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CarbonPress[®]
By Merit Brass Co.

SUBMITTAL PACKAGE



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

Merit Brass Co.

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

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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 1/2" through 2". 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 11. **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 10). 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 11) identified in the installation instructions (see page 10).

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 improperly pressed fitting allows a leak path for liquids and gases, thereby enabling an installer to identify the incorrectly installed fittings easily. The Leak-Before-Press feature significantly reduces the change of improper joints, helping to ensure a leak-free system. Learn more about the benefits and features on page 7.

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

Sealing Element Specifications

EPDM (Ethylene-propylene-diene monomer): Black color code and -40°F to 300°F (-40°C to 148°C). See below table for common applications and benefits of the sealing element. Details of approved applications may be found on page 5. NOT COMPATIBLE WITH HYDROCARBONS.

HNBR (Hydrogenated Nitrile Butadiene Rubber): Yellow color code and - 40°F to 200°F (-40°C to 93°C). See below table for common applications and benefits of the sealing element. Details of approved applications may be found on page 5. NOT FOR USE IN HOT WATER OR HOT AIR.


Fitting Housing

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


Working Pressure

Working Pressure Range from Full Vacuum to 250 psi (17.2 bar) Water/125 (8.6 bar) psi Gas

EPDM SEALING ELEMENT	
EPDM	Ethylene-propylene-diene monomer
Color	Black
Temperature	-40°F to 300°F (-40°C to 148°C)
Common Applications	Hydronic Heating
	Chilled Water
	Oil Free Air
Manufacturing Process	Synthetically manufactured & peroxide-cured
Benefits of Sealing Element	Excellent oxidation resistance



HNBR SEALING ELEMENT	
HNBR	Hydrogenated Nitrile Butadiene Rubber
Color	Yellow
Temperature	-40°F to 200°F (-40°C to 93°C)
Common Applications	Fuel Gas Applications
	Petroleum-based products and lubricants
	Salt solutions
Manufacturing Process	Synthetically manufactured and peroxide-cured
Benefits of Sealing Element	Excellent resilience and tear resistance



APPROVED APPLICATIONS

TYPES OF SERVICE		SYSTEM OPERATING CONDITIONS			CARBONPRESS® SEALS	
		NOTES	PRESSURE	TEMPERATURE	EPDM (WATER)	HNBR (GAS)
FLUIDS/ WATER	Chilled Water	Low-Pressure System Steam	230 psi	Min. -40°F	✓	
	Hydronic Heating	Ethylene Glycol, Propylene Glycol	230 psi	300°F	✓	
	Low-Pressure System Steam		15 psi max.	300°F	✓	
GASES	Argon		230 psi	Max. 140°F	✓	✓
	Carbon Dioxide		230 psi	Max. 140°F	✓	✓
	Compressed Air	Oil Concentrate <25mg/m3	230 psi	Max. 140°F	✓	✓
		Oil Concentrate >25mg/m3	230 psi	Max. 140°F		✓
	Natural Gas, LP Gas -40°F to 180°F and Fuel Oil		125 psi max.	-40°F to 180°F		✓
	Nitrogen		230 psi	Max. 140°F	✓	✓
Vacuum		29.2 in Hg max.	Max. 140°F			
OIL & LUBRICANTS	Diesel Fuel	Compliant with NFPA 30 & 30A	125 psi			✓
	Engine Oil		150 psi	Ambient		✓
	Heating Fuel Oil		125 psi	-40°F to 180°F		✓
	Hydraulic Fluid	Mineral Based	230 psi	Ambient		✓
	Transmission Fluid		230 psi	Ambient		✓

Contact Merit Brass for additional information regarding applications not 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)
- IAPMO/ANSI LC 4/CSA 6.32 (HNBR)

CarbonPress® Temperature & Pressure

- **Temperature Range:** EPDM -40°F to 300°F (-40°C to 148°C)
Working pressure range from full vacuum to 250 psi (17.2 bar) for water
- **Temperature Range:** HNBR -40°F to 200°F (-40°C to 93°C)
Working pressure range 125 psi (8.6 bar) for gas
- **Surface Protection:** Corrosion Resistant Zn-Ni Plating

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 CarbonPress® System Data Sheet

The Merit **CarbonPress®** system is available in 1/2" – 2". This system joins black iron, epoxy coated, and galvanized schedule 10 to 40 carbon steel pipe. **CarbonPress®** is available in two sealing elements: 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, No Stop and Extended No 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: EPDM -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 11).

