VISI-FLO® SIGHT FLOW INDICATORS

OPW Engineered Systems has been manufacturing Sight Flow Indicators for over 60 years. Our experience has led to many innovations in design and manufacturing, making VISI-FLO® the most thoroughly engineered Sight Flow Indicator on the market. VISI-FLO’s are available in two series: the Standard 1400 series, and the 1500 High-Pressure, High-Temperature Series.

**BENEFITS**

- **Exclusive 3-Year ‘No-Leak’ Guarantee**- VISI-FLO’s innovative radial seal design creates a constant and uninterrupted sealing force between the body and the outside diameter of the glass lens. This sealing method provides a longer lasting and better seal than conventional flat seals, common with tie-rod designs.

- **Dimensionally Interchangeable**- with most competitive units (FJP Units).

- **No Maintenance Required**- VISI-FLO’s unique, bolt-on body design requires no special maintenance or torquing sequence. This results in a safer, more reliable sight flow indicator than units using tie rods to fasten lens and seal to body.

- **Rated for vacuum service**- up to 635 mm (25") of Hg (Mercury) at 85.5% vacuum. This equates to 12.3 PSI vacuum.

**SELECTION GUIDE**

**Construction**

2 - Carbon Steel
3 - Bronze
7 - 316 Stainless Steel
8 - Ductile Iron
9 - Alloy 20

Other construction materials available

**Indicator Material**

- D - Delrin® (Std. 1400 Series, white)
- R - Ryton® (Std. 1500 Series, brown)
- P - PTFE (Std. 6" - 12", white)
- C - Carbon Steel (Drip Tubes only)
- S - Stainless Steel (Drip Tubes only)

**Series**

14 - 1400 Series
15 - 1500 Series

See charts below for temperature and pressure ratings.

**Indicator**

1 - Propeller (1/4" to 4" only)
2 - Flapper
3 - Drip Tube
4 - Low Flow (1/4", 3/8", 1/2" only)

**Size**

001 - 1/8"
002 - 1/4"
004 - 3/8"
005 - 1/2"
007 - 3/4"
010 - 1"
012 - 1-1/4"
015 - 1-1/2"

**End Connections**

- Blank - FNPT
- F - ASME 150 Lb. Flange
- B - British Threaded
- FJP - Flanged Replacement
- FT - ASME 300 Lb. Flange
- SW - Socket Weld

**Seal Materials**

1 - Buna-N
2 - Fluorocarbon (Std. 1500 Series)
3 - PTFE
4 - EPDM
5 - Neoprene (Std. 1400 Series)
6 - Kalrez®
X - Customer Specified

**Shielding**

- Blank - Not Shielded
- SK - Shielded

**Availability of styles, sizes and materials may vary depending upon Visi-Flo configuration. Consult OPW Customer Service regarding your exact requirements.**

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VISI-FLO® Sight Flow Indicators

CONSTRUCTION AND MATERIAL

**Body:**
- Steel: ASTM A216 WCB
- 316 Stainless Steel: ASTM A351 CF8M®
- "6" and larger ASTM A351 CF3M (316L)
- Ductile Iron: ASTM A536 65-45-12
- Bronze: ASTM B62 B3600
- Optional Materials: Hastelloy®, Alloy® 20, Monel®, Others upon request

**Windows:**
- 1400 Series (1/4" - 2") Tempered Soda Lime
- 1400 Series (3" and Above) Anodized Soda Lime
- 1500 Series Tempered Borosilicate

**Indicators:**
- 1400 Series Delrin®
- 1500 Series Ryton®
- Optional Materials: PTFE

**Seals:**
- 1400 Series Neoprene (Std.)
- 1500 Series Fluorocarbon (Std.)

**Connections:**
- 1400 Series ASME B1.20 FNPT ASME B16.5 150RF
- 1500 Series ASME B1.20 FNPT ASME B16.5 150RF
- Options: Socket Weld ASME B16.11, BSP ASME BS21

**Options:**
- Protective Shield (1400SK): Polycarbonate lens cover
- Pressure/Temperature Probe: Consult Factory

SEAL AND INDICATOR OPERATING TEMPERATURES

<table>
<thead>
<tr>
<th>Material</th>
<th>Degrees F</th>
<th>Degrees C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neoprene (1400 series standard)</td>
<td>-20 to 250</td>
<td>-29 to 121</td>
</tr>
<tr>
<td>Fluorocarbon (1500 series standard)</td>
<td>0 to 400</td>
<td>-17 to 204</td>
</tr>
<tr>
<td>Buna-N (400 series)</td>
<td>-20 to 212</td>
<td>-29 to 100</td>
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<tr>
<td>EPDM (400 series)</td>
<td>-50 to 250</td>
<td>-46 to 121</td>
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<tr>
<td>PTFE (400 series)</td>
<td>-40 to 400</td>
<td>-40 to 204</td>
</tr>
<tr>
<td>Kalrez® (400 series)</td>
<td>0 to 500</td>
<td>-18 to 260</td>
</tr>
</tbody>
</table>

**Indicators**
- Delrin®: -40 to 250, -40 to 121
- Ryton®: -40 to 450, -40 to 232
- PTFE: -40 to 500, -40 to 260

SERVICE RATINGS

**FLOW CHARTS**

Visi-Flo with Propeller Indicator

**CHART INTERPRETATION**

<table>
<thead>
<tr>
<th>VISI-FLO®</th>
<th>Max. Pressure</th>
<th>Max. Temperature</th>
<th>°F</th>
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</thead>
<tbody>
<tr>
<td>1400 Series Flanged (6&quot; - 12&quot;)</td>
<td>150 PSIG @ 150°F</td>
<td>150°F @ 150 PSIG</td>
<td></td>
</tr>
<tr>
<td>1400 Series Threaded/Flanged (1/4&quot; - 4&quot;)</td>
<td>200 PSIG @ 150°F</td>
<td>225°F @ 150 PSIG</td>
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<tr>
<td>1500 Series Flanged (1&quot; - 12&quot;)</td>
<td>275 PSIG @ 100°F</td>
<td>350°F @ 205 PSIG</td>
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<tr>
<td>1500 Series Threaded (1/4&quot; - 2&quot;)</td>
<td>400 PSIG @ 150°F</td>
<td>350°F @ 200 PSIG</td>
<td></td>
</tr>
</tbody>
</table>

