

MISSION

PLUMBING

If we put our name on it - you can depend on it!



MISSION RUBBER COMPANY LLC



The story of Mission Rubber Company begins with Ben Bryan Garrett. In 1925, Ben founded Garrett Plumbing Co. in San Pedro, CA, servicing the residential plumbing markets throughout the South Los Angeles Basin. In 1933, during the depression, Ben saw an opportunity to expand into the underground utilities business, which included the installation of sewer and water infrastructure. This business survived, even though money was very tight during the depression. The real turning point of his career came just after WWII (*post 1945*) when Ben purchased a clay pipe factory as the Southern California economy began to revive.

Mission Rubber Company was founded in 1951 with the purpose of providing a flexible joint for clay sewer pipe and fittings. For more than 60 years, Mission Rubber Company has supplied quality, code approved products to the construction industry for the purpose of connecting, adapting, reducing, repairing or capping almost any type of pipe used in sewer and drain waste and vent applications. 100% of our products are made in the USA, and are sold in the United States and Canada through manufacturers' representatives, and internationally through distributors.

We sincerely value our relationship with our customers and appreciate your choosing to do business with Mission Rubber Company LLC. As part of our on-going effort to remain responsive to your needs, we present our catalog to give you a broad overview of the products we manufacture. You can also review our products at our website. We encourage you to discuss your needs with our trained customer service department, manufacturers' representatives or distributors. We welcome your comments and thank you for your patronage.

For information about our products or to place an order:

Toll free from anywhere in the U.S. or Canada:

Phone (800) 854-9991 • Fax (800) 637-4601

International (951) 736-1343 • Fax (951) 736-0450

www.missionrubber.com

Mail orders should be sent to:

MISSION RUBBER COMPANY LLC • P.O. Box 2349 • Corona, CA 92878-2349

Attn: Order Department

Our products are listed by major plumbing code agencies locally, nationally and internationally. Independent test reports and approvals available upon request.



Some products in this catalog are not listed with all model code agencies.
Please call Mission for specific product approval information.

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Band-Seal® Specialty Couplings

Shielded transition couplings allow you to join, adapt, reduce and repair with over 600 different connections. Sizes ¾" through 8".

9

Flex-Seal® Unshielded Sewer Couplings

An extensive line of flexible rubber couplings that connect similar and dissimilar pipe materials and sizes. Sizes 1¼" through 96".

12

Flex-Seal® Corrugated Transition Couplings

The best way to connect ribbed/corrugated profile pipe or transition to smooth wall plastic drainage pipe.

13

Flex-Seal® ARC Shielded Adjustable Repair Couplings

Where there is a need for resistance to heavy earth loads, shear forces and improved alignment.

16

Flex-Seal® Compression Joint Sealers & Home Plumb Products

Compression joint sealers for use with bell and spigot pipe. Flexible fittings and accessories for the do-it-yourself market.

18

Band-Seal® End Caps & End Caps with Hose Bibb

Flexible rubber end caps for capping pipe ends and testing. Sizes 1½" through 12".

19

Vent Cap™

Test cap that fits over a fitting or pipe that allows you to bleed excess air out of the DWV system without having to remove the end cap. Sizes 2", 3" and 4".

20

No Hub Pipe Couplings

For joining no hub cast iron soil pipe and fittings. Sizes 1½" through 15".

Mission Tite® Service Weight Gaskets

For connecting hub and spigot cast iron pipe and fittings. Sizes 2" through 15".

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HeavyWeight Couplings

For use in installations which require a more rigid joint than those provided in conventional hubless cast iron systems. Sizes 1½" through 15".

23

EZ-Test® Couplings

For testing 2", 3" and 4" cast iron DWV systems.

24

Flo-Bloc® Inflatable Test Plugs

Tools capable of handling all testing requirements from 1¼" to 6". The latest in innovative multi-size short and multi-size long test plugs.

Flo-Bloc® Accessories

Accessories for use with our line of inflatable test plugs.

25

Tee-Seals

For hydrostatic pressure testing in gravity flow threaded test tees.

T-Cone® Mechanical Stoppers

A full line of T-Cone® mechanical stoppers for testing gravity flow, non-pressure DWV and sewer systems. Sizes 1½" through 8".

26

Inside Pipe Cutting Tool

Designed for removal of broken plastic floor flanges and/or any project that calls for cutting pipe from the inside.

27

Green Certification

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Standard Pipe Sizes

Band-Seal® Specialty Couplings

100% MADE
IN THE USA

Shielded Transition Couplings join similar and dissimilar pipe sizes and pipe materials. Sizes 3/4" to 8" make almost any connection.

Features

- Meets and exceeds material and performance requirements of **ASTM C1460**
- Corrosion-resistant series 300 stainless steel components
- Creates a rigid, durable, long-lasting joint
- Internal rubber sleeve reduces noise and vibration
- Easy to assemble, disassemble and reuse
- Neoprene rubber sleeve conforms to **ASTM C564**
- Stainless steel meets **ASTM A240M**
- All specialty couplings use 5/16" hex head screws and tighten to 60 in./lbs.



CI	Cast Iron	ST	Steel
D	Duriron®	BWT	Tubular
K	Copper	TWP	Thinwall Plastic
PL	Plastic (SCH 40)	XHCI	Extra Heavy Cast Iron
S	Stainless Steel	Kimax	Kimax®

FOR JOINING CAST IRON PIPE

1½" Cast Iron to			2½" Steel			2" Plastic			2" Steel		
Join		Use Coupling									
¾"	Plastic	CK110	3"	Copper	KC32	2½"	Stainless Steel	CS425	2½"	Copper	CK425
¾"	Steel	CK110	3"	Cast Iron	C320	3"	Plastic	PC32	3"	Copper	CK43
1"	Copper	CK110	3"	Plastic	PC32	3"	Steel	PC32	3"	Cast Iron	C430
1"	Plastic	CK1125	3"	Steel	PC32	3"	Extra Heavy Cast Iron	PC32	3"	Plastic	CP43
1"	Steel	CK1125	4"	Cast Iron	C420		Cast Iron	C420	3"	Steel	CP43
1¼"	Copper	CK1125	3" Cast Iron to								
1¼"	Plastic	CK115	1¼"	Plastic	CK315	3"	Extra Heavy Cast Iron	CP43	3"	Thinwall Plastic	TWC34
1¼"	Steel	CK115	1¼"	Steel	CK315	3"	Stainless Steel	CS43	4"	Copper	CK44
1½"	Stainless Steel	CS15/125	1½"	Copper	CK315	4"	Copper	CK44	4"	Plastic	CP44
1½"	Copper	CK115	1½"	Cast Iron	C315	4"	Plastic	CP44	4"	Steel	CP44
1½"	Plastic	CP150	1½"	Plastic	C315	4"	Steel	CP44	4"	Extra Heavy Cast Iron	CP44
1½"	Steel	CP150	1½"	Steel	C315	4"	Extra Heavy Cast Iron	CP44	4"	Thinwall Plastic	TWC44
1½"	Tubular	T150	2"	Copper	CK32	5"	Cast Iron	C540	6"	Cast Iron	C640
2"	Copper	KC215	2"	Copper	CK32	5" Cast Iron to					
2"	Plastic	CP215	2"	Cast Iron	C320	3"	Cast Iron	C530	4"	Cast Iron	C540
2"	Steel	CP215	2"	Plastic	C320	4"	Cast Iron	C540	5"	Plastic	CP55
3"	Cast Iron	C315	2"	Steel	C320	5"	Plastic	CP55	5"	Steel	CP55
3"	Plastic	P315	2½"	Stainless Steel	CS325	5"	Steel	CP55	5"	Extra Heavy Cast Iron	CP55
3"	Steel	P315	2½"	Copper	CK325	6"	Extra Heavy Cast Iron	CP55	6"	Cast Iron	C650
3"	Extra Heavy Cast Iron	P315	3"	Copper	CK33	6" Cast Iron to					
			3"	Plastic	CP33	3"	Cast Iron	C630	4"	Cast Iron	C640
			3"	Steel	CP33	4"	Cast Iron	C640	5"	Cast Iron	C650
			3"	Stainless Steel	CS33	4"	Plastic	PC43	6"	Plastic	CP66
			3"	Extra Heavy Cast Iron	CP33	4"	Steel	PC43	6"	Steel	CP66
			3"	Thinwall Plastic	TWC33	4"	Extra Heavy Cast Iron	PC43	6"	Extra Heavy Cast Iron	CP66
			4"	Copper	KC43	4"	Thinwall Plastic	TWC43			
			4"	Cast Iron	C430	5"	Cast Iron	C530			
			4"	Plastic	PC43	6"	Cast Iron	C630			
			4"	Steel	PC43						
			4"	Extra Heavy Cast Iron	PC43						
			4"	Thinwall Plastic	TWC43						
			5"	Cast Iron	C530						
			6"	Cast Iron	C630						
			4" Cast Iron to								
			2"	Copper	CK42	8"	Plastic	CP88	8"	Steel	CP88
			2"	Cast Iron	C420	8"	Steel	CP88	8"	Extra Heavy Cast Iron	CP88

Band-Seal® Specialty Couplings

10" Cast Iron to

10"	Plastic	CP1010	10"	Steel	CP1010	10"	Extra Heavy Cast Iron	CP1010
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FOR JOINING EXTRA HEAVY CAST IRON PIPE

3" Extra Heavy Cast Iron to

Join	Use Coupling
1½" Cast Iron	C315
1½" Plastic	P315
1½" Steel	P315
2" Copper	PK32
2" Cast Iron	PC32
2" Plastic	PC32
2" Steel	PC32
3" Copper	PK33
3" Cast Iron	CP33
3" Plastic	P300
3" Steel	P300
3" Stainless Steel	PS33
3" Extra Heavy Cast Iron	P300
3" Thinwall Plastic	TWP33
4" Cast Iron	CP43
4" Plastic	P430

4" Steel	P430
4" Extra Heavy Cast Iron	P430
4" Thinwall Plastic	TWP43

4" Extra Heavy Cast Iron to

3" Copper	PK43
3" Cast Iron	PC43
3" Plastic	P430
3" Steel	P430
3" Extra Heavy Cast Iron	P430
3" Stainless Steel	PS43
4" Copper	PK44
4" Cast Iron	CP44
4" Plastic	P400
4" Steel	P400
4" Extra Heavy Cast Iron	P400
4" Thinwall Plastic	TWP44

5" Extra Heavy Cast Iron to

5" Cast Iron	CP55
5" Plastic	P500
5" Steel	P500
5" Extra Heavy Cast Iron	P500

6" Extra Heavy Cast Iron to

6" Cast Iron	CP66
6" Plastic	P600
6" Steel	P600
6" Extra Heavy Cast Iron	P600

8" Extra Heavy Cast Iron to

8" Cast Iron	CP88
8" Plastic	P800
8" Steel	P800
8" Extra Heavy Cast Iron	P800

FOR JOINING COPPER

¾" Copper to

Join	Use Coupling
¾" Copper (O.D. .875)	K075

1" Copper to

¾" Plastic	P075
¾" Steel	P075
1" Copper	P075
1" Plastic	P175
1" Steel	P175
1¼" Copper	P175
1½" Cast Iron	CK110
1½" Plastic	CK110
1½" Steel	CK110
2" Cast Iron	CK210

1¼" Copper to

¾" Plastic	P175
¾" Steel	P175
1" Copper	P175
1" Plastic	P100
1" Steel	P100
1¼" Copper	P100
1¼" Plastic	K1125
1½" Copper	K1125
1½" Cast Iron	CK1125
1½" Plastic	CK1125
1½" Steel	CK1125
2" Copper	K2125
2" Cast Iron	CK2125
2" Plastic	CK2125
2" Steel	CK2125

1½" Copper to

1" Plastic	K1125
1" Steel	K1125
1¼" Copper	K1125
1¼" Plastic	K150
1¼" Steel	K150
1¼" Stainless Steel	KS15/125
1½" Copper	K150
1½" Cast Iron	CK115
1½" Plastic	CK115
1½" Steel	CK115
1½" Tubular	KT150
2" Copper	K215
2" Cast Iron	CK215
2" Plastic	CK215
2" Steel	CK215
3" Cast Iron	CK315

2" Copper to

1" Plastic	K2125
1¼" Copper	K2125
1¼" Plastic	K215
1¼" Stainless Steel	KS2125
1½" Copper	K215
1½" Cast Iron	CK215
1½" Plastic	CK215
1½" Steel	CK215
1½" Tubular	KT215
2" Copper	K200
2" Cast Iron	CK22
2" Plastic	CK22
2" Steel	CK22
3" Copper	K320

3" Cast Iron	CK32
3" Plastic	PK32
3" Steel	PK32
3" Extra Heavy Cast Iron	PK32
4" Cast Iron	CK42