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

HNBR CarbonPress® System Data Sheet

The Merit **CarbonPress®** system is available in 1/2" – 2". This system joins black iron, epoxy coated, and galvanized schedule 10 to 40 carbon steel pipe. **CarbonPress®** is available in two sealing elements: 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, No Stop and Extended No 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: HNBR -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 11).

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

FEATURES & BENEFITS

FIRST TO MARKET

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



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

Most Comprehensive Package with over 400 SKUs



Grab Ring deforms and grips outside diameter of pipe



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

INSTALLATION INSTRUCTIONS

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.

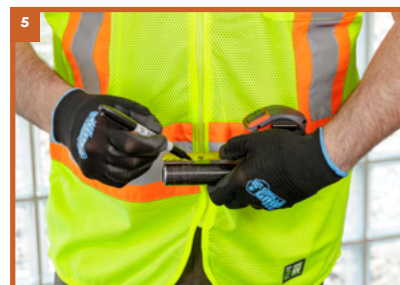
NOTE: improper insertion depth may result in an improper seal.



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.

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

7. Position tool

Ensure jaw pressing surfaces are free from debris. Once inspected, insert the approved jaw into the pressing tool and push in, hold the pin until it locks in place. Next, open the jaws and visually check the insertion depth using the mark on the pipe.



8. Press connection

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

9. Remove tool & Inspect press connection

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

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



Leak testing

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





TOOLING REFERENCE GUIDE

CarbonPress® Tools, Kits, Jaws and Rings

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

Note: 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.

Coupling with Stop
P x P

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

CarbonPress® Coupling with Stop P x P is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress® Certifications

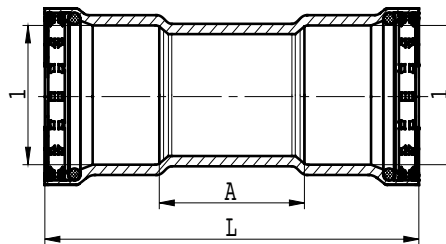
IAPMO Z 1117 (EPDM). IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

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.

Coupling with Stop
P x P

Item Number		Nominal Size 1	A (in)	L (in)
EPDM	HNBR			
MB90000	MB90001	1/2"	0.79	2.83
MB90005	MB90006	3/4"	0.87	3.23
MB90010	MB90011	1"	0.87	3.58
MB90015	MB90016	1 1/4"	1.12	4.72
MB90020	MB90021	1 1/2"	1.18	4.88
MB90025	MB90026	2"	1.22	5.08



Coupling No Stop

P x P



Job Name

Job Location

P.O.#

Engineer

Contractor

Wholesaler

Merit Associate

CarbonPress® Coupling No Stop P x P is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

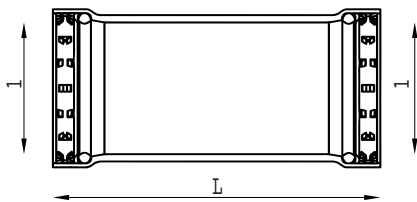
CarbonPress® Certifications

IAPMO Z 1117 (EPDM). 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.

Coupling No Stop		P x P	
Item Number		Nominal Size 1	L (in)
EPDM	HNBR		
MB90045	MB90046	1/2"	2.83
MB90050	MB90051	3/4"	3.23
MB90055	MB90056	1"	3.58
MB90060	MB90061	1 1/4"	4.72
MB90065	MB90066	1 1/2"	4.88
MB90070	MB90071	2"	5.08



Extended Coupling No Stop
P x P


Job Name	<input type="text"/>
Job Location	<input type="text"/>
P.O.#	<input type="text"/>
Engineer	<input type="text"/>
Contractor	<input type="text"/>
Wholesaler	<input type="text"/>
Merit Associate	<input type="text"/>

CarbonPress[®] Extended Coupling No Stop P x P is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress[®] Certifications

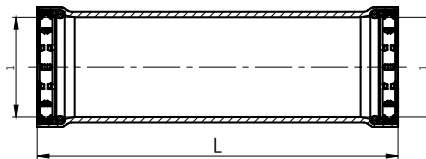
IAPMO Z 1117 (EPDM), IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

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.

