

A 3D graphic featuring the word "MISSION" in bold, metallic, block letters. The letters are arranged in a slightly curved line and are enclosed within a thick, metallic oval ring. This graphic is positioned on a square, grid-patterned surface that appears to be a transparent or reflective plane, set against a solid blue background. The grid lines are light blue and create a perspective effect, making the surface look like a platform or a stage.

**MISSION**

**Mission Rubber Company**

*If we put our name on it – you can depend on it!*



# MISSION RUBBER COMPANY

A Division of MCP Industries, Inc.

***If we put our name on it, you can depend on it!***

For almost 50 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.

Our corporation includes four vitrified clay sewer pipe factories, a silicone hose company, a urethane company and a plastic company. Mission Rubber Company was founded in 1951 by a plumbing contractor and is currently managed by family members. Our products are sold in the United States and Canada through manufacturer's representatives, and internationally through distributors.

We sincerely value our relationships with our customers and appreciate your choosing to do business with Mission Rubber Company. 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, manufacturer's 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:

**(800) 854-9991 or Fax (800) 637-4601**

International: **(951) 736-1343 or Fax (951) 736-0481**

**[www.missionrubber.com](http://www.missionrubber.com)**

***Mail orders should be sent to:***

**MISSION RUBBER COMPANY**

**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.*

*For quick, easy, watertight and economical connections to any pipe size or material used in sewer and drain waste and vent applications, try the Mission connection with...*

## **BAND-SEAL® SPECIALTY COUPLINGS**

Shielded transition couplings allow you to join, adapt, reduce and repair with over 600 connections. In sizes 3/4" through 8".

Page 4

## **FLEX-SEAL® COUPLINGS**

Flexible rubber couplings allow any two pipes to be connected without the use of bushings. In sizes 1-1/4" through 72".

Page 6

## **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.

Page 8

## **FLEX-SEAL® ADJUSTABLE REPAIR COUPLINGS (ARC)**

Designed for underground sewer repair, these couplings are fully encased with a stainless steel shear ring to provide extra resistance to heavy earth loads and shear forces. In sizes 1-1/2" through 72", for all sewer piping materials.

Page 10

## **LARGE DIAMETER REPAIR COUPLINGS**

Custom made large diameter repair couplings to 72"; made to accommodate transitions up to a difference of 6" in outside diameters.

Page 11

## **T-FLEX® SEWER SADDLES**

Designed to make lateral service connections.

Page 12

## **BAND-SEAL® SEWER COUPLINGS & BUSHINGS**

Underground sewer couplings with an extra thick rubber sleeve can be used with or without a bushing. In sizes 3" through 12".

Page 13

## **BAND-SEAL® END CAPS & END CAPS with HOSE BIBB**

Flexible rubber end caps for capping pipe ends and testing. In sizes 1-1/2" through 12".

Page 15

## **NEW EZ-TEST™ COUPLINGS**

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

Page 16

## **NO HUB PIPE COUPLINGS**

For joining no hub cast iron soil pipe and fittings. In sizes 1-1/2" through 15".

Page 17

## **MISSION TITE® SERVICE WEIGHT GASKETS**

For joining bell & spigot cast iron soil pipe and fittings. In sizes 2" through 15".

Page 17

## **HEAVYWEIGHT COUPLINGS**

For use in installations which require a more rigid joint than those provided in conventional hubless cast iron systems. In sizes 1-1/2" through 15".

Page 18

## **FLO-BLOC® INFLATABLE TEST PLUGS**

Tools capable of handling all testing requirements from 1-1/4" to 6". The latest in innovative multi-size short and multi-size dual stage long test plugs.

Page 20

## **TEE-SEALS**

For hydrostatic pressure testing in gravity flow threaded test tees.

Page 22

## **MUNICIPAL SINGLE & MULTI-SIZE TEST PLUGS**

For sealing sewer mains and laterals.

Page 22

## **FLO-BLOC® ACCESSORIES & T-CONE® STOPPERS**

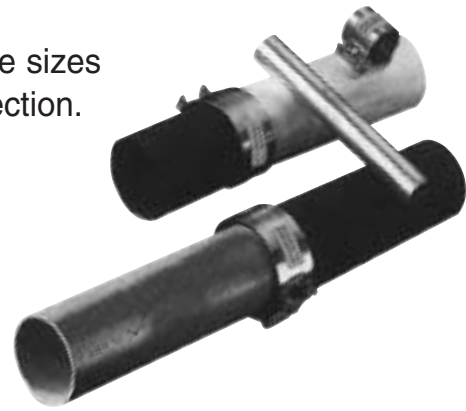
Accessories for use with our line of inflatable test plugs. A full line of T-Cone® mechanical stoppers for testing gravity flow, non-pressure DWV and sewer systems. In sizes 1-1/2" through 8".

Page 23

# Band-Seal® Specialty Couplings

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

- Meets and exceeds material and performance requirements of ASTM C 1460
- Resists shear forces while maintaining alignment
- Corrosion-resistant 300 Series 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 C 564
- Stainless steel meets ASTM M240A



- |                                |                                   |                                |
|--------------------------------|-----------------------------------|--------------------------------|
| <b>K</b> Copper                | <b>XHCI</b> Extra Heavy Cast Iron | <b>TWP</b> Thinwall Plastic    |
| <b>C</b> Cast Iron             | <b>ST</b> Steel                   | <b>BWT</b> Bathwaste Tailpiece |
| <b>S</b> Stainless Steel       | <b>D</b> Duriron®                 | Kimax®                         |
| <b>P</b> Plastic (Schedule 40) |                                   |                                |

## FOR JOINING CAST IRON PIPE

TO JOIN	USE COUPLING	TO JOIN	USE COUPLING	TO JOIN	USE COUPLING
<b>1 1/2" CAST IRON TO--</b>					
3/4"	Plastic . . . . .CK110	3"	Copper . . . . .KC32	2"	Plastic . . . . .C420
3/4"	Steel . . . . .CK110	3"	Cast Iron . . . . .C320	2"	Steel . . . . .C420
1"	Copper . . . . .CK110	3"	Plastic . . . . .PC32	2 1/2"	Stainless Steel . . . . .CS425
1"	Plastic . . . . .CK1125	3"	Steel . . . . .PC32	2 1/2"	Copper . . . . .CK425
1"	Steel . . . . .CK1125	3"	Extra Hvy Cast Iron . . . . .PC32	3"	Copper . . . . .CK43
1 1/4"	Copper . . . . .CK1125	4"	Cast Iron . . . . .C420	3"	Cast Iron . . . . .C430
1 1/4"	Plastic . . . . .CK115	<b>3" CAST IRON TO--</b>			
1 1/4"	Steel . . . . .CK115	1 1/4"	Plastic . . . . .CK315	3"	Steel . . . . .CP43
1 1/4"	Stainless Steel CS15-125	1 1/4"	Steel . . . . .CK315	3"	Steel . . . . .CP43
1 1/2"	Copper . . . . .CK115	1 1/2"	Copper . . . . .CK315	3"	Extra Hvy Cast Iron . . . . .CP43
1 1/2"	Plastic . . . . .CP150	1 1/2"	Cast Iron . . . . .C315	3"	Thinwall Plastic . . . . .TWC34
1 1/2"	Steel . . . . .CP150	1 1/2"	Steel . . . . .C315	3"	Stainless Steel . . . . .CS43
1 1/2"	Bathwaste Tailpiece T150	1 1/2"	Plastic . . . . .C315	4"	Copper . . . . .CK44
2"	Copper . . . . .KC215	1 1/2"	Steel . . . . .C315	4"	Plastic . . . . .CP44
2"	Plastic . . . . .CP215	2"	Copper . . . . .CK32	4"	Steel . . . . .CP44
2"	Steel . . . . .CP215	2"	Cast iron . . . . .C320	4"	Extra Hvy Cast Iron . . . . .CP44
3"	Cast Iron . . . . .C315	2"	Plastic . . . . .C320	4"	Thinwall Plastic . . . . .TWC44
3"	Plastic . . . . .P315	2"	Steel . . . . .C320	5"	Cast Iron . . . . .C540
3"	Steel . . . . .P315	2 1/2"	Stainless Steel . . . . .CS325	6"	Cast Iron . . . . .C640
3"	Extra Hvy Cast Iron P315	2 1/2"	Copper . . . . .CK325	<b>5" CAST IRON TO--</b>	
<b>2" CAST IRON TO--</b>					
1"	Copper . . . . .CK210	3"	Copper . . . . .CK33	3"	Cast Iron . . . . .C530
1"	Plastic . . . . .CK2125	3"	Plastic . . . . .CP33	4"	Cast Iron . . . . .C540
1"	Steel . . . . .CK2125	3"	Steel . . . . .CP33	4"	Plastic . . . . .CP55
1 1/4"	Stainless Steel . . . . .CS2125	3"	Stainless Steel . . . . .CS33	5"	Steel . . . . .CP55
1 1/4"	Copper . . . . .CK2125	3"	Extra Hvy Cast Iron . . . . .CP33	5"	Cast Iron . . . . .C650
1 1/4"	Plastic . . . . .CK215	3"	Thinwall Plastic . . . . .TWC33	5"	Extra Hvy Cast Iron . . . . .CP55
1 1/4"	Steel . . . . .CK215	4"	Copper . . . . .KC43	<b>6" CAST IRON TO--</b>	
1 1/4"	Copper . . . . .CK215	4"	Cast Iron . . . . .C430	3"	Cast Iron . . . . .C630
1 1/2"	Plastic . . . . .CP215	4"	Plastic . . . . .PC43	4"	Cast Iron . . . . .C640
1 1/2"	Steel . . . . .CP215	4"	Steel . . . . .PC43	5"	Cast Iron . . . . .C650
1 1/2"	Bathwaste Tailpiece . . . . .T215	4"	Extra Hvy Cast Iron . . . . .PC43	6"	Plastic . . . . .CP66
2"	Copper . . . . .CK22	4"	Thinwall Plastic . . . . .TWC43	6"	Steel . . . . .CP66
2"	Plastic . . . . .CP200	5"	Cast Iron . . . . .C530	6"	Extra Hvy Cast Iron . . . . .CP66
2"	Steel . . . . .CP200	6"	Cast Iron . . . . .C630	<b>8" CAST IRON TO--</b>	
2 1/2"	Plastic . . . . .P2250	2"	Copper . . . . .CK42	8"	Plastic . . . . .CP88
2 1/2"	Steel . . . . .P2250	2"	Cast Iron . . . . .C420	8"	Steel . . . . .CP88
				8"	Extra Hvy Cast Iron . . . . .CP88