2½" Copper to

2½" Copper	K250
3" Cast Iron	CK325
4" Cast Iron	CK425

3" Copper to

2" Copper	K320
2" Cast Iron	CK32
2" Plastic	CK32
2" Steel	CK32
3" Copper	K300
3" Cast Iron	CK33
3" Plastic	PK33
3" Steel	PK33
3" Extra Heavy Cast Iron	PK33
4" Copper	K430
4" Cast Iron	CK43
4" Plastic	PK43
4" Steel	PK43
4" Extra Heavy Cast Iron	PK43

4" Copper to

3" Copper	K430
3" Cast Iron	CK43
4" Copper	K400
4" Cast Iron	CK44
4" Plastic	PK44
4" Steel	PK44
4" Extra Heavy Cast Iron	PK44

Band-Seal® Specialty Couplings

100% MADE



FOR JOINING THINWALL PLASTIC (Sewer & Drain)

3" Thinwall Plastic to			4" Thinwall Plastic to		
Join		Use Coupling			
3"	Cast Iron	TWC33	4"	Cast Iron	TWC34
3"	Plastic (SCH 40)	TWP33	3"	Cast Iron	TWC43
3"	Steel	TWP33	3"	Plastic (SCH 40)	TWP43
3"	Extra Heavy Cast Iron	TWP33	3"	Steel	TWP43
			3"	Extra Heavy Cast Iron	TWP43

FOR JOINING TUBULAR

1½" Tubular to					
Join		Use Coupling			
1½"	Copper	KT150	1½"	Plastic	T150
1½"	Cast Iron	T150	1½"	Steel	T150
			1½"	Tubular	BWT150
			2"	Copper	KT215
			2"	Cast Iron	T215
			2"	Plastic	T215
			2"	Steel	T215

FOR JOINING STAINLESS STEEL

1¼" Stainless Steel to			2½" Stainless Steel to		
Join		Use Coupling			
1¼"	Plastic	KS15/125	2"	Cast Iron	CS2125
1¼"	Steel	KS15/125	2"	Copper	KS2125
1¼"	Stainless Steel	CS15/125	3"	Cast Iron	CS325
1½"	Cast Iron	CS15/125	4"	Cast Iron	CS425
1½"	Copper	KS15/125			
1½"	Plastic	CS15/125	3" Stainless Steel to		
1½"	Steel	CS15/125	3"	Cast Iron	CS33
			3"	Plastic	PS33
			3"	Steel	PS33
			3"	Stainless Steel	SS33
			3"	Extra Heavy Cast Iron	PS33
			4"	Cast Iron	CS43
			4"	Plastic	PS43
			4"	Steel	PS43
			4"	Extra Heavy Cast Iron	PS43

FOR JOINING SCHEDULE 40 PLASTIC (ABS-PVC)

¾" Plastic to			1¼" Plastic to		
Join		Use Coupling			
¾"	Plastic	P075	1"	Plastic	K1125
¾"	Steel	P075	1"	Steel	K1125
¾"	Copper (IPS)	P075	1"	Copper (IPS)	K1125
1"	Copper	P075	1¼"	Copper	K1125
1"	Plastic	P175	1¼"	Plastic	K150
1"	Steel	P175	1¼"	Steel	K150
1¼"	Copper	P175	1½"	Copper	K150
1½"	Cast Iron	CK110	1½"	Cast Iron	CK115
1½"	Plastic	CK110	1½"	Plastic	CK115
1½"	Steel	CK110	1½"	Steel	CK115
			2"	Copper	K215
			2"	Cast Iron	CK215
			2"	Plastic	CK215
			2"	Steel	CK215
			3"	Cast Iron	CK315
			1½" Plastic to		
			¾"	Plastic	CK110
			¾"	Steel	CK110
			¾"	Copper	CK110
			2" Plastic to		
			1"	Plastic	CK2125
			1"	Steel	CK2125
			1"	Copper (IPS)	CK2125
			1¼"	Copper	CK2125
			1¼"	Plastic	CK215



Band-Seal® Specialty Couplings

FOR JOINING SCHEDULE 40 PLASTIC (ABS-PVC)

2" Plastic to			3" Plastic to			3" Extra Heavy Cast Iron		
Join		Use Coupling						
1 1/4"	Steel	CK215	1 1/2"	Cast Iron	C315	3"	Stainless Steel	PS43
1 1/2"	Copper	CK215	1 1/2"	Plastic	C315	4"	Copper	PK44
1 1/2"	Cast Iron	CP215	1 1/2"	Steel	C315	4"	Cast Iron	CP44
1 1/2"	Plastic	CP215	2"	Copper	PK32	4"	Plastic	P400
1 1/2"	Steel	CP215	2"	Cast Iron	PC32	4"	Steel	P400
1 1/2"	Tubular	T215	2"	Plastic	PC32	4"	Extra Heavy Cast Iron	P400
2"	Copper	CK22	2"	Steel	PC32	4"	Thinwall Plastic	TWP44
2"	Cast Iron	CP200	2 1/2"	Plastic	P3250	5" Plastic to		
2"	Plastic	CP200	2 1/2"	Steel	P3250	5"	Cast Iron	CP55
2"	Steel	CP200	3"	Copper	PK33	5"	Plastic	P500
2 1/2"	Plastic	P2250	3"	Cast Iron	CP33	5"	Steel	P500
2 1/2"	Steel	P2250	3"	Plastic	P300	5"	Extra Heavy Cast Iron	P500
3"	Copper	KC32	3"	Steel	P300	6" Plastic to		
3"	Cast Iron	C320	3"	Stainless Steel	PS33	6"	Cast Iron	CP66
3"	Plastic	PC32	3"	Extra Heavy Cast Iron	P300	6"	Plastic	P600
3"	Steel	PC32	3"	Thinwall Plastic	TWP33	6"	Steel	P600
3"	Extra Heavy Cast Iron	PC32	4"	Cast Iron	CP43	6"	Extra Heavy Cast Iron	P600
4"	Cast Iron	C420	4"	Plastic	P430	8" Plastic to		
2 1/2" Plastic to			4"	Steel	P430	8"	Cast Iron	CP88
2"	Cast Iron	P2250	4"	Extra Heavy Cast Iron	P430	8"	Plastic	P800
2"	Plastic	P2250	4"	Thinwall Plastic	TWP43	8"	Steel	P800
2 1/2"	Plastic	P250	4" Plastic to			8"	Extra Heavy Cast Iron	P800
2 1/2"	Steel	P250	3"	Copper	PK43			
3"	Plastic	P3250	3"	Cast Iron	PC43			
3"	Steel	P3250	3"	Plastic	P430			
			3"	Steel	P430			

FOR JOINING STEEL PIPE

3/4" Steel to			2" Steel to			1" Steel to		
Join		Use Coupling						
3/4"	Plastic	P075	2"	Copper	K2125	1"	Copper	CK110
3/4"	Steel	P075	2"	Cast Iron	CK2125	1"	Plastic	CK1125
3/4"	Copper (IPS)	P075	2"	Plastic	CK2125	1"	Steel	CK1125
1"	Copper	P075	2"	Steel	CK2125	1 1/4"	Copper	CK1125
1"	Plastic	P175	1 1/4" Steel to			1 1/4"	Plastic	CK115
1"	Steel	P175	1"	Plastic	K1125	1 1/4"	Steel	CK115
1 1/4"	Copper	P175	1"	Steel	K1125	1 1/4"	Stainless Steel	CS15/125
1 1/2"	Cast Iron	CK110	1"	Copper (IPS)	K1125	1 1/2"	Copper	CK115
1 1/2"	Plastic	CK110	1 1/4"	Copper	K1125	1 1/2"	Cast Iron	CP150
1 1/2"	Steel	CK110	1 1/4"	Plastic	K150	1 1/2"	Plastic	CP150
1" Steel to			1 1/4"	Steel	K150	1 1/2"	Steel	CP150
3/4"	Plastic	P175	1 1/4"	Stainless Steel	KS15/125	1 1/2"	Tubular	T150
3/4"	Steel	P175	1 1/2"	Copper	K150	2"	Copper	KC215
1"	Copper	P175	1 1/2"	Cast Iron	CK115	2"	Cast Iron	CP215
1"	Plastic	P100	1 1/2"	Plastic	CK115	2"	Plastic	CP215
1"	Steel	P100	1 1/2"	Steel	CK115	2"	Steel	CP215
1"	Copper (IPS)	P100	2"	Copper	K215	3"	Cast Iron	C315
1 1/4"	Copper	P100	2"	Cast Iron	CK215	3"	Plastic	P315
1 1/4"	Plastic	K1125	2"	Plastic	CK215	3"	Steel	P315
1 1/4"	Steel	K1125	2"	Steel	CK215	3"	Extra Heavy Cast Iron	P315
1 1/2"	Copper	K1125	3"	Cast Iron	CK315	2" Steel to		
1 1/2"	Cast Iron	CK1125	1 1/2" Steel to			1"	Plastic	CK2125
1 1/2"	Plastic	CK1125	3/4"	Plastic	CK110	1"	Steel	CK2125
1 1/2"	Steel	CK1125	3/4"	Steel	CK110	1"	Copper (IPS)	CK2125
			3/4"	Copper (IPS)	CK110	1 1/4"	Copper	CK2125

FOR JOINING STEEL PIPE

2" Steel to			3" Steel to			3" Steel to		
Join		Use Coupling						
1 1/4"	Steel	CK215	1 1/2"	Cast Iron	P315	3"	Plastic	P430
1 1/2"	Copper	CK215	1 1/2"	Plastic	P315	3"	Steel	P430
1 1/2"	Cast Iron	CP215	1 1/2"	Steel	P315	3"	Extra Heavy Cast Iron	P430
1 1/2"	Plastic	CP215	2"	Copper	PK32	3"	Stainless Steel	PS43
1 1/2"	Steel	CP215	2"	Cast Iron	PC32	4"	Copper	PK44
1 1/2"	Tubular	T215	2"	Plastic	PC32	4"	Cast Iron	CP44
2"	Copper	CK22	2"	Steel	PC32	4"	Plastic	P400
2"	Cast Iron	CP200	2 1/2"	Plastic	P3250	4"	Steel	P400
2"	Plastic	CP200	2 1/2"	Steel	P3250	4"	Extra Heavy Cast Iron	P400
2"	Steel	CP200	3"	Copper	PK33	4"	Thinwall Plastic	TWP44
3"	Copper	KC32	3"	Cast Iron	CP33	5" Steel to		
3"	Cast Iron	C320	3"	Plastic	P300	5"	Cast Iron	CP55
3"	Plastic	PC32	3"	Steel	P300	5"	Plastic	P500
3"	Steel	PC32	3"	Stainless Steel	PS33	5"	Steel	P500
3"	Extra Heavy Cast Iron	PC32	3"	Extra Heavy Cast Iron	P300	5"	Extra Heavy Cast Iron	P500
4"	Cast Iron	C420	3"	Thinwall Plastic	TWP33	6" Steel to		
2 1/2" Steel to			4"	Cast Iron	CP43	6"	Cast Iron	CP66
2"	Cast Iron	P2250	4"	Plastic	P430	6"	Plastic	P600
2"	Plastic	P2250	4"	Steel	P430	6"	Steel	P600
2 1/2"	Plastic	P250	4"	Extra Heavy Cast Iron	P430	6"	Extra Heavy Cast Iron	P600
2 1/2"	Steel	P250	4"	Thinwall Plastic	TWP43	8" Steel to		
3"	Plastic	P3250	4" Steel to			8"	Cast Iron	CP88
3"	Steel	P3250	3"	Copper	PK43	8"	Plastic	P800
			3"	Cast Iron	PC43	8"	Steel	P800
						8"	Extra Heavy Cast Iron	P800



FKM Chemical Resistant Couplings

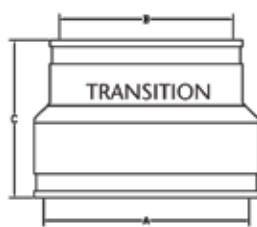
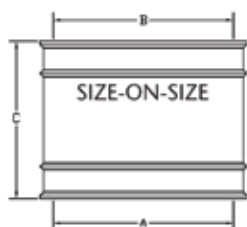
Designed to provide flexible, watertight joints on chemical drainage systems.

This range of couplings offers the chemical and process industries the advantage of a modern, mechanical jointing system for plain end cast iron, plastic, steel, glass and Duriron® pipes and fittings. They consist of a high performance fluoroelastomer (FKM) sleeve, and outer stainless steel shear ring with two AISI 301 stainless steel clamping bands.

This range of couplings is designed for use with chemically resistant pipe and fittings used for drainage applications which are commonly found in pharmaceutical plants, medical facilities, printing plants, plating processes, battery stations, pulp processing plants, chemical facilities, laboratories, film processing labs, test/research labs, beverage plants and institutional kitchens.