Extended Coupling No Stop P x P

Item Number		Nominal Size 1	L (in)
EPDM	HNBR		
MB90090	MB90091	1/2"	3.82
MB90095	MB90096	3/4"	3.98
MB90100	MB90101	1"	4.37
MB90105	MB90106	1 1/4"	5.31
MB90110	MB90111	1 1/2"	5.43
MB90115	MB90116	2"	5.63



Reducing Coupling

P x P



Job Name

Job Location

P.O.#

Engineer

Contractor

Wholesaler

Merit Associate

CarbonPress® Coupling Reducer P x P is available in sizes 1/2" - 2" with an EPDM or HNBR 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.

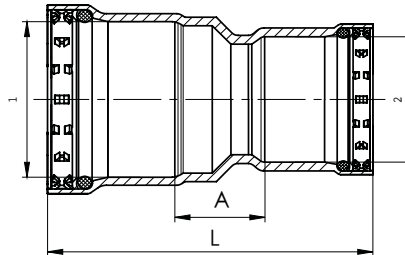
CarbonPress® Operational Parameters:
EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress® Certifications
IAPMO Z 1117 (EPDM). 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.

Reducing Coupling P x P

Item Number		Nominal Size		A (in)	L (in)
EPDM	HNBR	Size 1	Size 2		
MB90120	MB90121	¾"	½"	1.10	3.01
MB90125	MB90126	1"	½"	1.04	3.44
MB90130	MB90131	1"	¾"	1.24	3.78
MB90135	MB90136	1¼"	¾"	1.32	4.25
MB90140	MB90141	1¼"	1"	0.85	4.15
MB90137	MB90139	1½"	¾"	1.54	4.57
MB90142	MB90143	1½"	1"	1.22	4.43
MB90145	MB90146	1½"	1¼"	0.96	4.72
MB90147	MB90148	2"	1"	1.56	4.84
MB90150	MB90151	2"	1¼"	1.83	5.31
MB90155	MB90156	2"	1½"	1.95	5.24



Bushing Reducer
FTG x P

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

CarbonPress® Bushing Reducer FTG x P is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress® Certifications

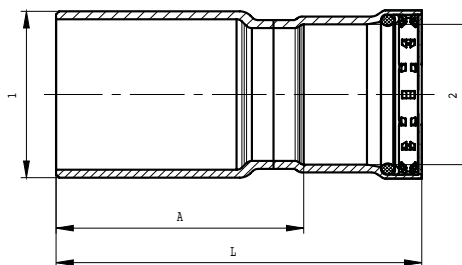
IAPMO Z 1117 (EPDM). IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

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.

Bushing Reducer
FTG x P

Item Number		Nominal Size		A (in)	L (in)
EPDM	HNBR	Size 1	Size 2		
MB90160	MB90161	¾"	½"	1.99	3.01
MB90165	MB90166	1"	½"	2.32	3.37
MB90170	MB90171	1"	¾"	2.26	3.50
MB90172	MB90173	1¼"	¾"	2.91	4.09
MB90175	MB90176	1¼"	1"	2.74	4.09
MB90180	MB90181	1½"	¾"	3.27	4.45
MB90185	MB90186	1½"	1"	2.87	4.25
MB90190	MB90191	1½"	1¼"	2.93	4.72
MB90195	MB90196	2"	1"	3.35	4.72
MB90200	MB90201	2"	1¼"	3.39	5.18
MB90205	MB90206	2"	1½"	3.33	5.16



Reducing Tee

P x P x P



Job Name

Job Location

P.O.#

Engineer

Contractor

Wholesaler

Merit Associate

CarbonPress® Reducing Tee P x P x P is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress® Certifications

