



Mission Rubber Company LLC

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MISSION
 RUBBER COMPANY

*Designed to join
 ribbed/corrugated
 profile pipe to smooth
 wall plastic drainage pipe*

MEETS:
 ASTM C 425
 ASTM C 1173
 ASTM A240/A240M



Flex-Seal® Corrugated Coupling - Submittal MR70 Series - 3" to 8" sizes

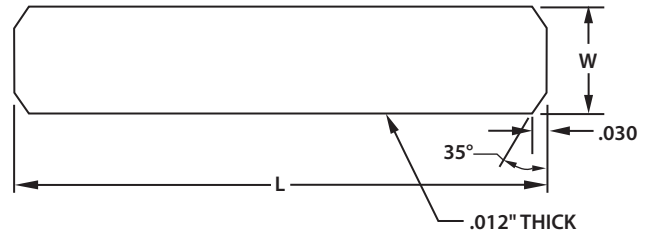
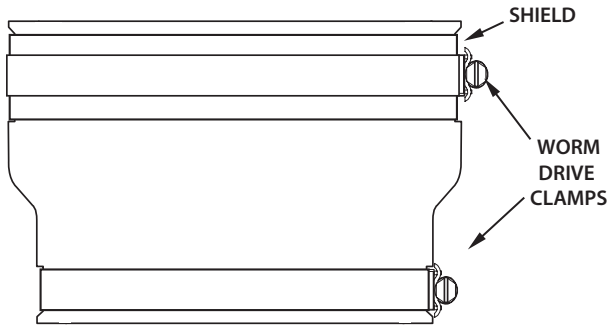
Performance Couplings for Similar and Dissimilar Pipe Sizes

PROJECT _____

ENGINEER _____

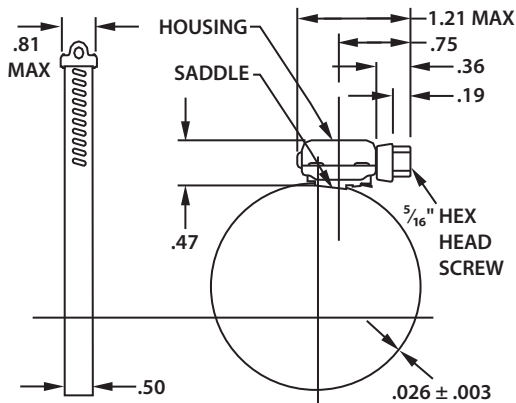
CONTRACTOR _____

MATERIALS
 Worm Drive Clamp 300 series ASTM stainless steel
 Shield 301 series ASTM stainless steel 0.012" thick
 Gasket This gasket is fabricated from a compound with high-quality elastomeric properties to meet physical testing.

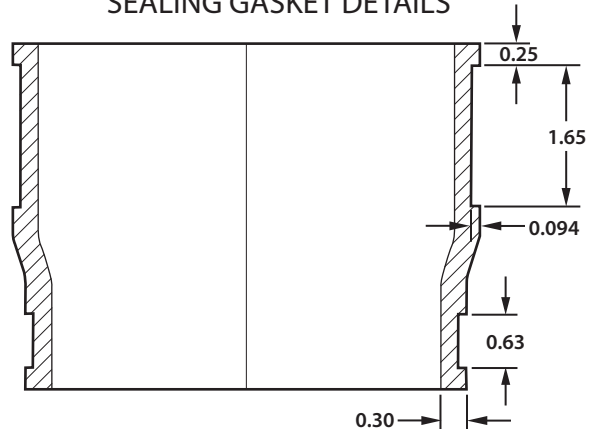


SHIELD DETAILS

WORM DRIVE CLAMP DETAILS



SEALING GASKET DETAILS



MISSION REFERENCE MR70 SERIES	SHIELD DIMENSIONS		SEALING GASKET DIMENSIONS		
	L	W	D1	D2	W
MR70 33	12.81	1.63	3.50	3.60	4.00
MR70 44	16.75	1.63	4.50	4.80	4.00
MR70 64	24.00	1.63	4.50	7.00	6.00
MR70 66	24.00	1.63	6.50	7.00	6.00
MR70 88	31.50	1.63	8.40	9.50	6.00

TEST	GASKET PHYSICAL TESTS (ASTM C 425)	ASTM C 425
Tensile Strength	1000 PSI minimum	D412
Elongation	250% minimum	D412
Durometer (Shore A)	55 minimum 70 maximum	D2240
Accelerated Aging	85% of original tensile strength 85% of original elongation All determined after oven aging at 70°C for 7 days	D573
Compression Set	20% maximum of original deflection	D395
Ozone Cracking	No visible cracking at 2X magnification of the gasket after 24 hours exposure in 0.5 PPHM ozone concentrations at 40°C. Testing and inspection to be on gasket which is loop-mounted to give approximately 20% elongation of outer surface.	D1149
Water Absorption	5% maximum by weight after 7 days at 70°F	D471

Used to Join - MR70 Series Couplings are used to join ribbed/corrugated profile pipe to smooth wall plastic drainage pipe.

Mission Rubber's Flex-Seal® Corrugated Coupling is a shielded storm water, sewer and drainage system coupling. The MR70 Series 3" to 8" coupling consists of two (2) 300 series worm drive clamps and a heavy duty 301 series stainless steel shield, over a molded one-piece elastomeric sealing gasket.

Leak-Proof Seal - Wide gasket and thick shield provide a positive seal, ensuring a water-tight, leak-proof and root proof seal.

Corrosion Resistant - 300 series stainless steel components are highly effective in a variety of environments; such as marine applications, poorly aerated or moist soils, contaminated ground conditions (particularly industrial fill sites) and where the ground water contains chloride, sulfates or bicarbonates.

Superior Rigidity - .012" thick 301 series stainless steel shield provides for superior load bearing control between the coupling and pipe surface. The coupling's rugged construction provides excellent sealing properties and the stainless steel shield provides excellent resistance to shear forces and helps with alignment, while maintaining flexibility.

Withstands Tension and Compression - Synthetic rubbers permit a substantial degree of distortion without change in basic physical resistance, unlike other manufacturers' thermoplastic coupling materials. Molded synthetic rubber gasket is strong, durable and resilient to ultraviolet rays, ozone, fungus growth, natural erosive properties of soil and normal sewer gases. More pliable and easier to install in cold weather applications than an elastomeric PVC gasket.

Pre-Set Calibration - All Flex-Seal® MR70 Series Couplings are designed to be installed with a pre-set torque wrench calibrated to 60 in/lbs. maximum to accommodate the 300 series stainless steel 5/16" hex head screw.