Part Number	Description
CP215 FKM	2" CI to 1 1/2" PL, ST or Kimax®
CP33 FKM	3" CI to 3" PL, ST or Kimax®
CP44 FKM	4" CI to 4" PL, ST or Kimax®
CP66 FKM	6" CI to 6" PL, ST or Kimax®
D200 FKM	2" Duriron® to 2" Duriron®
D300 FKM	3" Duriron® to 3" Duriron®
D400 FKM	4" Duriron® to 4" Duriron®
D600 FKM	6" Duriron® to 6" Duriron®
DC33 FKM	3" Duriron® to 3" CI
DC44 FKM	4" Duriron® to 4" CI
DP150 FKM	1 1/2" Duriron® to 1 1/2" CI, PL, ST or Kimax®
DP22 FKM	2" Duriron® to 2" CI, PL, ST or Kimax®
DP33 FKM	3" Duriron® to 3" PL, ST or Kimax®
DP44 FKM	4" Duriron® to 4" PL, ST or Kimax®
DP66 FKM	6" Duriron® to 6" CI, PL, ST or Kimax®
P150 FKM	1 1/2" CI, PL, ST or Kimax® to 1 1/2" CI, PL, ST or Kimax®
P200 FKM	2" CI, PL, ST or Kimax® to 2" CI, PL, ST or Kimax®
P300 FKM	3" PL, ST or Kimax® to 3" PL, ST or Kimax®
P400 FKM	4" PL, ST or Kimax® to 4" PL, ST or Kimax®
P600 FKM	6" PL, ST or Kimax® to 6" PL, ST or Kimax®
P800 FKM	8" PL, ST or Kimax® to 8" PL, ST or Kimax®

Flex-Seal® Unshielded Sewer Couplings



An extensive line of flexible sewer couplings that connect similar and dissimilar pipe materials and sizes. Sizes 1¼" to 96".

Features

Flexibility - Sleeve is manufactured of molded natural and synthetic rubber

Leakproof Seal - Inside surfaces of transitional size couplings are stepped to conform better to different pipe sizes

Tight Fitting - Two series 300 stainless steel worm drive clamping bands hold pipe ends securely

Corrosion Resistant - Use of stainless steel clamping bands are highly effective in a variety of environments

Withstands Tension and Compression - Blends of natural and synthetic rubbers permit a substantial degree of distortion without change in basic physical or chemical resistance unlike other manufacturers' thermoplastic coupling materials

Specifications

- Manufactured with natural and synthetic rubbers conforming to **ASTM C425** and **ASTM C1173**
- Series 300 stainless steel conforms to **ASTM A240**
- Conforms to ISO 9001 quality standards

TECHNICAL DATA SPECIFICATIONS

Property	Flex-Seal® Compound	Plasticized PVC
Ozone Resistance	A	A
Weathering, Sunlight Aging and Outdoor Use	A	A
Water Resistance	A	A
Low Temperature Flexibility	A	C
High Temperature Resistance	A	D
Animal Fat Resistance	B	D
Vegetable Oils Resistance	B	B
Ammonia	A	A
Compression Set	A	C

RATINGS: A - Excellent, B - Good, C - Fair, D - Poor

MR56 Series

Cast Iron or Plastic to Cast iron or Plastic		A		B		C
		Min.	Max.	Min.	Max.	Width
MR56 075	¾" CI/PL to ¾" CI/PL	.97	1.14	.97	1.14	2.00
MR56 100	1" CI/PL to 1" CI/PL	1.25	1.40	1.25	1.40	2.00
MR56 125	1½" Tubing, Copper or 1¼" PL to Same	1.39	1.66	1.39	1.66	2.50
MR56 15/125	1¼" CI/PL to 1½" Tubing, Copper or 1¼" PL to Same	1.81	2.00	1.81	2.00	2.50
MR56 15	1½" CI/PL to 1½" CI/PL	1.81	2.00	1.81	1.90	3.50
MR56 215	2" CI/PL to 1½" CI/PL	2.30	2.50	1.81	2.00	3.50
MR56 22/125	2" CI/PL to 1½" Tubing, Copper or 1¼" PL to Same	2.30	2.50	1.39	1.66	2.50
MR56 22	2" CI/PL to 2" CI/PL	2.30	2.50	2.30	2.50	3.50
MR56 315	3" CI/PL to 1½" CI/PL	3.25	3.50	1.81	2.00	4.00
MR56 32	3" CI/PL to 2" CI/PL	3.25	3.50	2.30	2.50	4.00
MR56 33	3" CI/PL to 3" CI/PL	3.25	3.50	3.25	3.50	4.00
MR56 415	4" CI/PL to 1½" CI/PL	4.21	4.50	1.81	2.00	4.00
MR56 42	4" CI/PL to 2" CI/PL	4.21	4.50	2.30	2.50	4.00
MR56 43	4" CI/PL to 3" CI/PL	4.21	4.50	3.25	3.50	4.00
MR56 43 Offset	4" CI/PL to 3" Eccentric	4.21	4.50	3.25	3.50	4.00
MR56 44	4" CI/PL to 4" CI/PL	4.21	4.50	4.21	4.50	4.00
MR56 53	5" CI/PL to 3" CI/PL	5.30	5.62	3.25	3.50	4.00
MR56 54	5" CI/PL to 4" CI/PL	5.30	5.62	4.21	4.50	4.00
MR56 55	5" CI/PL to 5" CI/PL	5.30	5.62	5.30	5.62	4.00
MR56 63f	6" CI/PL to 3" CI/PL	6.27	6.62	3.25	3.50	6.00
MR56 64	6" CI/PL to 4" CI/PL	6.27	6.62	4.21	4.50	6.00
MR56 65 Type O	6" Oversize CI/PL to 5" CI/PL	6.38	6.78	5.30	5.62	6.50
MR56 66	6" CI/PL to 6" CI/PL	6.27	6.62	6.27	6.62	6.00
MR56 84	8" CI/PL to 4" CI/PL	8.40	9.00	4.30	4.62	7.00
MR56 85 Type O	8" Oversize CI/PL to 5" CI/PL	8.40	9.00	5.30	5.62	7.00
MR56 86	8" CI/PL to 6" CI/PL	8.12	8.75	6.27	6.62	6.00
MR56 88	8" CI/PL to 8" CI/PL	8.12	8.62	8.12	8.62	6.00
MR56 1006 Type O	10" Oversize CI/PL to 6" CI/PL	10.40	11.00	6.35	6.70	7.00
MR56 1008	10" CI/PL to 8" CI/PL	10.20	10.80	8.12	8.75	6.50
MR56 1010	10" CI/PL to 10" CI/PL	10.20	10.80	10.20	10.80	6.50
MR56 1210	12" CI/PL to 10" CI/PL	12.20	12.80	10.20	10.80	6.50
MR56 1212	12" CI/PL to 12" CI/PL	12.20	12.80	12.20	12.80	6.50
MR56 1512f	15" CI/PL to 12" CI/PL	14.90	15.40	12.20	12.80	6.00
MR56 1515	15" TWP to 15" TWP	14.90	15.40	14.90	15.40	6.00
MR56 1616	16" PL (SCH 40) to 16" PL (SCH 40)	15.50	16.00	15.50	16.00	10.00
MR56 1815f	18" CI/PL to 15" CI/PL	18.30	18.80	14.90	15.40	10.00
MR56 1818	18" CI/PL to 18" CI/PL	18.30	18.80	18.30	18.80	10.00
MR56 2121	21" CI/PL to 21" CI/PL	21.50	22.00	21.50	22.00	10.00
MR56 2424	24" CI/PL to 24" CI/PL	24.20	24.90	24.20	24.90	10.00
MR56 2727	27" CI/PL to 27" CI/PL	27.50	28.00	27.50	28.00	10.00

f: Supplied with a flanged bushing

Flex-Seal® Unshielded Sewer Couplings

100% MADE



MR01 Series

Clay to Clay		A		B		C
		Min.	Max.	Min.	Max.	Width
MR01 44	4" CL to 4" CL	5.00	5.40	5.00	5.40	4.00
MR01 54f	5" CL to 4" CL	6.03	6.56	5.00	5.40	6.00
MR01 55	5" CL to 5" CL	6.03	6.56	6.03	6.56	6.00
MR01 64	6" CL to 4" CL	7.20	7.80	5.00	5.40	6.00
MR01 64 Type O	6" Oversize CL to 4" CL	7.50	8.12	5.00	5.40	6.00
MR01 65	6" CL to 5" CL	7.20	7.80	6.27	6.62	6.00
MR01 66	6" CL to 6" CL	7.20	7.80	7.20	7.80	6.00
MR01 86f	8" CL to 6" CL	9.40	10.00	7.20	7.80	6.00
MR01 88	8" CL to 8" CL	9.40	10.00	9.40	10.00	6.00
MR01 1008f	10" CL to 8" CL	11.85	12.45	9.40	10.00	6.00
MR01 1010	10" CL to 10" CL	11.85	12.45	11.85	12.45	6.00
MR01 1210f	12" CL to 10" CL	14.20	14.80	11.85	12.45	6.00
MR01 1212	12" CL to 12" CL	14.20	14.80	14.20	14.80	6.00
MR01 1512f	15" CL to 12" CL	17.80	18.30	14.20	14.80	6.00
MR01 1515	15" CL to 15" CL	17.80	18.30	17.80	18.30	10.00
MR01 1818	18" CL to 18" CL	21.80	22.30	21.80	22.30	10.00
MR01 2121	21" CL to 21" CL	25.50	25.90	25.50	25.90	10.00
MR01 2424	24" CL to 24" CL	29.60	30.30	29.60	30.30	10.00
MR01 2727	27" CL to 27" CL	31.80	32.50	31.80	32.50	10.00

f: Supplied with a flanged bushing

MR02 Series

Clay to Cast Iron or Plastic		A		B		C
		Min.	Max.	Min.	Max.	Width
MR02 43	4" CL to 3" CI/PL	5.00	5.40	3.25	3.50	4.00
MR02 44	4" CL to 4" CI/PL	5.00	5.40	4.21	4.50	4.00
MR02 46	4" CL to 6" CI/PL	5.00	5.40	6.27	6.62	6.00
MR02 55	5" CL to 5" CI/PL	6.27	6.62	5.30	5.62	5.00
MR02 64	6" CL to 4" CI/PL	7.20	7.80	4.21	4.50	6.00
MR02 66	6" CL to 6" CI/PL	7.20	7.80	6.27	6.62	6.00
MR02 86	8" CL to 3" CI/PL	9.40	10.00	6.27	6.62	6.00
MR02 88	8" CL to 8" CI/PL	9.40	10.00	8.25	8.62	6.00
MR02 1008f	10" CL to 8" CI/PL	11.85	12.45	8.25	8.62	6.50
MR02 1010	10" CL to 10" CI/PL	11.85	12.45	10.20	10.80	6.50
MR02 1210f	12" CL to 10" CI/PL	14.20	14.80	10.20	10.80	6.50
MR02 1212	12" CL to 12" CI/PL	14.20	14.80	12.20	12.80	6.50
MR02 1512f	15" CL to 12" CI/PL	17.80	18.30	12.20	12.80	6.00
MR02 1515	15" CL to 15" CI/PL	17.80	18.30	14.90	15.40	6.00
MR02 1818f	18" CL to 18" CI/PL	21.80	22.30	18.30	18.80	10.00
MR02 2121f	21" CL to 21" CI/PL	25.50	25.90	21.50	22.00	10.00
MR02 2424f	24" CL to 24" CI/PL	29.60	30.30	24.20	24.90	10.00
MR02 2727f	27" CL to 27" CI/PL	31.80	32.50	27.50	28.00	10.00

f: Supplied with a flanged bushing

MR03 Series

Clay to Asbestos Cement or Ductile Iron		A		B		C
		Min.	Max.	Min.	Max.	Width
MR03 44	4" CL to 4" AC/DI	5.00	5.40	4.62	4.93	4.00
MR03 54f	5" CL to 4" AC/DI	6.03	6.62	4.62	4.93	5.00
MR03 55ff	5" CL to 5" AC/DI	6.03	6.40	5.53	5.90	6.00
MR03 64f	6" CL to 4" AC/DI	7.20	7.80	4.62	4.93	6.00
MR03 65f	6" CL to 5" AC/DI	7.20	7.80	5.75	6.12	6.00
MR03 66	6" CL to 6" AC/DI	7.20	7.80	6.75	7.12	6.00
MR03 85f	8" CL to 5" AC/DI	9.40	10.00	6.03	6.40	6.00
MR03 86f	8" CL to 6" AC/DI	9.40	10.00	6.75	7.12	6.00
MR03 88	8" CL to 8" AC/DI	9.40	10.00	8.75	9.25	6.00
MR03 1008f	10" CL to 8" AC/DI	11.85	12.45	8.75	9.25	6.50
MR03 1010	10" CL to 10" AC/DI	11.85	12.45	10.70	11.20	6.50
MR03 1210f	12" CL to 10" AC/DI	14.20	14.80	10.70	11.20	6.50
MR03 1212	12" CL to 12" AC/DI	14.20	14.80	12.75	13.30	6.50
MR03 1512f	15" CL to 12" AC/DI	17.80	18.30	12.75	13.30	6.00
MR03 1516f	15" CL to 16" AC/DI	17.80	18.30	17.40	17.90	10.00
MR03 1818f	18" CL to 18" AC/DI	21.80	22.30	19.30	19.80	10.00

