



**SUBMITTAL
12" AND 15" HEAVY-DUTY
NO-HUB COUPLINGS**

Date

Architect	Project
Contractor	Engineer

IDEAL-TRIDON patented No-Hub Couplings are engineered to connect no-hub cast iron pipe in applications replacing the less-efficient hub & spigot material. The Couplings consist of an elastomeric compound gasket (ASTM C-564) housed inside a 304 stainless steel corrugated shield. Six (6) 304 stainless steel clamps surround the shield and provide the sealing force. The 3/8" hex-head screws are made from 305 stainless steel. The Couplings are designed for installation torque of 120 in-lbs. The entire coupling is corrosion resistant.

12" & 15" Heavy-Duty No - Hub Couplings			
		Installation Torque Inch Pounds	No. of Clamps Per Coupling
Size	Part No.		
12"	6231M8G	120	6
15"	6232M8G	120	6

The Design

The IDEAL-TRIDON 12" and 15" Heavy-Duty No-Hub Coupling are engineered to provide superior performance at a very competitive cost. Conforms to ASTM C-1277.

The Gasket

Made from high-quality elastomeric compound (ASTM C-564), the IDEAL-TRIDON No-Hub gasket features a pattern of multiple, thick sealing sectors and adjacent groove sectors laterally spaced. When the clamps are tightened, this pattern permits the clamping bands and the shield to form a restriction impeding the movement of the shield relative to the gasket.

The Shield

0.008" thick type 304 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. In addition, the shield design adjusts to differences in the circumference and outside diameters of the pipes being joined. This eliminates gasket wrinkling and thereby eliminating leak paths.

The Clamps

Heavy-duty 304 stainless steel clamps and 3/8" hex-head 305 screws provide the sealing force. Both the 12" and the 15" coupling use six (6) 5/8" wide clamps. The entire assembly is corrosion resistant.

12" & 15" NO-HUB COUPLINGS
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 Method B
Oil Immersion	80% max. volume change after immersion in IRM 903 for 70 hours at 212°F.	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.	D1149
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 304 AISI stainless steel
Screw:	Type 305 AISI stainless steel 3/8" hex head/shoulder
Shield:	Type 304 AISI stainless steel, corrugated. Shield thickness 0.008"
Gasket:	The gasket is made of an elastomeric compound that meets the requirements of ASTM C-564.

The IDEAL-TRIDON 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. This has been accomplished by manufacturing our coupling with our standard corrugated shield of sufficient width to accommodate additional surface-bearing sealing clamps.

The additional sealing clamps, when torqued to 120 in-lbs., deliver additional performance benefits. First, the overall dimensional thickness of the clamp and shield, in conjunction with the additional width of the coupling, result in a more uniformly rigid joint, with the load being supported at both the outer edge of the coupling and the centerline of the joint. Second, the additional sealing clamps yield increased surface-bearing contact between the coupling and the pipe or fittings, thereby inhibiting joint movement at higher internal pressures not commonly associated with DWV systems.

The 12" and 15" diameter couplings consist of a 5 1/2" wide bi-directional, corrugated 304 stainless steel shield in conjunction with six (6) stainless steel clamps mounted in a series, secured in place by means of fixed and "floating" eyelets to allow the clamp "travel" during tightening.

Country of Origin - USA