



# SUBMITTAL PACKAGE





Merit Brass Co.

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# **TABLE OF CONTENTS**

Technical Data	XL 90° Elbow	26
Sealing Applications 4	90° Street Elbow	27
Fitting Housing 4	XL 90° Street Elbow	28
Working Pressure4	45° Elbow	29
Approved Applications5	XL 45° Elbow	30
Certifications 6	45° Street Elbow	31
System Data Sheet7	XL 45° Street Elbow	32
EPDM System Data Sheet7	Cap	33
HNBR System Data Sheet8	XL Cap	34
FKM System Data Sheet9	Equal Tee	35
Features & Benefits 10	XL Equal Tee	36
SD Installation Instructions 11	Reducing Tee	37
XL Installation Instructions	XL Reducing Tee	38
Tooling Reference Guide 15	Reducing Tee (P x FPT)	39
Submittal Sheets 16	XL Reducing Tee (P x FPT)	40
Coupling with Stop	Female Adapter	41
XL Coupling with Stop17	XL Female Adapter	42
Coupling w/o Stop 18	Male Adapter	43
XL Coupling w/o Stop19	XL Male Adapter	44
Extended Coupling w/o Stop 20	Union	45
Reducing Coupling21	Female Union	46
XL Reducing Coupling22	Flange Adapter	47
Bushing Reducer23	XL Flange Adapter	48
XL Bushing Reducer24	Limited Warranty	49
90° Flbow	Notes	50



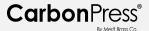
# **TECHNICAL DATA**

Merit's **CarbonPress®** Fittings offer the most comprehensive carbon press offering with over 400 SKUs. In addition, CarbonPress® has an innovative VIPR® (Visual Indicator Press Ring®) band to save time and money in project installations. Our fittings are available in sizes ½" through 4". This system is suitable for use on steel pipes conforming to ASTM A53, A106, A135, A795 (schedule 10 or 40). There are several pressing tools that can be used with the **CarbonPress®** system, see Tooling Reference Guide on page 15. **CarbonPress®** fittings offer several end connections: press x press, press x male and press x female to allow for connectivity in a threaded piping system. Conversion to flanged systems can be made with ANSI Class 125/150 Flange Adapters. Where breaks in pipe work may be needed, the Union Coupling can be used for quick and easy connections/disconnections.

Merit's installation instructions for our **CarbonPress®** Fittings include several steps (see page 11). These steps include: cutting and deburring the pipe, checking the press fitting, marking and inserting the pipe into the fitting, confirming your tool & jaw, positioning your tool and forming the press connection with the fitting & pipe together to form a pipe joint using one of the pressing tools (see page 15) identified in the installation instructions (see page 11).

CarbonPress® fittings are a solution that saves you time, money and allows you to quickly install a piping system across several applications. Typical Applications for CarbonPress® include: hydronic heating, low pressure steam and conveyances of fluids, gases and liquids (see page 5 for Approved Application details). These fittings are made from a highly corrosion resistant Zn-Ni plating and are specified to ASTM A420 which ensures years of trouble-free service. In addition, CarbonPress® fittings are available with a variety of sealing elements, making them suitable for use in numerous applications such as HVAC, plumbing, municipal, and industrial installations. CarbonPress® fittings also incorporate a unique sealing element design that provides an important Leak-Before-Press feature. When the fitting and pipe are pressed together, they deform to create a durable permanent pipe joint, while the sealing element compresses to make the joint leak-proof. An unpressed fitting allows a leak path for liquids and gases, thereby enabling an installer to identify the unpressed fittings easily. The Leak-Before-Press feature significantly reduces the chance of unpressed joints, helping to ensure a leak-free system. Learn more about the benefits and features on page 10.

Project information	Approval stamp	Application		
Project:	Approved	Argon	Hydraulic Fluid	
Address:	Approved As Noted	Carbon Dioxide	Hydronic Heating	
	Not Approved	Chilled Water	Low-Pressure Steam	
Contractor:	Remarks:	Compressed Air – Oil Concentrate <25	Natural Gas, LP Gas & Fuel Oil	
Engineer:		Compressed Air – Oil Concentrate >25	Nitrogen	
Submittal Date:		Diesel Fuel	Transmission Fluid	
Notes 1:		Engine Oil	Vacuum	
Notes 2:		Heating Fuel Oil	Other	



# **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 psi (8.6 bar) Gas, 200 psi (13.7 bar) for Industrial applications.

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				

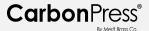


# **APPROVED APPLICATIONS**

		System Operating Conditions				Carbonpress® Seals		
Туре	s Of Service	Notes	Pressure (EPDM/HNBR)	Pressure (FKM)	Temperature	EPDM (Water)	FKM (Ind.)	HNBR (Gas)
	Chilled Water	Ethylene Glycol, ProPylene Glycol	230 psi	200 psi	Min40°F	<	<b>&gt;</b>	
FLUIDS/	Fire Sprinkler	Compliant with UL & FM for NFPA 13, 13D & 13R	175 psi	175 psi	Ambient	<b>✓</b>	<b>✓</b>	
WATER	Hydronic Heating	Ethylene Glycol, Propylene Glycol	230 psi	200 psi	300°F	<b>~</b>	<b>&gt;</b>	
	Low-Pressure System Steam		15 psi max.	15 psi Max.	300°F	<b>✓</b>	>	
	Argon		230 psi	200 psi	Max. 140°F	<b>~</b>	<b>&gt;</b>	<b>✓</b>
	Carbon Dioxide		230 psi	200 psi	Max. 140°F	<b>✓</b>	<b>✓</b>	<b>✓</b>
	Caranaga al Air	Oil Concentrate <25mg/m3	230 psi	200 psi	Max. 140°F	<b>✓</b>	<b>~</b>	<b>✓</b>
GASES	Compressed Air	Oil Concentrate >25mg/m3	230 psi	200 psi	Max. 140°F		<b>✓</b>	<b>✓</b>
	Natural Gas, LP Gas and Fuel Oil		125 psi max.	125 psi Max.	-40°F to 180°F		<b>&gt;</b>	<b>~</b>
	Nitrogen		230 psi	200 psi	Max. 140°F	<b>~</b>	<b>&gt;</b>	<b>✓</b>
	Vacuum		29.2 in Hg max.	29.2in Hg Max.	Max. 140°F		<b>✓</b>	<b>✓</b>
	Diesel Fuel	Compliant with NFPA 30 & 30A	125 psi	125 psi			<b>✓</b>	<b>✓</b>
OIL & LUBRICANTS	Engine Oil		150 psi	150 psi	Ambient		<b>&gt;</b>	<b>✓</b>
	Heating Fuel Oil		125 psi	125 psi	-40°F to 180°F		<b>&gt;</b>	<b>✓</b>
	Hydraulic Fluid	Mineral Based	230 psi	200 psi	Ambient		>	<b>✓</b>
	Transmission Fluid		230 psi	200 psi	Ambient		<b>&gt;</b>	<b>✓</b>

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.



