



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

Tyler Pipe/Soil Pipe Division • 11910 CR 492 • Tyler, TX 75706 • (800) 527-8478



### 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:

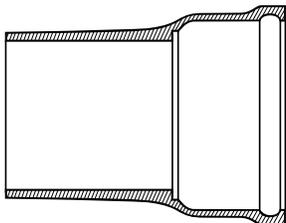
TY -SEAL gaskets conform strictly to ASTM Standard C 564, latest issue. The TY-SEAL mill specification meets or exceeds all requirements.

### Bracing:

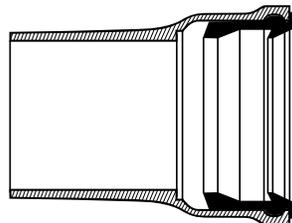
To prevent movement, horizontal pipe and fittings 5" and larger should be suitably braced by the use of blocks, rodding or other suitable methods at every branch or change of direction.

### Pipe Specification:

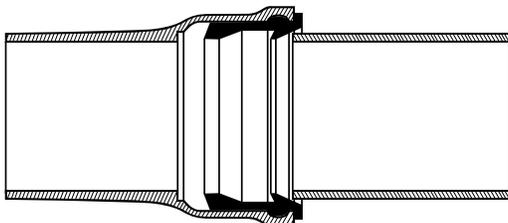
TYLER hub and spigot cast iron soil pipe and fittings comply with the latest issue of ASTM A 74, ANSI A 112.5.1 and Federal Specification WW-P-401 E.



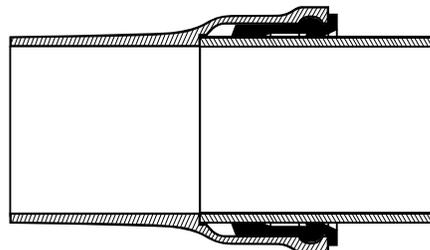
1. Clean hub and spigot to be joined.



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



3. Align hub and spigot.



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



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## Physical Properties of Ty-Seal Gaskets:

Physical Property	Test Method	Performance Requirements
Hardness, durometer A	ASTM D 2240	70 ± 5 points
Tensile Strength	ASTM D 412	1500 psi. minimum
Elongation of break	ASTM D 412	250% minimum
Tear Resistance	ASTM D 624 (Die C)	150 lbs. per lin. inch minimum
Resistance to heat aging	ASTM D 573	
Change in original properties after 96 hrs. at 158° F.		
Hardness		± 10 points maximum
Enlongation		-20% maximum
Tensile strength		-15% maximum
Resistance to oil aging	ASTM D 471	
Change in volume after 70 hrs. immersion in ASTM Oil No. 3 at 212° F.		80% maximum
Resistance to ozone	ASTM D 1149	
Condition after exposure to 150 pphm ozone in air for 100 hrs at 140° F. (40° C.) (sample under 20% strain)		No cracks
Resistance to permanent set	ASTM D 395	25% maximum
Compression set after 22 hrs. at 158° F.	(Method B)	
Compression set after 22 hrs. at 14° F.	ASTM D 1229	60% maximum

## Joint Characteristics:

TY-SEAL 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.

## Quality Control:

Company laboratory tests insure that finished gaskets conform to specification.

## Availability of Products:

Cast iron soil pipe and TY-SEAL gaskets are sold through recognized plumbing distribution channels.

## Plumbing Codes:

National plumbing codes and government agencies now provide for gasket joints.

## Documents:

Certificates and reports validating all statements contained herein will be supplied on written request.

**HOW TO SPECIFY:**  
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.