

Find us in

**MasterSpec®**

Powered by Deltek Specpoint®

# CarbonPress®

By Merit Brass Co.

## Innovative Solutions

Driven to Provide Value to Your System



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

[www.meritbrass.com](http://www.meritbrass.com)  
[www.mbwebxpress.com](http://www.mbwebxpress.com)

# Streamlining Project Planning & Execution

Save **up to 30%** in project planning, cost & execution



Supporting Distribution Growth Strategies Through Vertical Market Relationship Building



Training at Every Stage of the Process with Your Success in Mind



Saves Time, Money & Labor

No Soldering or Burn Permit Needed. Shorter Lay Lengths for Those Tighter Spaces

# FEATURES & BENEFITS

## EPDM, HNBR & FKM

Available in Sizes 1/2" – 4". 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.



**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

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



**Corrosion Resistant Zn-Ni Plating** ensures years of trouble-free service.



# PRODUCT OFFERING

	Description	Diameter Size Range for All Sealing Element Materials IPS (Iron Pipe Size)	
		Small Diameter	
	CarbonPress® Coupling with Stop	1/2" – 4"	
	CarbonPress® Coupling w/o Stop	1/2" – 4"	
	CarbonPress® Extended Coupling w/o Stop	1/2" – 2"	
	CarbonPress® Bushing Reducer	3/4" – 4"	
	CarbonPress® Reducing Coupling	3/4" – 4"	
	CarbonPress® 90° Elbow	1/2" – 4"	
	CarbonPress® 90° Street Elbow	1/2" – 4"	
	CarbonPress® 45° Elbow	1/2" – 4"	
	CarbonPress® 45° Street Elbow	1/2" – 4"	
	CarbonPress® Equal Tee	1/2" – 4"	
	CarbonPress® Reducing Tee	1/2" – 4"	
	CarbonPress® Female Reducing Tee (P x FPT)	3/4" – 4"	
	CarbonPress® Cap	1/2" – 4"	
	CarbonPress® Male Adapter	1/2" – 4"	
	CarbonPress® Female Adapter	1/2" – 4"	
	CarbonPress® Union	1/2" – 2"	
	CarbonPress® Female Union	1/2" – 2"	
	CarbonPress® Flange Adapter	1/2" – 4"	






# APPROVED APPLICATIONS

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

Please note that all systems are recommended to be labeled clearly with the gas or fluid that is being conveyed. Additionally, please consult Merit's Engineering & Product Line Management Team for information on applications not listed and applications that are outside the temperature and pressure ranges listed above.

## SEALING ELEMENTS

EPDM SEALING ELEMENT		
EPDM	Ethylene-propylene-diene monomer	
Color	Black	
Temperature	-40°F to 300°F (-40°C to 148°C)	
Common Applications	Recommended for hot water, dilute acids, alkalis, oil free air and many chemical services. Excellent oxidation resistance. NOT FOR USE WITH HYDROCARBONS	
Manufacturing Process	Synthetically manufactured & peroxidically cross-linked	
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	Recommended for petroleum products, vegetable oils, mineral oils and air with oils. NOT FOR USE IN HOT WATER OR HOT AIR.	
Manufacturing Process	Synthetically manufactured & peroxidically cross-linked	
Benefits of Sealing Element	Excellent resilience and tear resistance	
FKM SEALING ELEMENT		
FKM	Fluoroelastomer	
Color	Brown	
Temperature	14°F to 293°F (-10°C to 145°C)	
Common Applications	Recommended for oxidizing acids, oils, hydraulic fluids, chlorinated hydrocarbons, and process water. NOT FOR USE WITH AMMONIA	
Manufacturing Process	Synthetically manufactured & peroxidically cross-linked	
Benefits of Sealing Element	Retains mechanical properties at elevated temperatures	

NOTE: The FKM Sealing Element is available Upon Request. Please contact your sales representative for more information.

# SYSTEM DATA

## CarbonPress® Codes and Standards

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

## CarbonPress® Certifications

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

## CarbonPress® Temperature & Pressure

- **Surface Protection:** Corrosion resistant Zn-Ni plating

### EPDM

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

### HNBR

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

### FKM

- **Temperature Range:** 14°F to 293°F (-10°C to 145°C)
- **Working Pressure:** 200 psi (13.7 bar) for industrial
- Available Upon Request

# TOOLING REFERENCE GUIDE

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

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

**CarbonPress®**  
By Merit Brass Co.

**CopperPress®**  
By Merit Brass Co.

**StainlessPress®**  
Isotubi-USA, By Merit Brass Co.

**MeritPress™**  
By Merit Brass Co.



## LOCATIONS

**SPARKS DISTRIBUTION CENTER**  
200 Vista Boulevard Suite #106  
Sparks, NV 89434

**LONG BEACH PIPE DEPOT**  
2396 E. Artesia Blvd  
Long Beach, CA 90805

**DALLAS DISTRIBUTION CENTER**  
10614 King William Drive  
Dallas, TX 75220

**CLEVELAND HEADQUARTERS**  
One Merit Drive/PO Box 43127  
Cleveland, OH 44143

**BIRMINGHAM DISTRIBUTION CENTER**  
220 Oxmoor Court  
Birmingham, AL 35209

**HOUSTON DISTRIBUTION CENTER**  
4680 S. Sam Houston Pkwy W, Suite 120  
Houston, TX 77053

## CONTACT US



**800.726.9800**  
contactus@meritbrass.com

LEARN MORE



Revised Jan 2024