# **CERTIFICATIONS**

#### 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

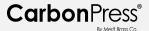
- Temperature Range: 14°F to 293°F (-10°C to 145°C)
- Working pressure: 200 psi (13.7 bar) for industrial applications

#### **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.



# **EPDM SYSTEM DATA SHEET**

The Merit **CarbonPress®** system is available in  $\frac{1}{2}$ " – 4". This system joins black iron, epoxy coated, and galvanized schedule 10 to 40 carbon steel pipe. **CarbonPress®** is available in three sealing elements: EPDM, HNBR and FKM. Our first to market VIPR® technology provides assurances that each fitting is pressed correctly as the band easily removes after it has been pressed. In addition, **CarbonPress®** has a leak before press system which gives a visual indication of a connection that has not been pressed.

#### The Merit CarbonPress® offering includes:

- Adapters: Flange, Male, Female
- Cap
- Couplings: with Stop, w/o Stop and Extended w/o Stop
- 45° Elbows: Standard & Street
- 90° Elbows: Standard & Street
- Tees: Standard, Reducing and Reducing (P x FPT)
- Unions: Female and Standard

#### **Product Components:**

- Grab ring is made of 2Cr13 which deforms
   & grips the outside diameter of pipe to
   ensure a tight connection
- Separator ring made of 2Cr13
- Corrosion resistant
- Zinc nickel plating
- EPDM black sealing element
- Box, bag and band are color-coded GREEN for ease of receipt and proper installation per application

#### **Working Pressure & Temperature:**

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

#### CarbonPress® Certifications:

IAPMO Z 1117

#### **Approved Applications:**

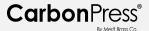
- Hydronic Heating
- Chilled Water

#### **Approved Piping:**

 Steel pipes conforming to ASTM A53, A106, A135, A795 (schedule 10 to 40) and black iron, epoxy coated and galvanized steel.

Press Tooling Reference Guide (see page 15).

Please contact our sales team for additional information around our **CarbonPress®** offering at 800.726.9800.



## **HNBR SYSTEM DATA SHEET**

The Merit **CarbonPress®** system is available in ½" – 4". This system joins black iron, epoxy coated, and galvanized schedule 10 to 40 carbon steel pipe. **CarbonPress®** is available in three sealing elements: EPDM, HNBR and FKM. Our first to market VIPR® technology provides assurances that each fitting is pressed correctly as the band easily removes after it has been pressed. In addition, **CarbonPress®** has a leak before press system which gives a visual indication of a connection that has not been pressed.

#### The Merit CarbonPress® offering includes:

- Adapters: Flange, Male, Female
- Cap
- Couplings: with Stop, w/o Stop and Extended w/o Stop
- 45° Elbows: Standard & Street
- 90° Elbows: Standard & Street
- Tees: Standard, Reducing and Reducing (P x FPT)
- Unions: Female and Standard

#### **Product Components:**

CarbonPress® is a carbon steel alloy (ASTM A420) fitting which includes other high-quality components:

- Grab ring is made of 2Cr13 which deforms
   & grips the outside diameter of pipe to
   ensure a tight connection
- Separator ring made of 2Cr13
- Corrosion resistant
- Zinc nickel plating
- HNBR Yellow sealing element
- Box, bag and band are color-coded YELLOW for ease of receipt and proper installation per application

#### **Working Pressure & Temperature:**

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

#### CarbonPress® Certifications:

IAPMO/ANSI 4/CSA 6.32

#### **Approved Applications:**

Fuel Gas Applications

#### **Approved Piping:**

 Steel pipes conforming to ASTM A53, A106, A135, A795 (schedule 10 to 40) and black iron, epoxy coated and galvanized steel.

Press Tooling Reference Guide (see page 15).

Please contact our sales team for additional information around our CarbonPress® offering at 800.726.9800.



# **FKM SYSTEM DATA SHEET**

The Merit **CarbonPress®** system is available in  $\frac{1}{2}$ " – 4". This system joins black iron, epoxy coated, and galvanized schedule 10 to 40 carbon steel pipe. **CarbonPress®** is available in three sealing elements: FKM, EPDM and HNBR. Our first to market VIPR® technology provides assurances that each fitting is pressed correctly as the band easily removes after it has been pressed. In addition, **CarbonPress®** has a leak before press system which gives a visual indication of a connection that has not been pressed.

#### The Merit CarbonPress® offering includes:

- Adapters: Flange, Male, Female
- Cap
- Couplings: with Stop, w/o Stop and Extended w/o Stop
- 45° Elbows: Standard & Street
- 90° Elbows: Standard & Street
- Tees: Standard, Reducing and Reducing (P x FPT)
- Unions: Female and Standard

#### **Product Components:**

CarbonPress® is a carbon steel alloy (ASTM A420) fitting which includes other high-quality components:

- Grab ring is made of 2Cr13 which deforms
   & grips the outside diameter of pipe to
   ensure a tight connection
- Separator ring made of 2Cr13
- Corrosion resistant
- Zinc nickel plating
- FKM Brown sealing element
- Box, bag and band are color-coded BROWN for ease of receipt and proper installation per application

#### **Working Pressure & Temperature:**

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

#### CarbonPress® Certifications:

IAPMO Z1117

#### **Approved Applications:**

 Fluids, Water, Gases, Oil & Lubricant Applications (see page 4)

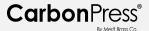
#### **Approved Piping:**

 Steel pipes conforming to ASTM A53, A106, A135, A795 (schedule 10 to 40) and black iron, epoxy coated and galvanized steel.

#### **Press Tooling Reference Guide**

(see page 15).

Please contact our sales team for additional information around our CarbonPress® offering at 800.726.9800.