## FOR JOINING EXTRA HEAVY CAST IRON PIPE

TO JOIN	USE COUPLING	TO JOIN	USE COUPLING	TO JOIN	USE COUPLING
<b>3" EXTRA HEAVY CAST IRON TO--</b>					
1 1/2"	Cast Iron . . . . .C315	4"	Steel . . . . .P430	<b>5" EXTRA HEAVY CAST IRON TO--</b>	
1 1/2"	Plastic . . . . .P315	4"	Extra Hvy Cast Iron . . . . .P430	5"	Cast Iron . . . . .CP55
1 1/2"	Steel . . . . .P315	4"	Thinwall Plastic . . . . .TWP43	5"	Plastic . . . . .P500
2"	Copper . . . . .PK32	<b>4" EXTRA HEAVY CAST IRON TO--</b>			
2"	Cast Iron . . . . .PC32	3"	Copper . . . . .PK43	6"	Cast Iron . . . . .CP66
2"	Plastic . . . . .PC32	3"	Cast Iron . . . . .PC43	6"	Plastic . . . . .P600
2"	Steel . . . . .PC32	3"	Steel . . . . .P430	6"	Steel . . . . .P600
3"	Copper . . . . .PK33	3"	Extra Hvy Cast Iron . . . . .P430	6"	Steel . . . . .P600
3"	Cast Iron . . . . .CP33	3"	Stainless Steel . . . . .PS43	<b>8" EXTRA HEAVY CAST IRON TO--</b>	
3"	Plastic . . . . .P300	4"	Copper . . . . .PK44	8"	Cast Iron . . . . .CP88
3"	Steel . . . . .P300	4"	Cast Iron . . . . .CP44	8"	Plastic . . . . .P800
3"	Stainless Steel . . . . .PS33	4"	Plastic . . . . .P400	8"	Steel . . . . .P800
3"	Extra Hvy Cast Iron . . . . .P300	4"	Steel . . . . .P400	8"	Extra Hvy Cast Iron . . . . .P800
4"	Thinwall Plastic . . . . .TWP33	4"	Extra Hvy Cast Iron . . . . .P400		
4"	Cast Iron . . . . .CP43	4"	Thinwall Plastic . . . . .TWP44		
4"	Plastic . . . . .P430				

## CHEMICAL RESISTANT COUPLINGS

Product No.	Description
<b>P 150 FKM</b>	1 1/2" CI, PL, ST, Kimax® to 1 1/2" CI, PL, ST, Kimax®
<b>P 200 FKM</b>	2" CI, PL, ST, Kimax® to 2" CI, PL, ST, Kimax®
<b>P 300 FKM</b>	3" CI, PL, ST, Kimax® to 3" CI, PL, ST, Kimax®
<b>P 400 FKM</b>	4" CI, PL, ST, Kimax® to 4" CI, PL, ST, Kimax®
<b>P 600 FKM</b>	6" PL, ST, Kimax® to 6" PL, ST, Kimax®
<b>D 200 FKM</b>	2" Duriron® to 2" Duriron®
<b>D 300 FKM</b>	3" Duriron® to 3" Duriron®
<b>D 400 FKM</b>	4" Duriron®, AC, DI to 4" Duriron®, AC, DI
<b>DC 33 FKM</b>	3" Duriron® to 3" CI
<b>DC 44 FKM</b>	4" Duriron® to 4" CI
<b>DP 150 FKM</b>	1 1/2" Duriron® to 1 1/2" CI, PL, ST, Kimax®
<b>DP 22 FKM</b>	2" Duriron® to 2" CI, PL, ST, Kimax®
<b>DP 33 FKM</b>	3" Duriron® to 3" PL, ST, Kimax®
<b>DP 44 FKM</b>	4" Duriron® to 4" PL, ST, Kimax®

## FOR JOINING COPPER

TO JOIN	USE COUPLING	TO JOIN	USE COUPLING
<b>3/4" COPPER TO--</b>			
3/4"	Copper (O.D. .875) .K075	<b>2" COPPER TO--</b>	
<b>1" COPPER TO--</b>			
3/4"	Plastic . . . . .P075	1"	Plastic . . . . .K2125
3/4"	Steel . . . . .P075	1 1/4"	Copper . . . . .K2125
1"	Copper . . . . .P075	1 1/4"	Plastic . . . . .K215
1"	Plastic . . . . .P175	1 1/4"	Steel . . . . .K215
1"	Steel . . . . .P175	1 1/4"	Stainless Steel . . . . .KS2125
1 1/4"	Copper . . . . .P175	1 1/2"	Copper . . . . .K215
1 1/2"	Cast Iron . . . . .CK110	1 1/2"	Cast Iron . . . . .KC215
1 1/2"	Plastic . . . . .CK110	1 1/2"	Plastic . . . . .KC215
1 1/2"	Steel . . . . .CK110	1 1/2"	Steel . . . . .KC215
2"	Cast Iron . . . . .CK210	1 1/2"	Bathwaste Tailpiece . . . . .KT215
<b>1 1/4" COPPER TO--</b>			
3/4"	Plastic . . . . .P175	2"	Copper . . . . .K200
3/4"	Steel . . . . .P175	2"	Cast Iron . . . . .CK22
1"	Copper . . . . .P175	2"	Plastic . . . . .CK22
1"	Plastic . . . . .P100	2"	Steel . . . . .CK22
1"	Steel . . . . .P100	3"	Copper . . . . .K320
1 1/4"	Copper . . . . .P100	3"	Cast Iron . . . . .CK32
1 1/4"	Plastic . . . . .K1125	3"	Plastic . . . . .PK32
1 1/4"	Steel . . . . .K1125	3"	Steel . . . . .PK32
1 1/2"	Copper . . . . .K1125	3"	Extra Hvy Cast Iron . . . . .PK32
1 1/2"	Cast Iron . . . . .CK1125	4"	Cast Iron . . . . .CK42
1 1/2"	Plastic . . . . .CK1125	<b>2 1/2" COPPER TO--</b>	
1 1/2"	Steel . . . . .CK1125	2 1/2"	Copper . . . . .K250
2"	Copper . . . . .K2125	3"	Cast Iron . . . . .CK325
2"	Cast Iron . . . . .CK2125	4"	Cast Iron . . . . .CK425
2"	Plastic . . . . .CK2125	<b>3" COPPER TO--</b>	
2"	Steel . . . . .CK2125	2"	Copper . . . . .K320
<b>1 1/2" COPPER TO--</b>			
1"	Plastic . . . . .K1125	2"	Cast Iron . . . . .KC32
1"	Steel . . . . .K1125	2"	Plastic . . . . .KC32
1 1/4"	Copper . . . . .K1125	2"	Steel . . . . .KC32
1 1/4"	Plastic . . . . .K150	3"	Copper . . . . .K300
1 1/4"	Steel . . . . .K150	3"	Cast Iron . . . . .CK33
1 1/4"	Stainless Steel KS15-125	3"	Plastic . . . . .PK33
1 1/2"	Copper . . . . .K150	3"	Steel . . . . .PK33
1 1/2"	Cast Iron . . . . .CK115	3"	Extra Hvy Cast Iron . . . . .PK33
1 1/2"	Steel . . . . .CK115	4"	Copper . . . . .K430
1 1/2"	Plastic . . . . .CK115	4"	Cast Iron . . . . .CK43
1 1/2"	Steel . . . . .CK115	4"	Plastic . . . . .PK43
1 1/2"	Bathwaste Tailpiece . . . . .KT150	4"	Steel . . . . .PK43
2"	Copper . . . . .K215	4"	Extra Hvy Cast Iron . . . . .PK43
2"	Cast Iron . . . . .CK215	<b>4" COPPER TO--</b>	
2"	Plastic . . . . .CK215	3"	Copper . . . . .K430
2"	Steel . . . . .CK215	3"	Cast Iron . . . . .KC43
2"	Steel . . . . .CK215	3"	Copper . . . . .K400
3"	Cast Iron . . . . .CK315	4"	Cast Iron . . . . .CK44
		4"	Plastic . . . . .PK44
		4"	Steel . . . . .PK44
		4"	Extra Hvy Cast Iron . . . . .PK44



### FOR JOINING THINWALL PLASTIC (Sewer & Drain)

TO JOIN	USE COUPLING
<b>3" THINWALL PLASTIC TO-</b>	
3" Cast Iron	TWC33
3" Plastic (Sch. 40)	TWP33
3" Steel	TWP33
3" Extra Hvy Cast Iron	TWP33
4" Cast Iron	TWC34
<b>4" THINWALL PLASTIC TO-</b>	
3" Cast Iron	TWC43
3" Plastic (Sch. 40)	TWP43
3" Steel	TWP43
3" Extra Hvy Cast Iron	TWP43
4" Cast Iron	TWC44
4" Plastic (Sch. 40)	TWP44
4" Steel	TWP44
4" Extra Hvy Cast Iron	TWP44

### FOR JOINING BATHWASTE TAILPIECE

TO JOIN	USE COUPLING
<b>1 1/2" BATHWASTE TAILPIECE TO-</b>	
1 1/2" Copper	KT150
1 1/2" Cast Iron	T150
1 1/2" Plastic	T150
1 1/2" Steel	T150
1 1/2" Bathwaste Tailpce.	BWT150
2" Copper	KT215
2" Cast Iron	T215
2" Plastic	T215
2" Steel	T215

### FOR JOINING STAINLESS STEEL

TO JOIN	USE COUPLING
<b>1 1/4" STAINLESS STEEL TO-</b>	
1 1/4" Plastic	KS15/125
1 1/4" Steel	KS15/125
1 1/4" Stainless Steel	CS15/125
1 1/2" Cast Iron	CS15/125
1 1/2" Copper	KS15/125
1 1/2" Plastic	CS15/125
1 1/2" Steel	CS15/125
2" Cast Iron	CS2125
2" Copper	KS2125
<b>2 1/2" STAINLESS STEEL TO-</b>	
3" Cast Iron	CS325
4" Cast Iron	CS425
<b>3" STAINLESS STEEL TO-</b>	
3" Cast Iron	CS33
3" Plastic	PS33
3" Steel	PS33
3" Stainless Steel	SS33
3" Extra Hvy Cast Iron	PS33
4" Cast Iron	CS43
4" Plastic	PS43
4" Steel	PS43
4" Extra Hvy Cast Iron	PS43

Materials	OUTSIDE PIPE DIAMETERS									
	3/4"	1"	1-1/4"	1-1/2"	2"	3"	4"	5"	6"	8"
Steel	1.050	1.315	1.660	1.900	2.375	3.500	4.500	5.560	6.620	8.620
ABS/PVC Plastic (Sched. 40)	1.050	1.315	1.660	1.900	2.375	3.500	4.500	5.560	6.620	8.620
Cast Iron				1.900	2.35	3.350	4.380	5.300	6.300	8.380
Copper	.875	1.125	1.375	1.625	2.125	3.125	4.125	5.125	6.125	8.125
Thinwall Plastic (Sewer & Drain)						3.250	4.215	5.300	6.270	8.160
Stainless Steel	.750	1.000	1.250	1.500	2.000	3.000	4.000	5.000	6.000	8.000
Extra Heavy Cast Iron					2.380	3.500	4.500	5.500	6.500	8.620
Duriron®				2.190	2.630	3.750	4.750			