f: Supplied with a flanged bushing

MR04 Series

Concrete to Concrete		A		B		C
		Min.	Max.	Min.	Max.	Width
MR04 44	4" Conc to 4" Conc	5.50	6.00	5.50	6.00	4.00
MR04 64	6" Conc to 4" Conc	7.50	8.12	5.50	6.00	6.00
MR04 66	6" Conc to 6" Conc	7.50	8.12	7.50	8.12	6.00
MR04 86f	8" Conc to 6" Conc	10.00	10.50	7.50	8.12	6.00
MR04 88	8" Conc to 8" Conc	10.00	10.50	10.00	10.50	6.00
MR04 1008f	10" Conc to 8" Conc	12.30	12.80	10.00	10.50	6.00
MR04 1010	10" Conc to 10" Conc	12.30	12.80	12.30	12.80	6.00
MR04 1210f	12" Conc to 10" Conc	14.60	15.10	12.30	12.80	6.00
MR04 1212	12" Conc to 12" Conc	14.60	15.10	14.60	15.10	6.00
MR04 1515	15" Conc to 15" Conc	19.40	19.90	19.40	19.90	10.00
MR04 1818	18" Conc to 18" Conc	22.10	22.60	22.10	22.60	10.00
MR04 2121	21" Conc to 21" Conc	25.90	26.60	25.90	26.60	10.00
MR04 2424	24" Conc to 24" Conc	29.90	30.60	29.90	30.60	10.00
MR04 2727	27" Conc to 27" Conc	33.40	34.10	33.40	34.10	10.00

f: Supplied with a flanged bushing

Flex-Seal® Unshielded Sewer Couplings

MR06 Series

Concrete to Cast Iron or Plastic		A		B		C
		Min.	Max.	Min.	Max.	Width
MR06 43f	4" Conc to 3" CI/PL	5.50	6.00	3.21	3.50	4.00
MR06 44	4" Conc to 4" CI/PL	5.50	6.00	4.21	4.50	4.00
MR06 64	6" Conc to 4" CI/PL	7.50	8.12	4.21	4.50	6.00
MR06 65	6" Conc to 5" CI/PL	7.50	8.12	5.00	5.40	6.00
MR06 66	6" Conc to 6" CI/PL	7.50	8.12	6.25	6.62	6.00
MR06 86f	8" Conc to 6" CI/PL	10.00	10.50	6.25	6.62	6.00
MR06 88	8" Conc to 8" CI/PL	10.00	10.50	8.12	8.40	6.00
MR06 1008f	10" Conc to 8" CI/PL	12.55	13.20	8.12	8.75	6.00
MR06 1010	10" Conc to 10" CI/PL	12.55	13.20	10.34	10.85	6.00
MR06 1210f	12" Conc to 10" CI/PL	15.00	15.80	10.34	10.85	6.00
MR06 1212	12" Conc to 12" CI/PL	15.00	15.80	12.30	12.90	6.00
MR06 1515	15" Conc to 15" CI/PL	19.40	19.90	14.90	15.40	10.00
MR06 1818f	18" Conc to 18" CI/PL	22.10	22.60	18.30	18.80	10.00
MR06 2121f	21" Conc to 21" CI/PL	25.90	26.60	21.40	22.10	10.00
MR06 2424f	24" Conc to 24" CI/PL	29.90	30.60	24.40	25.10	10.00
MR06 2727f	27" Conc to 27" CI/PL	33.40	34.10	27.40	28.10	10.00

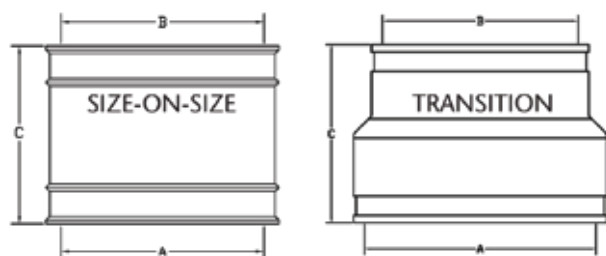
f: Supplied with a flanged bushing



MR51 Series

Asbestos Cement or Ductile Iron to Cast Iron or Plastic		A		B		C
		Min.	Max.	Min.	Max.	Width
MR51 43f	4" AC/DI to 3" CI/PL	4.62	4.93	3.25	3.50	4.00
MR51 44	4" AC/DI to 4" CI/PL	4.62	4.93	4.21	4.50	4.00
MR51 54	5" AC/DI to 4" CI/PL	5.40	5.90	4.45	4.75	4.00
MR51 54 Type O	5" AC/DI to 4" Oversize CI/PL	5.40	5.90	4.08	5.10	4.00
MR51 55f	5" AC/DI to 5" CI/PL	5.62	5.93	5.30	5.62	5.00
MR51 56	5" AC/DI to 6" CI/PL	5.62	5.93	6.25	6.62	5.80
MR51 64	6" AC/DI to 4" CI/PL	6.75	7.12	4.21	4.50	6.00
MR51 65f	6" AC/DI to 5" CI/PL	6.75	7.12	5.00	5.40	6.00
MR51 66	6" AC/DI to 6" CI/PL	6.75	7.12	6.27	6.62	6.00
MR51 86f	8" AC/DI to 6" CI/PL	8.75	9.25	6.27	6.62	6.00
MR51 88	8" AC/DI to 8" CI/PL	8.75	9.25	8.25	8.62	6.00
MR51 1008f	10" AC/DI to 8" CI/PL	10.84	11.40	8.25	8.62	6.00
MR51 1010	10" AC/DI to 10" CI/PL	10.84	11.40	10.34	10.87	6.00
MR51 1210f	12" AC/DI to 10" CI/PL	12.90	13.50	10.20	10.80	6.00
MR51 1212	12" AC/DI to 12" CI/PL	12.90	13.50	12.20	12.80	6.00
MR51 1615f	16" AC/DI to 15" CI/PL	17.40	17.90	14.90	15.40	10.00
MR51 1818f	18" AC/DI to 18" CI/PL	19.10	19.60	18.30	18.80	10.00

f: Supplied with a flanged bushing



MR55 Series

Asbestos Cement or Ductile Iron to Asbestos Cement or Ductile Iron		A		B		C
		Min.	Max.	Min.	Max.	Width
MR55 44	4" AC/DI to 4" AC/DI	4.62	4.93	4.62	4.93	4.00
MR55 54f	5" AC/DI to 4" AC/DI	5.62	5.93	4.62	4.93	6.00
MR55 55	5" AC/DI to 5" AC/DI	5.62	5.93	5.62	5.93	6.00
MR55 64	6" AC/DI to 4" AC/DI	6.75	7.12	4.62	4.93	6.00
MR55 65f	6" AC/DI to 5" AC/DI	6.75	7.12	5.62	5.93	6.00
MR55 66	6" AC/DI to 6" AC/DI	6.75	7.12	6.75	7.12	6.00
MR55 86f	8" AC/DI to 6" AC/DI	8.75	9.25	6.75	7.25	6.00
MR55 88	8" AC/DI to 8" AC/DI	8.75	9.25	8.75	9.25	6.00
MR55 1008f	10" AC/DI to 8" AC/DI	10.70	11.20	8.75	9.25	6.00
MR55 1010	10" AC/DI to 10" AC/DI	10.70	11.20	10.70	11.20	6.00
MR55 1210f	12" AC/DI to 10" AC/DI	12.90	13.50	11.30	11.80	6.00
MR55 1212	12" AC/DI to 12" AC/DI	12.90	13.50	12.90	13.50	6.00
MR55 1616	16" AC/DI to 16" AC/DI	17.40	17.90	17.40	17.90	10.00
MR55 1818	18" AC/DI to 18" AC/DI	19.10	19.60	19.10	19.60	10.00

f: Supplied with a flanged bushing

TECHNICAL DATA SPECIFICATIONS

Property	Flex-Seal® Compound	Plasticized PVC
Ozone Resistance	A	A
Weathering, Sunlight Aging and Outdoor Use	A	A
Water Resistance	A	A
Low Temperature Flexibility	A	C
High Temperature Resistance	A	D
Animal Fat Resistance	B	D
Vegetable Oils Resistance	B	B
Ammonia	A	A
Compression Set	A	C

RATINGS: A - Excellent, B - Good, C - Fair, D - Poor

Flex-Seal® Corrugated Transition Couplings

100% MADE
IN THE USA

The best way to connect ribbed/corrugated profile pipe or transition to smooth wall plastic drainage pipe.



Features

Wide Sleeve and Thick Shear Band - Ensures a positive seal

Specifications

- Manufactured with natural and synthetic rubbers conforming to **ASTM C425** and **ASTM C1173**
- Series 300 stainless steel conforms to **ASTM A240**
- Conforms to **ISO 9001** quality standards



MR70 Series

Ribbed or Corrugated to Plastic		A		B		C
		Min.	Max.	Min.	Max.	
MR70 33	3" Ribbed/Corrugated to 3" PL	3.40	3.60	3.30	3.50	4.00
MR70 44	4" Ribbed/Corrugated to 4" PL	4.60	4.80	4.20	4.50	4.00
MR70 64	6" Ribbed/Corrugated to 4" PL	6.75	7.00	4.20	4.50	6.00
MR70 66	6" Ribbed/Corrugated to 6" PL	6.75	7.00	6.30	6.50	6.00
MR70 88	8" Ribbed/Corrugated to 8" PL	9.20	9.50	8.20	8.40	6.00
MR70 1010	10" Ribbed/Corrugated to 10" PL	11.20	11.50	10.20	10.50	6.00
MR70 1212	12" Ribbed/Corrugated to 12" SDR 25/26/35 PL	14.30	14.60	12.20	12.50	10.00
MR70 1515	15" Ribbed/Corrugated to 15" SDR 26/35 PL	17.45	17.75	15.00	15.30	10.00
MR70 1818	18" Ribbed/Corrugated to 18" SDR 25 PL	20.70	21.30	18.50	19.50	10.00
MR70 2424	24" Ribbed/Corrugated to 24" SDR 25 PL	27.50	28.20	24.80	25.80	10.00
MR70 3030	30" Ribbed/Corrugated to 30" SDR 25 PL	34.60	35.60	31.00	32.00	10.00
MR70 3636	36" Ribbed/Corrugated to 36" SDR 25 PL	40.30	41.30	37.30	38.30	10.00
MR70 4242	42" Ribbed/Corrugated to 42" SDR 25 PL	47.20	48.20	43.50	44.50	10.00
MR70 4848	48" Ribbed/Corrugated to 48" SDR 25 PL	52.90	53.90	49.80	50.80	10.00



MR72 Series

Ribbed/Corrugated to Ribbed/Corrugated		Min.	Max.	Width
MR72 1010	10" ADS/Hancor/JM Eagle	11.20	11.50	6.00
MR72 1212	12" ADS/Hancor/JM Eagle	14.30	14.60	10.00
MR72 1515	15" ADS/Hancor/JM Eagle	17.45	17.75	10.00
MR72 1818	18" ADS/Hancor/JM Eagle	20.70	21.30	10.00
MR72 2424	24" ADS/Hancor/JM Eagle	27.50	28.20	10.00
MR72 3030	30" ADS/Hancor/JM Eagle	34.60	35.60	10.00
MR72 3636	36" ADS/Hancor/JM Eagle	40.30	41.30	10.00
MR72 4242	42" ADS/Hancor/JM Eagle	47.20	48.20	10.00
MR72 4848	48" ADS/Hancor/JM Eagle	52.90	53.90	10.00
MR72 6060	60" ADS/Hancor/JM Eagle	65.60	66.60	10.00



Flex-Seal® ARC Shielded Adjustable Repair Couplings



Where there is a need for resistance to heavy earth loads, shear forces and improved alignment.