# **FEATURES & BENEFITS**

#### FIRST TO MARKET

The **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.



## **Engineered Sealing Elements**

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

Box, Bag and Ring are color-coordinated for ease of identifying the sealing element





# 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"	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 in to 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 placed.



#### 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 no 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 in to 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 placed. 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 no 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.



# **TOOLING REFERENCE GUIDE**

Carbo	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"	49-16-2659\$	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.





CarbonPress® Coupling with Stop P x P is available in sizes ½" – 2" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

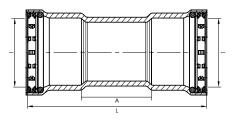
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

Coupling w	rith Stop			PxP	
Item Number			Nominal	Α	L
EPDM	HNBR	FKM	Size 1	(in)	(in)
МВ90000	MB90001	MB90002	1/2"	0.79	2.83
MB90005	MB90006	MB90007	3/4"	0.87	3.23
MB90010	MB90011	MB90012	1"	0.87	3.58
MB90015	MB90016	MB90017	11/4"	1.13	4.72
MB90020	MB90021	MB90022	1½"	1.18	4.88
MB90025	MB90026	MB90027	2"	1.26	5.12







CarbonPress® XL Coupling with Stop P x P is available in sizes 21/2" - 4" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- **Surface Protection:** Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

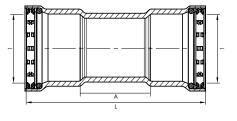
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

XL Coupling with Stop					
Item Number			Α	L	
HNBR	FKM Size 1		(in)	(in)	
MB90031	MB90032	2½"	1.18	4.92	
MB90036	MB90037	3"	1.42	5.98	
MB90041	MB90042	4"	1.63	7.87	
	HNBR MB90031 MB90036	Item Number           HNBR         FKM           MB90031         MB90032           MB90036         MB90037	Item Number         Nominal Size 1           HNBR         FKM         Size 1           MB90031         MB90032         2½"           MB90036         MB90037         3"	Item Number         Nominal Size 1         A (in)           MB90031         MB90032         2½"         1.18           MB90036         MB90037         3"         1.42	







CarbonPress® Coupling w/o Stop P x P is available in sizes  $\frac{1}{2}$ " – 2" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

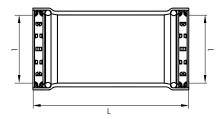
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

Coupling w/o Stop					
Item Number	Nominal	L			
HNBR	FKM	Size 1	(in)		
MB90046	MB90047	1/2"	2.83		
MB90051	MB90052	3/4"	3.23		
MB90056	MB90057	1"	3.58		
MB90061	MB90062	11/4"	4.72		
MB90066	MB90067	1½"	4.88		
MB90071	MB90072	2"	5.12		
	HNBR MB90046 MB90051 MB90056 MB90061 MB90066	Item Number           HNBR         FKM           MB90046         MB90047           MB90051         MB90052           MB90056         MB90057           MB90061         MB90062           MB90066         MB90067	Item Number         Nominal Size 1           HNBR         FKM         Size 1           MB90046         MB90047         ½"           MB90051         MB90052         ¾"           MB90056         MB90057         1"           MB90061         MB90062         1¼"           MB90066         MB90067         1½"		





XL Coupling w/o Stop	Р	x P
	Job Name	7
	Job Location	
Image Coming Soon	P.O.#	
	Engineer	
	Contractor	
	Wholesaler	
	Merit Associate	

CarbonPress® XL Coupling w/o Stop P x P is available in sizes 21/2" - 4" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

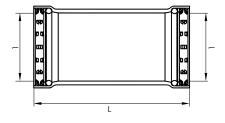
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

XL Coupling w/o Stop					
Item Number			Nominal	L	
EPDM	HNBR	FKM	Size 1	(in)	
MB90075	MB90076	MB90077	2½"	4.92	
MB90080	MB90081	MB90082	3"	5.98	
MB90085	MB90086	MB90087	4"	7.87	







CarbonPress® Extended Coupling w/o Stop P x P is available in sizes  $\frac{1}{2}$ " - 2" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant In-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

Extended Coupling w/o Stop					
	Item Number	Nominal	L		
EPDM	HNBR	FKM	Size 1	(in)	
MB90090	MB90091	MB90092	1/2"	3.82	
MB90095	MB90096	MB90097	3/4"	4.00	
MB90100	MB90101	MB90102	1"	4.37	
MB90105	MB90106	MB90107	11/4"	5.31	
MB90110	MB90111	MB90112	1½"	5.43	
MB90115	MB90116	MB90117	2"	5.63	





Reducing Coupling		PxP
	Job Name	
	Job Location	
The control of the co	P.O.#	
	Engineer	
	Contractor	
	Wholesaler	
	Merit Associate	
See year of the second of the	Engineer Contractor Wholesaler	

CarbonPress® Reducing Coupling  $P \times P$  is available in sizes  $\frac{3}{4}$ " -2" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

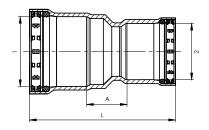
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

Reducing Coupling P x P						
	Item Number		Nomir	nal Size	Α	L
EPDM	HNBR	FKM	Size 1	Size 2	(in)	(in)
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	11/4"	3/4"	1.32	4.29
MB90140	MB90141	MB90048	11/4"	1"	1.04	4.19
MB90137	MB90139	MB90049	1½"	3/4"	1.54	4.57
MB90142	MB90143	MB90144	1½"	1"	1.22	4.43
MB90145	MB90146	MB90152	1½"	11/4"	1.07	4.72
MB90147	MB90148	MB90153	2"	1"	1.56	4.84
MB90150	MB90151	MB90154	2"	11/4"	1.59	5.31
MB90155	MB90156	MB90157	2"	1½"	1.50	5.28

#### CarbonPress® Certifications

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

CarbonPress® Codes and Standards IAPMO Z 1117, IAPMO/ANSI LC 4/CSA 6.32, ASME B31.1, B31.3, B31.9, CSA B149.1, UPC, and UMC.







