



SUBMITTAL: EZ-TIGHT GASKETS



DESCRIPTION:

Ez-Tight is a one-piece compression gasket. It is used for joining hub and spigot cast iron soil pipe and fittings made according to ASTM A 74.

GASKET SPECIFICATION:

Ez-Tight gaskets conform strictly to ASTM Standard C 564, latest issue.

JOINT CHARACTERISTICS:

Gasket joints will not leak even if deflected as much as 5 degrees, or when subjected to vibration, seismic tremors, expansion, contraction, external or internal test pressure.

PHYSICAL PROPERTIES

Property	Performance Requirement			ASTM Test Method
Hardness (nominal durometer ± 5) as specified by the pipe manufacturer	50	60	70	D2240
Elongation, min, percent	350	300	250	D412
Tensile strength, min, psi (MPa)	1500 (10)	1500 (10)	1500 (10)	D412
Tear Resistance, min, lbf/in. (N/cm)	150 (268)	150 (268)	150 (268)	D624
Compression set, max, percent	25	25	25	D395
Heat aging, 96 h at 158° \pm 2° F (70° \pm 1° C)				D573
Hardness, increase, max, durometer points	10	10	10	-
Loss in tensile strength, max, percent	15	15	15	-
Loss in elongation, max, percent	20	20	20	-
Water absorption:				D471
Weight increase, max, percent	20	20	20	-
Ozone resistance no cracks	no cracks	no cracks	D1149	
Oil immersion:				
Volume increase, max, percent	80	80	80	D471

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.

GASKET MATERIAL:

Ez-Tight gaskets are made of Neoprene as the sole elastomer. The physical characteristics of the Neoprene ensure 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.

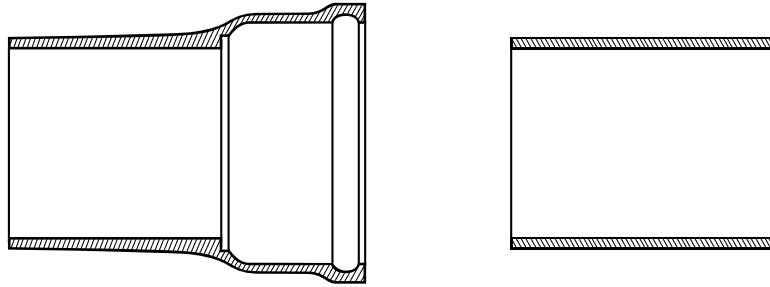
NOTE: An adhesive lubricant is required for TY-SEAL and EZ-TITE gasket sizes 5-inch and larger diameters. Tyler offers LUBRI/FAST® LUBRICIANT for this application.

HOW TO SPECIFY:

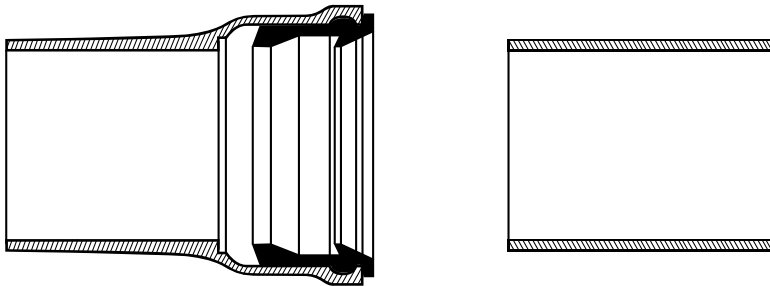
All 2-inch through 6-inch hub and spigot cast iron soil pipe and fittings shall conform to ASTM A 74; joints shall be made either by caulked lead and oakum or by compression gaskets which conform to ASTM C 564.