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

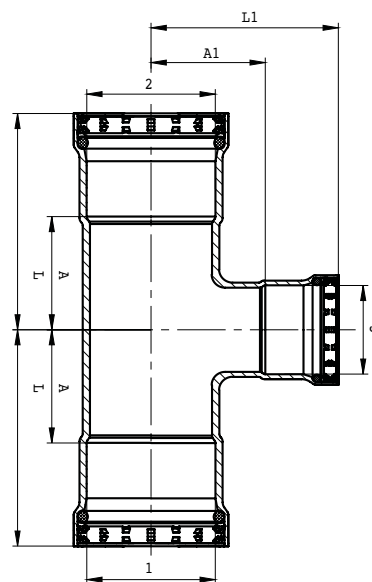
CarbonPress® Codes and Standards

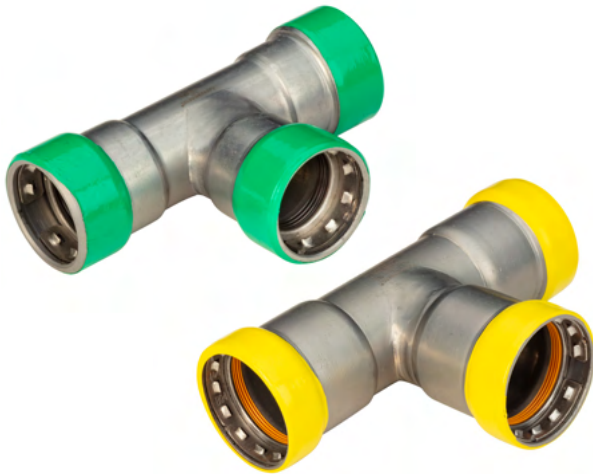
IAPMO Z 1117, IAPMO/ANSI LC 4/CSA 6.32, ASME B31.1, B31.3, B31.9, CSA B149.1, UPC, and UMC.

Reducing Tee

P x P x P

Item Number		Nominal Size			A (in)	A1 (in)	L (in)	L1 (in)
EPDM	HNBR	Size 1	Size 2	Size 3				
MB90300	MB90301	3/4"	3/4"	1/2"	1.02	0.96	2.20	2.01
MB90305	MB90306	1"	1"	1/2"	1.18	1.12	2.54	2.17
MB90310	MB90311	1"	1"	3/4"	1.18	1.18	2.54	2.36
MB90315	MB90316	1 1/4"	1 1/4"	1/2"	1.48	1.30	3.29	2.34
MB90320	MB90321	1 1/4"	1 1/4"	3/4"	1.48	1.36	3.29	2.54
MB90325	MB90326	1 1/4"	1 1/4"	1"	1.48	1.36	3.46	2.72
MB90330	MB90331	1 1/2"	1 1/2"	1/2"	1.61	1.40	3.46	2.44
MB90335	MB90336	1 1/2"	1 1/2"	3/4"	1.61	1.46	3.46	2.64
MB90340	MB90341	1 1/2"	1 1/2"	1"	1.61	1.46	3.46	2.81
MB90345	MB90346	1 1/2"	1 1/2"	1 1/4"	1.61	1.59	3.86	3.39
MB90350	MB90351	2"	2"	1/2"	1.93	1.69	3.86	2.74
MB90355	MB90356	2"	2"	3/4"	1.93	1.75	3.86	2.93
MB90360	MB90361	2"	2"	1"	1.93	1.75	3.86	3.11
MB90365	MB90366	2"	2"	1 1/4"	1.93	1.89	3.86	3.68
MB90370	MB90371	2"	2"	1 1/2"	1.93	1.91	3.86	3.76



Equal Tee
P x P x P

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

CarbonPress[®] Equal Tee P x P x P is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress[®] Certifications

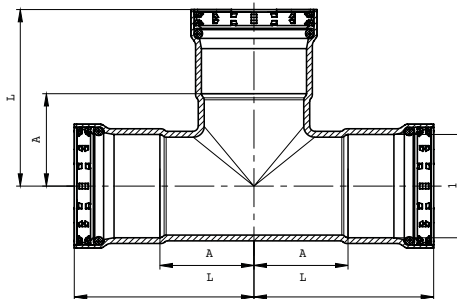
IAPMO Z 1117 (EPDM), IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

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.

Equal Tee
P x P x P

Item Number		Nominal Size 1	A (in)	L (in)
EPDM	HNBR			
MB90270	MB90271	1/2"	0.89	1.91
MB90275	MB90276	3/4"	1.02	2.20
MB90280	MB90281	1"	1.18	2.54
MB90285	MB90286	1 1/4"	1.48	3.29
MB90290	MB90291	1 1/2"	1.61	3.46
MB90295	MB90296	2"	1.93	3.86



90° Elbow

P x P



Job Name

Job Location

P.O.#

Engineer

Contractor

Wholesaler

Merit Associate

CarbonPress® 90° Elbow P x P is available in sizes 1/2" - 2" with an EPDM or HNBR 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:
 EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

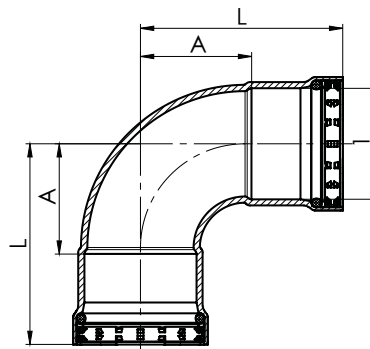
CarbonPress® Certifications
 IAPMO Z 1117 (EPDM). IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

