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723 Sonora Avenue
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SUBMITTAL

POC

Heavy Duty, Push-on type hubless coupling



MADE IN USA

Listed by **IAPMO per IGC 237-2006:** High Pressure Stainless Steel Shielded Couplings For Use With Hubless Cast Iron Soil Pipe and Fittings

GLOBAL PLUMBING & FIRE SUPPLY

Approved by **Factory Mutual per FM 1680 Class** 1 Industrial/Commercial: Approval Standard for Couplings Used in Hubless Cast Iron Systems for Drain, Waste, or Vent, Sewer, Rainwater or Storm Drain Systems Above and Below Ground, Industrial/ Commercial and Residential

Rated: 15 psi 60/80 in-lbs torque above/below ground

Description:

Heavy duty no hub coupling with conventional stainless steel shield and uniquely formed neoprene gasket. Exceeds the performance requirements of ASTM C1540. Each end of the gasket has a funnel shaped extension that overhangs the edges of the stainless steel shield. The ends of the gasket protect the workers' hands from the sharp edges of the shield and keep the gasket from separating from the shield. Pipe or fittings can be directly pushed into the coupling without having to separate the gasket from the shield. Meets all ***performance*** requirements for heavy duty couplings.

Statement of equivalence

The POC coupling conforms to the material content specifications of ASTM C1277, CISPI 310, and ASTM C1540[1] but the improved gasket design prevents strict compliance with the dimensional requirements of those standards. However, by meeting all the performance requirements of IGC 237, FM 1680, and ASTM C1540[1] the POC coupling surpasses the performance requirements of all the ASTM and CISPI standards. See the performance requirements below.

Compliance with standards

Requirement	IGC 237	FM 1680	CISPI 310	ASTM C1277	ASTM C1540[1]
Material					
300 SS shield	**X**	no spec	**X**	**X**	**X**
305 SS screw	**X**	no spec	**X**	**X**	no spec
Screw head hex unslotted	no spec	no spec	**X**	**X**	**X**
Shield Dimensions	no spec	no spec	**X**	**X**	no
Clamp Quantity	no spec	no spec	**X**	**X**	no spec
Clamp torque					
60 in/lbs x 115%	**X**	**X**	no spec	no spec	no spec
60 in/lbs x 125%	no spec	no spec	**X**[1]	**X**[1]	**X**[1]
80 in/lbs x 115%	**X**	**X**	no spec	no spec	no spec
80 in/lbs x 125%	no spec	no spec	**X**[1]	**X**[1]	**X**[1]
Neoprene gasket C564	**X**	**X**	**X**	**X**	**X**
Gasket dimensions	no spec	no spec	no	no	no

[1] Factory Mutual tested the POC coupling to the performance requirements of ASTM C1540.

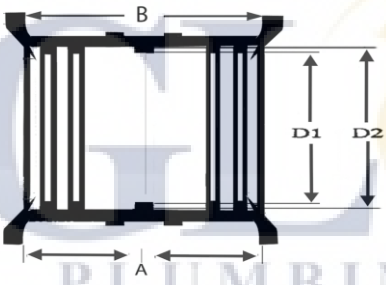
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Requirement	IGC 237	FM 1680	CISPI 310	ASTM C1277	ASTM C1540[1]
Performance					
Rated pressure 15 psi or higher	**X**	**X**	no spec	no spec	no spec
Deflection					
½" @ 4.3 psi	no spec	no spec	**X**	**X**	no spec
1" @ 8.6 psi	no spec	no spec	no spec	no spec	**X**
1" @ 15 psi	**X**	**X**	no spec	no spec	no spec
Shear					
50 lbs/in dia. @ 4.3psi	no spec	no spec	**X**	**X**	no spec
50 lbs/in dia. @ 8.6 psi	no spec	no spec	no spec	no spec	**X**
100 lbs/in. dia @ 15 psi	**X**	see Bending Moment	no spec	no spec	no spec
Bending moment	no spec	**X**	no spec	no spec	no spec
Unrestrained hydrostatic max 0.15 movement					
15 psi/10 min 1½"-5"	no spec	**X**	no spec	no spec	no spec
20psi /10 min 1½"-5"	**X**	no spec	**X**	**X**	no spec
18psi/10 min 6"	**X**	**X**	**X**	**X**	no spec
10psi/10 min 8"	**X**	**X**	**X**	**X**	no spec
30psi / 15 min 1½"-5"	no spec	no spec	no spec	no spec	**X**[1]
27psi/ 15 min 6"	no spec	no spec	no spec	no spec	**X**[1]
15psi/ 15 min 8"	no spec	no spec	no spec	no spec	**X**[1]
Blockage					
8 hr / 15 psi	**X**	**X**	no spec	no spec	no spec
Gasket High Temp					
45 days @ 180° F	no spec	**X**	no spec	no spec	no spec
Gasket Low Temp					
4 days @ 0° F	no spec	**X**	no spec	no spec	no spec
Vibration 5 hours	no spec	**X**	no spec	no spec	no spec
Salt spray 10 days	no spec	**X**	no spec	no spec	no spec

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Material Content

Gasket	Neoprene per ASTM C564	Test method
	Hardness	ASTM D2240
	Elongation	ASTM D412
	Tensile strength	ASTM D412
	Tear strength	ASTM D624
	Compression set	ASTM D395
	Heat aging	ASTM D573
	Water absorption	ASTM D471
	Ozone resistance	ASTM D1149
	Oil Immersion	ASTM D471
Shield/Clamp assembly		Content
	Bands	301SS
	Rivets	300 SS
	Screw	305 SS
	Screw housing	301SS
	Shield	301SS



Nominal Size	A	B	D1	D2
1 ½”	1.062	2.125	1.531	1.937
2”	1.062	2.125	1.968	2.343
3”	1.062	2.125	2.968	3.343
4”	1.062	2.125	4.000	4.406
6”	1.500	3.000	5.968	6.343
8”	2.000	4.000	7.968	8.343

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Approved by:

City of Los Angeles
City of New York
City of San Antonio
Commonwealth of Massachusetts
State of Maryland
State of Oregon





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