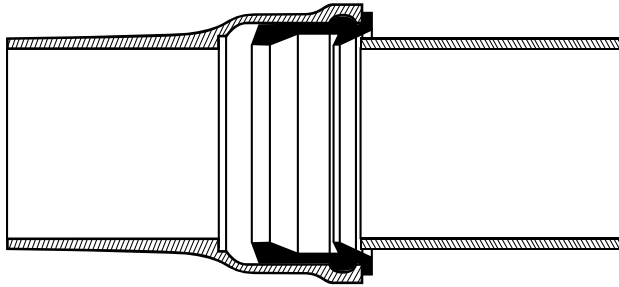
SUBMITTAL: TY-SEAL GASKETS, HUB & SPIGOT CAST IRON SOIL PIPE & FITTINGS



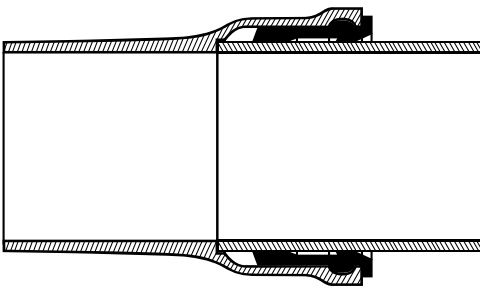
1. Clean hub and spigot to be joined.



2. Insert gasket in the hub, lubricate inside the gasket



3. Align hub and spigot.



NOTE: An adhesive lubricant is required for TY-SEAL and EZ-TITE gasket sizes 5-inch and larger diameters. Tyler offers LUBRI/FAST® LUBRICIANT for this application.

4. Pull or push spigot through the gasket until firmly sealed.

DESCRIPTION

TY-SEAL is a one-piece compression gasket. It is used for joining hub and spigot cast iron soil pipe and fittings made according to ASTM A 74.

GASKET MATERIAL

TY-SEAL gaskets are made of Neoprene as the sole elastomer. The physical characteristics of the Neoprene ensure 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.

GASKET SPECIFICATION

TY-SEAL gaskets conform strictly to ASTM Standard C 564, latest issue. The TY-SEAL mill specification meets or exceeds all requirements.

PIPE SPECIFICATION

TYLER hub and spigot cast iron soil pipe and fittings comply with the latest issue of ASTM A 74, ANSI A 112.5.1 and Federal Specification WW-P-401E.

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.



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.

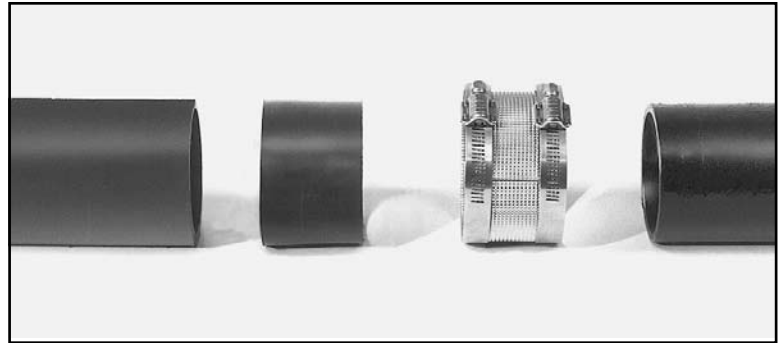
The stainless steel shield and clamp assemblies are corrosion-resistant.

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, ASTM C-1540 and Federal Specification WW-P-401.

PIPE SPECIFICATION

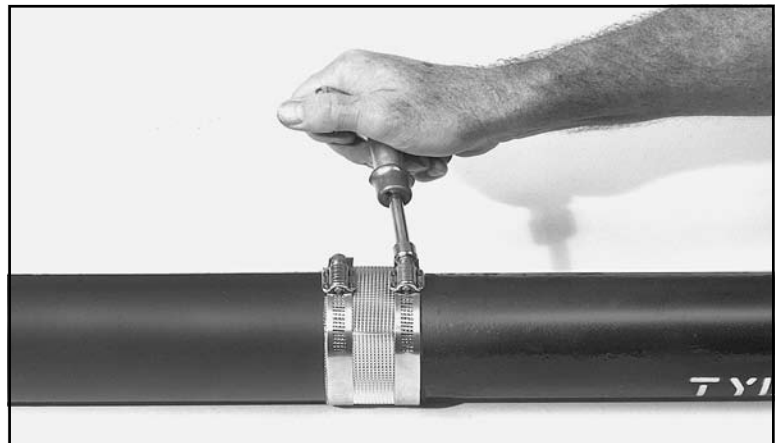
TYLER hubless cast iron soil pipe and fittings meet ASTM A888 and/or CISPI Standard 301, (latest revision), and comply with Federal Specifications WW-P-401E. (Type III.)