Features

Stainless Steel Shear Ring - The heaviest in the industry; over 33% thicker than the competition

Sealing "O" Ring - Installed under each sealing clamp band to prevent pipe slippage and provide a more positive seal

Molded One-Piece Design for Most Popular Sizes

Corrosion Resistant - Surgical grade 316 stainless steel sealing clamps provide the greatest corrosion resistance possible

Nut and Bolt Clamp Design - Stronger than traditional worm drive design

Also Available - Worm Drive or T-Bolt clamps are available on request

Specifications

- Manufactured with natural and synthetic rubbers conforming to **ASTM C425** and **ASTM C1173**
- Series 300 stainless steel conforms to **ASTM A240**
- Conforms to **ISO 9001** quality standards

TECHNICAL DATA SPECIFICATIONS

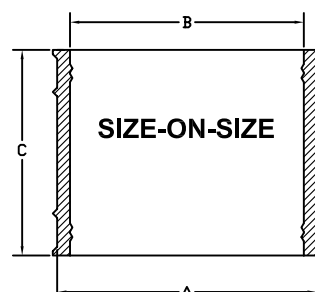
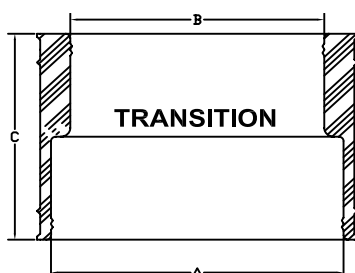
Property	Flex-Seal® Compound	Plasticized PVC
Ozone Resistance	A	A
Weathering, Sunlight Aging and Outdoor Use	A	A
Water Resistance	A	A
Low Temperature Flexibility	A	C
High Temperature Resistance	A	D
Animal Fat Resistance	B	D
Vegetable Oils Resistance	B	B
Ammonia	A	A
Compression Set	A	C

RATINGS: A - Excellent, B - Good, C - Fair, D - Poor

MR56 ARC Series

Cast Iron or Plastic to Cast iron or Plastic		A		B		C
		Min.	Max.	Min.	Max.	Width
MR56 15 ARC	1½" CI/PL to 1½" CI/PL	1.81	2.00	1.81	1.90	3.50
MR56 22 ARC	2" CI/PL to 2" CI/PL	2.30	2.50	2.30	2.50	3.50
MR56 33 ARC	3" CI/PL to 3" CI/PL	3.25	3.50	3.25	3.50	4.00
MR56 43 ARC	4" CI/PL to 3" CI/PL	4.21	4.50	3.25	3.50	4.00
MR56 44 ARC	4" CI/PL to 4" CI/PL	4.21	4.50	4.21	4.50	4.00
MR56 44 ARC XL	4" CI/PL to 4" CI/PL	4.21	4.50	4.21	4.50	6.00
MR56 54 ARC ^f	5" CI/PL to 4" CI/PL	5.30	5.62	4.21	4.50	4.00
MR56 55 ARC	5" CI/PL to 5" CI/PL	5.30	5.62	5.30	5.62	4.00
MR56 64 ARC	6" CI/PL to 4" CI/PL	6.27	6.62	4.21	4.50	6.00
MR56 65 ARC	6" CI/PL to 5" CI/PL	6.27	6.62	5.30	5.62	6.50
MR56 66 ARC	6" CI/PL to 6" CI/PL	6.27	6.62	6.27	6.62	6.00
MR56 86 ARC ^f	8" CI/PL to 6" CI/PL	8.12	8.62	6.27	6.62	6.00
MR56 88 ARC	8" CI/PL to 8" CI/PL	8.12	8.62	8.12	8.62	6.00
MR56 1008 ARC ^f	10" CI/PL to 8" CI/PL	10.20	10.80	8.12	8.75	6.50
MR56 1010 ARC	10" CI/PL to 10" CI/PL	10.20	10.80	10.20	10.80	6.50
MR56 1210 ARC ^f	12" CI/PL to 10" CI/PL	12.20	12.80	10.20	10.80	6.50
MR56 1212 ARC	12" CI/PL to 12" CI/PL	12.20	12.80	12.20	12.80	6.50
MR56 1512 ARC ^f	15" CI/PL to 12" CI/PL	14.90	15.40	12.20	12.80	6.00
MR56 1515 ARC	15" TWP to 15" TWP	14.90	15.40	14.90	15.40	6.00
MR56 1616 ARC	16" PL (SCH 40) to 16" PL (SCH 40)	15.50	16.00	15.50	16.00	10.00
MR56 1815 ARC ^f	18" CI/PL to 15" CI/PL	18.30	18.80	14.90	15.40	10.00
MR56 1818 ARC	18" CI/PL to 18" CI/PL	18.30	18.80	18.30	18.80	10.00
MR56 2121 ARC	21" CI/PL to 21" CI/PL	21.50	22.00	21.50	22.00	10.00
MR56 2424 ARC	24" CI/PL to 24" CI/PL	24.20	24.90	24.20	24.90	10.00
MR56 2727 ARC	27" CI/PL to 27" CI/PL	27.50	28.00	27.50	28.00	10.00

^f: Supplied with a flanged bushing





MR01 ARC Series

Clay to Clay		A		B		C
		Min.	Max.	Min.	Max.	Width
MR01 44 ARC	4" CL to 4" CL	5.00	5.40	5.00	5.40	4.00
MR01 54 ARC ^f	5" CL to 4" CL	6.03	6.56	5.00	5.40	6.00
MR01 55 ARC	5" CL to 5" CL	6.03	6.56	6.03	6.56	6.00
MR01 64 ARC ^f	6" CL to 4" CL	7.20	7.80	5.00	5.40	6.00
MR01 66 ARC	6" CL to 6" CL	7.20	7.80	7.20	7.80	6.00
MR01 86 ARC ^f	8" CL to 6" CL	9.40	10.00	7.20	7.80	6.00
MR01 88 ARC	8" CL to 8" CL	9.40	9.85	9.40	9.85	6.00
MR01 1008 ARC ^f	10" CL to 8" CL	11.85	12.45	9.40	10.00	6.00
MR01 1010 ARC	10" CL to 10" CL	11.85	12.45	11.85	12.45	6.00
MR01 1210 ARC ^f	12" CL to 10" CL	14.20	14.80	11.85	12.45	6.00
MR01 1212 ARC	12" CL to 12" CL	14.20	14.80	14.20	14.80	6.00
MR01 1512 ARC ^f	15" CL to 12" CL	17.80	18.30	14.20	14.80	10.00
MR01 1515 ARC	15" CL to 15" CL	17.80	18.30	17.80	18.30	10.00
MR01 1818 ARC	18" CL to 18" CL	21.80	22.30	21.80	22.30	10.00
MR01 2121 ARC	21" CL to 21" CL	25.50	25.90	25.50	25.90	10.00
MR01 2424 ARC	24" CL to 24" CL	29.60	30.30	29.60	30.30	10.00
MR01 2727 ARC	27" CL to 27" CL	31.80	32.50	31.80	32.50	10.00

f: Supplied with a flanged bushing



MR03 ARC Series

Clay to Asbestos Cement or Ductile Iron		A		B		C
		Min.	Max.	Min.	Max.	Width
MR03 44 ARC	4" CL to 4" AC/DI	5.00	5.40	4.62	4.93	4.00
MR03 54 ARC ^f	5" CL to 4" AC/DI	6.03	6.62	4.62	4.93	5.00
MR03 55 ARC ^f	5" CL to 5" AC/DI	6.03	6.40	5.53	5.90	6.00
MR03 66 ARC	6" CL to 6" AC/DI	7.20	7.80	6.75	7.12	6.00
MR03 86 ARC ^f	8" CL to 6" AC/DI	9.40	10.00	6.75	7.12	6.00
MR03 88 ARC ^f	8" CL to 8" AC/DI	9.40	10.00	8.75	9.25	6.00
MR03 1008 ARC ^f	10" CL to 8" AC/DI	11.85	12.45	8.75	9.25	6.50
MR03 1010 ARC ^f	10" CL to 10" AC/DI	11.85	12.45	10.70	11.20	6.50
MR03 1210 ARC ^f	12" CL to 10" AC/DI	14.20	14.80	10.70	11.20	6.50
MR03 1212 ARC ^f	12" CL to 12" AC/DI	14.20	14.80	12.75	13.30	6.50
MR03 1516 ARC ^f	15" CL to 16" AC/DI	17.80	18.30	17.40	17.90	10.00
MR03 1818 ARC ^f	18" CL to 18" AC/DI	21.80	22.30	19.30	19.80	10.00

f: Supplied with a flanged bushing

MR02 ARC Series

Clay to Cast Iron or Plastic		A		B		C
		Min.	Max.	Min.	Max.	Width
MR02 43 ARC	4" CL to 3" CI/PL	5.00	5.40	3.25	3.50	4.00
MR02 44 ARC	4" CL to 4" CI/PL	5.00	5.40	4.21	4.50	4.00
MR02 46 ARC ^f	4" CL to 6" CI/PL	5.00	5.40	6.27	6.62	6.00
MR02 55 ARC	5" CL to 5" CI/PL	6.03	6.56	5.30	5.64	5.00
MR02 64 ARC	6" CL to 4" CI/PL	7.20	7.80	4.21	4.50	6.00
MR02 66 ARC	6" CL to 6" CI/PL	7.20	7.80	6.27	6.62	6.00
MR02 86 ARC ^f	8" CL to 6" CI/PL	9.40	10.00	6.27	6.62	6.00
MR02 88 ARC	8" CL to 8" CI/PL	9.40	10.00	8.25	8.62	6.00
MR02 1008 ARC ^f	10" CL to 8" CI/PL	11.85	12.45	8.25	8.62	6.50
MR02 1010 ARC	10" CL to 10" CI/PL	11.85	12.45	10.20	10.80	6.50
MR02 1210 ARC ^f	12" CL to 10" CI/PL	14.20	14.80	10.20	10.80	6.50
MR02 1212 ARC	12" CL to 12" CI/PL	14.20	14.80	12.20	12.80	6.50
MR02 1515 ARC ^f	15" CL to 15" CI/PL	17.80	18.30	14.90	15.40	10.00
MR02 1818 ARC ^f	18" CL to 18" CI/PL	21.80	22.30	18.30	18.80	10.00
MR02 2121 ARC ^f	21" CL to 21" CI/PL	25.50	25.90	21.50	22.00	10.00
MR02 2424 ARC ^f	24" CL to 24" CI/PL	29.60	30.30	24.20	24.90	10.00
MR02 2727 ARC ^f	27" CL to 27" CI/PL	31.80	32.50	27.50	28.00	10.00

f: Supplied with a flanged bushing

MR04 ARC Series

Concrete to Concrete		A		B		C
		Min.	Max.	Min.	Max.	Width
MR04 44 ARC	4" Conc to 4" Conc	5.50	6.00	5.50	6.00	4.00
MR04 64 ARC ^f	6" Conc to 4" Conc	7.50	8.12	5.50	6.00	6.00
MR04 66 ARC	6" Conc to 6" Conc	7.50	8.12	7.50	8.12	6.00
MR04 86 ARC ^f	8" Conc to 6" Conc	10.00	10.50	7.50	8.12	6.00
MR04 88 ARC	8" Conc to 8" Conc	10.00	10.50	10.00	10.50	6.00
MR04 1008 ARC ^f	10" Conc to 8" Conc	12.30	12.80	10.00	10.50	6.00
MR04 1010 ARC	10" Conc to 10" Conc	12.30	12.80	12.30	12.80	6.00
MR04 1210 ARC ^f	12" Conc to 10" Conc	14.60	15.10	12.30	12.80	6.00
MR04 1212 ARC	12" Conc to 12" Conc	14.60	15.10	14.60	15.10	6.00
MR04 1515 ARC	15" Conc to 15" Conc	19.40	19.90	19.40	19.90	10.00
MR04 1818 ARC	18" Conc to 18" Conc	22.10	22.60	22.10	22.60	10.00
MR04 2121 ARC	21" Conc to 21" Conc	25.90	26.60	25.90	26.60	10.00
MR04 2424 ARC	24" Conc to 24" Conc	29.90	30.60	29.90	30.60	10.00
MR04 2727 ARC	27" Conc to 27" Conc	33.40	34.10	33.40	34.10	10.00

f: Supplied with a flanged bushing

Flex-Seal® ARC Shielded Adjustable Repair Couplings

MR06 ARC Series

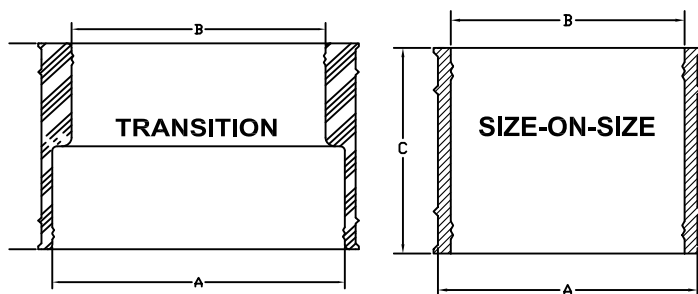
Concrete to Cast Iron or Plastic		A		B		C
		Min.	Max.	Min.	Max.	Width
MR06 43 ARC _f	4" Conc to 3" CI/PL	5.50	6.00	3.21	3.50	4.00
MR06 44 ARC	4" Conc to 4" CI/PL	5.50	6.00	4.21	4.50	4.00
MR06 64 ARC	6" Conc to 4" CI/PL	7.50	8.12	4.21	4.50	6.00
MR06 66 ARC	6" Conc to 6" CI/PL	7.50	8.12	6.25	6.62	6.00
MR06 86 ARC _f	8" Conc to 6" CI/PL	10.00	10.50	6.25	6.62	6.00
MR06 88 ARC	8" Conc to 8" CI/PL	10.00	10.50	8.12	8.40	6.00
MR06 1008 ARC _f	10" Conc to 8" CI/PL	12.30	12.80	8.12	8.75	6.00
MR06 1010 ARC _f	10" Conc to 10" CI/PL	12.30	12.80	10.34	10.85	6.00
MR06 1212 ARC _f	12" Conc to 12" CI/PL	14.60	15.10	12.30	12.90	6.00
MR06 1515 ARC _f	15" Conc to 15" CI/PL	19.40	19.90	14.90	15.40	10.00
MR06 1818 ARC _f	18" Conc to 18" CI/PL	22.10	22.60	18.30	18.80	10.00
MR06 2121 ARC _f	21" Conc to 21" CI/PL	25.90	26.60	21.40	22.10	10.00
MR06 2424 ARC _f	24" Conc to 24" CI/PL	29.90	30.60	24.40	25.10	10.00
MR06 2727 ARC _f	27" Conc to 27" CI/PL	33.40	34.10	27.40	28.10	10.00

