



TYTON® Gasket

U.S. Pipe's TYTON® Gasket is used in U.S. Pipe's TYTON JOINT® and HP LOK® Joint Ductile Iron Pipe & Fittings. It is a circular rubber gasket which has a modified bulb shape in cross section. The TYTON® Gasket conforms to ANSI/AWWA C111/A21.11. Composition and dimensions of the gasket have been carefully engineered to ensure a water-tight and lasting seal.

All TYTON® Gaskets are made from vulcanized synthetic rubber with a soft rubber bulb and harder heel joined in a strong, vulcanized bond. No reclaimed rubber is used in the process. All gaskets meet the requirements of the National Sanitation Foundation (NSF) Standard ANSI/NSF-61, *Drinking Water System Components – Health Effects*.

The standard rubber compound is SBR – Styrene Butadiene Rubber. This material has a maximum service temperature rating of 150°F and is used as the predominant gasket material for Drinking Water, Sea Water, Sanitary Sewer, Reclaimed Water, Raw Water, & Storm Water.

If low levels of certain contaminants are present in water and sanitary sewer applications, special elastomers are available. The following table may be used as a guide for common TYTON® Gasket water, sewer, and air applications.

U.S. Pipe can furnish these special elastomers if specified for specific applications. TYTON® Gaskets made of special elastomers are marked using colored dots.

<u>Elastomer</u>	<u>Color of Dot</u>
Neoprene®	Yellow
EPDM	Orange
Nitrile	Green
FKM	Red

Special care should be made during inventory and installation in order to insure the proper gasket is used in applications where specified.

ANSI/AWWA Standards

ANSI/AWWA C111/A21.11 Standard for Rubber-Gasket Joints for Ductile Iron Pressure Pipe and Fittings.

TYTON® Gaskets are available in 4" - 64" sizes and the pressure rating is based on the performance requirements of ANSI/AWWA C111/A21.11.



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Description	Maximum Service Temperature ^{1,2}				Uses ³	
	Water & Sewer		Air ⁴			
	Push-On & Mechanical Joint Gaskets °F	Push-On Joint Gaskets °F	Mechanical Joint Gaskets °F			
SBR (Styrene Butadiene)	150	150	125	Common: Drinking Water, Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water		
Nitrile (NBR) (Acrylonitrile Butadiene)	150	150	125	Common: Hydrocarbons, Fats, Oils, Greases, Chemicals, Oils & Fluids, Refined Petroleum Other Acceptable Services: Drinking Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water		
Neoprene® (CR) (Polychloroprene)	200	180	150	Common: Greasy Waste Other Acceptable Services: Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water		
EPDM (Ethylene Propylene Diene Monomer)	212	200	150	Common: Alcohols, Dilute Acids, Dilute Alkalies, Ketones (MEK, Acetone), Vegetable Oil Other Acceptable Services: Drinking Water, Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water		
FKM ⁵	212	300	300	Common: Aromatic Hydrocarbons and Fuels, Acids, Vegetable Oils, Petroleum Products, Chlorinated Hydrocarbons, Most Chemicals and Solvents Other Acceptable Services: Drinking Water, Reclaimed Water, Raw Water, Storm Water		

¹ Maximum service temperatures listed are intended as general guidelines for ductile iron pipe gaskets. For service temperatures greater than those listed, consult pipe manufacturer for specific recommendations.

² Maximum service temperature is not usually a meaningful parameter for piping gaskets; however, low temperatures during pipeline installation may necessitate precautions. Consult your U.S. Pipe Sales Representative for pertinent recommendations.

³ Water, including sewage, with low levels of the listed contaminants.

⁴ Lubricating oil in the air will adversely affect SBR and EPDM performance.

⁵ Consult your U.S. Pipe Sales Representative for availability of FKM push-on gaskets.

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