 $\textbf{CarbonPress}^{\texttt{@}} \textbf{ XL Reducing Coupling P x P} \text{ is available in sizes } 2\frac{1}{2}"-4" \text{ with an EPDM, HNBR and FKM sealing element.}$ 

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

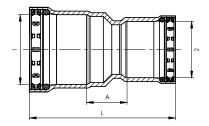
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

XL Reducin	g Coupling					PxP
	Item Number		Nomir	nal Size	Α	L
EPDM	HNBR	FKM	Size 1	Size 2	(in)	(in)
MB36000	MB36002	MB36001	2½"	1"	2.26	5.49
MB36003	MB36005	MB36004	2½"	11/4"	2.16	5.83
MB36006	MB36008	MB36007	2½"	11/2"	2.01	5.73
MB36009	MB36011	MB36010	2½"	2"	1.52	5.31
MB36012	MB36014	MB36013	3"	11/4"	2.73	6.83
MB36015	MB36017	MB36016	3"	11/2"	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"	11/2"	3.58	8.56
MB36027	MB36029	MB36028	4"	2"	3.09	8.15
MB36030	MB36032	MB36031	4"	21/2"	2.60	7.60
MB36033	MB36035	MB36034	4"	3"	2.32	7.76

#### CarbonPress® Certifications

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

# CarbonPress® Codes and Standards IAPMO Z 1117, IAPMO/ANSI LC 4/CSA 6.32, ASME B31.1, B31.3, B31.9, CSA B149.1, UPC, and UMC.





	PxP
Job Name	
Job Location	
P.O.#	
Engineer	
Contractor	
Wholesaler	
Merit Associate	
	Job Location  P.O.# Engineer Contractor Wholesaler

CarbonPress® Bushing Reducer FTG x P is available in sizes  $\frac{3}{4}$ " - 2" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

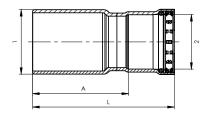
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

Bushing Re	Bushing Reducer					
ltem Number			Nomir	nal Size	A	L
EPDM	HNBR	FKM	Size 1	Size 2	(in)	(in)
MB90160	MB90161	MB90162	3/4"	1/2"	1.99	3.01
MB90165	MB90166	MB90167	1"	1/2"	2.36	3.39
MB90170	MB90171	MB90174	1"	3/4"	2.26	3.44
MB90172	MB90173	MB90177	11/4"	3/4"	2.91	4.09
MB90175	MB90176	MB90178	11/4"	1"	2.74	4.09
MB90180	MB90181	MB90182	11/2"	3/4"	3.27	4.45
MB90185	MB90186	MB90187	1½"	1"	2.91	4.27
MB90190	MB90191	MB90192	1½"	11/4"	2.93	4.72
MB90195	MB90196	MB90197	2"	1"	3.37	4.72
MB90200	MB90201	MB90202	2"	11/4"	3.38	5.18
MB90205	MB90206	MB90207	2"	1½"	3.31	5.16

#### CarbonPress® Certifications

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

# CarbonPress® Codes and Standards IAPMO Z 1117, IAPMO/ANSI LC 4/CSA 6.32, ASME B31.1, B31.3, B31.9, CSA B149.1, UPC, and UMC.







CarbonPress® XL Bushing Reducer FTG x P is available in sizes 21/2" – 4" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

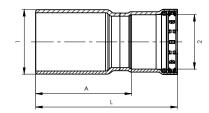
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

XL Bushing	Reducer					FTG x P
	Item Number		Nomir	nal Size	A	L
EPDM	HNBR	FKM	Size 1	Size 2	(in)	(in)
MB90210	MB90211	MB90212	2½"	1"	3.46	4.82
MB90215	MB90216	MB90217	2½"	11/4"	3.40	5.20
MB90220	MB90221	MB90222	21/2"	11/2"	3.33	5.18
MB90225	MB90226	MB90227	21/2"	2"	3.15	5.08
MB90230	MB90231	MB90232	3"	11/4"	4.15	5.94
MB90235	MB90236	MB90237	3"	11/2"	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"	21/2"	5.16	7.05
MB90265	MB90266	MB90267	4"	3"	5.06	7.36

#### CarbonPress® Certifications

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

# CarbonPress® Codes and Standards IAPMO Z 1117, IAPMO/ANSI LC 4/CSA 6.32, ASME B31.1, B31.3, B31.9, CSA B149.1, UPC, and UMC.





90° Elbow		PxP
	Job Name	
	Job Location	
	P.O.#	
	Engineer	
	Contractor	
	Wholesaler	
	Merit Associate	

CarbonPress® 90° Elbow P x P is available in sizes  $\frac{1}{2}$ " – 2" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

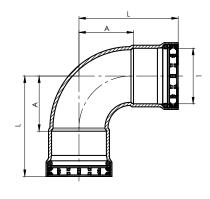
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

90° Elbow					PxP
Item Number			Nominal	Α	L
EPDM	HNBR	FKM	Size 1	(in)	(in)
MB90450	MB90451	MB90452	1/2"	1.56	2.58
MB90455	MB90456	MB90457	3/4"	1.83	3.01
MB90460	MB90461	MB90462	1"	2.20	3.56
MB90465	MB90466	MB90467	11/4"	2.67	4.47
MB90470	MB90471	MB90472	1½"	2.93	4.78
MB90475	MB90476	MB90477	2"	3.66	5.59







CarbonPress® XL 90° Elbow P x P is available in sizes 2½" – 4" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

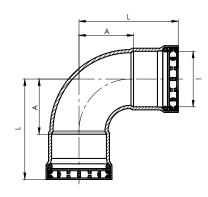
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

XL 90° Elbow					
Item Number			Α	L	
HNBR	FKM	Size 1	(in)	(in)	
MB90481	MB90482	2½"	4.09	5.98	
MB90486	MB90487	3"	4.80	7.09	
MB90491	MB90492	4"	6.10	9.25	
	HNBR MB90481 MB90486	Item Number           HNBR         FKM           MB90481         MB90482           MB90486         MB90487	Item Number         Nominal Size 1           HNBR         FKM         Size 1           MB90481         MB90482         2½"           MB90486         MB90487         3"	Item Number         Nominal Size 1         A (in)           MB90481         MB90482         2½"         4.09           MB90486         MB90487         3"         4.80	







CarbonPress® 90° Street Elbow FTG x Press is available in sizes ½" – 2" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

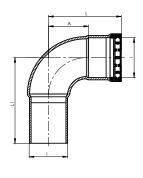
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