### FOR JOINING SCHEDULE 40 PLASTIC (ABS-PVC)

TO JOIN	USE COUPLING	TO JOIN	USE COUPLING
<b>3/4" PLASTIC TO-</b>			
3/4" Plastic	P075	1 1/2" Copper	CK215
3/4" Steel	P075	1 1/2" Cast Iron	CP215
3/4" Copper (IPS)	P075	1 1/2" Plastic	CP215
1" Copper	P075	1 1/2" Steel	CP215
1" Plastic	P175	1 1/2" Bathwaste Tailpiece	T215
1" Steel	P175	2" Copper	CK22
1 1/4" Copper	P175	2" Cast Iron	CP200
1 1/2" Cast Iron	CK110	2" Plastic	CP200
1 1/2" Plastic	CK110	2" Steel	CP200
1 1/2" Steel	CK110	2 1/2" Plastic	P2250
<b>1" PLASTIC TO-</b>			
3/4" Plastic	P175	2 1/2" Steel	P2250
3/4" Steel	P175	3" Copper	KC32
1" Copper	P175	3" Cast Iron	C320
1" Plastic	P100	3" Plastic	PC32
1" Copper (IPS)	P100	3" Steel	PC32
1" Steel	P100	3" Extra Hvy Cast Iron	PC32
1 1/4" Copper	P100	4" Cast Iron	C420
1 1/4" Plastic	K1125	<b>2 1/2" PLASTIC TO-</b>	
1 1/4" Steel	K1125	2" Cast Iron	P2250
1 1/2" Copper	K1125	2" Plastic	P2250
1 1/2" Cast Iron	CK1125	2 1/2" Plastic	P250
1 1/2" Plastic	CK1125	2 1/2" Steel	P250
1 1/2" Steel	CK1125	3" Plastic	P3250
2" Copper	K2125	3" Steel	P3250
2" Plastic	CK2125	<b>3" PLASTIC TO-</b>	
2" Steel	CK2125	1 1/2" Cast Iron	C315
2" Cast Iron	CK2125	1 1/2" Plastic	C315
<b>1 1/4" PLASTIC TO-</b>			
1" Plastic	K1125	1 1/2" Steel	C315
1" Steel	K1125	2" Copper	PK32
1" Copper (IPS)	K1125	2" Cast Iron	PC32
1 1/4" Copper	K1125	2" Plastic	PC32
1 1/4" Plastic	K150	2" Steel	PC32
1 1/4" Steel	K150	2 1/2" Plastic	P3250
1 1/4" Stainless Steel	KS15-125	2 1/2" Steel	P3250
1 1/2" Copper	K150	3" Copper	PK33
1 1/2" Cast Iron	CK115	3" Cast Iron	CP33
1 1/2" Plastic	CK115	3" Plastic	P300
1 1/2" Steel	CK115	3" Steel	P300
2" Copper	K215	3" Stainless Steel	PS33
2" Cast Iron	CK215	3" Extra Heavy Cast Iron	PC300
2" Plastic	CK215	3" Thinwall Plastic	TWP33
2" Steel	CK215	4" Cast Iron	CP43
3" Cast Iron	CK315	4" Plastic	P430
<b>1 1/2" PLASTIC TO-</b>			
3/4" Plastic	CK110	4" Steel	P430
3/4" Steel	CK110	4" Extra Heavy Cast Iron	P430
3/4" Copper (IPS)	CK110	4" Thinwall Plastic	TWP43
1" Copper	CK110	<b>4" PLASTIC TO-</b>	
1" Plastic	CK1125	3" Copper	PK43
1" Steel	CK1125	3" Cast Iron	P430
1 1/4" Copper	CK1125	3" Plastic	P430
1 1/4" Plastic	CK1125	3" Steel	P430
1 1/4" Steel	CK1125	3" Extra Hvy Cast Iron	P430
1 1/4" Stainless Steel	CS15-125	3" Stainless Steel	PS43
1 1/2" Copper	CK115	4" Copper	PK44
1 1/2" Cast Iron	CK115	4" Cast Iron	CP44
1 1/4" Stainless Steel	CS15-125	4" Plastic	P400
1 1/2" Copper	CK115	4" Steel	P400
1 1/2" Cast Iron	CP150	4" Extra Hvy Cast Iron	P400
1 1/2" Plastic	CP150	4" Thinwall Plastic	TWP44
1 1/2" Steel	CP150	<b>5" PLASTIC TO-</b>	
1 1/2" Bathwaste Tailpiece	T150	5" Cast Iron	CP55
2" Cast Iron	CP215	5" Plastic	P500
2" Copper	KC215	5" Steel	P500
2" Plastic	CP215	5" Extra Hvy Cast Iron	P500
2" Steel	CP215	<b>6" PLASTIC TO-</b>	
3" Cast Iron	C315	6" Cast Iron	CP66
3" Plastic	P315	6" Plastic	P600
3" Steel	P315	6" Steel	P600
3" Extra Hvy Cast Iron	P315	6" Extra Hvy Cast Iron	P600
<b>2" PLASTIC TO-</b>			
1" Plastic	CK2125	<b>8" PLASTIC TO-</b>	
1" Steel	CK2125	8" Cast Iron	CP88
1" Copper (IPS)	CK2125	8" Plastic	P800
1 1/4" Copper	CK2125	8" Steel	P800
1 1/4" Plastic	CK215	8" Extra Hvy Cast Iron	P800
1 1/4" Steel	CK215	<b>2" STEEL TO-</b>	

### FOR JOINING STEEL PIPE

TO JOIN	USE COUPLING	TO JOIN	USE COUPLING
<b>3/4" STEEL TO-</b>			
3/4" Plastic	P075	1 1/4" Steel	CK215
3/4" Steel	P075	1 1/2" Copper	CK215
3/4" Copper (IPS)	P075	1 1/2" Cast Iron	CP215
1" Copper	P075	1 1/2" Plastic	CP215
1" Plastic	P175	1 1/2" Steel	CP215
1" Steel	P175	1 1/2" Bathwaste Tailpiece	T215
1 1/4" Copper	P175	2" Copper	CK22
1 1/2" Cast Iron	CK110	2" Cast Iron	CP200
1 1/2" Plastic	CK110	2" Plastic	CP200
1 1/2" Steel	CK110	2" Steel	CP200
<b>1" STEEL TO-</b>			
3/4" Plastic	P175	3" Copper	KC32
3/4" Steel	P175	3" Cast Iron	C320
1" Copper	P175	3" Plastic	PC32
1" Plastic	P100	3" Steel	PC32
1" Steel	P100	3" Extra Hvy Cast Iron	PC32
1" Copper (IPS)	P100	4" Cast Iron	C420
1 1/4" Copper	P100	<b>2 1/2" STEEL TO-</b>	
1 1/4" Plastic	K1125	2" Cast Iron	P2250
1 1/4" Steel	K1125	2" Plastic	P2250
1 1/2" Copper	K1125	2 1/2" Plastic	P250
1 1/2" Cast Iron	CK1125	2 1/2" Steel	P250
1 1/2" Plastic	CK1125	3" Plastic	P3250
1 1/2" Steel	CK1125	3" Steel	P3250
2" Copper	K2125	<b>3" STEEL TO-</b>	
2" Cast Iron	CK2125	1 1/2" Cast Iron	P315
2" Plastic	CK2125	1 1/2" Plastic	P315
2" Steel	CK2125	1 1/2" Steel	PK32
<b>1 1/4" STEEL TO-</b>			
1" Plastic	K1125	2" Cast Iron	PC32
1" Steel	K1125	2" Plastic	PC32
1" Copper (IPS)	K1125	2" Steel	PC32
1 1/4" Copper	K1125	2 1/2" Plastic	P3250
1 1/4" Plastic	K1125	2 1/2" Steel	P3250
1 1/4" Steel	K150	3" Copper	PK33
1 1/4" Stainless Steel	KS15-125	3" Cast Iron	CP33
1 1/2" Copper	K150	3" Plastic	P300
1 1/2" Cast Iron	CK115	3" Steel	P300
1 1/2" Plastic	CK115	3" Stainless Steel	PS33
1 1/2" Steel	CK115	3" Extra Hvy Cast Iron	P300
2" Copper	K215	3" Thinwall Plastic	TWP33
2" Cast Iron	CK215	4" Cast Iron	CP43
2" Plastic	CK215	4" Plastic	P430
2" Steel	CK215	4" Steel	P430
3" Cast Iron	CK315	4" Extra Hvy Cast Iron	P430
<b>1 1/2" STEEL TO-</b>			
3/4" Plastic	CK110	4" Thinwall Plastic	TWP43
3/4" Steel	CK110	<b>4" STEEL TO-</b>	
3/4" Copper (IPS)	CK110	3" Copper	PK43
1" Copper	CK110	3" Cast Iron	PC43
1" Plastic	CK1125	3" Plastic	P430
1" Steel	CK1125	3" Steel	P430
1 1/4" Copper	CK1125	3" Extra Hvy Cast Iron	P430
1 1/4" Plastic	CK1125	3" Stainless Steel	PS43
1 1/4" Steel	CK1125	4" Copper	PK44
1 1/4" Stainless Steel	CS15-125	4" Cast Iron	CP44
1 1/2" Copper	CK115	4" Plastic	P400
1 1/2" Cast Iron	CP150	4" Steel	P400
1 1/2" Plastic	CP150	4" Extra Hvy Cast Iron	P400
1 1/2" Steel	CP150	4" Thinwall Plastic	TWP44
1 1/2" Bathwaste Tailpiece	T150	<b>5" STEEL TO-</b>	
2" Cast Iron	CP215	5" Cast Iron	CP55
2" Copper	KC215	5" Plastic	P500
2" Plastic	CP215	5" Steel	P500
2" Steel	CP215	5" Extra Hvy Cast Iron	P500
3" Cast Iron	C315	<b>6" STEEL TO-</b>	
3" Plastic	P315	6" Cast Iron	CP66
3" Steel	P315	6" Plastic	P600
3" Extra Hvy Cast Iron	P315	6" Steel	P600
<b>2" STEEL TO-</b>			
1" Plastic	CK2125	6" Extra Hvy Cast Iron	P600
1" Steel	CK2125	<b>8" STEEL TO-</b>	
1" Copper (IPS)	CK2125	8" Cast Iron	CP88
1 1/4" Copper	CK2125	8" Plastic	P800
1 1/4" Plastic	CK215	8" Steel	P800
1 1/4" Steel	CK215	8" Extra Hvy Cast Iron	P800

# Flex-Seal® Couplings

An extensive line of flexible sewer couplings that connect similar and dissimilar pipe materials and sizes. Sizes 1-1/4" to 72".



