Strength and Durability for Life®

FEATURES

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

Last Revised: May 2016
| Description                          | Maximum Service Temperature (°F)
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Water &amp; Sewer</td>
</tr>
<tr>
<td>Push-On &amp; Mechanical Joint Gaskets</td>
<td></td>
</tr>
<tr>
<td>SBR (Styrene Butadiene)</td>
<td>150°</td>
</tr>
<tr>
<td>EPDM (Ethylene Propylene Diene Monomer)</td>
<td>212°</td>
</tr>
<tr>
<td>Nitrile (NBR) (Acrylonitrile Butadiene)</td>
<td>150°</td>
</tr>
<tr>
<td>Neoprene® (CR) (Polychloroprene)</td>
<td>200°</td>
</tr>
<tr>
<td>Viton®; Fluorel® (FKM) (Fluorocarbon)</td>
<td>212°</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Uses³</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SBR</strong> Common: Drinking Water, Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water</td>
</tr>
<tr>
<td><strong>EPDM</strong> Common: Alcohols, Dilute Acids, Dilute Alkalis, Ketones (MEK, Acetone), Vegetable Oil. <strong>Other Acceptable Services:</strong> Drinking Water, Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water</td>
</tr>
<tr>
<td><strong>Nitrile (NBR)</strong> Common: Hydrocarbons, Fats, Oils, Greases, Chemicals, Oils &amp; Fluids, Refined Petroleum. <strong>Other Acceptable Services:</strong> Drinking Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water</td>
</tr>
<tr>
<td><strong>Neoprene® (CR)</strong> Common: Greasy Waste. <strong>Other Acceptable Services:</strong> Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water</td>
</tr>
<tr>
<td><strong>Viton®; Fluorel® (FKM)</strong> Common: Aromatic Hydrocarbons and Fuels, Acids, Vegetable Oils, Petroleum Products, Chlorinated Hydrocarbons, Most Chemicals and Solvents. <strong>Other Acceptable Services:</strong> Drinking Water, Reclaimed Water, Raw Water, Storm Water</td>
</tr>
</tbody>
</table>

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

⁶ Consult 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.

P.O. Box 190306
Birmingham, AL 35219
205.402.8700 Tel
www.dipra.org

**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](http://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**

AMERICAN Ductile Iron Pipe
P.O. Box 2727
Birmingham, Alabama 35202-2727

Canada Pipe Company, Ltd.
55 Frid St. Unit #1
Hamilton, Ontario L8P 4M3 Canada

McWane Ductile
P.O. Box 6001
Coshocton, Ohio 43812-6001

United States Pipe and Foundry Company
Two Chase Corporate Drive
Suite 200
Birmingham, Alabama 35244

Ductile Iron Pipe is [SMART](http://www.dipra.org) certified

Copyright © 2016 by Ductile Iron Pipe Research Association