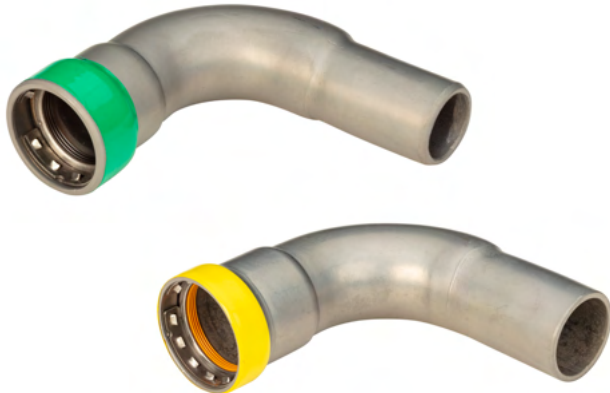
CarbonPress® Codes and Standards
 IAPMO Z 1117, IAPMO/ANSI LC 4/CSA 6.32, ASME B31.1, B31.3, B31.9, CSA B149.1, UPC, and UMC.

90° Elbow

P x P

Item Number		Nominal Size 1	A (in)	L (in)
EPDM	HNBR			
MB90450	MB90451	1/2"	1.56	2.58
MB90455	MB90456	3/4"	1.83	3.01
MB90460	MB90461	1"	2.20	3.56
MB90465	MB90466	1 1/4"	2.66	4.45
MB90470	MB90471	1 1/2"	2.93	4.76
MB90475	MB90476	2"	3.66	5.59



90° Street Elbow
FTG x Press

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

CarbonPress® 90° Street Elbow FTG x Press is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress® Certifications

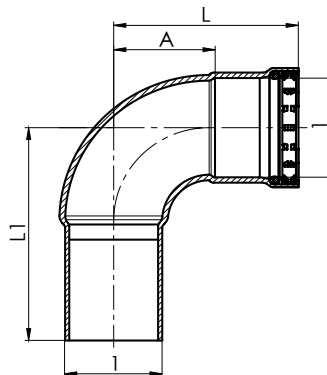
IAPMO Z 1117 (EPDM), IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

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° Street Elbow
FTG x Press

Item Number		Nominal Size 1	A (in)	L (in)	L1 (in)
EPDM	HNBR				
MB90495	MB90496	1/2"	1.56	2.58	2.87
MB90500	MB90501	3/4"	1.83	3.01	3.27
MB90505	MB90506	1"	2.20	3.56	3.86
MB90510	MB90511	1 1/4"	2.66	4.47	4.61
MB90515	MB90516	1 1/2"	2.93	4.76	5.12
MB90520	MB90521	2"	3.66	5.59	6.08



45° Elbow

P x P



Job Name

Job Location

P.O.#

Engineer

Contractor

Wholesaler

Merit Associate

CarbonPress® 45° Elbow P x P is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress® Certifications

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

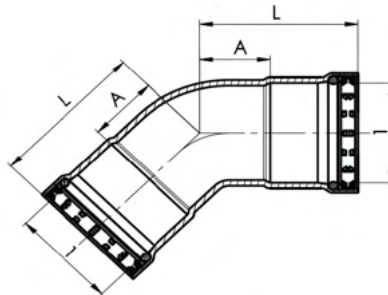
CarbonPress® Codes and Standards

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

45° Elbow

P x P

Item Number		Nominal Size 1	A (in)	L (in)
EPDM	HNBR			
MB90540	MB90541	1/2"	0.87	1.89
MB90545	MB90546	3/4"	1.00	2.19
MB90550	MB90551	1"	1.16	2.52
MB90555	MB90556	1 1/4"	1.42	3.23
MB90560	MB90561	1 1/2"	1.56	3.41
MB90565	MB90566	2"	1.87	3.80



45° Street Elbow
FTG x P

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 or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress[®] Certifications

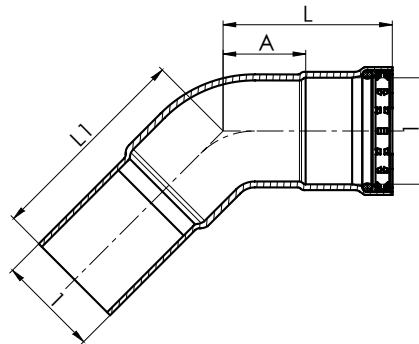
IAPMO Z 1117 (EPDM), IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

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.

