **CarbonPress®** sealing element is designed to physically leak while unpressed when the system is pressurized with air (45 psi max) or water (85 psi max) or per local codes, giving redundant assurance of installation integrity.

INSTALLATION INSTRUCTIONS

Large Diameter (XL)

WARNING: CarbonPress® fittings must be installed in accordance with this section. Always ensure that the pressing tool and its jaws are appropriate for the schedule of pipe and size of fitting. Always refer to the pressing tool manufacturer's instructions for operation and maintenance prior to use with CarbonPress® fittings. Always wear PPE such as a hardhat, gloves, and safety glasses when making press connections. Failure to follow these instructions may void the warranty and result in extensive property damage, serious injury or death.

1. Cut pipe

After selecting the correct size of pipe for the job, ensure that it is clean and free from imperfections. Once inspected, cut the pipe squarely to length using a pipe cutter, fine-toothed steel saw or an electrical mechanical saw to avoid jagged edges or scratching the pipe's surface. When cutting pipe, it must be cut all the way through. Never partially cut the pipe and break it off as it could cause leakage.



2. Deburr pipe

After the pipe is cut to length, deburr the inside and outside with a file, hand deburrer and an electrical pipe deburrer to remove debris and prevent damage to the sealing element. Once the pipe has been deburred, lightly clean the end of the pipe with a piece of sand cloth or similar material to ensure a smooth, and oil-free surface.



3. Check press fittings

In addition to checking the pipe for any imperfections, check the fitting to ensure that it is free of debris, burrs, etc., and that the sealing element is present and appropriate for the application. If the sealing element is lifted from its bead pocket, gently push it back into place being sure to not transfer dirt or debris to the sealing surface. When checking the seal for the correct fit, do not use oil and lubricants.

4. Measure & mark pipe

With a permanent marker, mark the proper insertion depth at the appropriate



distance from the end of the pipe as indicated in the CarbonPress® Insertion Depth Chart.

| CarbonPress® Insertion Depth Chart | | |
|------------------------------------|-------|-------|
| Nominal Pipe Size | | |
| 2-1/5" | 3" | 4" |
| Insertion Depth Size | | |
| 1.89" | 2.32" | 3.15" |

NOTE: improper insertion depth may result in an improper seal.

5. Insert pipe into fitting

Carefully insert the pipe into the fitting to the prescribed insertion depth. The insertion depth mark must be visible after the pipe is inserted into the fitting to identify any movement that may occur before or after the pressing. In the instance that a fitting does not have a stop, the fitting must be centered between the pipe ends, however, the minimum pipe insertion depth must be maintained and marked.



NOTE: if the pipe is roughly or carelessly inserted into the press fitting, it may cause damage to the sealing element.

6. Verify tool, ring & jaw
Verify that the tool, ring and jaw being used for the application are the appropriate size for the fitting using an approved press tool from the **CarbonPress® Tooling Table**.



NOTE: failure to follow these instructions may void the warranty.

7. Position tool
Ensure jaw pressing surfaces are free from debris. Once inspected, insert the approved jaw into the pressing tool and push in, hold the pin until it locks in place. Open the jaw on the press tool and close on the appropriate location on the ring. Next, open the ring and visually check the insertion depth using the mark on the tubing. Place the press ring onto the fitting, being sure to align it with the raised, grip ring, portion of the fitting.



8. Press connection
To begin the pressing process, position the tool rings on the raised portion at the fitting end(s) then squeeze until the trigger has engaged the sealing element. The press tool will complete a cycle then stop. Do not release the trigger until the pressing action is complete. An incomplete press may reduce the pressure retention capabilities of the joint and lead to subsequent system leakage.



9. Remove tool & Inspect press connection
Once the tool has completed a full pressing cycle, release the trigger, and remove the jaw from the fitting. Once the jaw is removed from the fitting, the VIPR® will break off, indicating a complete press.



NOTE: if the VIPR® does not instantly break off, simply remove by hand.

Leak testing

Unpressed connections can be identified prior to pressurization by the presence of the VIPR® on the bead outer diameter. The **CarbonPress®** sealing element is designed to physically leak while unpressed when the system is pressurized with air (45 psi max) or water (85 psi max) or per local codes, giving redundant assurance of installation integrity.

LIMITED WARRANTY

CarbonPress®
By Merit Brass Co.

CopperPress®
By Merit Brass Co.

StainlessPress®
Isotubi-USA, By Merit Brass Co.

MeritPress™
By Merit Brass Co.