90° Street E	lbow				FTG	x Press
Item Number		Nominal	Α	L	L1	
EPDM	HNBR	FKM	Size 1	(in)	(in)	(in)
MB90495	MB90496	MB90497	1/2"	1.56	2.58	2.87
MB90500	MB90501	MB90502	3/4"	1.83	3.01	3.27
MB90505	MB90506	MB90507	1"	2.20	3.56	3.86
MB90510	MB90511	MB90512	11/4"	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







CarbonPress® XL 90° Street Elbow FTG x Press is available in sizes 2½" – 4" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

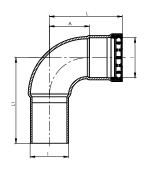
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

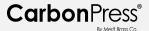
#### CarbonPress® Certifications

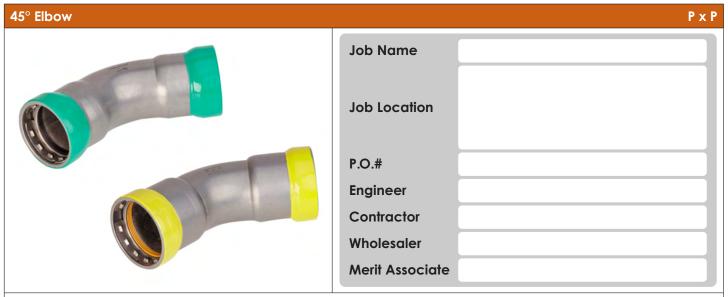
IAPMO Z 1117 (EPDM and FKM). IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

#### CarbonPress® Codes and Standards

XL 90° Stree	et Elbow			FTG	x Press	
Item Number			Nominal	Α	L	L1
EPDM	HNBR	FKM	Size 1	(in)	(in)	(in)
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







CarbonPress® 45° Elbow P x P is available in sizes  $\frac{1}{2}$ " – 2" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

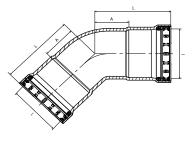
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

				PxP
Item Number		Nominal	A	L
HNBR	FKM	Size 1 (in)		(in)
MB90541	MB90542	1/2"	0.87	1.89
MB90546	MB90547	3/4"	1.00	2.19
MB90551	MB90552	1"	1.16	2.52
MB90556	MB90557	11/4"	1.43	3.23
MB90561	MB90562	1½"	1.54	3.41
MB90566	MB90567	2"	1.87	3.80
	HNBR MB90541 MB90546 MB90551 MB90556 MB90561	HNBR         FKM           MB90541         MB90542           MB90546         MB90547           MB90551         MB90552           MB90556         MB90557           MB90561         MB90562	HNBR         FKM         Size 1           MB90541         MB90542         ½"           MB90546         MB90547         ¾"           MB90551         MB90552         1"           MB90556         MB90557         1¼"           MB90561         MB90562         1½"	HNBR         FKM         Size 1         A (in)           MB90541         MB90542         ½" 0.87           MB90546         MB90547         ¾" 1.00           MB90551         MB90552         1" 1.16           MB90556         MB90557         1¼" 1.43           MB90561         MB90562         1½" 1.54







CarbonPress® XL 45° Elbow P x P is available in sizes 2½" – 4" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

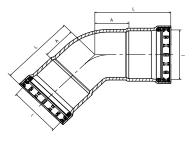
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

XL 45° Elbow								
	Item Number	Number Nominal			Number Nominal A			
EPDM	HNBR	FKM	Size 1	(in)	(in)			
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 I	•
	Job Name	
	Job Location	
	P.O.#	
	Engineer	
	Contractor	
	Wholesaler	
	Merit Associate	

CarbonPress® 45° Street Elbow FTG x P is available in sizes 1/2" - 2" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

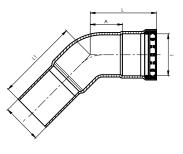
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

45° Street E	lbow					FTG x P
	Item Number		Nominal	Α	L	L1
EPDM	HNBR	FKM	Size 1	(in)	(in)	(in)
MB90585	MB90586	MB90587	1/2"	0.87	1.89	2.17
MB90590	MB90591	MB90592	3/4"	1.00	2.19	2.42
MB90595	MB90596	MB90597	1"	1.16	2.52	3.07
MB90600	MB90601	MB90602	11/4"	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







CarbonPress® XL 45° Street Elbow FTG x P is available in sizes 21/2" – 4" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

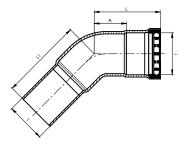
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

XL 45° Street Elbow FTC						
Item Number			Nominal	Α	L	L1
EPDM	HNBR	FKM	Size 1	(in)	(in)	(in)
MB90615	MB90616	MB90617	21/2"	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







CarbonPress® Cap is available in sizes ½" – 2" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

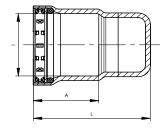
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

Сар					P
	Item Number		Nominal	Α	L
EPDM	HNBR	FKM	Size 1	(in)	(in)
MB90630	MB90631	MB90632	1/2"	1.02	1.81
MB90635	MB90636	MB90637	3/4"	1.18	2.01
MB90640	MB90641	MB90642	1"	1.36	2.19
MB90645	MB90646	MB90647	1 1/4"	1.80	2.83
MB90650	MB90651	MB90652	1 1/2"	1.85	2.91
MB90655	MB90656	MB90657	2"	1.93	3.01







CarbonPress® XL Cap is available in sizes 2½" – 4" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

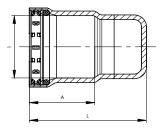
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

XL Cap					P
	Item Number	umber Nominal			L
EPDM	HNBR	FKM	Size 1	(in)	(in)
MB90660	MB90661	MB90662	2½"	1.87	3.60
MB90665	MB90666	MB90667	3"	2.30	4.21
МВ90670	MB90671	MB90672	4"	3.13	5.39







CarbonPress® Equal Tee P x P x P is available in sizes 1/2" - 2" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

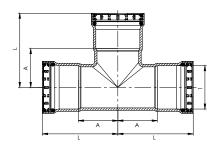
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

