



SUBMITTAL STANDARD NO-HUB COUPLINGS

Date	
Architect	Project
Contractor	Engineer

Standard No - Hub Couplings			
Size	Part No.	Installation Torque Inch Pounds	No. of Clamps Per Coupling
1-1/2"	6217M8G	60	2
2"	6218M8G	60	2
3"	6219M8G	60	2
4"	6220M8G	60	2
5"	6221M8G	60	4
6"	6222M8G	60	4
8"	6223M8G	60	4
10"	6230M8G	60	4
2" X 1-1/2"	6233M8G	60	2
3" x 2"	62R198G	60	2
4" x 3"	62R208G	60	2

Ideal patented No-Hub Couplings are engineered to connect no-hub cast iron pipe in applications replacing the less-efficient hub & spigot material. The couplings consists of a neoprene gasket (ASTM C-564) housed inside a 301 stainless steel corrugated shield. Depending on the size of the shield, (2) or (4) 301 stainless steel clamps surround the shield and provide the sealing force. The 5/16" hex-head screws are made from 305 stainless steel. The Ideal Standard No-Hub Couplings are available in sizes ranging from 1 1/2" – 10". The couplings are designed for installation torque of 60 in-lbs. The entire coupling is corrosion resistant.

The Design

The Ideal Standard No-Hub Coupling is engineered to provide superior performance at a very competitive cost.

The Gasket

Made from high-quality neoprene (ASTM C-564), the Ideal No-Hub gasket features multiple sealing beads under the clamp bands. The sealing beads on the gasket impede the movement of the gasket and pipe, providing a positive, reliable seal.

The Shield

0.007" thick type 301 stainless steel shield requires less band load to transfer pressure to the gasket, leaving more clamping load in reserve to compress the gasket. The patented, bi-directional corrugations create clamp sealing pressure in both parallel and transverse patterns on the gasket and pipe, thereby avoiding pull-out failures, and providing a positive, reliable seal.

The Clamps

Standard 301 stainless steel clamps and 5/16" hex-head 305 screws provide the sealing force. 1-1/2" through 4" couplings use two (2) clamps; 5" through 10" couplings use four (4) clamps. The entire assembly is corrosion resistant.



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Product Information Submittal for No-Hub Systems

TEST	GASKET PHYSICAL TEST MIN. OR MAX. REQUIREMENTS	ASTM METHOD
Tensile Strength	1500 psi min.	D 412
Elongation	250 min.	D 412
Durometer (Shore A)	70 +/-5 @ 76°F +/- 5°F	D 2240
Accelerated Aging	15% maximum tensile and 20% maximum elongation, 10 points maximum increase in hardness, all determinations after oven aging for 96 hours at 158°F	D573
Compression Set	25% max. after 22 hours at 158°F	D 395
Oil Immersion	80% max. volume change after immersion in IRM 903 for 70 hours at 212°F.	Method B D 471
Ozone Cracking	No visible cracking at 2 times magnification of the gasket after 100 hours exposure in 1.5 ppm ozone concentration at 104°F. Testing and inspection to be on gasket which is loop mounted to give approximately 20% elongation of outer surface.	D 1149
Tear Resistance	150 lbf /in. min.	D 624
Water Absorption	20% max. by weight after 7 days at 158°F	D 471

MATERIALS

- Clamp:** Type 301 AISI stainless steel
Screw: Type 305 AISI stainless steel 5/16" hex head/shoulder
Shield: Type 301 AISI stainless steel, corrugated. Shield thickness 0.007"
Gasket: The gasket shall be fabricated from a compound containing high quality neoprene as the sole elastomer. ASTM C-564.

The Ideal patented No-Hub Coupling has been engineered to provide an all stainless steel coupling; balancing the desire for a more rigid joint with the need to provide a superior, positive, reliable seal which can accommodate possible disparities in the mating of No-Hub pipe and fittings.

The 1-1/2", 2", 3" and 4" diameter couplings consist of a 2 1/8" wide bi-directional, corrugated 301 stainless steel shield in conjunction with two (2) stainless steel clamps mounted in a series, secured in place by means of fixed and "floating" eyelets to allow the clamp "travel" during tightening. The 5" and 6" couplings consist of a 3" wide corrugated 301 stainless steel shield in conjunction with four (4) clamps and the 8" and 10" coupling consists of a 4" wide corrugated 301 stainless steel shield with four (4) stainless steel clamps.

All Ideal standard no-hub couplings are designed to be installed with a pre-set torque wrench calibrated at 60 in-lbs. to accommodate the 305 stainless steel 5/16" hex-head/shoulder screw.