f: Supplied with a flanged bushing

MR51 ARC Series

Asbestos Cement or Ductile Iron to Cast Iron or Plastic		A		B		C
		Min.	Max.	Min.	Max.	Width
MR51 43 ARC _f	4" AC/DI to 3" CI/PL	4.62	4.93	3.25	3.50	4.00
MR51 44 ARC _f	4" AC/DI to 4" CI/PL	4.62	4.93	4.21	4.50	4.00
MR51 54 Type Of	5" AC/DI to 4" CI/PL	5.40	5.90	4.80	5.10	4.00
MR51 55 ARC _f	5" AC/DI to 5" CI/PL	5.62	5.93	5.30	5.62	5.00
MR51 56 ARC	5" AC/DI to 6" CI/PL	5.62	5.93	6.25	6.62	5.80
MR51 66 ARC	6" AC/DI to 6" CI/PL	6.72	7.12	6.25	6.62	6.00
MR51 86 ARC _f	8" AC/DI to 6" CI/PL	8.75	9.25	6.25	6.62	6.00
MR51 88 ARC	8" AC/DI to 8" CI/PL	8.75	9.25	8.25	8.62	6.00
MR51 1008 ARC _f	10" AC/DI to 8" CI/PL	10.84	11.20	8.28	8.62	6.00
MR51 1010 ARC _f	10" AC/DI to 10" CI/PL	10.84	11.20	10.20	10.80	6.00
MR51 1210 ARC _f	12" AC/DI to 10" CI/PL	12.90	13.50	10.20	10.80	6.00
MR51 1212 ARC _f	12" AC/DI to 12" CI/PL	12.90	13.50	12.20	12.80	6.30
MR51 1615 ARC _f	16" AC/DI to 15" CI/PL	17.40	17.90	14.90	15.40	10.00
MR51 1818 ARC _f	18" AC/DI to 18" CI/PL	19.10	19.60	18.30	18.80	10.00

f: Supplied with a flanged bushing



MR55 ARC Series

Asbestos Cement or Ductile Iron to Asbestos Cement or Ductile Iron		A		B		C
		Min.	Max.	Min.	Max.	Width
MR55 44 ARC	4" AC/DI to 4" AC/DI	4.62	4.93	4.62	4.93	4.00
MR55 54 ARC _f	5" AC/DI to 4" AC/DI	5.62	5.93	4.62	4.93	6.00
MR55 55 ARC	5" AC/DI to 5" AC/DI	5.62	5.93	5.62	5.93	6.00
MR55 65 ARC _f	6" AC/DI to 5" AC/DI	6.75	7.12	5.62	5.93	6.00
MR55 66 ARC	6" AC/DI to 6" AC/DI	6.75	7.12	6.75	7.12	6.00
MR55 86 ARC _f	8" AC/DI to 6" AC/DI	8.75	9.25	6.75	7.25	6.00
MR55 88 ARC	8" AC/DI to 8" AC/DI	8.75	9.25	8.75	9.25	6.00
MR55 1008 ARC _f	10" AC/DI to 8" AC/DI	10.70	11.20	8.75	9.25	6.00
MR55 1010 ARC	10" AC/DI to 10" AC/DI	10.70	11.20	10.70	11.20	6.00
MR55 1210 ARC _f	12" AC/DI to 10" AC/DI	12.90	13.50	11.30	11.80	6.00
MR55 1212 ARC	12" AC/DI to 12" AC/DI	12.90	13.50	12.90	13.50	6.00
MR55 1616 ARC	16" AC/DI to 16" AC/DI	17.40	17.90	17.40	17.90	10.00
MR55 1818 ARC	18" AC/DI to 18" AC/DI	19.10	19.60	19.10	19.60	10.00

f: Supplied with a flanged bushing

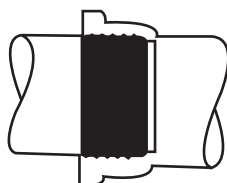
TECHNICAL DATA SPECIFICATIONS

Property	Flex-Seal® Compound	Plasticized PVC
Ozone Resistance	A	A
Weathering, Sunlight Aging and Outdoor Use	A	A
Water Resistance	A	A
Low Temperature Flexibility	A	C
High Temperature Resistance	A	D
Animal Fat Resistance	B	D
Vegetable Oils Resistance	B	B
Ammonia	A	A
Compression Set	A	C

RATINGS: A - Excellent, B - Good, C - Fair, D - Poor

COMPRESSION JOINT SEALERS

Used to join bell and spigot pipe.



CI SV Service Weight Cast Iron
CI XH Extra Heavy Cast Iron
TWP Thinwall Plastic

Other compression joint sealers available.
Call for specific information.

Part Number	Joint Sealer
MR22U 139	2" CI SV Hub to 1½" SCH 40 Plastic or Steel
MR22U 205	2" CI SV Hub to 2" SCH 40 Plastic, Steel or CI XH
MR22UX 205	2" CI XH Hub to 2" SCH 40 Plastic, Steel or CI XH
MR33U 205	3" CI SV Hub to 2" SCH 40 Plastic, Steel or CI XH
MR33U 305	3" CI SV Hub to 3" SCH 40 Plastic, Steel or CI XH
MR44U 205	4" CI SV Hub to 2" SCH 40 Plastic, Steel or CI XH
MR44U 305	4" CI SV Hub to 3" SCH 40 Plastic, Steel or CI XH
MR44U 405	4" CI Hub to 4" SCH 40 Plastic, Steel or CI XH
MR44U 401	4" CI Hub to 4" TWP or CI SV
MR44UX 305	4" CI XH Hub to 3" SCH 40 Plastic, Steel or CI XH
MR44UX 405	4" CI XH Hub to 4" SCH 40 Plastic, Steel or CI XH
MRVY408 401	4" Dickey/Mission Clay Bell to 4" TWP or CI SV
MRVY408 405	4" Dickey/Mission Clay Bell to 4" SCH 40 PL, Steel or CI XH
MRVY608 405	6" Dickey/Mission Clay Bell to 4" SCH 40 PL, Steel or CI XH
MRVY608 609	6" Dickey/Mission Clay Bell to 6" SCH 40 PL or Steel

HOME PLUMB FLEX FITTINGS

The flexible way to repair, change or replace drain/waste/vent fittings.

- Series 300 stainless steel worm drive clamps for corrosion and rust resistance
- Fittings connect plastic, cast iron, copper or steel pipe. Reducer bushings make connections to smaller sizes



Tee Fittings	
MTY 150	1½"
MTY 200	2"
MTY 300	3"
MTY 400	4"

90° Elbow Fittings		
M90L 150	1½"	90°
M90L 200	2"	90°
M90L 300	3"	90°
M90L 400	4"	90°

Bushings for Fittings	
MB 215	2" x 1½"
MB 32	3" x 2"
MB 325	3" x 2½"
MB 43	4" x 3"

O Ring	
MR 64	6" x 4"

"O" RING

Compression ring used in joining 6" inside diameter pipe to 4" cast iron, plastic (SCH 40) or steel pipe.

TOILET REPAIR FLANGE

For fast and easy repair of broken water closet flanges.

- Fits all cast iron, plastic, copper and brass water closet flanges
- Stops wobbly, leaking toilets



Part Number	Description
MRTRF	Toilet Repair Flange

56 EXP SERIES CAST IRON/PLASTIC TO CAST IRON/PLASTIC EXPANSION JOINT



Part Number	Description	Min.	Max.	Min.	Max.	Width
MR56 15EXP	1½" x 1½"	1.81	2.00	1.81	2.00	3.5
MR56 22EXP	2" x 2"	2.30	2.50	2.30	2.50	3.5
MR56 33EXP	3" x 3"	3.25	3.50	3.25	3.50	4.0
MR56 44EXP	4" x 4"	4.21	4.50	4.21	4.50	4.0



SHOWER DRAIN CONNECTORS

Part Number	Description
MSD 200	Shower Drain Connector (AB & A, Casper, Armstrong, Kohler, Intercom and Shaul)
MSD 210	Shower Drain Connector (Mustee or Owens Corning)



DRAIN PIPING TO TUBULAR TRAP - TC & DTC SERIES

Part Number	Description	Min.	Max.	Min.	Max.	Width
MRTC 150	1¼" or 1½" T/PL †	1.250	1.500	1.250	1.500	2.5
MRDTC 110	¾" or 1" K/PL to 1½" Drain Pipe	.875	1.375	1.620	1.900	2.5
MRDTC 150	1¼" or 1½" T to 1¼" or 1½" †	1.250	1.500	1.620	1.900	2.5
MRDTC 210	2" T to 1" or ¾" K/PL	2.120	2.400	.875	1.310	2.5
MRDTC 215	2" Drain Pipe to 1¼" or 1½" T	2.120	2.400	1.250	1.500	2.5

PL - Plastic **T** - Tubular
K - Copper

† Any combination of 1¼" or 1½" tubular drain pipe.



FLEXIBLE RUBBER "J" BEND

Part Number	Description	A	B
MJB 150	1¼" or 1½" Drain Pipe to 1½" Drain Pipe or Tubular Trap	1.25	1.90



DISHWASHER CONNECTOR

Part Number	Description
MRDWC 150	Dishwasher Connector



HOSE GRIP CLOTHES WASHER CONNECTOR

- Eliminates washing machine hose leaks and spills
- Flexible rubber securely holds washer drain hose to any 1½" or 2" standard laundry standpipe
- Fits most washing machine hoses sizes 1" to 1-7/16" diameters

Part Number	Description
MRHG-1	Hose Grip Connector

Band-Seal® End Caps

100% MADE
IN THE USA

Flexible rubber end caps for capping cast iron, steel, PVC and ABS pipe ends.
Sizes 1½" to 12".

Features

Strong X-Brace - Molded "X" braces end cap against head pressure encountered in testing. Axially tapered design distributes and dissipates internal stresses

Tough and Reusable - Fast and easy to use over and over, and withstands rough field handling. Series 300 stainless steel clamp may be tightened or loosened in seconds with a screwdriver or wrench

Needs No Plastic Liner - So strong it doesn't need the usual reinforcing plastic disk or liner. So easy to put on and take off that it makes an ideal permanent clean-out. Perfect protection against entry of dirt into pipe plus resists water and ozone

Tight-Fitting Internal Cone - Creates wedge against pipe inside, balancing outward strains against the restricting exterior steel band



Part Number	Description
0701 011	1½" End Cap
0702 019	2" End Cap
0703 017	3" End Cap
0704 015	4" End Cap
0705 020	5" End Cap
0706 028	6" End Cap
0708 016	8" End Cap
0710 017	10" End Cap
0712 018	12" End Cap

BAND-SEAL® END CAPS WITH HOSE BIBB

Flexible rubber end caps used for testing cast iron or Schedule 40 plastic pipe.

Features

Versatile - Permits contractors to direct the flow and drainage of water used during and after testing

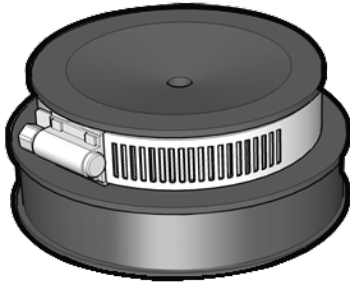
Saves Time - Eliminates need to fill DWV system from roof vent

Convenient - Handy one-piece unit

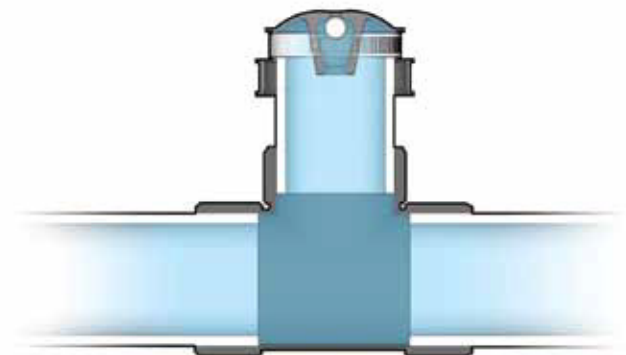
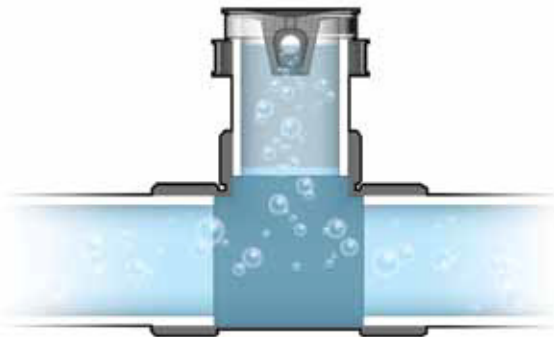
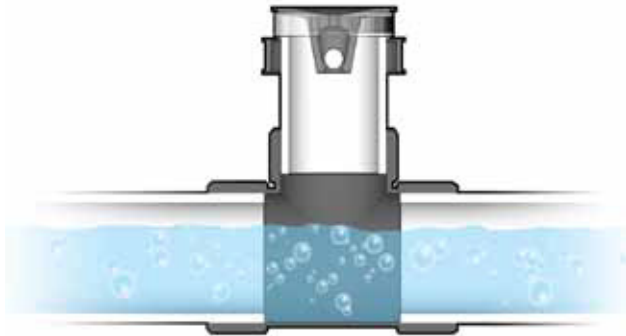


Part Number	Description
0701 516	1½" End Cap with Hose Bibb
0702 514	2" End Cap with Hose Bibb
0703 512	3" End Cap with Hose Bibb
0704 510	4" End Cap with Hose Bibb
0705 517	5" End Cap with Hose Bibb
0706 515	6" End Cap with Hose Bibb

NEW



Time and Money Saver!