Equal Tee						P 2	k P x P
Item Number		Nominal	A	A1	L	L1	
EPDM	HNBR	FKM	Size 1	(in)	(in)	(in)	(in)
MB90270	MB90271	MB90272	1/2"	0.89	0.89	1.91	1.91
MB90275	MB90276	MB90277	3/4"	1.02	1.02	2.20	2.20
MB90280	MB90281	MB90282	1"	1.18	1.18	2.54	2.54
MB90285	MB90286	MB90287	11/4"	1.49	1.48	3.29	3.29
MB90290	MB90291	MB90292	11/2"	1.61	1.61	3.46	3.46
MB90295	MB90296	MB90297	2"	1.93	1.93	3.86	3.86







CarbonPress® XL Equal Tee P x P x P is available in sizes 21/2" – 4" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

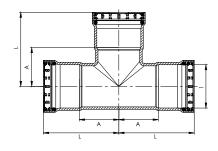
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

XL Equal Te	P 2	CP x P					
Item Number		Nominal	A	A1	L	L1	
EPDM	HNBR	FKM	Size 1	(in)	(in)	(in)	(in)
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×P
	Job Name	
	Job Location	
	P.O.#	
	Engineer	
	Contractor	
	Wholesaler	
	Merit Associate	

CarbonPress® Reducing Tee  $P \times P \times P$  is available in sizes  $\frac{3}{4}$ " - 2" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

Reducing	Тее							Рx	PxP
	ltem Number		N	ominal Si	ze	А	A1	L	L1
EPDM	HNBR	FKM	Size 1	Size 2	Size 3	(in)	(in)	(in)	(in)
MB90300	MB90301	MB90302	3/4"	3/4"	1/2"	0.98	0.98	2.20	2.01
MB90305	MB90306	MB90307	1"	1"	1/2"	1.14	1.14	2.54	2.17
MB90310	MB90311	MB90312	1"	1"	3/4"	1.18	1.18	2.54	2.36
MB90315	MB90316	MB90317	11/4"	11/4"	1/2"	1.49	1.32	3.29	2.34
MB90320	MB90321	MB90322	11/4"	11/4"	3/4"	1.49	1.36	3.29	2.54
MB90325	MB90326	MB90327	11/4"	11/4"	1"	1.49	1.36	3.29	2.72
MB90330	MB90331	MB90332	1½"	1½"	1/2"	1.61	1.42	3.46	2.44
MB90335	MB90336	MB90337	1½"	1½"	3/4"	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"	11/4"	1.61	1.59	3.46	3.39
MB90350	MB90351	MB90352	2"	2"	1/2"	1.93	1.71	3.86	2.74
MB90355	MB90356	MB90357	2"	2"	3/4"	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"	11/4"	1.93	1.89	3.86	3.68
МВ90370	MB90371	MB90372	2"	2"	1½"	1.93	1.91	3.86	3.76

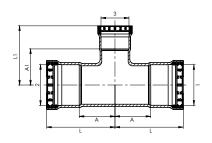
#### CarbonPress® Operational Parameters:

Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

## CarbonPress® Certifications

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

### CarbonPress® Codes and Standards





	PxP
Job Name	
Job Location	
P.O.#	
Engineer	
Contractor	
Wholesaler	
Merit Associate	
	Job Location  P.O.# Engineer Contractor Wholesaler

CarbonPress® XL Reducing Tee P x P x P is available in sizes 2½" – 4" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

XL Reduc	ing Tee							Рx	PxP
	Item Number		Nominal Size			Α	A1	L	L1
EPDM	HNBR	FKM	Size 1	Size 2	Size 3	(in)	(in)	(in)	(in)
MB90375	MB90376	MB90377	2½"	2½"	1"	1.97	1.97	3.90	3.33
MB90380	MB90381	MB90382	2½"	2½"	11/4"	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"	11/4"	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

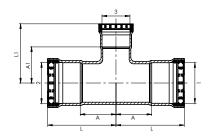
#### CarbonPress® Operational Parameters:

Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

## CarbonPress® Certifications

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

## CarbonPress® Codes and Standards





Reducing Tee (P x FPT)	P x P x FPT
	Job Name
	Job Location
	P.O.#
	Engineer
	Contractor
	Wholesaler
	Merit Associate

CarbonPress® Reducing Tee (P x FPT) P x P x FPT is available in sizes ¾" – 2" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

Reducing	Tee (P x F	PT)						PxP	x FPT
	ltem Numbei		N	ominal Si	ze	Α	<b>A</b> 1	L	L1
EPDM	HNBR	FKM	Size 1	Size 2	Size 3	(in)	(in)	(in)	(in)
MB90840	MB90841	MB90842	3/4"	3/4"	1/2"	1.02	1.18	2.20	1.85
MB90843	MB90844	MB90845	3/4"	3/4"	3/4"	1.02	1.18	2.20	1.85
MB90846	MB90847	MB90848	1"	1"	1/2"	1.18	1.34	2.54	2.01
MB90849	MB90850	MB90851	1"	1"	3/4"	1.18	1.34	2.54	2.01
MB90852	MB90853	MB90854	11/4"	11/4"	1/2"	1.48	1.52	3.29	2.19
MB90855	MB90856	MB90857	11/4"	11/4"	3/4"	1.48	1.52	3.29	2.19
MB90858	MB90859	MB90860	11/4"	11/4"	1"	1.48	1.56	3.29	2.34
MB90861	MB90862	MB90863	1½"	1½"	1/2"	1.61	1.61	3.46	2.28
MB90864	MB90865	MB90866	1½"	1½"	3/4"	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"	11/4"	1.61	1.57	3.46	2.54
MB90873	MB90874	MB90875	2"	2"	1/2"	1.93	1.91	3.86	2.58
MB90876	MB90877	MB90878	2"	2"	3/4"	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"	11/4"	1.93	1.87	3.86	2.83
MB90885	MB90886	MB90887	2"	2"	1½"	1.93	1.95	3.86	2.93

#### CarbonPress® Operational Parameters:

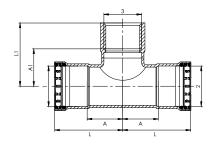
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

## CarbonPress® Certifications

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

## CarbonPress® Codes and Standards IAPMO Z 1117, IAPMO/ANSI LC 4/CSA

6.32, ASME B31.1, B31.3, B31.9, CSA B149.1, UPC, and UMC.