## 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 300 Series 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 C 425, ASTM C 1173
- 300 Series Marine Grade Stainless Steel conforms to ASTM A 240
- 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.	
MR56 125	1.39	1.66	1.39	1.66	2.50
MR56 15/125	1.81	2.00	1.81	2.00	2.50
MR56 15	1.81	2.00	1.81	1.90	3.50
MR56 15 ARC	1.81	1.90	1.81	1.90	3.50
MR56 215	2.30	2.50	1.81	2.00	3.50
MR56 22/125	2.30	2.50	1.39	1.66	2.50
MR56 22	2.30	2.50	2.30	2.50	3.50
MR56 22 ARC	2.30	2.38	2.30	2.38	3.50
MR56 315	3.25	3.50	1.81	2.00	4.00
MR56 32	3.25	3.50	2.30	2.50	4.00
MR56 33	3.25	3.50	3.25	3.50	4.00
MR56 33 ARC	3.25	3.50	3.25	3.50	4.00
MR56 415	4.21	4.50	1.81	2.00	4.00
MR56 42	4.21	4.50	2.30	2.50	4.00
MR56 43	4.21	4.50	3.25	3.50	4.00
MR56 43 ARC	4.21	4.50	3.25	3.50	4.00
MR56 43 OFFSET	4.21	4.50	3.25	3.50	4.00
MR56 44	4.21	4.50	4.21	4.50	4.00
MR56 44 ARC	4.21	4.50	4.21	4.50	4.00
MR56 53f	5.30	5.62	3.25	3.50	4.00
MR56 54f	5.30	5.62	4.21	4.50	4.00
MR56 54 ARC	5.30	5.62	4.21	4.50	4.00
MR56 55f	5.30	5.62	5.30	5.62	4.00
MR56 55 ARC	5.30	5.62	5.30	5.62	4.00
MR56 63f	6.27	6.62	3.25	3.50	6.00
MR56 64	6.27	6.62	4.21	4.50	6.00
MR56 64 ARC	6.27	6.62	4.21	4.50	6.00
MR56 65f TYPE O	6.38	6.78	5.30	5.62	6.50
MR56 65 ARC	6.38	6.78	5.30	5.62	6.00
MR56 66	6.27	6.62	6.27	6.62	6.00
MR56 66 ARC	6.27	6.62	6.27	6.62	6.00
MR56 84	8.40	9.00	4.30	4.62	7.00
MR56 85 TYPE O	8.40	9.00	5.30	5.62	7.00
MR56 86	8.12	8.75	6.27	6.62	6.00
MR56 86 ARC	8.12	8.62	6.27	6.62	6.00
MR56 88	8.12	8.62	8.12	8.62	6.00
MR56 88 ARC	8.12	8.62	8.12	8.62	6.00
MR56 1006 TYPE O	10.40	11.00	6.35	6.70	7.00
MR56 1008	10.20	10.80	8.12	8.75	6.50
MR56 1008 ARC	10.20	10.80	8.12	8.75	6.50
MR56 1010	10.20	10.80	10.20	10.80	6.50
MR56 1010 ARC	10.20	10.80	10.20	10.80	6.50
MR56 1210f	12.20	12.80	10.20	10.80	6.50
MR56 1210 ARC	12.20	12.80	12.20	12.80	6.50
MR56 1212	12.20	12.80	12.20	12.80	6.50
MR56 1212 ARC	12.20	12.80	12.20	12.80	6.50
MR56 1512f	14.90	15.40	12.20	12.80	6.00
MR56 1512 ARC	14.90	15.40	12.20	12.80	6.00
MR56 1515	14.90	15.40	14.90	15.40	6.00
MR56 1515 ARC	14.90	15.40	14.90	15.40	6.00
MR56 1616	15.50	16.00	15.50	16.00	10.00
MR56 1616 ARC	15.50	16.00	15.50	16.00	10.00
MR56 1815f	18.30	18.80	14.90	15.40	10.00
MR56 1815 ARC	18.30	18.80	15.40	16.00	10.00
MR56 1818	18.30	18.80	18.30	18.80	10.00
MR56 1818 ARC	18.30	18.80	18.30	18.80	10.00
MR56 2121	21.50	22.00	21.50	22.00	10.00
MR56 2121 ARC	21.50	22.00	21.50	22.00	10.00
MR56 2424	24.20	24.90	24.20	24.90	10.00
MR56 2424 ARC	24.20	24.90	24.20	24.90	10.00
MR56 2727	27.50	28.00	27.50	28.00	10.00
MR56 2727 ARC	27.50	28.00	27.50	28.00	10.00

## MR01 Series

CLAY to CLAY	A		B		C
	min.	max.	min.	max.	
MR01 44	5.00	5.40	5.00	5.40	4.00
MR01 44 ARC	5.00	5.40	5.00	5.40	4.00
MR01 54f	6.03	6.56	5.00	5.40	6.00
MR01 54f ARC	6.03	6.56	5.00	5.40	6.00
MR01 55	6.03	6.56	6.03	6.56	6.00
MR01 55 ARC	6.03	6.56	6.03	6.56	6.00
MR01 64f	7.20	7.80	5.00	5.40	6.00
MR01 64f ARC	7.20	7.80	5.00	5.40	6.00
MR01 64 TYPE O	7.50	8.12	5.00	5.40	6.00
MR01 64 TYPE O ARC	7.50	8.12	5.00	5.40	6.00
MR01 65f	7.20	7.80	6.27	6.62	6.00
MR01 66	7.20	7.80	7.20	7.80	6.00
MR01 66 ARC	7.20	7.80	7.20	7.80	6.00
MR01 86f	9.40	10.00	7.20	7.80	6.00
MR01 86f ARC	9.40	10.00	7.20	7.80	6.00
MR01 88	9.40	10.00	9.40	10.00	6.00
MR01 88 ARC	9.40	10.00	9.40	10.00	6.00
MR01 1008f	11.85	12.45	9.40	10.00	6.00
MR01 1008f ARC	11.85	12.45	9.40	10.00	6.00
MR01 1010	11.85	12.45	11.85	12.45	6.00
MR01 1010 ARC	11.85	12.45	11.85	12.45	6.00
MR01 1210f	14.20	14.80	11.85	12.45	6.50
MR01 1210f ARC	14.20	14.80	11.85	12.45	6.00
MR01 1212	14.20	14.80	14.20	14.80	6.00
MR01 1212 ARC	14.20	14.80	14.20	14.80	6.00
MR01 1512f	17.80	18.30	14.80	15.40	6.00
MR01 1512f ARC	17.80	18.30	14.80	15.40	6.00
MR01 1515	17.80	18.30	17.80	18.30	10.00
MR01 1515 ARC	17.80	18.30	17.80	18.30	10.00
MR01 1818	21.80	22.30	21.80	22.30	10.00
MR01 1818 ARC	21.80	22.30	21.80	22.30	10.00
MR01 2121	25.50	25.90	25.50	25.90	10.00
MR01 2121 ARC	25.50	25.90	25.50	25.90	10.00
MR01 2424	29.60	30.30	29.60	30.30	10.00
MR01 2424 ARC	29.60	30.30	29.60	30.30	10.00
MR01 2727	31.80	32.50	31.80	32.50	10.00
MR01 2727 ARC	31.80	32.50	31.80	32.50	10.00



### 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 43 ARC	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 44 ARC	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 46 ARC	4" CL to 6" CI/PL	5.00	5.40	6.27	6.62	6.00
MR02 54	5" Oversize CL to 4" CI/PL	6.27	6.62	4.21	4.50	6.00
MR02 54 ARC	5" Oversize CL to 4" CI/PL	6.03	6.56	4.21	4.50	6.00
MR02 55	5" CL to 5" CI/PL	6.27	6.62	5.30	5.62	5.00
MR02 55 ARC	5" CL to 5" CI/PL	6.03	6.56	5.30	5.64	5.00
MR02 64	6" CL to 4" CI/PL	7.20	7.80	4.21	4.50	6.00
MR02 64 ARC	6" CL to 4" CI/PL	7.20	7.80	4.21	4.50	6.00
MR02 65	6" CL to 5" CI/PL	7.20	7.80	5.00	5.40	6.00
MR02 65 ARC	6" CL to 5" CI/PL	7.20	7.80	5.00	5.40	6.00
MR02 66	6" CL to 6" CI/PL	7.20	7.80	6.27	6.62	6.00
MR02 66 ARC	6" CL to 6" CI/PL	7.20	7.80	6.27	6.62	6.00
MR02 86	8" CL to 6" CI/PL	9.40	10.00	6.27	6.62	6.00
MR02 86 ARC	8" CL to 6" CI/PL	9.40	10.00	6.27	6.62	6.00
MR02 88	8" CL to 6" CI/PL	9.40	10.00	8.25	8.62	6.00
MR02 88 ARC	8" CL to 6" CI/PL	9.40	10.00	8.25	8.62	6.00
MR02 1008 f	10" CL to 8" CI/PL	11.85	12.45	8.25	8.62	6.50
MR02 1008 ARC	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 1010 ARC	10" CL to 10" CI/PL	11.85	12.45	10.20	10.80	6.50
MR02 1210 f	12" CL to 10" CI/PL	14.20	14.80	10.20	10.80	6.50
MR02 1210 ARC	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 1212 ARC	12" CL to 12" CI/PL	14.20	14.80	12.20	12.80	6.50
MR02 1512 f	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 1515 ARC	15" CL to 15" CI/PL	17.80	18.30	14.90	15.40	10.00
MR02 1818	18" CL to 18" CI/PL	21.80	22.30	18.30	18.80	10.00
MR02 1818 ARC	18" CL to 18" CI/PL	21.80	22.30	18.30	18.80	10.00
MR02 2121	21" CL to 21" CI/PL	25.50	25.90	21.50	22.00	10.00
MR02 2121 ARC	21" CL to 21" CI/PL	25.50	25.90	21.50	22.00	10.00
MR02 2424 f	24" CL to 24" CI/PL	29.60	30.30	24.20	24.90	10.00
MR02 2424 ARC	24" CL to 24" CI/PL	29.60	30.30	24.20	24.90	10.00
MR02 2727 f	27" CL to 27" CI/PL	31.80	32.50	27.50	28.00	10.00
MR02 2727 ARC	27" CL to 27" CI/PL	31.80	32.50	27.50	28.00	10.00

### MR03 Series

CLAY to ABESTOS 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 44 ARC f	4" CL to 4" AC/DI	5.00	5.40	4.62	4.93	4.00
MR03 54 f	5" CL to 4" AC/DI	6.03	6.62	4.62	4.93	5.00
MR03 54 ARC	5" CL to 4" AC/DI	6.03	6.62	4.62	4.93	5.00
MR03 55 f	5" CL to 5" AC/DI	6.03	6.40	5.53	5.90	6.00
MR03 55 ARC	5" CL to 5" AC/DI	6.03	6.40	5.53	5.90	6.00
MR03 64 f	6" CL to 4" AC/DI	7.20	7.80	4.62	4.93	6.00
MR03 65 f	6" CL to 5" AC/DI	7.20	7.80	5.75	6.12	6.00
MR03 65 ARC	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 66 ARC	6" CL to 6" AC/DI	7.20	7.80	6.75	7.12	6.00
MR03 85 f	8" CL to 5" AC/DI	9.40	10.00	6.03	6.40	6.00
MR03 86 f	8" CL to 6" AC/DI	9.40	10.00	6.75	7.12	6.00
MR03 86 ARC	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 88 ARC	8" CL to 8" AC/DI	9.40	10.00	8.75	9.25	6.00
MR03 1008 f	10" CL to 8" AC/DI	11.85	12.45	8.75	9.25	6.50
MR03 1008 ARC	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 1010 ARC f	10" CL to 10" AC/DI	11.85	12.45	10.70	11.20	6.50
MR03 1210 f	12" CL to 10" AC/DI	14.20	14.80	10.70	11.20	6.50
MR03 1210 ARC	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 1212 ARC	12" CL to 12" AC/DI	14.20	14.80	12.75	13.30	6.50
MR03 1512 f	15" CL to 12" AC/DI	17.80	18.30	12.75	13.30	6.00
MR03 1515	15" CL to 16" AC/DI	17.80	18.30	17.40	17.90	10.00
MR03 1515 ARC	15" CL to 16" AC/DI	17.80	18.30	17.40	17.90	10.00
MR03 1818 f	18" CL to 18" AC/DI	21.80	22.30	19.30	19.80	10.00
MR03 1818 ARC	18" CL to 18" AC/DI	21.80	22.30	19.30	19.80	10.00