45° Street Elbow
FTG x P

Item Number		Nominal Size 1	A (in)	L (in)	L1 (in)
EPDM	HNBR				
MB90585	MB90586	1/2"	1.56	1.89	2.17
MB90590	MB90591	3/4"	1.83	2.19	2.42
MB90595	MB90596	1"	2.20	2.52	3.07
MB90600	MB90601	1 1/4"	2.66	3.23	3.43
MB90605	MB90606	1 1/2"	2.93	3.41	3.74
MB90610	MB90611	2"	3.66	3.80	3.94



Cap



Job Name

Job Location

P.O.#

Engineer

Contractor

Wholesaler

Merit Associate

CarbonPress® Cap is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress® Certifications

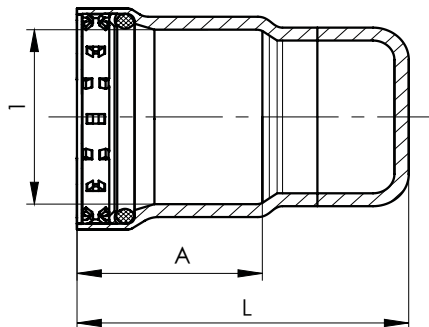
IAPMO Z 1117 (EPDM). IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

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.

Cap

Item Number		Nominal Size 1	A (in)	L (in)
EPDM	HNBR			
MB90630	MB90631	1/2"	1.02	1.81
MB90635	MB90636	3/4"	1.18	2.01
MB90640	MB90641	1"	1.36	2.19
MB90645	MB90646	1 1/4"	1.81	2.83
MB90650	MB90651	1 1/2"	1.85	2.91
MB90655	MB90656	2"	1.93	3.01



Male Adapter
P x MPT

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

CarbonPress[®] Male Adapter P x MPT is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress[®] Certifications

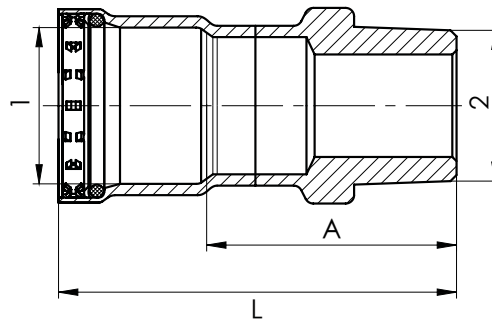
IAPMO Z 1117 (EPDM), IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

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.

Male Adapter
P x MPT

Item Number		Nominal Size		A (in)	L (in)
EPDM	HNBR	Size 1	Size 2		
MB90675	MB90676	1/2"	1/2"	1.63	2.68
MB90680	MB90681	3/4"	3/4"	1.69	2.87
MB90685	MB90686	1"	1"	1.73	3.09
MB90690	MB90691	1 1/4"	1 1/4"	2.07	3.86
MB90695	MB90696	1 1/2"	1 1/2"	2.24	4.09
MB90700	MB90701	2"	2"	2.40	4.33



Female Adapter

P x FPT



Job Name

Job Location

P.O.#

Engineer

Contractor

Wholesaler

Merit Associate

CarbonPress® Female Adapter P x FPT is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress® Certifications

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

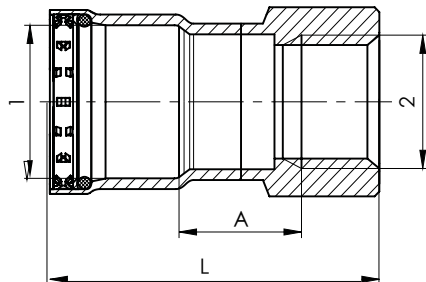
CarbonPress® Codes and Standards

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

Female Adapter

P x FPT

Item Number		Nominal Size		A (in)	L (in)
EPDM	HNBR	Size 1	Size 2		
MB90720	MB90721	1/2"	1/2"	0.83	2.52
MB90725	MB90726	3/4"	1/2"	0.98	2.83
MB90730	MB90731	3/4"	3/4"	0.87	2.72
MB90735	MB90736	1"	1/2"	1.46	3.48
MB90740	MB90741	1"	3/4"	1.08	3.05
MB90745	MB90746	1"	1"	0.91	3.05
MB90750	MB90751	1 1/4"	1/2"	1.67	4.13
MB90755	MB90756	1 1/4"	3/4"	1.67	4.13
MB90760	MB90761	1 1/4"	1"	1.16	3.74
MB90765	MB90766	1 1/4"	1 1/4"	0.96	3.72
MB90770	MB90771	1 1/2"	1/2"	1.69	4.21
MB90775	MB90776	1 1/2"	3/4"	1.69	4.21
MB90780	MB90781	1 1/2"	1"	1.73	4.37
MB90785	MB90786	1 1/2"	1 1/4"	1.10	3.94
MB90790	MB90791	1 1/2"	1 1/2"	1.06	3.90
MB90795	MB90796	2"	1/2"	1.71	4.31
MB90800	MB90801	2"	3/4"	1.71	4.31
MB90805	MB90806	2"	1"	1.75	4.47
MB90810	MB90811	2"	1 1/4"	1.67	4.57
MB90815	MB90816	2"	1 1/2"	1.46	4.37
MB90820	MB90821	2"	2"	1.20	4.15