LIMITED WARRANTY FOR COPPERPRESS® FITTINGS, COPPERPRESS® VALVES, CARBONPRESS® FITTINGS AND STAINLESSPRESS® FITTINGS AND STAINLESSPRESS® VALVES.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

THE LIMITED WARRANTY CAN ALSO BE FOUND ONLINE AT WWW.MERITBRASS.COM/WARRANTY-POLICY AND/OR IN THE DOCUMENTATION WE PROVIDE WITH THE APPLICABLE PRODUCT.

WE WARRANT THAT DURING THE WARRANTY PERIOD, THE PRODUCT WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP AS DESCRIBED IN OUR LITERATURE.

WE LIMIT THE DURATION AND REMEDIES OF ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

OUR RESPONSIBILITY FOR DEFECTIVE GOODS IS LIMITED TO REPAIR, OR REPLACEMENT AS DESCRIBED BELOW IN THIS WARRANTY STATEMENT.

Who may use this warranty?

Merit Brass Company located at One Merit Drive, PO Box 43127 Cleveland, OH 44143 ("we") extend this limited warranty only to the consumer who originally purchased the applicable product ("you"). It does not extend to any subsequent owner or other transferee of the product.

What does this warranty cover?

This limited warranty covers defects in materials and workmanship of the: (i) CopperPress® fittings, (ii) the press valves, (iii) the Carbonpress® fittings, and (iv) the Stainlesspress® fittings exclusive of all marine applications and chemical compatibility must be verified via Merit's literature or confirmed by its Technical Department prior to installation (the "product") for the Warranty Period as defined below.

What does this warranty not cover?

This limited warranty does not cover any damage due to: (a) transportation; (b) storage; (c) improper use; (d) failure to follow the product instructions or to perform any preventive maintenance; (e) modifications; (f) unauthorized repair;

(g) normal wear and tear; or (h) external causes such as accidents, abuse, or other actions or events beyond our reasonable control.

What is the period of coverage?

This limited warranty starts on the date of your purchase and lasts for: (i) fifty (50) years for **CopperPress®** fittings, (ii) fifteen (15) years for the **Carbonpress®** fittings and the **Stainlesspress®** fittings, and (iii) five (5) years for the press valves (collectively the "**Warranty Period**"). The Warranty Period is not extended if we repair or replace the product. We may change the availability of this limited warranty at our discretion, but any changes will not be retroactive.

What are your remedies under this warranty?

With respect to any defective product during the applicable Warranty Period, we will, in our sole discretion repair or replace such product (or the defective part) free of charge. We will also pay for shipping and handling fees to return the repaired or replacement product to you.

How do you obtain warranty service?

To obtain warranty service, you must call 1-800-726-9800 or email our Warranty Claims Department at returns@meritbrass.com during the applicable Warranty Period to obtain a Return Material Authorization ("RMA") number. No warranty service will be provided without an RMA number. Upon receipt of the RMA, and at your expense, products suspected of being defective shall be returned to Merit's Warranty Claims Department at One Merit Drive, Cleveland, OH 44143. Within about six weeks of receipt, Merit will determine the cause of failure and notify the purchaser of our findings.

Limitation of liability

THE REMEDIES DESCRIBED ABOVE ARE YOUR SOLE AND EXCLUSIVE REMEDIES AND OUR ENTIRE LIABILITY FOR ANY BREACH OF THIS LIMITED WARRANTY. OUR LIABILITY SHALL UNDER NO CIRCUMSTANCES EXCEED THE ACTUAL AMOUNT PAID BY YOU FOR THE DEFECTIVE PRODUCT, NOR SHALL WE UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES OR LOSSES, WHETHER DIRECT OR INDIRECT AND/OR WHETHER CAUSED BY WATER, MOLD, LOSS OF EQUIPMENT, PROPERTY, REVENUE OR COST OF CAPITAL.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

NOTES

CarbonPress®
By Merit Brass Co.

CopperPress®
By Merit Brass Co.

StainlessPress®
Isotubi-USA, By Merit Brass Co.

MeritPress™
By Merit Brass Co.



LOCATIONS

SPARKS DISTRIBUTION CENTER

200 Vista Boulevard Suite #106
Sparks, NV 89434

LONG BEACH PIPE DEPOT

2396 E. Artesia Blvd
Long Beach, CA 90805

DALLAS DISTRIBUTION CENTER

10614 King William Drive
Dallas, TX 75220

CLEVELAND HEADQUARTERS

One Merit Drive/PO Box 43127
Cleveland, OH 44143

BIRMINGHAM DISTRIBUTION CENTER

220 Oxmoor Court
Birmingham, AL 35209

HOUSTON DISTRIBUTION CENTER

4680 S. Sam Houston Pkwy W, Suite 120
Houston, TX 77053

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