RFS: NITRILE
CONCRETE PIPE AND MANHOLE GASKETS

What It Is

The RFS Nitrile pre-lubricated pipe and manhole gasket is an encapsulated all rubber gasket that is filled with an internal lubricant.

The unique design also helps in reducing insertion forces, virtually eliminating any twisting of the gasket or rolling out of the joint commonly found to occur in O-ring and profile gaskets.

The Nitrile RFS cross-sections are dimensionally the same as the standard RFS cross-sections.

How It Works

• Gasket is stretched over the spigot with the tube lying flat against the spigot.
• Spigot and bell are homed with little insertion force due to the internal lubricant.
• The rolling feature fills the small annular space.

Why It’s Better

• Specially developed rubber for applications where exposure to petro by-products or solvent based products might be used.
• Installs quicker by eliminating the lubrication step.
• Faster installation because no external lubricant is required, the gasket stays cleaner during handling and assembly.

Where To Use

• Manholes
• Wet wells
• Square pump and lift stations
• Stormwater structures
• On-site treatment structures
• Junction chambers
• Grease interceptors

NOTE: We recommend equalization of the RFS gasket on round pipe and require equalization on box, arch, and elliptical pipe.

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RFS: NITRILE
INSTALLATION INSTRUCTIONS

Special notes regarding RFS Nitrile Gaskets

Due to inherent properties of Nitrile gaskets, special considerations are noted:

1. Nitrile gaskets are non-stock items, and they will require 1-3 weeks lead time for production and testing.
2. Nitrile gaskets are higher durometer (harder), increasing pipe insertion forces. This hardness increases rapidly at lower temperatures, requiring special care in low-temperature installations (< 40°F/4°C).
3. Nitrile rubber may occasionally have slight internal porosity. This is not a defect as long as the material meets all other specification requirements.
4. Required splice testing strain may result in occasional splice breakage when the gasket is installed on the pipe. It is recommended that an additional quantity of gaskets (5-10%) be ordered and supplied to compensate. In any event, Press-Seal will not be responsible for any consequent delays or damages related to this.
5. Nitrile rubber hardens rapidly with age. Gaskets older than 12 months should be retested before use to ensure their continued suitability.
## RFS: NITRILE SELECTION GUIDE

### Profile Designation

<table>
<thead>
<tr>
<th>Profile Designation</th>
<th>Body Height “A” (mm)</th>
<th>Body Width “B” (mm)</th>
<th>Total Width “C” (mm)</th>
<th>Annular Space</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Gasket</td>
</tr>
<tr>
<td>RFS-135</td>
<td>0.650 (16.5)</td>
<td>0.724 (18.4)</td>
<td>1.607 (40.8)</td>
<td>0.326 (8.3)</td>
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<tr>
<td>RFS-165</td>
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<td>0.825 (21.0)</td>
<td>1.954 (49.6)</td>
<td>0.446 (11.3)</td>
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<td>RFS-185</td>
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<td>0.938 (23.8)</td>
<td>2.110 (53.6)</td>
<td>0.446 (11.3)</td>
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<tr>
<td>RFS-200</td>
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<td>0.960 (24.4)</td>
<td>2.130 (54.1)</td>
<td>0.500 (12.7)</td>
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<tr>
<td>RFS-225</td>
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<td>1.047 (26.6)</td>
<td>2.770 (70.4)</td>
<td>0.525 (13.3)</td>
</tr>
</tbody>
</table>

**NOTE:**

DIMENSIONS ARE FOR NOMINAL MATERIAL. ACTUAL MEASUREMENTS WILL VARY WITH MANUFACTURING TOLERANCES.
RFS: REDUCED FRICTION SEAL
INSTALLATION INSTRUCTIONS

1. Stretch RFS Gasket onto spigot of pipe, making sure that mantle is laying smoothly toward end and that gasket body is firmly against shoulder of spigot.

2. Center pipe spigot and bell, and evenly and smoothly press spigot into bell. Gasket mantle will help center the pipe joint as the mantle moves into clearance space.

3. Complete assembly until pipe joint is home. Mantle moves into recess behind gasket, cushioning the joint while allowing joint to deflect. Complete installation by following pipe manufacturer’s recommended bedding and backfilling practices.

NOTE: We recommend equalization of the RFS gasket on round pipe and require equalization on box, arch, and elliptical pipe.
RFS: BOX CULVERT GASKET
INSTALLATION INSTRUCTIONS

1. The box section should be handled with extreme caution to avoid chipping of the spigot and bell. Check for and remove any loose dirt, debris or foreign material from the inside surface of the bell and gasket seat area. Bug holes or chips need to be properly repaired.

2. The gasket splice must be first located on the gasket. The splice area is identified with a colored stripe to aid in quickly locating. It is always placed in the middle of the bottom span on a horizontal box installation and on one of the two long spans on a vertical box. Stretch RFS prelimbed gasket onto spigot with gasket body firmly against single offset step.

3. The gasket must always be equalized by pulling towards each corner to take up the slack and create uniform tension.

4. Use a preferred Press-Seal supplied (red brush on, spray or high quality) adhesive only.

5. Roll the gasket back over and onto the step of spigot. Make sure not to allow the mantel/flap to come into contact with the adhesive. Apply adhesive starting at bottom span, then side spans, then top span. Do not glue the corners. Apply 1” wide (max). Be sure the entire bottom base of the gasket is glued to the concrete surface. Roll gasket back onto the step.

6. To prevent the bottom span from sagging, use a board across the full length against the gasket body and clamp to the spigot until the adhesive has fully set.

CAUTION:
Press-Seal believes there are risks associated with gluing the gasket on and being exposed to the elements for an extended period of time; therefore, please discuss with your territory manager before installation.

7. DO NOT USE ANY LUBRICANT (RFS has an internal prelubricated cavity for easier installation.)