Female Reducing Tee
P x P x FPT

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

CarbonPress[®] Female Reducing Tee P x P x FPT is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress[®] Certifications

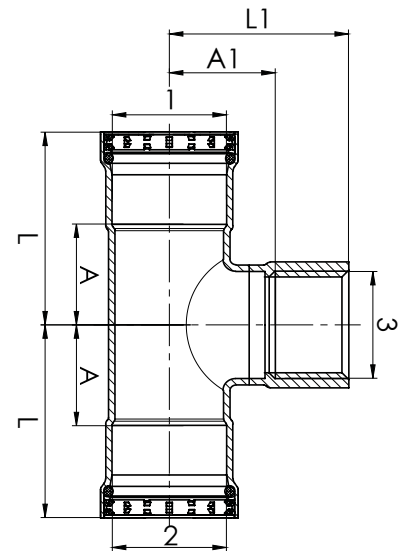
IAPMO Z 1117 (EPDM). IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

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.

Female Reducing Tee
P x P x FPT

Item Number		Nominal Size			A (in)	A1 (in)	L (in)	L1 (in)
EPDM	HNBR	Size 1	Size 2	Size 3				
MB90840	MB90841	3/4"	3/4"	1/2"	1.02	1.18	2.20	1.85
MB90843	MB90844	3/4"	3/4"	3/4"	1.02	1.18	2.20	1.85
MB90846	MB90847	1"	1"	1/2"	1.18	1.34	2.54	2.01
MB90849	MB90850	1"	1"	3/4"	1.18	1.34	2.54	2.01
MB90852	MB90853	1 1/4"	1 1/4"	1/2"	1.48	1.52	3.29	2.19
MB90855	MB90856	1 1/4"	1 1/4"	3/4"	1.48	1.52	3.29	2.19
MB90858	MB90859	1 1/4"	1 1/4"	1"	1.48	1.56	3.29	2.34
MB90861	MB90862	1 1/2"	1 1/2"	1/2"	1.61	1.61	3.46	2.28
MB90864	MB90865	1 1/2"	1 1/2"	3/4"	1.61	1.61	3.46	2.28
MB90867	MB90868	1 1/2"	1 1/2"	1"	1.61	1.65	3.46	2.44
MB90870	MB90871	1 1/2"	1 1/2"	1 1/4"	1.61	1.57	3.46	2.54
MB90873	MB90874	2"	2"	1/2"	1.93	1.91	3.86	2.58
MB90876	MB90877	2"	2"	3/4"	1.93	1.91	3.86	2.58
MB90879	MB90880	2"	2"	1"	1.93	1.95	3.86	2.74
MB90882	MB90883	2"	2"	1 1/4"	1.93	1.87	3.86	2.83
MB90885	MB90886	2"	2"	1 1/2"	1.93	1.95	3.86	2.93



Union P x P



Job Name

Job Location

P.O.#

Engineer

Contractor

Wholesaler

Merit Associate

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

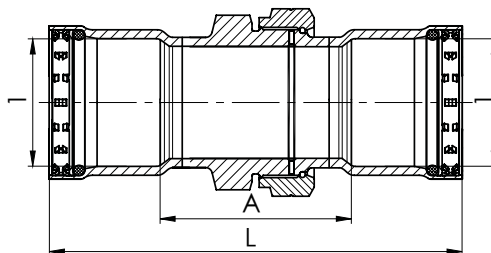
- **FIRST TO MARKET Visual Indicator Press Ring® (VIPR®)** - facilitates immediate identification of un-pressed connections.
- **Leak Before Press (LBP)** - in addition to the VIPR®, all sizes have leak before press technology, which guarantees a visual indication if the fitting is not pressed.
- **Surface 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:
 EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress® Certifications
 IAPMO Z 1117 (EPDM). 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.

