



Ductile Iron Pipe
Research Association

Strength and **Durability** for **Life**[®]

FEATURES

Gasket Materials Used For Ductile Iron Pipe in Water and Sewage Service

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Description	Maximum Service Temperature (°F) ^{1, 2}			Uses ³
	Water & Sewer Push-On & Mechanical Joint Gaskets	Air ^{4, 5} Push-On Joint Gaskets	Mechanical Joint Gaskets	
SBR (Styrene Butadiene)	150°	150°	125°	Common: Drinking Water, Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
EPDM (Ethylene Propylene Diene Monomer)	212°	200°	150°	Common: Alcohols, Dilute Acids, Dilute Alkalis, Ketones (MEK, Acetone), Vegetable Oil. Other Acceptable Services: 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
Viton®; Fluorel® (FKM) ⁶ (Fluorocarbon)	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

¹Maximum 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.

²Maximum service temperature is not usually a meaningful parameter for piping gaskets; however, low temperatures during pipeline installation may necessitate precautions. Consult pipe manufacturer for pertinent recommendations.

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

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

⁵SBR, Nitrile, or Neoprene are not recommended for air exposure in wastewater treatment systems.

⁶Consult pipe manufacturer for availability of FKM push-on gaskets.

For more information contact DIPRA or any of its member companies.

Ductile Iron Pipe Research Association

An association of quality producers dedicated to the highest pipe standards through a program of continuing research and service to water and wastewater professionals.

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Social Media

Get in the flow with Ductile Iron Pipe by connecting with us on Facebook, Twitter, and LinkedIn.

Visit our website, www.dipra.org/videos, and click on the YouTube icon for informational videos on Ductile Iron Pipe's ease of use, economic benefits, strength and durability, advantages over PVC, and more.



Member Companies

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United States Pipe and Foundry Company
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Ductile Iron Pipe is  SMART certified