



We're tightening our grip on performance and your hold on confidence.

Discover The Wide-Body, Heavy-Duty, High-Performance Coupling From Tyler Pipe.

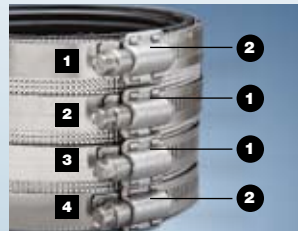
Tyler Pipe set most of the product standards for soil pipe in drain, waste and vent applications. So it shouldn't surprise you that our new wide-body, heavy-duty couplings tighten our grip on performance even more. Constructed of heavier 304 series stainless steel to maximize corrosion resistance and installed with 80-inch pounds of torque, they literally increase sealing compression by 33% to put a lock on leaks. Manufactured to the ASTM C 1540-04 and FM 1680 class 1 standards, these couplings feature our neoprene sealing sleeves, proven to maintain joint integrity despite vibration, deflection, expansion and contraction while resisting deterioration due to chemical and effluent contact. And they include our trademark diamond-patterned stainless steel shield and integrated sealing-band assembly to deliver easy installation, even compression and increased joint rigidity. So now more than ever, whether you need a whole system you can trust or a single coupling that won't let you down, ask for Tyler Pipe, because anything less...is less.

Tightening Sequence

Contact your Tyler Pipe representative for complete installation instructions. Follow these guidelines for the correct tightening sequence.

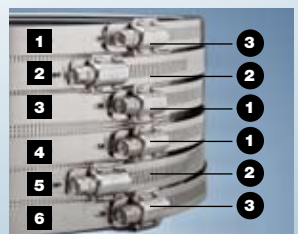
Typical 4-Band Coupling Application

- 1 Tighten bands **2** and **3** alternately to 80-inch pounds of torque
- 2 Tighten bands **1** and **4** alternately to 80-inch pounds of torque



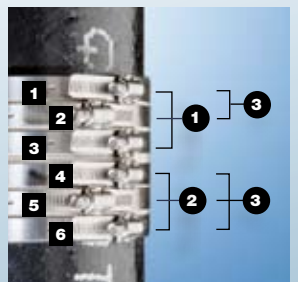
Typical 6-Band Coupling Application

- 1 Tighten bands **3** and **4** alternately to 80-inch pounds of torque
- 2 Tighten bands **2** and **5** alternately to 80-inch pounds of torque
- 3 Tighten bands **1** and **6** alternately to 80-inch pounds of torque



6-Band Coupling Min-Max Application (mating pipes with slight diameter mismatch)

- 1 First torque the smaller (min) side **3-2-1** and **3-2-1** again
- 2 Then torque the larger (max) side **4-5-6** and **4-5-6** again
- 3 Finally, torque **2-1** and **4-5-6** to 80-inch pounds



Description:

Tyler Pipe heavy-duty couplings consist of two components: a molded, one-piece neoprene sealing sleeve and a stainless steel shield/clamp assembly featuring multiple compression bands over our trademark diamond-corrugation shield pattern. Manufactured to the ASTM C 1540-04 and FM 1680 class 1 standards, they are wide-body, high-performance couplings designed to connect cast iron hubless soil pipe and fittings in sanitary and storm drains as well as waste and vent applications. In addition, they are IAPMO listed and engineered specifically for use with pipe and fittings made according to CISPI Standard 301 and/or ASTM A 888. Available in a range of diameters, Tyler Pipe high-performance couplings are wider and heavier than standard couplings and are installed with a higher 80-inch pounds of torque.

SEALING SLEEVE / SEALING RINGS

Conforming to ASTM standard C 564, Tyler Pipe wide-body sealing sleeves are made of neoprene as the sole elastomer to resist decay and deterioration from contact with effluents in the pipe or chemicals in the soil or air around the pipe. A double row of raised sealing rings is positioned under each compression band to provide multiple sealing surfaces on either side of the connection. This ensures a permanent, leak-proof joint that can reliably accommodate minor pipe mating diameter variations.

floating eyelet system that allows each clamp variable adjustment during tightening. Our shield's patented diamond-pattern corrugation design locks the sealing sleeve under the shield and prevents slippage or extrusion even under elevated internal pressure or external stress. The coupling's wider dimension and extra bands also provide increased rigidity for the piping system. 1 1/2"-4" diameter sizes are produced with a 3"-wide shield and four stainless steel compression bands. 5"-10" diameter sizes are made with a 4"-wide shield and employ six bands.