### MR04 Series

CONCRETE to CONCRETE		A		B		C
		min.	max.	min.	max.	width
MR04 44	4" Concrete to 4" Concrete	5.50	6.00	5.50	6.00	4.00
MR04 44 ARC	4" Concrete to 4" Concrete	5.50	6.00	5.50	6.00	4.00
MR04 64 f	6" Concrete to 4" Concrete	7.50	8.12	5.50	6.00	6.00
MR04 64 ARC	6" Concrete to 4" Concrete	7.50	8.12	5.50	6.00	6.00
MR04 66	6" Concrete to 6" Concrete	7.50	8.12	7.50	8.12	6.00
MR04 66 ARC	6" Concrete to 6" Concrete	7.50	8.12	7.50	8.12	6.00
MR04 86 f	8" Concrete to 6" Concrete	10.00	10.50	7.50	8.12	6.00
MR04 86 ARC	8" Concrete to 6" Concrete	10.00	10.50	7.50	8.12	6.00
MR04 88	8" Concrete to 8" Concrete	10.00	10.50	10.00	10.50	6.00
MR04 88 ARC	8" Concrete to 8" Concrete	10.00	10.50	10.00	10.50	6.00
MR04 99	9" Concrete to 9" Concrete	11.85	12.45	11.85	12.45	6.00
MR04 1008 f	10" Concrete to 8" Concrete	12.30	12.80	10.00	10.50	6.00
MR04 1008 ARC	10" Concrete to 8" Concrete	12.30	12.80	10.00	10.50	6.00
MR04 1010	10" Concrete to 10" Concrete	12.30	12.80	12.30	12.80	6.00
MR04 1010 ARC	10" Concrete to 10" Concrete	12.30	12.80	12.30	12.80	6.00
MR04 1210 f	12" Concrete to 10" Concrete	14.60	15.10	12.30	12.80	6.00
MR04 1210 ARC	12" Concrete to 10" Concrete	14.60	15.10	12.30	12.80	6.00
MR04 1212	12" Concrete to 12" Concrete	14.60	15.10	14.60	15.10	6.00
MR04 1212 ARC	12" Concrete to 12" Concrete	14.60	15.10	14.60	15.10	6.00
MR04 1515	15" Concrete to 15" Concrete	19.40	19.90	19.40	19.90	10.00
MR04 1515 ARC	15" Concrete to 15" Concrete	19.40	19.90	19.40	19.90	10.00
MR04 1818	18" Concrete to 18" Concrete	22.10	22.60	22.10	22.60	10.00
MR04 1818 ARC	18" Concrete to 18" Concrete	22.10	22.60	22.10	22.60	10.00
MR04 2121	21" Concrete to 21" Concrete	25.90	26.60	25.90	26.60	10.00
MR04 2121 ARC	21" Concrete to 21" Concrete	25.90	26.60	25.90	26.60	10.00
MR04 2424	24" Concrete to 24" Concrete	29.90	30.60	29.90	30.60	10.00
MR04 2424 ARC	24" Concrete to 24" Concrete	29.90	30.60	29.90	30.60	10.00
MR04 2727	27" Concrete to 27" Concrete	33.40	34.10	33.40	34.10	10.00
MR04 2727 ARC	27" Concrete to 27" Concrete	33.40	34.10	33.40	34.10	10.00

### MR06 Series

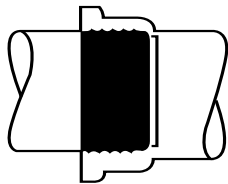
CONCRETE to CAST IRON or PLASTIC		A		B		C
		min.	max.	min.	max.	width
MR06 43 f	4" Concrete to 3" CI/PL	5.50	6.00	3.21	3.50	4.00
MR06 44	4" Concrete to 4" CI/PL	5.50	6.00	4.21	4.50	4.00
MR06 44 ARC	4" Concrete to 4" CI/PL	5.50	6.00	4.21	4.50	4.00
MR06 64	6" Concrete to 4" CI/PL	7.50	8.12	4.21	4.50	6.00
MR06 64 ARC	6" Concrete to 4" CI/PL	7.50	8.12	4.21	4.50	6.00
MR06 65 f	6" Concrete to 5" CI/PL	7.50	8.12	5.00	5.40	6.00
MR06 66	6" Concrete to 6" CI/PL	7.50	8.12	6.25	6.62	6.00
MR06 66 ARC	6" Concrete to 6" CI/PL	7.50	8.12	6.25	6.62	6.00
MR06 86 f	8" Concrete to 6" CI/PL	10.00	10.50	6.25	6.62	6.00
MR06 86 ARC	8" Concrete to 6" CI/PL	10.00	10.50	6.25	6.62	6.00
MR06 88	8" Concrete to 8" CI/PL	10.00	10.50	8.12	8.40	6.00
MR06 88 ARC	8" Concrete to 8" CI/PL	10.00	10.50	8.12	8.40	6.00
MR06 1008	10" Concrete to 8" CI/PL	12.55	13.20	8.12	8.75	6.00
MR06 1010 f	10" Concrete to 10" CI/PL	12.55	13.20	10.34	10.85	6.00
MR06 1010 ARC	10" Concrete to 10" CI/PL	12.55	13.20	10.34	10.85	6.00
MR06 1210 f	12" Concrete to 10" CI/PL	15.00	15.80	10.34	10.85	6.00
MR06 1212	12" Concrete to 12" CI/PL	15.00	15.80	12.30	12.90	6.00
MR06 1212 ARC	12" Concrete to 12" CI/PL	14.60	15.10	12.30	12.90	6.00
MR06 1515 f	15" Concrete to 15" CI/PL	19.40	19.90	14.90	15.40	10.00
MR06 1515 ARC	15" Concrete to 15" CI/PL	19.40	19.90	14.90	15.40	10.00
MR06 1818 f	18" Concrete to 18" CI/PL	22.10	22.60	18.30	18.80	10.00
MR06 1818 ARC	18" Concrete to 18" CI/PL	22.10	22.60	18.30	18.80	10.00
MR06 2121	21" Concrete to 21" CI/PL	25.90	26.60	21.40	22.10	10.00
MR06 2121 ARC	21" Concrete to 21" CI/PL	25.90	26.60	21.40	22.10	10.00
MR06 2424 f	24" Concrete to 24" CI/PL	29.90	30.60	24.40	25.10	10.00
MR06 2424 ARC	24" Concrete to 24" CI/PL	29.90	30.60	24.40	25.10	10.00
MR06 2727 f	27" Concrete to 27" CI/PL	33.40	34.10	27.40	28.10	10.00
MR06 2727 ARC	27" Concrete to 27" CI/PL	33.40	34.10	27.40	28.10	10.00

### MR51 Series

ASBESTOS CEMENT or DUCTILE IRON to CAST IRON or PLASTIC		A		B		C
		min.	max.	min.	max.	width
MR51 43 f	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 44 ARC	4" AC/DI to 4" CI/PL	4.62	4.93	4.21	4.50	4.00
MR51 54 TYPE O	5" AC/DI to 4" CI/PL Oversize	5.40	5.90	12.45	12.95	4.00
MR51 55	5" AC/DI to 5" CI/PL	5.62	5.93	5.30	5.62	5.00
MR51 56	5" AC/DI to 5" CI/PL	5.62	5.93	6.25	6.62	5.00
MR51 64	6" AC/DI to 4" CI/PL	6.75	7.12	4.21	4.50	6.00
MR51 65 f	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 66 ARC	6" AC/DI to 6" CI/PL	6.75	7.12	6.27	6.62	6.00
MR51 86 f	8" AC/DI to 6" CI/PL	8.75	9.25	6.27	6.62	6.00
MR51 86 ARC	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 88 ARC	8" AC/DI to 8" CI/PL	8.75	9.25	8.25	8.62	6.00
MR51 1008 f	10" AC/DI to 8" CI/PL	10.84	11.40	8.25	8.62	6.00
MR51 1008 ARC	10" AC/DI to 8" CI/PL					

## COMPRESSION JOINT SEALERS

Used to join bell and spigot pipe.



<b>CI SV</b>	Service Weight Cast Iron
<b>CI XH</b>	Extra Heavy Cast Iron
<b>TWP</b>	Thinwall Plastic
Other compression joint sealers available. Call for specific information.	

Product No.	JOINT SEALER
<b>MR22U 139</b>	2" CI SV Hub to 1-1/2" Sch. 40 Plastic or Steel
<b>MR22U 205</b>	2" CI SV Hub to 2" Sch. 40 Plastic, Steel or CI XH
<b>MR 22UX 205</b>	2" CI XH Hub to 2" Sch. 40 Plastic, Steel or CI XH
<b>MR33U 205</b>	3" CI SV Hub to 2" Sch. 40 Plastic, Steel or CI XH
<b>MR33U 305</b>	3" CI SV Hub to 3" Sch. 40 Plastic, Steel or CI XH
<b>MR44U 205</b>	4" CI SV Hub to 2" Sch. 40 Plastic, Steel or CI XH
<b>MR44U 305</b>	4" CI SV Hub to 3" Sch. 40 Plastic, Steel or CI XH
<b>MR44U 405</b>	4" CI Hub to 4" Sch. 40 Plastic, Steel or CI XH
<b>MR44U 401</b>	4" CI Hub to 4" TWP or CI SV
<b>MR44UX 305</b>	4" CI XH Hub to 3" Sch. 40 Plastic, Steel or CI XH
<b>MR44UX 405</b>	4" CI XH Hub to 4" Sch. 40 Plastic, Steel or CI XH
<b>MRVY408 401</b>	4" Dickey/Mission Clay Bell to 4" TWP or CI SV
<b>MRVY408 405</b>	4" Dickey/Mission Clay Bell to 4" Sch. 40 PL, Steel, or CI XH
<b>MRVY608 405</b>	6" Dickey/Mission Clay Bell to 4" Sch. 40 PL, Steel, or CI XH
<b>MRVY608 609</b>	6" Dickey/Mission Clay Bell to 6" Sch. 40 PL, Steel

## HOME PLUMB FLEX FITTINGS

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

300 Series 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

90° ELL FITTINGS		
<b>M90L 150</b>	1-1/2"	90°
<b>M90L 200</b>	2"	90°
<b>M90L 300</b>	3"	90°
<b>M90L 400</b>	4"	90°



TEE FITTINGS	
<b>MTY 150</b>	1-1/2"
<b>MTY 200</b>	2"
<b>MTY 300</b>	3"
<b>MTY 400</b>	4"



BUSHINGS FOR FITTINGS	
<b>MB 215</b>	2" x 1-1/2"
<b>MB 32</b>	3" x 2"
<b>MB 325</b>	3" x 2-1/2"
<b>MB 43</b>	4" x 3"



## "O" RING

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

O RING	
<b>MR 64</b>	6" x 4"



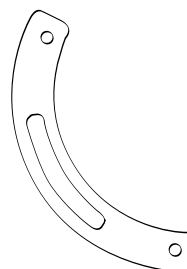
## TOILET REPAIR FLANGE

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

Product No.	Description
<b>MRTRF</b>	Toilet Repair Flange



## 56 EXP SERIES

### Cast Iron/Plastic to Cast Iron/Plastic Expansion Joint

Product No.	Description	min.	max.	min.	max.	length
MR56 15EXP	1-1/2" x 1-1/2"	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

Product No.	Description
MSD 200	Shower Drain Connector (AB & A, Casper, Armstrong, Kohler, Intercon and Shaul)
MSD 210	Shower Drain Connector (Mustee or Owens Corning)