CarbonPress® XL Reducing Tee (P x FPT) P x P x FPT is available in sizes 2½" – 4" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant In-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

## CarbonPress® Operational Parameters:

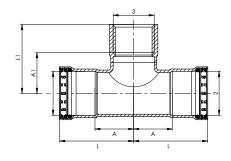
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

## CarbonPress® Certifications

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

## CarbonPress® Codes and Standards

XL Reducing Tee (P x FPT) P x P x FPT									
Item Number			Nominal Size			Α	<b>A</b> 1	L	L1
EPDM	HNBR	FKM	Size 1	Size 2	Size 3	(in)	(in)	(in)	(in)
MB90888	MB90889	MB90890	2½"	2½"	3/4"	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"	3/4"	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"	3/4"	1.59	2.87	4.72	3.54
MB36042	MB36044	MB36043	4"	4"	1"	1.59	2.91	4.72	3.70







Female A	dapter					P x FPT
	Item Number		Nomin	nal Size	Α	L
EPDM	HNBR	FKM	Size 1	Size 2	(in)	(in)
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	мв90738	1"	3/4"	1.08	3.11
MB90745	MB90746	MB90742	1"	1"	0.91	3.05
MB90750	MB90751	MB90767	11/4"	1/2"	1.67	4.13
MB90755	MB90756	MB90752	11/4"	3/4"	1.67	4.13
MB90760	MB90761	MB90757	11/4"	1"	1.16	3.76
MB90765	MB90766	MB90762	11/4"	11/4"	1.06	3.72
MB90770	MB90771	MB90792	1½"	1/2"	1.69	4.21
MB90775	MB90776	MB90772	1½"	3/4"	1.69	4.21
MB90780	MB90781	MB90777	1½"	1"	1.73	4.37
MB90785	MB90786	MB90782	1½"	11/4"	1.18	3.90
MB90790	MB90791	MB90787	1½"	1½"	1.06	3.90
MB90795	MB90796	MB90822	2"	1/2"	1.71	4.31
мв90800	MB90801	MB90797	2"	3/4"	1.71	4.31
MB90805	MB90806	MB90802	2"	1"	1.75	4.47
MB90810	MB90811	MB90807	2"	11/4"	1.77	4.57
MB90815	MB90816	MB90812	2"	1½"	1.46	4.37
MB90820	MB90821	MB90817	2"	2"	1.20	4.15

CarbonPress® Female Adapter P x FPT is available in sizes  $\frac{1}{2}$ " – 2" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- **Surface Protection:** Corrosion Resistant Zn-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- **Applications:** Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

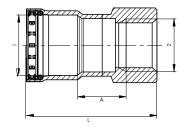
#### CarbonPress® Operational Parameters:

Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

## CarbonPress® Certifications

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

## CarbonPress® Codes and Standards







CarbonPress® XL Female Adapter P x FPT is available in sizes 21/2" – 4" with an EPDM, HNBR and FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- Grab Ring: Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

## CarbonPress® Operational Parameters:

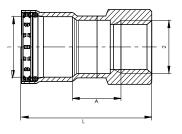
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

## CarbonPress® Certifications

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

## CarbonPress® Codes and Standards

XL Female	XL Female Adapter P x FPT								
	Item Number		Nomin	al Size	Α	L			
EPDM	HNBR	FKM	Size 1	Size 2	(in)	(in)			
MB90825	MB90826	MB90827	2½"	2½"	1.06	4.00			
MB90830	MB90831	MB90832	3"	3"	1.20	4.65			
МВ90835	MB90836	MB90837	4''	4"	1.32	5.71			







CarbonPress® Male Adapter P x MPT is available in sizes ½" – 2" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

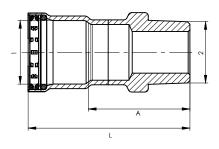
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

Male Adap	Male Adapter P x MPT								
	Item Number		Nominal Size		A1	L			
EPDM	HNBR	FKM	Size 1	Size 2	(in)	(in)			
MB90675	MB90676	MB90677	1/2"	1/2"	1.65	2.68			
MB90680	MB90681	MB90682	3/4"	3/4"	1.69	2.87			
MB90685	MB90686	MB90687	1"	1"	1.73	3.09			
MB90690	MB90691	MB90692	11/4"	11/4"	2.06	3.86			
MB90695	MB90696	MB90697	11/2"	11/2"	2.24	4.09			
МВ90700	MB90701	MB90702	2"	2"	2.40	4.33			







CarbonPress® XL Male Adapter P x MPT is available in sizes 21/2" - 4" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

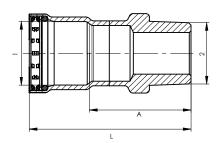
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

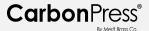
#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

XL Male Ad	XL Male Adapter P x MPT								
	Item Number	umber Nominal Size				L			
EPDM	HNBR	FKM	Size 1	Size 2	(in)	(in)			
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			







CarbonPress® Union P x P is available in sizes  $\frac{1}{2}$ " – 2" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

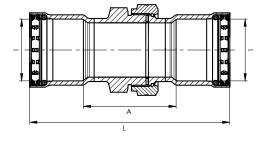
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

				PxP
Item Number		Nominal	Α	L
HNBR	FKM	Size 1	(in)	(in)
MB90919	MB90920	1/2"	2.83	4.88
MB90922	MB90923	3/4"	3.19	5.55
MB90925	MB90926	1"	3.50	6.22
MB90928	MB90929	11/4"	4.08	7.68
MB90931	MB90932	11/2"	4.13	7.83
MB90934	MB90935	2"	4.92	8.78
	MB90919 MB90922 MB90925 MB90928 MB90931	HNBR         FKM           MB90919         MB90920           MB90922         MB90923           MB90925         MB90926           MB90928         MB90929           MB90931         MB90932	HNBR         FKM         Nominal Size 1           MB90919         MB90920         ½"           MB90922         MB90923         ¾"           MB90925         MB90926         1"           MB90928         MB90929         1¼"           MB90931         MB90932         1½"	HNBR         FKM         Size 1         A (in)           MB90919         MB90920         ½"         2.83           MB90922         MB90923         ¾"         3.19           MB90925         MB90926         1"         3.50           MB90928         MB90929         1¼"         4.08           MB90931         MB90932         1½"         4.13







CarbonPress® Female Union P x FPT is available in sizes ½" – 2" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

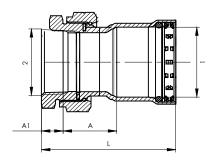
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