SHIELD AND CLAMP ASSEMBLY

Tyler Pipe heavy-duty couplings incorporate shield and clamp assemblies fabricated from 304 series stainless steel for maximum corrosion resistance. Clamping bands are mounted in series and attached to the shield by a fixed and

JOINT CHARACTERISTICS

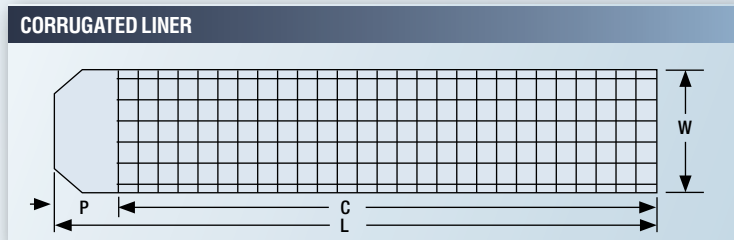
A superior gasket joint is produced with a Tyler Pipe heavy-duty coupling. It is designed not to leak even when subjected to vibration, seismic tremors, expansion, contraction, deflection by as much as 10 degrees or external as well as internal test pressure.

RECOMMENDED SPECIFICATION

Tyler Pipe wide-body, heavy-duty couplings meeting the ASTM C 1540-04 and FM 1680 class 1 standards shall be used to connect all cast iron soil pipe and fittings for hubless cast iron sanitary systems in soil, waste, vent and house or building sewer lines. Pipe and fittings shall bear the registered insignia C or C NO-HUB, indicating that these items comply with the Cast Iron Soil Pipe Institute Standard 301.

QUALITY CONTROL AND DOCUMENTATION

Regular performance testing is conducted to verify conformance of all components to material standards and Tyler quality control processes. Certificates and reports validating all claims contained in this document will be supplied upon written request.



CORRUGATED LINER DIMENSIONS				
Pipe Size	P	C	L	W
1 1/2"	5/8" to 1"	6 5/8" to 6 1/2"	7 1/2" ± 1/8"	3.0"
2"	5/8" to 1"	8 3/8" to 8"	9 ± 1/8"	3.0"
3"	5/8" to 1"	11 5/8" to 11 1/4"	12 1/4" ± 1/8"	3.0"
4"	5/8" to 1"	15" to 14 5/8"	15 5/8" ± 1/8"	3.0"
5"	2 1/4" to 2 1/2"	17 1/16" to 17 7/16"	19 15/16" ± 3/16"	4.0"
6"	2 1/4" to 2 1/2"	20 3/8" to 20 1/8"	22 5/8" ± 3/16"	4.0"
8"	3 ± 1/8"	26 1/32" ± 1/8"	29 1/32" ± 3/16"	4.0"
10"	3 ± 1/8"	31" ± 1/8"	35 1/4" ± 3/16"	4.0"

GASKET DIMENSIONS	
D	W
1 1/2"	3.0"
2"	3.0"
3"	3.0"
4"	3.0"
5"	4.0"
6"	4.0"
8"	4.0"
10"	4.0"

MATERIAL SPECIFICATION	
Bands	304 AISI Stainless Steel
Screw Housing	305 AISI Stainless Steel 5/16" hex head slant shoulder
Shield	304 AISI Stainless Steel
Sealing Sleeve	Neoprene elastomer compound conforms to ASTM C 564

PHYSICAL PROPERTIES		
Property	Value	ASTM Test Method
Tensile Strength	1500 psi. minimum	D 412
Elongation of Break	250%, minimum	D 412
Hardness, Durometer (A)	70 ± 5 at 76° ± 5 ° F	D 2240
Tear Resistance	150 lbs. per inch, min.	D 624 (Die C)
Water Absorption (Wt. change, 25% maximum 7 days at 185° F)	20% maximum	D 471
Resistance to Heat Aging (Change in original properties after 96 hrs. at 158° F)		D 573
Hardness	10 points, maximum	
Elongation	20% maximum	
Tensile Strength	15% maximum	
Resistance to Oil Aging (Change in volume after 70 hrs. Immersion in ASTM No 3 oil at 212° F)	80% maximum	D 471
Resistance to Ozone (Condition after exposure to 1.5 ppm ozone in air for 100 hrs. at 100° F – Loop-mounted sample at 20% elongation)	No Cracks at 2x Magnification	D 1149
Resistance to Permanent Set (Compression set after 22 hrs. at 185° F)	25% maximum	D 395 (Method B)

Complete System...Complete Confidence

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