Union		P x P		
Item Number		Nominal Size 1	A (in)	L (in)
EPDM	HNBR			
MB90897	MB90919	1/2"	2.81	4.88
MB90900	MB90922	3/4"	3.03	5.43
MB90903	MB90925	1"	3.31	6.02
MB90909	MB90928	1 1/4"	4.07	7.68
MB90912	MB90931	1 1/2"	4.27	7.95
MB90915	MB90934	2"	5.41	8.90



Female Union
P x FPT

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

CarbonPress® Female Union P x FPT is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

CarbonPress® Certifications

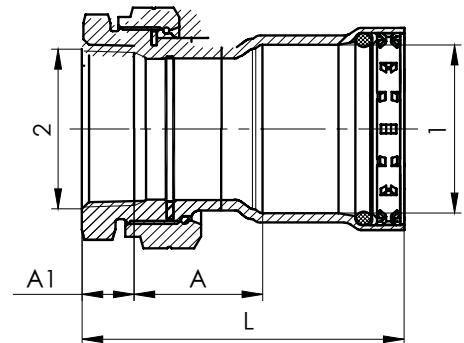
IAPMO Z 1117 (EPDM), IAPMO/ANSI LC 4/CSA 6.32 (HNBR).

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.

Female Union
P x FPT

Item Number		Nominal Size		A (in)	A1 (in)	L (in)
EPDM	HNBR	Size 1	Size 2			
MB90936	MB90955	1/2"	1/2"	1.52	0.59	2.48
MB90939	MB90958	3/4"	3/4"	1.75	0.67	2.78
MB90942	MB90961	1"	1"	1.85	0.71	3.09
MB90945	MB90964	1 1/4"	1 1/4"	2.42	0.71	4.09
MB90948	MB90967	1 1/2"	1 1/2"	2.48	0.87	4.27
MB90951	MB90970	2"	2"	2.93	1.04	4.92



Flange Adapter

P x Flange



Job Name

Job Location

P.O.#

Engineer

Contractor

Wholesaler

Merit Associate

CarbonPress® Flange Adapter P x Flange is available in sizes 1/2" - 2" with an EPDM or HNBR 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:

EPDM working pressure range from full vacuum to 250 psi (17.2 bar) for water. Working pressure range from full vacuum to 125 psi (8.6 bar) for gas.

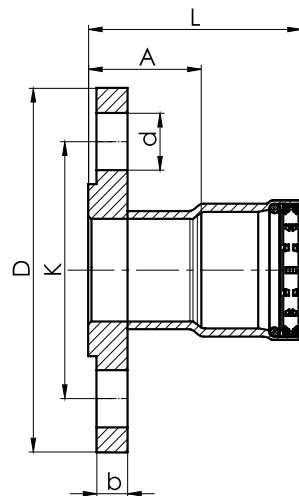
CarbonPress® Certifications

IAPMO Z 1117 (EPDM). 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.

Flange Adapter		P x Flange						
Item Number		Nominal Size 1	A (in)	L (in)	b (in)	K (in)	D (in)	d (in)
EPDM	HNBR							
MB90972	MB90973	1/2"	2.24	2.36	0.46	2.36	3.54	0.63
MB90975	MB90976	3/4"	2.60	2.76	0.52	2.76	3.94	0.63
MB90978	MB90979	1"	2.95	3.11	0.58	3.11	4.33	0.63
MB90981	MB90982	1 1/4"	2.87	3.50	0.64	3.50	4.53	0.63
MB90984	MB90985	1 1/2"	3.03	3.86	0.70	3.86	4.92	0.63
MB90987	MB90988	2"	3.19	4.76	0.77	4.76	5.91	0.75



LIMITED WARRANTY



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.



LOCATIONS

SPARKS DISTRIBUTION CENTER

200 Vista Boulevard Suite #106
Sparks, NV 89434

LONG BEACH PIPE DEPOT

2396 E. Artesia Blvd
Long Beach, CA 90805

DALLAS DISTRIBUTION CENTER

10614 King William Drive
Dallas, TX 75220

CLEVELAND HEADQUARTERS

One Merit Drive/PO Box 43127
Cleveland, OH 44143

BIRMINGHAM DISTRIBUTION CENTER

220 Oxmoor Court
Birmingham, AL 35209

HOUSTON DISTRIBUTION CENTER

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

CONTACT US



800.726.9800

contactus@meritbrass.com

LEARN MORE



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