## DRAIN PIPING TO TUBULAR TRAP - TC & DTC Series

Product No.	Description	min.	max.	min.	max.	length
MRTC 150	1-1/4" x 1-1/2"†	1.25	1.50	1.25	1.50	2.5
MRTC 150DS*	1-1/4" x 1-1/2"†	1.25	1.50	1.25	1.50	2.5
MRDTC 110	3/4"-1-1/4" K/PL 1-1/4" or 1-1/2"†	.875	1.375	1.62	1.90	2.5
MRDTC 150	1-1/4" or 1-1/2" x 1-1/4" or 1-1/2"†	1.25	1.50	1.62	1.90	2.5
MRDTC 150DS*	1-1/4" or 1-1/2" x 1-1/4" or 1-1/2"†	1.25	1.50	1.62	1.90	2.5
MRDTC 210	2" x 1" or 3/4" K/PL	2.12	2.40	.875	1.31	2.5
MRDTC 215	2" x 1-1/4" or 1-1/2"†	2.12	2.40	1.25	1.50	2.5
MROS 150	1-1/4" or 1-1/2"†	1.25	1.50	1.25	1.50	2.5



PL - Plastic    T - Tubular    K - Copper  
 † Any combination of 1-1/4" or 1-1/2" tubular drain pipe.  
 \* DS indicates part made of soft flexible grey vinyl

## FLEXIBLE RUBBER "J" BEND

Product No.	Description	A	B
MJB 150	1-1/4" or 1-1/2" Drain Pipe to 1-1/2" Drain Pipe or Tubular Trap	1.25	1.90



## DISHWASHER CONNECTOR

Product No.	Description
MRDWC 100	Dishwasher Connector



## HOSE GRIP CLOTHES WASHER CONNECTOR

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

Product No.	Description
MRHG-1	Hose Grip Connector



# Flex-Seal Adjustable Repair Couplings

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

## FEATURES

**Heavy-Duty** - Mission's ARC stainless steel shear ring is the heaviest in the industry; over 33% thicker than the competition

**Dependable** - Sealing "O" rings under each sealing clamp band prevent pipe slippage and provide a more positive seal

**No Bushings Required** - Most couplings require no bushings for dissimilar types or sizes of pipe

**Resistant** - Surgical Grade 316 stainless steel sealing clamps provide the greatest corrosion resistance possible

**Strong** - Nut and bolt clamp design is much stronger than traditional worm drive design

*Worm Drive or T-Bolt clamps are available on request.*



## APPLICATIONS

Repair of existing pipelines by replacement of short sections

Making "post" construction connections to existing sewers by the insertion of a factory made junction

Adapter between pipes of different sizes or materials

Joining short and cut lengths of pipe

Pipe to manhole connections

## SPECIFICATIONS

- Molded rubber sleeve, extruded in larger sizes, conforms to ASTM C 425, ASTM C 1173
- 300 Series stainless steel shear rings with a minimum thickness of .012" conform to ASTM A 240
- 316 Series stainless steel clamps with nut and bolt takeup are standard and meet all requirements of ASTM A 240

*For Flex-Seal Adjustable Repair Coupling (ARC) product numbers, see Flex-Seal Couplings dimensional specifications and sizing information on Pages 6–7.*

# Large Diameter Repair Couplings

Couplings ideally suited for the repair, alteration and rehabilitation of large diameter gravity sewer pipe made of the following materials; clay, concrete, cast iron, plastic, ductile iron, asbestos cement and bituminous fiber.



## FEATURES

**Multiple Sizes** - Fit pipe ODs of up to 72"

**Superior Seal** - Couplings are 10" wide and come with four multiple take-up stainless steel clamps to provide a superior seal on pipe ends

**Accommodating** - Flanged bushings address differences in pipe ODs of up to 6"

**Easy to Use** - Flanged bushings allow for easy positioning into the coupling during installation

**Resilient** - Couplings and flanged bushings are manufactured of EPDM rubber; resilient to and unaffected by normal soil conditions and sewer gases

**Greater Band Load** - Exclusive nut and bolt clamps have multiple take-up points, 316 Series stainless steel straps and a torque rating of 80 in./lbs. providing greater band load than a traditional worm gear clamp

## OPTIONS

- 300 Series or 316 Series stainless steel outside shear rings (ARCs) are available and strongly recommended when resistance to heavy earth loads, shear forces and improved alignment is required
- T-Bolt clamps are available with a wider 316 Series stainless steel strap and a torque rating of 150 in./lb. to provide even greater sealing performance
- Strongly recommended for nominal pipe diameters of 24" and larger

## SPECIFICATIONS

- Couplings and flanged bushings meet or exceed the requirements of ASTM C-425 and ASTM C-1173

**IMPORTANT** - When ordering, specify the outside diameters of the two pipes to be joined, the clamp style (worm drive, nut & bolt or T-Bolt), and whether or not a shear ring is required (ARC).

# T-Flex® Sewer Saddles



The Mission T-Flex® Sewer Saddle demonstrates superior flexibility. Designed to make lateral service connections, the sewer saddle's elastomeric construction allows a single size to securely fit most sewer mains.

Flexibility eliminates the need for large inventories of rigid PVC saddles of various sizes.



## FEATURES

### Minimal Excavation

**Absorbs Vibration** - EPDM rubber gasket with corrosion resistant Grade 300 austenitic stainless steel apron provides a flexible, vibration-absorbing joint which accommodates ground movement and prevents shear.

**Leak-Proof** - Grade 300 quick-release clamps install rapidly and provide sufficient band load to ensure a leak-proof, root-proof seal.

**No Intrusion** - Internal "pipe stop" prevents lateral pipe intrusion into the sewer main.

**Ease of Installation** - Flanged lip on the EPDM gasket self-centers saddle into the cored sewer main during installation.

**Economical** - Durable, high quality design and low unit price make the T-Flex® a smart choice.

Product Number	Lateral Pipe	Sewer Main O.D.	Lateral Entry	Core I.D.
TF-400	4" PVC or C.I.	6.27" - 15.75"	90°± 15°	4.60" - 4.90"
TF-500*	5" PVC or C.I.	8.16" - 21.25"	90°± 15°	6.60" - 6.90"
TF-600	6" PVC or C.I.	8.16" - 21.25"	90°± 15°	6.60" - 6.90"

\*requires the use of a bushing

# Band-Seal® Sewer Couplings

## UNDERGROUND SEWER COUPLINGS

Extra thick rubber sleeve can be used with or without bushings. Sizes 3" through 12".

### FEATURES

**Versatile** - Joins clay, plastic or cast iron to any other kind of pipe with or without a bushing.

**Heavy Duty** - Thicker rubber sleeves conform to ASTM C 425, ASTM C 1173.

**Choice Available** - 316 Series stainless steel clamps with nut and bolt or worm drive take-up are standard.



## MISSION STANDARD COUPLINGS AND BUSHINGS

Used for joining clay pipe and for joining clay pipe to other types of pipe. Primarily used in the Western United States.

Product Number		COUPLINGS	Minimum Pipe O.D.	Maximum Pipe O.D.
Worm Drive	Nut & Bolt			
	<b>0403 428</b>	3" Type 1 Mission Standard Coupling	4.250	4.500
<b>0404 616</b>	<b>0404 624</b>	4" Type O Mission Standard Coupling	5.312	5.500
	not available	6" Type 1 Mission Standard Coupling	7.550	7.750
	<b>0406 751</b>	6" Adjustable Repair Coupling	7.500	8.000
<b>0408 724</b>	not available	8" Type 1 Mission Standard Coupling	9.750	10.125
	<b>0408 781</b>	8" Adjustable Repair Coupling	9.750	10.125
	<b>0410 688</b>	10" Adjustable Repair Coupling	12.250	12.600
	<b>0412 635</b>	12" Adjustable Repair Coupling	14.250	14.520
<b>0406 835</b>	<b>0406 736</b>	6" x 4" Increaser Coupling	7.550 5.275	7.750 5.450
<b>0408 872</b>	<b>0408 864</b>	8" x 6" Increaser Coupling	9.250 7.250	10.125 8.000

Product Number	BUSHINGS	Minimum Pipe O.D.	Maximum Pipe O.D.
<b>0502 419</b>	4" x 2" Plain End Bushing	2.260	2.440
<b>0502 427</b>	4" x 2" Bead End Bushing	2.575	2.678
<b>0503 417</b>	4" x 3" Plain End Bushing	3.260	3.440
<b>0503 425</b>	4" x 3" Bead End Bushing	3.320	3.500
<b>0504 415</b>	4" x 4" Plain End Bushing	4.290	4.470
<b>0504 423</b>	4" x 4" Bead End Bushing	4.350	4.530
<b>0504 431</b>	4" x 4" Asbestos Cement or Bituminous Fiber Bushing	4.687	4.875
<b>0504 506</b>	4" x 4" Thinwall Plastic Bushing	4.100	4.250
<b>0506 410</b>	6" Plain End Bushing	6.125	6.500
<b>0506 428</b>	6" Bead End Bushing	6.500	6.750
<b>0506 436</b>	6" Asbestos Cement or Bituminous Fiber Bushing	6.812	7.062
<b>0508 416</b>	8" Plain End Bushing	8.250	8.530
<b>0508 424</b>	8" Asbestos Cement Bushing	8.625	9.062
<b>0510 412</b>	10" Plain End Bushing	10.250	10.500
<b>0510 420</b>	10" Asbestos Cement Bushing	10.875	11.125
<b>0512 418</b>	12" Plain End Bushing	11.875	12.500
<b>0512 426</b>	12" Asbestos Cement Bushing	13.000	13.250

# Band-Seal® Sewer Couplings

Product Number		COUPLINGS	Minimum Pipe O.D.	Maximum Pipe O.D.
Worm Drive	Nut & Bolt			
0404 665		4" Coupling	5.000	5.281
0406 777	0406 728	6" Coupling	6.875	7.625
	0406 769	6" Adjustable Repair Coupling	6.875	7.625
	0408 807	8" Adjustable Repair Coupling	9.250	10.062
	0410 704	10" Adjustable Repair Coupling	11.500	12.125
	0412 650	12" Adjustable Repair Coupling	14.125	14.625
0406 744		6" x 4" Increaser Coupling	6.750 5.000	7.500 5.250
0408 872	0408 864	8" x 6" Increaser Coupling	9.250 7.250	10.125 8.000

## EASTERN STANDARD COUPLINGS AND BUSHINGS

For joining clay pipe and for joining clay pipe to other types of pipe. Used primarily in the Eastern United States.

Product Number	BUSHINGS
0502 443	2" I.P.S. Bushing
0504 449	4" Plain End Cast Iron Bushing
0504 456	4" I.P.S. Bushing
0504 464	4" Asbestos Cement Bushing
0504 514	4" Thinwall Plastic Bushing
0506 410	6" Cast Iron Bushing - Mission Standard
0506 428	6" I.P.S. Bushing
0506 436	6" Asbestos Cement Bushing - Mission Standard
0508 432	8" Cast Iron Bushing
0508 440	8" Asbestos Cement Bushing
0510 438	10" Cast Iron Bushing
0510 446	10" Asbestos Cement Bushing
0512 434	12" Cast Iron Bushing
0512 442	12" Asbestos Cement Bushing



## SPECIAL SEWER COUPLINGS

General couplings usable with any pipe and not limited to any geographic area.