Allows you to bleed excess air out of the DWV system without having to remove the end cap.

Features

- No more trapped air in soil pipe inspections
- No more failed inspections because system burps & stand pipe drops overnight
- One man soil top-out instead of 2 or 3 (Labor saver)
- No more waiting for inspections because of possible trapped air in ground work
- No more Niagra® caps blowing off
- No more Niagra® caps with nails littering the job site as puncture hazards
- No more gluing in a pipe just for cap and needing a coupling later
- Great for mid-floor tenant improvements. Prevents vent overflows which cause property damage
- Great for top-out inspections with multi-level roofs
- The only test cap that fits over a fitting or pipe

Part Number	Description
0702320	2" Vent Cap™
0703313	3" Vent Cap™
0704315	4" Vent Cap™

Inspector Pleaser!

(Confident there is no air trapped in system)



No Hub Pipe Couplings

100% MADE
IN THE USA

For joining No Hub cast iron soil pipe.
Sizes 1½" to 15".

Features

Lightweight - Easily installs with standard 60 in./lbs. torque wrench

Adaptability - Longer slots on clamping band readily adapt to varying cast iron pipe diameters

Highly Engineered - A perfect fit when joining hubless cast iron soil pipe and fittings in drain waste and vent applications

Specifications

- Meets and exceeds all material and performance requirements of **ASTM C1277**
- Conforms to **ASTM C564** and **ASTM A240**
- Meets or exceeds all **CISPI® 310** specifications
- All No Hub Couplings use 5/16" hex head screws and tighten to 60 in./lbs. of torque

MISSION TITE® SERVICE WEIGHT GASKETS

For connecting hub and spigot cast iron pipe and fittings.

- Meets **ASTM C564**
- Dual Tite and Extra Heavy Gaskets available on request



Part Number	Pipe Size	Dimensions Width (Inches)
C 150 C	1½"	2.125
C 200 C	2"	2.125
C 215 C	2" x 1½"	2.125
C 300 C	3"	2.125
C 320 C	3" x 2"	2.125
C 400 C	4"	2.125
C 420 C	4" x 2"	2.125
C 430 C	4" x 3"	2.125
C 500 C	5"	3.000
C 600 C	6"	3.000
C 800 C	8"	4.000
C 1000 C	10"	4.000
C 1200 HW	12"	5.500
C 1500 HW	15"	5.500

Part Number	Description
SW 2	2"
SW 3	3"
SW 4	4"
SW 5	5"
SW 6	6"
SW 8	8"
SW 10	10"
SW 12	12"
SW 15	15"

IMPORTANT - Dual Tite and Extra Heavy Gaskets must be ordered in case quantities.

HeavyWeight Couplings



For heavy-duty installations requiring more than a standard No Hub coupling.

Features

More Effective Joint Movement Restraint - Stainless steel strap bands are 12.5% thicker than on traditional no hub couplings providing a positive seal when properly torqued to 80 in./lbs.

Stronger, More Uniform Sealing Capacity - Axially slotted clamp bands tighten independently to accommodate most any variances in outside diameters of cast iron pipe and fittings being joined

Greater Surface Load Bearing - Wider series 304 stainless steel shield accommodates additional sealing clamps to provide for greater load bearing contact

1½" - 4" sizes: Four stainless steel bands

5" - 15" sizes: Six stainless steel bands

Higher Resistance to Shear Forces - Rugged construction, excellent sealing properties and the arrangement of intermittent corrugations in the outer stainless steel band provide resistance to shear forces and help alignment while maintaining flexibility

Corrosion Resistant - Series 304 stainless steel combined with significant deflection factor makes this coupling highly dependable above and below ground

Safe and Easy to Install - Flanged gasket helps maintain alignment during installation and tapered ends on shield reduce friction and prevent injury from sharp edges

Versatile - Internal profile of elastomeric sleeve against intermittent corrugation suits specific performance application of non-potable waste systems

Specifications

- Multiple bands attached to heavy duty, corrugated series 304 stainless steel shield meet or exceed **ASTM A240**
- Sealing rings on flanged neoprene rubber gasket meet or exceed the requirements of **ASTM C564**
- Axially slotted heavy duty worm drive clamps tightened to 80 in./lbs. of torque
- FM 1680 compliant
- ASTM C1540** approved

Test	Gasket Physical Tests (ASTM C564)	ASTM C564
Tensile Strength	1500 PSI min.	D412
Elongation	250%	D412
Durometer (Shore A)	70±5	D2240
Accelerated Aging	15% max. tensile and 20% max. elongation deterioration. 10 pts. max. increase in hardness. All determinations after oven aging for 96 hrs. at 158°F	D573
Compression Set	15% max. after 22 hrs. at 158°F	D395
Oil Immersion	80% max. volume change after immersion in IRM oil #3 for 70 hrs. at 212°F	D471
Ozone Cracking	No visible cracking at 2X magnification of the gasket after 100 hrs. exposure in 1.5 PPM ozone concentration at 100°F testing and inspection to be on gasket which is loop-mounted to give approx. 20% elongation of outer surface.	
Tear Resistance	Die C 150 lbs. max./inch of thickness	D624
Water Absorption	20% max. by weight after 7 days at 158°F	D471

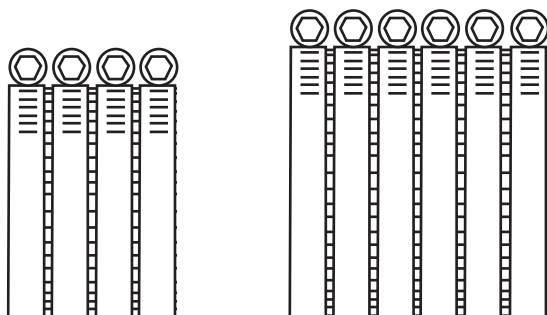
Gasket Dimensions		Part Number	Pipe Size	Dimensions Width (Inches)
D	W			
1½"	3.0	C 150 HW	1½"	3.000
2"	3.0	C 200 HW	2"	3.000
3"	3.0	C 215 HW	2" x 1½"	3.000
4"	3.0	C 300 HW	3"	3.000
5"	4.0	C 320 HW	3" x 2"	3.000
6"	4.0	C 400 HW	4"	3.000
8"	4.0	C 430 HW	4" x 3"	3.000
10"	4.0	C 500 HW	5"	4.000
12"	5.5	C 600 HW	6"	4.000
15"	5.5	C 800 HW	8"	4.000
		C 1000 HW	10"	4.000
		C 1200 HW	12"	5.500
		C 1500 HW	15"	5.500

HeavyWeight Couplings

100% MADE
IN THE USA

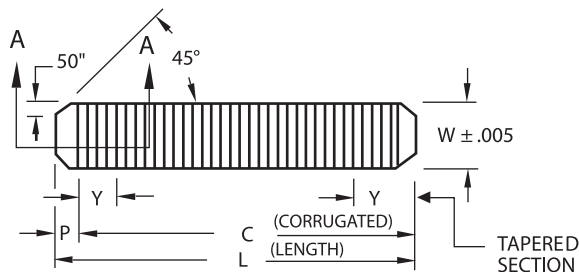


SHIELD AND CLAMP ASSEMBLY

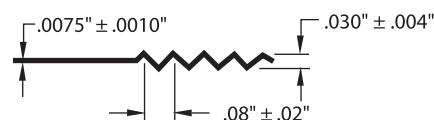


SIZES 1 1/2" THRU 4" – 4 BANDS 80 IN./LBS.
SIZES 5" THRU 15" – 6 BANDS 80 IN./LBS.

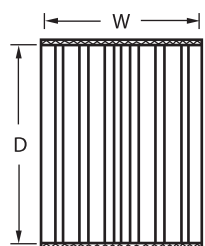
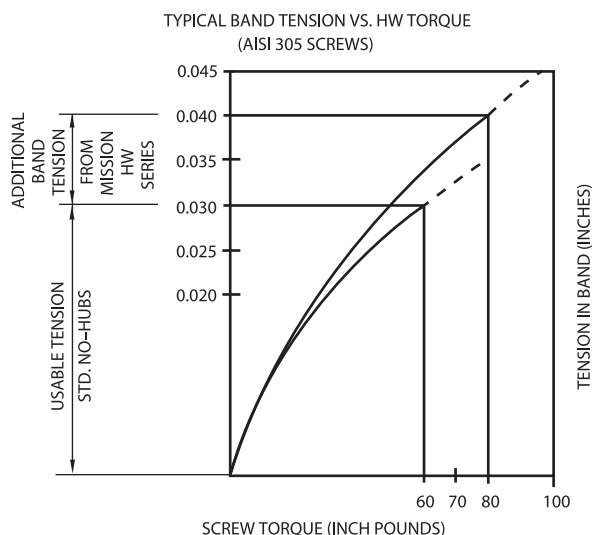
SHIELD AND CLAMP ASSEMBLY



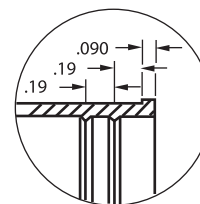
CORRUGATED SHIELD DETAIL



SECTION A-A



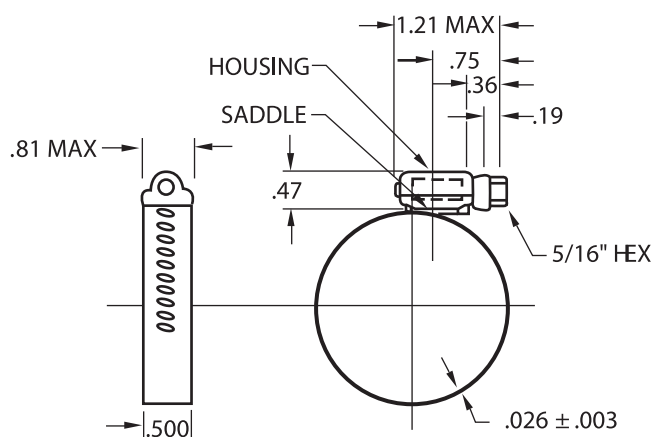
SEALING GASKET



GASKET CROSS SECTION N

SIZES 1 1/2" THRU 4" – 4 SEALING RINGS/SIDE
SIZES 5" THRU 15" – 6 SEALING RINGS/SIDE

SCREW TORQUE (INCH POUNDS)



CLAMP DETAIL

	Materials
Band	Series 304 ASTM Stainless Steel
Screw Housing	Series 304 ASTM Stainless Steel
Screw Saddle	Series 304 ASTM Stainless Steel
Screw	Series 305 ASTM Stainless Steel
Shield	Series 304 ASTM Stainless Steel
Gasket	This gasket is fabricated from a compound containing high-quality elastomeric properties to meet physical testing of ASTM C564

EZ-Test® Couplings

NEW



"Test as you go" device makes pressure testing EZ!

Features

Saves Time - Quick and easy to use (can test up to 3 floors at once).

Saves Money - Requires no expensive testing equipment.

Safe - Eliminates product liability concerns associated with the use of dangerous pneumatic test plugs.

Versatile - Can be used in a variety of testing applications (in-line testing, closet flanges, shower drains, roof drains, etc.).

Two Products in One - Plain end coupling that is also used for testing purposes.

Part Number	Description
C200 EZ	2" Cast Iron
C300 EZ	3" Cast Iron
C400 EZ	4" Cast Iron

Pressure Testing Just Got EZ!



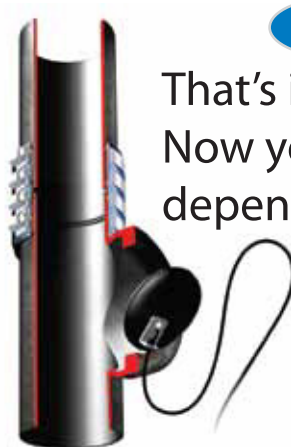
1

Run
pressure
test.