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:

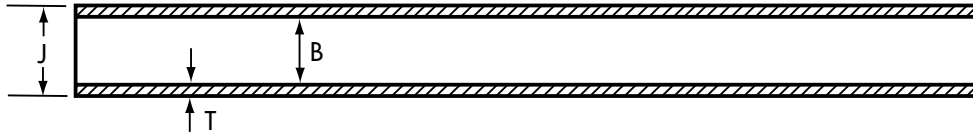
National plumbing codes and government agencies provide for Hubless Cast Iron Sanitary Systems.

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).



SUBMITTAL ♣ NO-HUB® CAST IRON SOIL PIPE & FITTINGS



NO-HUB PIPE, TEN-FOOT LAYING LENGTH

Ship Code	Dia.	Wt. per 10' [*] lbs.	Per Bundle	
			Pieces	Wt. lbs.
S	1 1/2	25	54	1350
S	2	36	54	1955
S	3	52	36	1855
S	4	74	27	2013
S	5	94	24	2256
S	6	110	18	1998
S	8	180	15	2718
S	10	258	8	2084
S	12	355	6	2130
S	15	515	4	2060

*Note: Weights approximate, for shipping purposes only.

DIMENSIONS AND TOLERANCES

Size	Hubless Pipe Barrels		T Thickness	
	B Inside Diameter	J Outside Diameter	Norm.	Min.
1 1/2	1.50±.09	1.90±.06	.16	.13
2	1.96±.09	2.35±.09	.16	.13
3	2.96±.09	3.35±.09	.16	.13
4	3.94±.09	4.38+.09-.05	.19	.15
5	4.94±.09	5.30+.09-.05	.19	.15
6	5.94±.09	6.30+.09-.05	.19	.15
8	7.94±.13	8.38+13-.09	.23	.17
10*	10.00±.13	10.56±.09	.28	.22
12*	11.94±.13	12.50±.13	.28	.22
15*	15.11±.13	15.83±.13	.36	.30

*O.D. Barrel out of round tolerance of ±.04 is permitted.

"Tyler Pipe Company strongly recommends that its hubless cast iron pipe and fittings be joined with shielded couplings manufactured in accordance with CISPI 310. The use of unshielded couplings or any coupling not meeting the above specifications will void the product warranty"

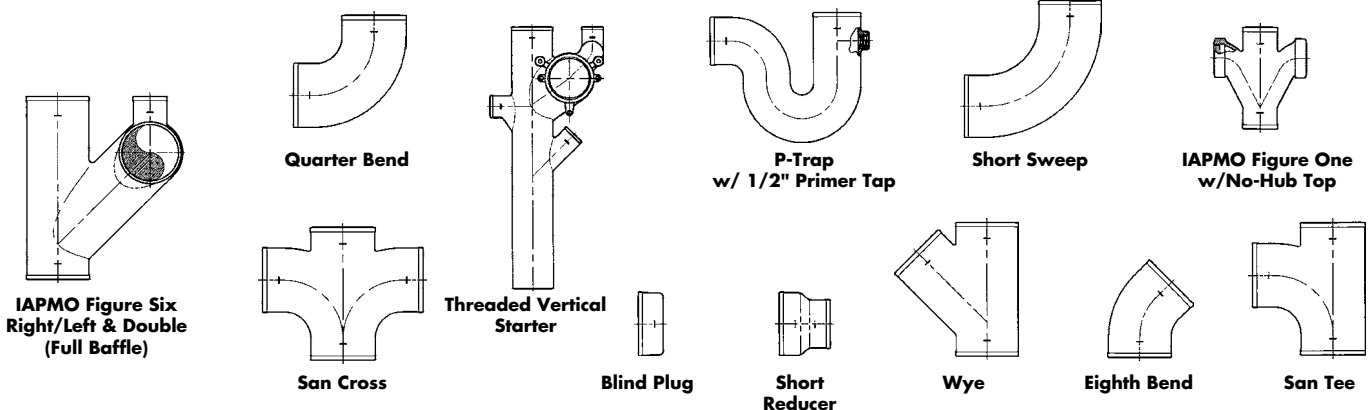
STANDARDS

♣ NO-HUB® Cast Iron Soil Pipe and Fittings:

- CISPI 301: Hubless Cast Iron Soil Pipe and Fittings.
- ASTM A 888 Hubless Cast Iron Soil Pipe and Fittings.
- ASTM C 564: Rubber Gaskets for Cast Iron Soil Pipe and Fittings.