Product Number		COUPLINGS	Minimum Pipe O.D.	Maximum Pipe O.D.
Worm Drive	Nut & Bolt			
0403 444		3" Trailer/Drain Coupling	3.250	3.500
	0404 632	4" Asbestos Cement or Bituminous Fiber Coupling	4.625	4.937
0404 715	0404 723	4" Plastic, Cast Iron Soil Pipe-Sewer/Drain Coupling	4.215	4.500
0404 749		4" x 3" Plastic, Cast Iron, Sewer/Drain Increaser	4.125 3.250	4.500 3.625
0405 035	0405 027	5" Type 1 Coupling, Fits 5" Clay	6.550	6.750
0406 702	0406 694	6" Type O Coupling, Fits 6" Concrete	7.750	8.125
	0406 819	6" x 4" Plastic, Cast Iron, Sewer/Drain Increaser	6.250 4.125	6.625 4.500
	0408 815	8" Truss/Asbestos Cement ARC	8.750	9.400
	0406 793	6" Adjustable Repair Coupling, Type O	7.500	8.125
	0410 720	10" Adjustable Repair Coupling, Type O	12.500	13.125
	0412 684	12" Adjustable Repair Coupling, Type O	14.125	15.000



# Band-Seal® End Caps

Flexible rubber end caps for capping cast iron, steel, PVC and ABS pipe ends. Sizes 1-1/2" through 12".

## FEATURES

**Strong X-Brace** - Molded "X" braces end cap against head pressures 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. 300 Series 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



Product Number	END CAP
0701 011	1-1/2" 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
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

Product Number	END CAP WITH HOSE BIBB
0701 516	1-1/2" 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

# EZ-Test™ Coupling

## “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



“Take a bite out of YOUR Testing costs!”



Product Number	Description
CP200 EZ	2" cast iron and plastic
C300 EZ	3" cast iron
C400 EZ	4" cast iron

### Here's how EZ it is to use the EZ-Test Coupling:



**1**

*Run pressure test.*



**2**

*Pull strap, and remove diaphragm.*



**3**

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

# No Hub Pipe Couplings

For joining No Hub cast iron soil pipe.  
 Sizes 1-1/2" to 15".

## FEATURES

**Lightweight** - Easily installs with standard 60 inch/lb. 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 C 1277
- Conforms to ASTM C 564 and ASTM A 240
- Meets or exceeds all CISPI® 310 specifications



Product Number	Pipe Size	Dimensions (inches) Width
C 150 C	1-1/2"	2.125
C 200 C	2"	2.125
C 215 C	2" x 1-1/2"	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

## MISSION TITE® SERVICE WEIGHT GASKETS

For connecting bell & spigot cast iron pipe.

Meets ASTM C 564

Dual Tite and Extra Heavy Gaskets available on request

Product 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 304 Series stainless steel shield accommodates additional sealing clamps to provide for greater load bearing contact

1-1/2" - 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** - 304 Series 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



Test	Gasket Physical Tests (ASTM C 564)	ASTM C 564
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 TRM 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

## SPECIFICATIONS

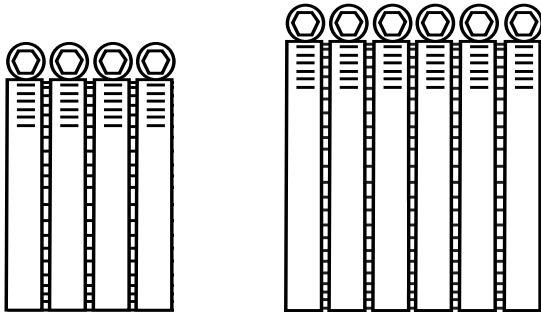
- Multiple bands attached to heavy duty, corrugated 304 Series stainless steel shield over a molded one-piece elastomer sealing sleeve
- Sealing rings on flanged neoprene rubber gasket meet or exceed the requirements of ASTM C 564
- Axially slotted heavy duty worm drive clamps tightened to 80 in/lbs of torque
- FM 1680 compliant
- Meets and exceeds all requirements of ASTM C 1540 and ASTM C 1277

Product Number	Pipe Size	Dimensions (in.) Width
C 150 HW	1-1/2"	3.000
C 200 HW	2"	3.000
C 215 HW	2" x 1-1/2"	3.000
C 300 HW	3"	3.000
C 320 HW	3" x 2"	3.000
C 400 HW	4"	3.000
C 430 HW	4" x 3"	3.000
C 500 HW	5"	4.000
C 600 HW	6"	4.000
C 800 HW	8"	4.000
C 1000 HW	10"	4.000
C 1200 HW	12"	5.500
C 1500 HW	15"	5.500

Gasket Dimensions	
D	W
1-1/2"	3.0
2"	3.0
3"	3.0
4"	3.0
5"	4.0
6"	4.0
8"	4.0
10"	4.0
12"	5.5
15"	5.5

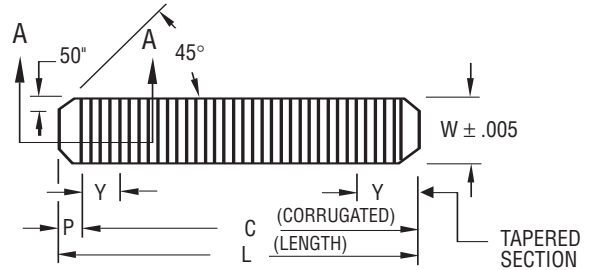
# Heavyweight Couplings

## SHIELD AND CLAMP ASSEMBLY

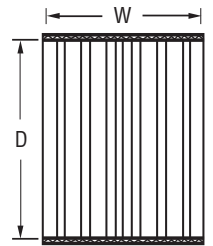
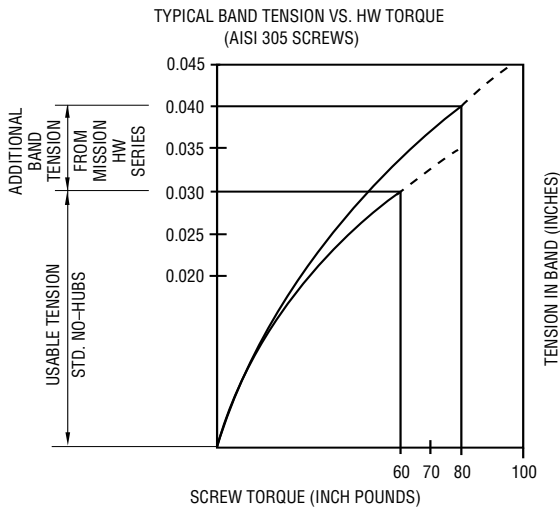
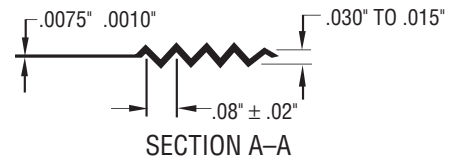


SIZES 1 1/2" THRU 4" – 4 BANDS 80 IN/LBS  
 SIZES 5" THRU 15" – 6 BANDS 80 IN/LBS

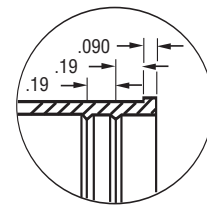
## SHIELD AND CLAMP ASSEMBLY



## SHIELD DETAIL



SEALING GASKET

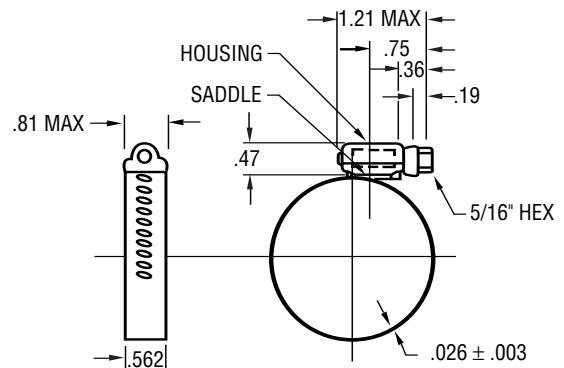


GASKET CROSS SECTION

SIZES 1 1/2" THRU 4" –  
 4 SEALING RINGS/SIDE  
 SIZES 5" THRU 10" –  
 6 SEALING RINGS/SIDE

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

## SCREW TORQUE (INCH POUNDS)



CLAMP DETAIL

# Flo-Bloc® Inflatable Test Plugs

## MULTI-SIZE SHORT TEST PLUGS

Handle all testing requirements from 1-1/4" to 6" nominal size.

Flo-Bloc® multi-size short test plugs provide a tool capable of handling a variety of testing requirements. Only four short plugs are required to seal a wide range of pipe and/or fittings (1-1/4" to 6" nominal diameter), making Flo-Bloc® perfect for the full spectrum of testing needs.



### FEATURES

**Patent-pending concave bottom** - Increased contact area with pipe reduces likelihood of plug blowout under maximum back pressure

**Bell shaped ribs** - Superior seal even when plug is installed at an angle

**High quality injection molded rubber** - Longer product life than plugs manufactured using more traditional techniques

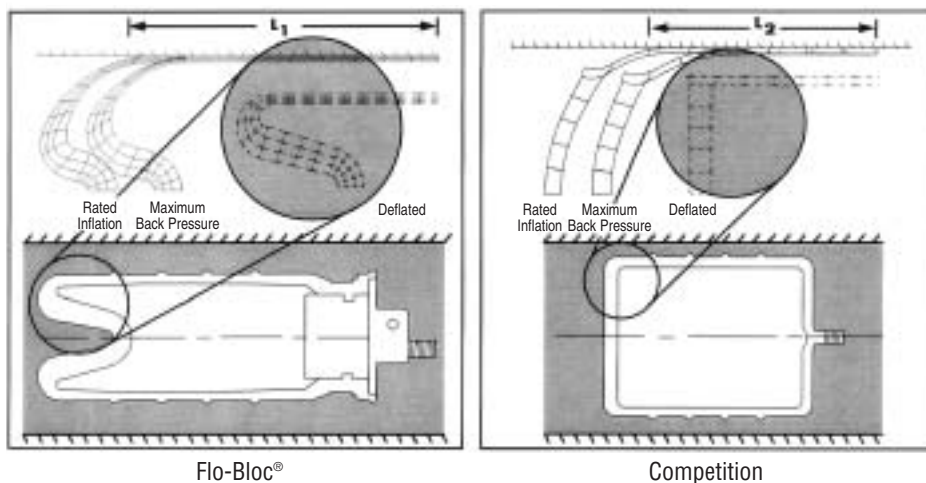
**Durable handle and cable** - Zinc-plated ring with high strength aircraft cable attached directly to plastic end cap eliminates air valve and extension hose strain

**100% inflation tested for safety** - Backed by the service and support of Mission Rubber Company

Part No.	Nominal Pipe Size	Rated Inflation Pressure	Pipe IDs		Maximum Allowable Back Pressure	
			Min. Dia	Max. Dia	Air	Water
MS 1-2	1-1/4" - 2" (30-50mm)	45 psig (3.15 bar)	1.17" (30mm)	2.25" (57mm)	5 psig (0.35 bar)	30 ft. hd. (9 meters)
MS 2-3	2" - 3" (50-75mm)	45 psig (3.15 bar)	1.90" (48mm)	3.25" (83mm)	5 psig (0.35 bar)	30 ft. hd. (9 meters)
MS 3-4	3" - 4" (75-100mm)	40 psig (2.80 bar)	2.88" (73mm)	4.25" (108mm)	5 psig (0.35 bar)	30 ft. hd. (9 meters)
MS 4-6	4" - 6" (100-150mm)	35 psig (2.45 bar)	3.77" (96mm)	6.25" (159mm)	5 psig (0.35 bar)	30 ft. hd. (9 meters)

Fig. 1. Flo-Bloc® Multi-Size Short Test Plugs result in increased pipe contact area.

