



SUBMITTAL: COUPLINGS AND HUBLESS CAST IRON SOIL PIPE AND FITTINGS



DESCRIPTION

TYLER NO-HUB couplings meet ASTM Standard C1277 and CISPI 310. Couplings consist of a knurled stainless steel shield, clamp assembly and a molded one-piece Neoprene sealing sleeve. The coupling is used to join hubless cast iron soil pipe and fittings made according to ASTM A 888 and/or CISPI Standard 301. NO-HUB couplings are currently available in sizes 1½" through 15" diameters.

COUPLINGS MATERIALS

TYLER NO-HUB sealing sleeves are made of Neoprene as the sole elastomer. Chemical characteristics of Neoprene assure that the gasket will not decay or deteriorate from contact with effluents in the pipe or chemicals in the soil or air around the pipe.

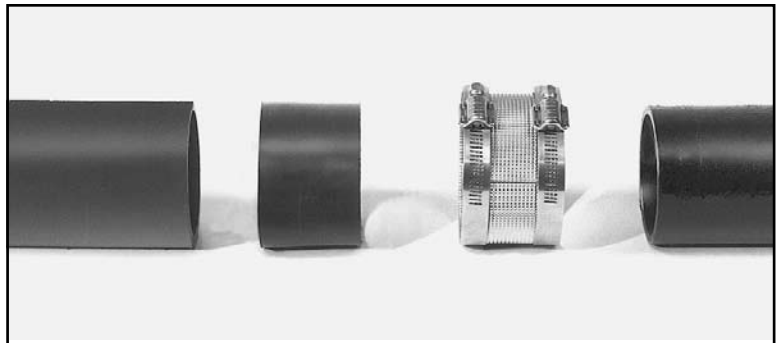
The stainless steel shield and clamp assemblies are corrosion-resistant.

COUPLING SPECIFICATION

TYLER NO-HUB sealing sleeves conform strictly to ASTM Standard C 564. The TYLER No-Hub coupling also conforms to requirements of CISPI Standard 310 (latest revision), ASTM C-1277 and Federal Specification WW-P-401.

PIPE SPECIFICATION

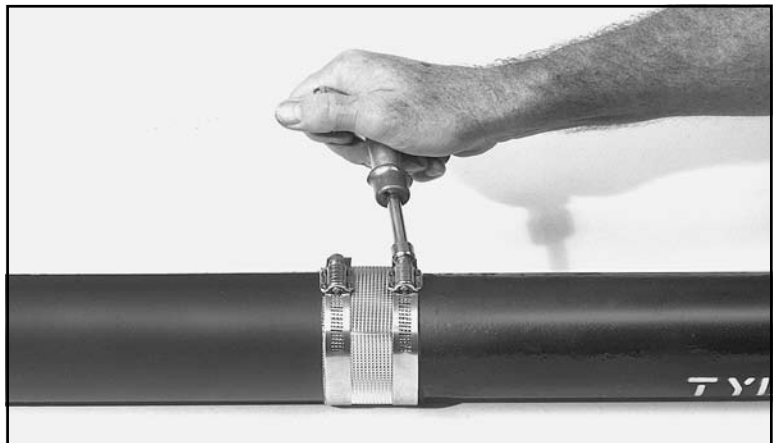
TYLER hubless cast iron soil pipe and fittings meet ASTM A888 and/or CISPI Standard 301, (latest revision), and comply with Federal Specifications WW-P-401E. (Type III.)



1. Loosen screws, separate shield and sleeve. Slip shield over one spigot.



2. Insert spigots into sleeve. Be sure that both spigots butt on center retainer inside sleeve.



3. Position shield over sleeve, tighten screws alternately to proper torque. Torque 1½" - 10" = 60 in. lbs.
12" - 15" = 80 in. lbs.

BRACING:

To prevent movement, horizontal pipe and fittings 5" and larger should be suitably braced by the use of blocks, rodding or other suitable methods at every branch or change of direction.

TEST:

For best results, test one floor (ten feet) at a time. The system should be properly restrained; all bends, changes of direction and ends of runs should be restrained.



PHYSICAL PROPERTIES OF NO-HUB GASKETS

Physical Property	ASTM Test Method	Performance Requirement
Tensile Strength	D412	1500 PSI minimum
Elongation at Break	D412	250%, minimum
Hardness, Durometer (A)	D2240	70±5 at 76°±5°F
Tear Resistance	D624 (Die C)	150 lbs. per in. minimum
Water Absorption (Wt. change, 7 days at 185°F)	D471	20% maximum
Resistance to heat aging	D573	
Change in original properties after 96 hours at 158°F.		
Hardness		10 pts. maximum
Elongation		20% maximum
Tensile Strength		15% maximum
Resistance to oil aging	D471	
Change in volume after 70 hours immersion in ASTM #3 oil at 212°F		80% maximum
Resistance to ozone	DI149	
Condition after exposure to 1.5 ppm ozone in air for 100 hours at 100°F (Loop mounted sample at 20% elongation)		No cracks at 2x magnification
Resistance to permanent set	D395	
Compression set after 22 hours at 185°F	(Method B)	25% maximum

JOINT CHARACTERISTICS:

NO-HUB gaskets joints will not leak even if deflected as much as five degrees either side, or when subjected to vibration, seismic tremors, expansion, contraction, external or internal test pressures.

QUALITY CONTROL:

Component parts of the NO-HUB Coupling must meet material standards and tests in conformance with Tyler Quality Control processes.

AVAILABILITY OF PRODUCT:

TYLER NO-HUB couplings are sold through established plumbing distribution channels.

PLUMBING CODES:

National plumbing codes and government agencies provide for Hubless Cast Iron Sanitary Systems.

HOW TO SPECIFY:

TYLER hubless coupling shall be used in joining the Hubless Cast Iron Sanitary System for soil, waste, vent and house or building sewer lines. Pipe and fittings shall bear the registered insignia Φ or Φ NO-HUB indicating that these items comply with the Cast Iron Soil Pipe Institute Standard 301. (latest revision).