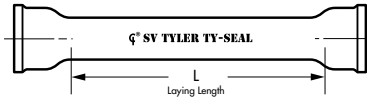
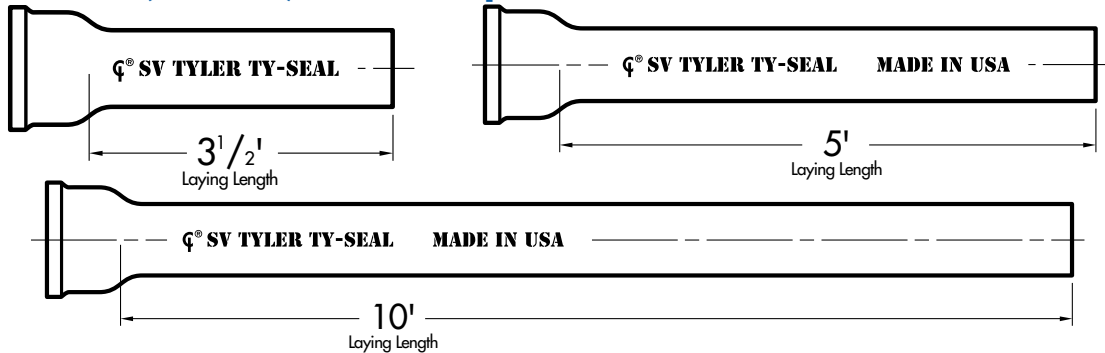
SPECIFICATIONS

"ALL 1 1/2" diameter and larger cast iron soil pipe and fittings for above grade soil, waste, vent lines, rain water conductors and storm drainage lines shall bear the registered insignia ♣ or ♣ NO HUB® indicating that these items used in the sanitary system comply with the Cast Iron Soil Pipe Institute Standards 301 or ASTM A 888.





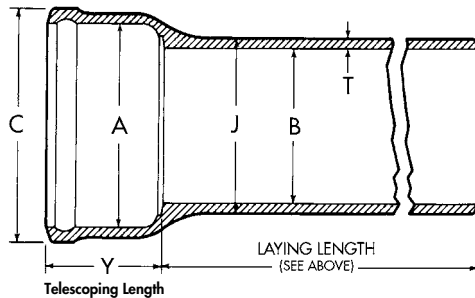
SUBMITTAL & HUB & SPIGOT CAST IRON SOIL PIPE & FITTINGS



DOUBLE HUB, 30" LENGTHS

Size	L	Wt.
2"	25	12
3"	24 1/2	17
4"	24	26

SV CLASS SINGLE HUB PIPE					
3-1/2 Ft.		5 Ft.		10 Ft.	
Size	Wt.	Size	Wt.	Size	Wt.
2	15	2	20	2	38
3	23	3	31	3	52
4	30	4	42	4	76
5	39	5	55	5	97
6	45	6	62	6	128
8	72	8	100	8	190
10	106	10	150	10	270
12	135	12	190	12	325
15	184	15	260	15	497



SV PIPE & FITTINGS

Size	Telescoping Length Y	Hub I.D. A	Hub O.D. C	Barrel O.D. J	Barrel I.D. B	Nominal Thickness T	Minimum Thickness T
2"	2.50	2.94	3.62	2.30	1.96	0.17	0.14
3"	2.75	3.94	4.68	3.30	2.96	0.17	0.14
4"	3.00	4.94	5.68	4.30	3.94	0.18	0.15
5"	3.00	5.94	6.68	5.30	4.94	0.18	0.15
6"	3.00	6.94	7.68	6.30	5.94	0.18	0.15
8"	3.50	9.25	10.13	8.38	7.94	0.23	0.17
10"	3.50	11.38	12.44	10.50	9.94	0.28	0.22
12"	4.25	13.50	14.56	12.50	11.94	0.28	0.22
15"	4.25	16.95	18.11	15.88	15.16	0.36	0.33

SPECIFICATIONS

All 2-inch through 15-inch hub and spigot cast iron soil pipe and fittings shall conform to ASTM A 74; joints shall be made either by caulked lead and oakum or by compression gaskets such as TY-SEAL which conform to ASTM C 564.

STANDARDS

ASTM A 74: Cast Iron Soil Pipe and Fittings.

ASTM C 564: Rubber Gaskets for Cast Iron Soil Pipe and Fittings