Diagram illustrates the advantage of Flo-Bloc's® concave bottom versus a conventional design.  $L_1$  is approximately 25% greater than  $L_2$  rated inflation.



# Flo-Bloc® Inflatable Test Plugs

## MULTI-SIZE DUAL STAGE LONG TEST PLUGS

Handle all testing requirements from 2" to 6" nominal diameter.

Flo-Bloc® multi-size dual stage long test plugs are a versatile and economical tool with the durability of a quality Mission Rubber product. Only three Flo-Bloc® long plugs are required to seal a wide range of pipe and/or fittings (2" to 6" nominal diameter), making Flo-Bloc® the preferred choice.



### FEATURES

**Two inflation chambers** - Dual stage inflation and deflation lessens the likelihood of getting wet

**Multi-size capabilities** - Allows plugs to seal two different pipe sizes and/or fittings

**Rounded end plugs** - Easier installation

**Bell-shaped ribs** - A superior seal even when plug is installed at an angle

**High quality injection molded rubber** - Provides longer product life than plugs manufactured using traditional techniques

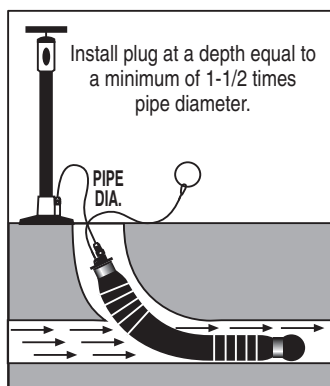
**Durable handle and cable** - Zinc-plated ring with high strength aircraft cable attached directly to plastic end cap eliminates air valve and extension hose strain

**Five-foot long extension hose**

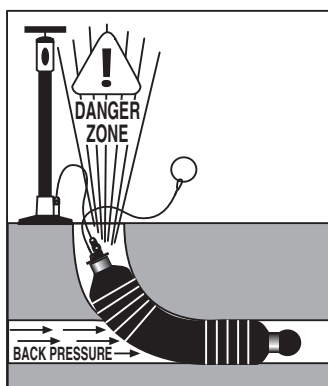
**100% inflation tested for safety** - Backed by the service and support of Mission Rubber Company

Part No.	Nominal Pipe Size	Rated Inflation Pressure	Pipe IDs		Maximum Allowable Back Pressure	
			Min. Dia	Max. Dia	Air	Water
ML 2-3	2" - 3" (50-75mm)	45 psig (3.15 bar)	1.75" (44mm)	3.25" (83mm)	10 psig (0.70 bar)	30 ft. hd. (9 meters)
ML 3-4	3" - 4" (75-100mm)	40 psig (2.80 bar)	2.75" (70mm)	4.25" (108mm)	10 psig (0.70 bar)	30 ft. hd. (9 meters)
ML 4-6	4" - 6" (100-150mm)	35 psig (2.45 bar)	3.50" (89mm)	6.25" (159mm)	10 psig (0.70 bar)	30 ft. hd. (9 meters)

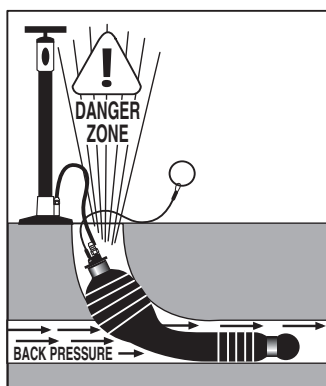
**DANGER:** Do not allow plug to protrude from pipe.



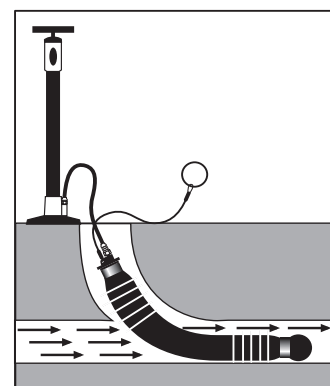
Step 1. Insertion



Step 2. Inflation and Use



Step 3. Deflation



Step 4. Removal

# Flo-Bloc® Inflatable Test Plugs

## TEE-SEALS

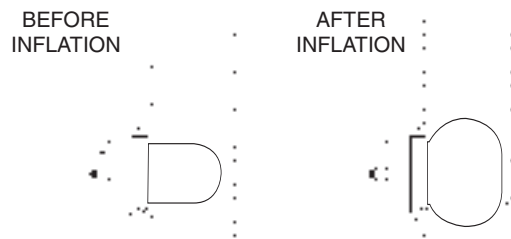
Designed for hydrostatic pressure tests in 2", 3" and 4" gravity flow threaded test tees (PVC, ABS and cast iron pipe).

### FEATURES

- Seals the branch and run portions of the tee
- No test water backsplash, 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



Product Number	Nominal Pipe Size	Inflation Pressure	Maximum Air Pressure	Maximum Water Pressure
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.



## MUNICIPAL SINGLE & MULTI-SIZE TEST PLUGS

Designed to block sewer flow, and manufactured of natural rubber and can be used to seal piping constructed of many different materials.

### FEATURES

- Removable 1/4" NPT (M) tire valve allows for easy replacement
- Built-in air relief valve (Series 500) prevents accidental over-inflation of plug
- Workers stay dry during plug removal



Product Number	Nominal Pipe Size	Diameter	Length	Weight	Required Inflation Pressure	Maximum Allowable Back Pressure		Valve Type	Eye Bolt Size
						Air	Water		
100-8	8" (200mm)	7.0" (178mm)	9.5" (241mm)	4.8 lbs. (2.18 kg.)	25 psi (1.75 bar)	10 psi (0.70 bar)	25 ft. hd. (7.5 meters)	Removable 1/4" NPT (M)	1/2"
100-10	10" (250mm)	9.0" (229mm)	12.0" (305mm)	7.6 lbs. (3.45 kg.)	20 psi (1.40 bar)	10 psi (0.70 bar)	25 ft. hd. (7.5 meters)	Removable 1/4" NPT (M)	1/2"
100-12	12" (300mm)	11.0" (279mm)	13.5" (343mm)	14.2 lbs. (6.45 kg.)	20 psi (1.40 bar)	10 psi (0.70 bar)	25 ft. hd. (7.5 meters)	Removable 1/4" NPT (M)	1/2"
500-610	6" - 10" (150-250mm)	4.85" (123mm)	21.0" (533mm)	6.4 lbs. (2.91 kg.)	35 psi (2.45 bar)	10 psi (0.70 bar)	25 ft. hd. (7.5 meters)	Removable 1/4" NPT (M)	1/2"
500-812	8" - 12" (200-300mm)	7.0" (178mm)	22.0" (559mm)	10.2 lbs. (4.64 kg.)	35 psi (2.45 bar)	10 psi (0.70 bar)	25 ft. hd. (7.5 meters)	Removable 1/4" NPT (M)	1/2"
500-1218	12" - 18" (300-450mm)	11.0" (279mm)	25.0" (635mm)	21.5 lbs. (9.77 kg.)	35 psi (2.45 bar)	10 psi (0.70 bar)	25 ft. hd. (7.5 meters)	Removable 1/4" NPT (M)	1/2"

# Flo-Bloc® Accessories

## T-Cone® Mechanical Stoppers

Mechanical stoppers 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"

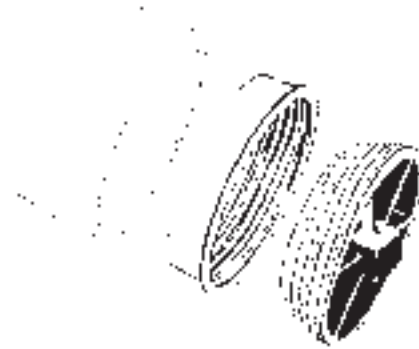
Fewest components in the industry

Reusable

Easy to install and remove

Holds high test pressures

Economical



Product No.	TEST PLUGS
ST-149	1-1/2" Cast iron
ST-152	1-1/2" Sch. 40 Plastic, Steel
ST-201	2" Cast Iron, Sch. 80 Plastic or 1-1/2" Sch. 40 Plastic Hub
ST-202	2" Sch. 40 Plastic, Steel, Copper (M and DWV)
ST-301	3" Cast Iron, Copper (M)
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, XHCI
ST-802	8" SDR 35 Plastic, Sch. 40 Plastic, Clay



## Extension Hose

Order our high pressure 1/4" I.D. inflation hose with Schrader (*automotive type*) fitting to fit Flo-Bloc® plugs.

Product No.	Extension Hose (1/4" I.D.)
EH 24	2 ft. length
EH 36	3 ft. length
EH 60	5 ft. length
EH 120	10 ft. length

## Hand Pump with Gauge

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

Product No.	Description
HPG-1	Hand Pump with Gauge



## STANDARD PIPE SIZES

	MATERIAL	4"	5"	6"	8"	10"	12"	15"	18"	21"	24"	27"
CLAY	Mission Clay	5.37	6.65	7.68	9.90	12.43	14.46	18.30	22.30	25.80	30.30	
	Building Products Clay	5.20		7.75	9.80	12.40	14.40	18.25	22.25	25.88	30.30	
	Eastern Standard Clay	5.23	6.31	7.44	9.84	11.99	14.36	18.20	21.93	25.91		
	Gladding/McBean Clay	5.36		7.82	9.99	12.47	14.52	18.03	21.47	25.22		
	Pacific Clay	5.36		7.93	9.93	12.88	15.30	18.60	22.40	26.40	30.10	33.90
METAL	No Hub Cast Iron	4.38	5.30	6.30	8.38	10.56	12.50	15.83				
	Service Wt. Cast Iron	4.30	5.30	6.30	8.38	10.50	12.50	15.88				
	Extra Heavy Cast Iron	4.50	5.50	6.50	8.62	10.75	12.75	15.88				
	Ductile Iron	4.80		6.90	9.05	11.10	13.20		19.50		25.80	
	Steel	4.50	5.56	6.62	8.62	10.75	12.75		18.00	21.00	24.00	
	Copper	4.13	5.13	6.13	8.13	10.13						
	Stainless Steel	4.00	5.00	6.00	8.00	10.00						
	Schedule 40 Plastic	4.50	5.56	6.62	8.62	10.75	12.75		18.00	21.00	24.00	
	Thinwall Plastic PVC (ASTM 3033) - SDR41	4.21		6.27	8.16	10.20	12.24					
	Thinwall Plastic PVC (ASTM 3034) - SDR35	4.21		6.27	8.40	10.50	12.50	15.30	18.70	22.05	24.80	
PLASTIC	Thinwall Plastic ABS (ASTM 2751)	4.21	5.30	6.27	8.40	10.50	12.50					
	Armco Truss				9.40	11.80	14.10					
	Bituminous Fiber Orangeberg	Min 4.64	Min 5.82	Min 6.92	Min 9.14							
	Asbestos Cement Class 1500 - Transite	4.81	5.90	6.92	9.02	11.12	13.22					
	Concrete	Min 5.50	Min 6.50	Min 7.75	Min 10.00	Min 12.45	Min 14.50	Min 19.60	Min 22.50	Min 26.00	Min 30.00	Min 32.00
MISC.												

### Limited Warranty

Mission Rubber Company 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 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.



## Mission Rubber Company

*A Division of MCP Industries, Inc.*

P.O. Box 2349 • CORONA, CA • 92878-2349

U.S.A. and CANADA: (800) 854-9991 • FAX (800) 637-4601 • INTERNATIONAL (951) 736-1343 • FAX (951) 736-0450