2

Pull strap,
remove
diaphragm.



3

That's it!
Now you have a
dependable Mission
Coupling.

Part Number	Description
1303011	2" Dry Cap
1303016	3" Dry Cap
1303021	4" Dry Cap
1303023	6" Dry Cap
1303025	2' - 6' Extraction Tool
1303026	6' - 10' Extraction Tool

EZ-TEST® ACCESSORIES

Dry Cap - Ensures that all the water remains in the piping system, not on the plumber.

Extraction Tool - Provides access to the fitting opening on lateral pipe lengths of 2' to 10'.

**Take a bite out of
YOUR testing costs!**



Flo-Bloc® Inflatable Test Plugs

100% MADE
IN THE USA

Engineered to handle all testing requirements from 1¼" to 6" nominal size. Only four plugs are required to seal a wide range of pipe and/or fittings (1¼" to 6" nominal diameter), making Flo-Bloc® perfect for the full spectrum of testing needs.

Features

- More options, less inventory
- Durable, rugged and effective on any type of pipe
- ¼" Schrader tire valve standard on all plugs
- All test balls are bendable to 90°
- 100% inflation tested for safety - Backed by the service and support of Mission Rubber Company

FLO-BLOC® ACCESSORIES

Hand Pump with Gauge - A durable, high pressure pump with built-in pressure gauge for proper inflation of test plugs.

Extension Hose - High pressure ¼" I.D. inflation hose with Schrader (automotive type) fitting to fit Flo-Bloc® plugs.

Accessories

Part Number	Description
HPG 1	Hand Pump with Gauge
EH 24	2' Extension Hose
EH 36	3' Extension Hose
EH 60	5' Extension Hose
EH 120	10' Extension Hose



Multi-Size Short

Part Number	Nominal Pipe Size	Rated Inflation Pressure	Maximum Allowable Back Pressure	
			Air	Water
MS 1-2	1¼" - 2"	40 psig	5 psig	30 ft. hd.
MS 2-3	2" - 3"	35 psig	5 psig	30 ft. hd.
MS 3-4	3" - 4"	40 psig	5 psig	30 ft. hd.
MS 4-6	4" - 6"	30 psig	5 psig	30 ft. hd.

Multi-Size Long

Part Number	Nominal Pipe Size	Rated Inflation Pressure	Maximum Allowable Back Pressure	
			Air	Water
ML 2-3	2" - 3"	45 psig	10 psig	30 ft. hd.
ML 3-4	3" - 4"	40 psig	10 psig	30 ft. hd.
ML 4-6	4" - 6"	35 psig	10 psig	30 ft. hd.



Part Number	Nominal Pipe Size	Rated Inflation Pressure	Maximum Allowable Back Pressure	
			Air	Water
TS-2	2"	40 psig	5 psig	30 ft. hd.
TS-3	3"	40 psig	5 psig	30 ft. hd.
TS-4	4"	40 psig	5 psig	30 ft. hd.



Part Number	Test Plugs
ST-152	1½" SCH 40 Plastic, Steel
ST-201	2" Cast Iron, SCH 80 Plastic or 1½" SCH 40 Plastic Hub
ST-202	2" SCH 40 Plastic, Steel, Copper (M and DWV)
ST-302	3" SCH 40 Plastic, Steel, Copper (DWV) or 2" SWCI Hub
ST-401	4" Clay, Copper (M)
ST-402	4" Cast Iron, SCH 40 Plastic, Steel, SDR 35 Plastic, Copper (DWV), Clay
ST-601	6" Cast Iron, SDR 35 Plastic, Copper (DWV), Clay
ST-602	6" SCH 40 Plastic, Extra Heavy Cast Iron
ST-802	8" SDR 35 Plastic, SCH 40 Plastic, Clay

TEE-SEALS

Designed for hydrostatic pressure tests in 2", 3" and 4" gravity flow threaded test tees (PVC, ABS and cast iron pipe).

Features

- Seals the branch and run portions of the tee
- No test water backslash, so plumber and job site remain dry
- Eliminates the hassle of retrieving plug from inside the pipe
- Reduces wear on plug body, resulting in longer life
- Manufactured from high quality natural rubber and tough ABS plastic

T-CONE® MECHANICAL STOPPERS

Used for testing gravity flow, non-pressure DWV and sewer systems.

Features

- Permanent seal against water and gases
- No metal parts to rust or corrode
 - Rigid plug: Reinforced polypropylene
 - Sealing ring: Thermoplastic rubber 1" to 3"
 - Polyurethane elastomer 4" to 8"
- Fewest components in the industry
- Reusable
- Easy installation and removal
- Holds high test pressures
- Economical
- Meets and exceeds **ASTM C425** requirements

Inside Pipe Cutting Tool

100% MADE
IN THE USA

Designed for removal of broken plastic floor flanges and/or any project that calls for cutting pipe from the inside.

Features

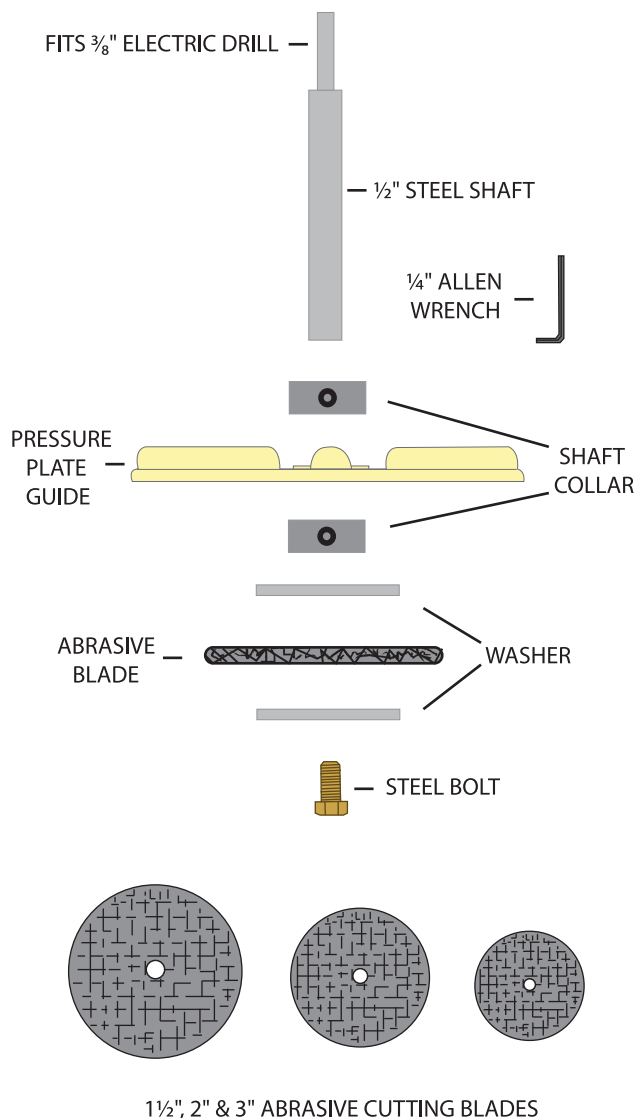
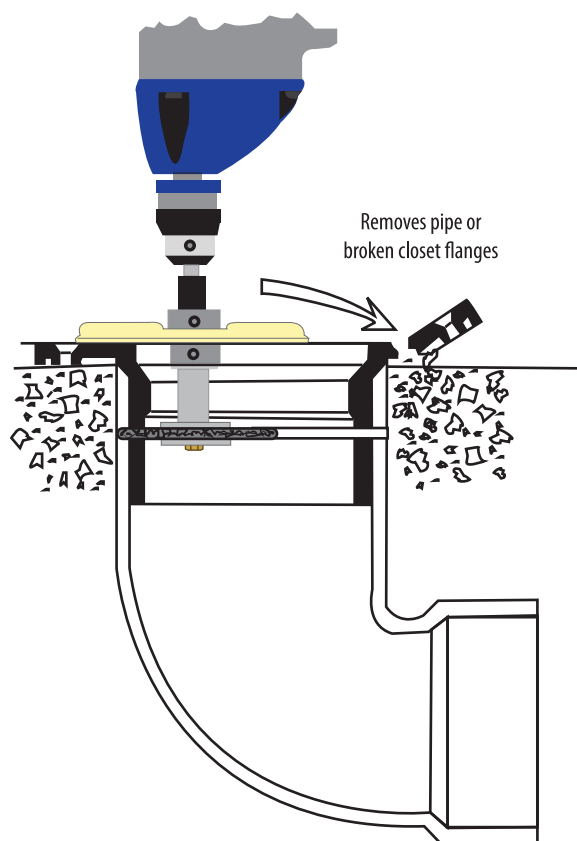
Adjustable Guide

- Lets you vary the depth of the cut
- Makes a smooth and level cut
- Prevents the tool from getting lost in the pipe in case the drill chuck becomes loose

Includes 3 Abrasive Cutting Blades (1½", 2" & 3")

- Never needs sharpening
- Replacement blades available
- Abrasive blades are safe as compared to metal sawtooth blades

No damage to blade if it contacts concrete when cutting through pipe



1½", 2" & 3" ABRASIVE CUTTING BLADES

Part Number	Description
PFC100	Inside Pipe Cutting Tool Kit
2800845	1½" Replacement Blades (3 per pack)
2800829	2" Replacement Blades (3 per pack)
2800837	3" Replacement Blades (3 per pack)



About MBDC

MBDC (McDonough Braungart Design Chemistry, LLC) is a product and process design firm dedicated to revolutionizing the design of products and services worldwide. By means of a new design paradigm called Cradle to Cradle Design, and the implementation of eco-effective design principles, MBDC has introduced a fundamental conceptual shift away from the designing of products and systems based on the take-make-waste model of the last century in which products were dumped in landfills after fulfilling their initial intended purpose ('cradle to grave'). In 'cradle to cradle' cycles materials are perpetually circulated, maximizing material value without damaging ecosystems. Cradle to Cradle focuses on the characteristics of sustainable materials, products and systems.

What is Cradle to Cradle Certification?

Cradle to Cradle Certification is a comprehensive evaluation of the environmental impact of a product and the manufacturing process. Mission Flex-Seal® and HeavyWeight products have been certified as Cradle to Cradle Silver Products by MBDC. Mission Flex-Seal® and HeavyWeight products have been evaluated for their human health, environmental health, lifecycle attributes, social responsibility, renewable energy and water stewardship characteristics against stringent certification criteria and are considered ecologically intelligent products.

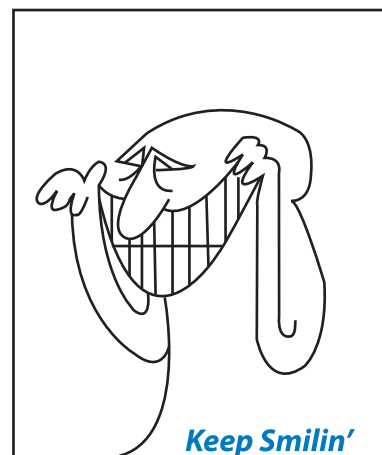


STANDARD PIPE SIZES

Materials	Outside Pipe Diameters											
	¾"	1"	1¼"	1½"	2"	3"	4"	5"	6"	8"	10"	12"
Steel	1.050	1.315	1.660	1.900	2.375	3.500	4.500	5.560	6.620	8.620	10.750	12.750
ABS/PVC Plastic (Schedule 40)	1.050	1.315	1.660	1.900	2.375	3.500	4.500	5.560	6.620	8.620	10.750	12.750
Cast Iron				1.900	2.350	3.350	4.380	5.300	6.300	8.380	10.560	12.500
Copper	.875	1.125	1.375	1.625	2.125	3.125	4.125	5.125	6.125	8.125	10.125	
Thinwall Plastic PVC (SDR 35)						3.250	4.215		6.270	8.400	10.500	12.500
Stainless Steel	.750	1.000	1.250	1.500	2.000	3.000	4.000	5.000	6.000	8.000	10.000	
Extra Heavy Cast Iron					2.380	3.500	4.500	5.500	6.500	8.620	10.750	12.750
Duriron®				2.190	2.630	3.750	4.750		6.690			
Ductile Iron							4.800		6.900	9.050	11.100	13.200
Asbestos Cement (Class 1500 - Transite)							4.810	5.900	6.920	9.020	11.120	13.220
Concrete							6.000	6.500	8.000	10.250	12.750	15.100
Clay							5.370	6.650	7.680	9.900	12.430	14.460

Limited Warranty

Mission Rubber Company LLC warrants (its) products against defects in workmanship or materials for a period of one (1) year and will replace defective product returned to it within that time period. No charges for labor or expenses required to repair defective materials or damages occasioned by them will be allowed. No warranty of merchantability or fitness for particular purpose shall apply. Mission Rubber Company LLC shall not in any case be liable for special, incidental, economical or consequential damages, and makes no other representations or warranties, whether oral or written, expressed or implied.



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www.missionrubber.com