Female Union P x FPT										
	Nomin	al Size	Α	<b>A</b> 1	L					
EPDM	HNBR	FKM	Size 1	Size 2	(in)	(in)	(in)			
MB90936	MB90955	MB90956	1/2"	1/2"	1.50	0.71	3.23			
MB90939	MB90958	MB90959	3/4"	3/4"	1.63	0.81	3.62			
MB90942	MB90961	MB90962	1"	1"	1.79	0.87	4.02			
MB90945	MB90964	MB90965	11/4"	11/4"	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			







CarbonPress® Flange Adapter P x Flange is available in sizes 1/2" – 2" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

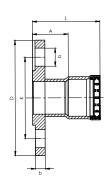
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

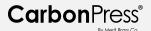
#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

Flange Adapter P x Flange										
Item Number			Α	L	b	K	D	d		
HNBR	FKM	Size 1	(in)	(in)	(in)	(in)	(in)	(in)		
MB90973	MB90974	1/2"	1.23	2.25	0.46	2.36	3.54	0.63		
MB90976	MB90977	3/4"	1.43	2.61	0.52	2.76	3.94	0.63		
MB90979	MB90980	1"	1.60	2.96	0.58	3.11	4.33	0.63		
MB90982	MB90983	11/4"	1.08	2.88	0.64	3.50	4.53	0.63		
MB90985	MB90986	1½"	1.17	3.02	0.70	3.86	4.92	0.63		
MB90988	MB90989	2"	1.26	3.19	0.77	4.76	5.91	0.75		
	HNBR MB90973 MB90976 MB90979 MB90982 MB90985	Hem Number           HNBR         FKM           MB90973         MB90974           MB90976         MB90977           MB90979         MB90980           MB90982         MB90983           MB90985         MB90986	Item Number         Nominal Size 1           HNBR         FKM         Size 1           MB90973         MB90974         ½"           MB90976         MB90977         ¾"           MB90979         MB90980         1"           MB90982         MB90983         1¼"           MB90985         MB90986         1½"	Item Number         Nominal Size 1         A (in)           HNBR         FKM         Size 1         A (in)           MB90973         MB90974         ½"         1.23           MB90976         MB90977         ¾"         1.43           MB90979         MB90980         1"         1.60           MB90982         MB90983         1¼"         1.08           MB90985         MB90986         1½"         1.17	Hem Number         Nominal Size 1         A (in)         L (in)           HNBR         FKM         Y2"         1.23         2.25           MB90973         MB90974         ½"         1.43         2.61           MB90976         MB90977         ¾"         1.60         2.96           MB90979         MB90980         1"         1.08         2.88           MB90985         MB90986         1½"         1.17         3.02	Hem Number         Nominal Size 1         A (in)         L (in)         b (in)           MB90973         MB90974         ½"         1.23         2.25         0.46           MB90976         MB90977         ¾"         1.43         2.61         0.52           MB90979         MB90980         1"         1.60         2.96         0.58           MB90982         MB90983         1¼"         1.08         2.88         0.64           MB90985         MB90986         1½"         1.17         3.02         0.70	Hem Number         Nominal Size 1         A (in)         L (in)         K (in)           HNBR         FKM         Size 1         1         2         2         5         6         2.36           MB90973         MB90974         ½"         1.23         2.25         0.46         2.36           MB90976         MB90977         ¾4"         1.43         2.61         0.52         2.76           MB90979         MB90980         1"         1.60         2.96         0.58         3.11           MB90982         MB90983         1½"         1.08         2.88         0.64         3.50           MB90985         MB90986         1½"         1.17         3.02         0.70         3.86	Hem Number         Nominal Size 1         A (in)         L (in)         b (in)         K (in)         D (in)           MB90973         MB90974         ½"         1.23         2.25         0.46         2.36         3.54           MB90976         MB90977         ¾"         1.43         2.61         0.52         2.76         3.94           MB90979         MB90980         1"         1.60         2.96         0.58         3.11         4.33           MB90982         MB90983         1¼"         1.08         2.88         0.64         3.50         4.53           MB90985         MB90986         1½"         1.17         3.02         0.70         3.86         4.92		







CarbonPress® XL Flange Adapter P x Flange is available in sizes 21/2" - 4" with an EPDM, HNBR or FKM sealing element.

- FIRST TO MARKET Visual Indicator Press Ring® (VIPR®): facilitates immediate identification of un-pressed connections.
- Leak Before Press (LBP): in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- Surface Protection: Corrosion Resistant Zn-Ni Plating.
- **Grab Ring:** Deforms and Grips Outside Diameter of Pipe.
- Applications: Hydronic Heating, the Conveyance of Fluids, Gases, Oils, and Low-Pressure Steam.

#### CarbonPress® Operational Parameters:

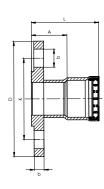
Working pressure range from full vacuum to 250 psi (17.2 bar) for water, 125 psi (8.6 bar) for gas, and 200 psi (13.7 bar) for industrial applications.

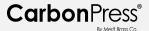
#### CarbonPress® Certifications

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

#### CarbonPress® Codes and Standards

XL Flange Adapter P x Flange										
Item Number			Nominal	A	L	b	K	D	d	
EPDM	HNBR	FKM	Size 1	(in)	(in)	(in)	(in)	(in)	(in)	
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	





## LIMITED WARRANTY



CopperPress®

Stainless Press®



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**



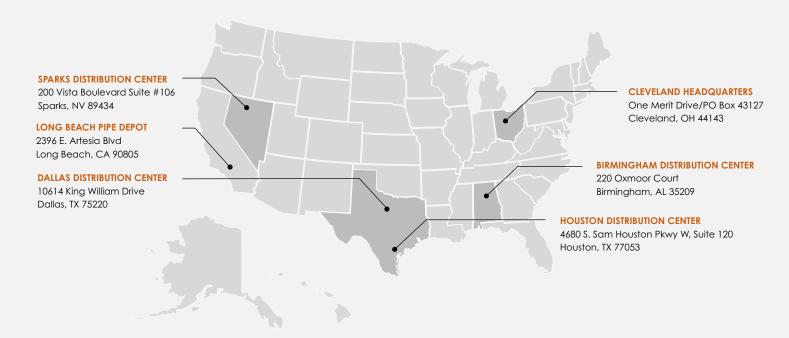








## **LOCATIONS**



## **CONTACT US**



800.726.9800

contactus@meritbrass.com

## **LEARN MORE**



Revised Jan 2024