1 With standard seals ² Steel units rated @ 235 PSIG MAX @ 100°F & 350°F Max @ 215 PSIG

FLOW RATE CHARTS

**Minimum Flow Required to Turn Propeller**

<table>
<thead>
<tr>
<th>Size</th>
<th>GPM</th>
<th>1/4</th>
<th>3/8</th>
<th>1/2</th>
<th>3/4</th>
<th>1</th>
<th>1-1/4</th>
<th>1-1/2</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>.14</td>
<td>.25</td>
<td>.30</td>
<td>.60</td>
<td>.7</td>
<td>1.05</td>
<td>1.25</td>
<td>1.30</td>
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*Visi-Flo installed in horizontal position with deflector opening down.*

**Minimum Flow**

<table>
<thead>
<tr>
<th>Size</th>
<th>1/4</th>
<th>3/8</th>
<th>1/2</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>.14</td>
<td>.25</td>
<td>.30</td>
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DIMENSIONAL DRAWINGS ARE AVAILABLE FROM THE DOWNLOAD SECTION OF OUR WEBSITE - WWW.OPW-ES.COM

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VISI-FLO® Sight Flow Indicators

SHIELD KITS

1400SK - 1720

Shield Kit, 1400 & 1500 Series

<table>
<thead>
<tr>
<th>Size</th>
<th>1720</th>
<th>1400 Series</th>
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<tbody>
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<td></td>
<td>1/4”, 3/8”, 1/2”</td>
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<table>
<thead>
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<th>Size</th>
<th>1740</th>
<th>1500 Series</th>
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<tbody>
<tr>
<td></td>
<td>3/4”, 1”</td>
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<table>
<thead>
<tr>
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<th>1770</th>
<th>1400 Series</th>
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<tbody>
<tr>
<td></td>
<td>1-1/4”, 1-1/2”, 2”</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
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<th>1500 Series</th>
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<tr>
<td></td>
<td>3”, 4”</td>
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</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>1800</th>
<th>1500 Series</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>6”, 12”</td>
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NOTE: All Shield Kits include Shield (1) & mounting hardware

SEAL REPAIR KITS

1400 RK - 005 0

Series RK Repair Kit

<table>
<thead>
<tr>
<th>Size</th>
<th>RK</th>
<th>005 Series</th>
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<tr>
<td></td>
<td>005</td>
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<tr>
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<tr>
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<td>040</td>
<td>1400 Series</td>
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<tr>
<td></td>
<td>060</td>
<td>1400 Series</td>
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Seal Materials

<table>
<thead>
<tr>
<th>Seal</th>
<th>Materials</th>
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<tr>
<td>1</td>
<td>Buna</td>
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<tr>
<td>2</td>
<td>Fluocarbon (Viton)</td>
</tr>
<tr>
<td>3</td>
<td>PTFE</td>
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<tr>
<td>4</td>
<td>EPDM</td>
</tr>
<tr>
<td>5</td>
<td>Neoprene</td>
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<tr>
<td>B</td>
<td>Buna</td>
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<tr>
<td>N</td>
<td>Neoprene</td>
</tr>
<tr>
<td>V</td>
<td>Fluocarbon etc.</td>
</tr>
</tbody>
</table>

NOTES:
1. Original seal material should be stamped on unit nameplate.
2. All kits include top & bottom seals, glass, gaskets & instruction sheet

SHIELD KIT INSTALLATION

1. With wrench, remove one bolt only from face plate
2. Insert stud into open hole and turn to approximately four (4) turns
3. Place lock washer under nut on stud and tighten
4. Repeat steps 1, 2 and 3 in that order on second face plate bolts
5. Install shield on stud extension, resting shield on the nuts already tightened in place
6. Install hold down nuts on shield

INSTALLATION INSTRUCTIONS

1. Before installation, the user should check the unit for damage during shipping and freedom from defects such as lens scratches or chips.
2. Check and remove any foreign material inside the VISI-FLO®.
3. Determine direction of flow and install the unit according to the arrow stamped on nameplate.

Note:
• If unit is to be installed in a location or position where objects could strike the unit, a 1400 SK Shield kit is recommended.

MAINTENANCE

BEFORE YOU BEGIN
Consider the Following:
1. Periodic inspection (every 3 months for leakages is recommended.)
2. Maintenance must be performed by authorized personnel.
3. Before performing any maintenance on sight flow indicator, the full installation must be shut down/off before proceeding.
4. Do not attempt any maintenance or servicing without reading this entire manual.

When any leaks are found, have seals replaced immediately.

DISASSEMBLY INSTRUCTIONS (UNITS UP TO 2”)

Step 1:
• For drip tube units, begin by removing the drip funnel
• Note: The drip funnel will require that you push it out from the opposite end with some sort of rod. Be sure to use something relatively soft, so as not to damage any components inside the VISI-FLO®

Step 2:
• Remove the bolts, washers, name plate, plate, and gasket

Step 3:
• Remove the o-rings, spacers, bridges and shaft, propeller / flapper (does not apply to drip tube units), and glass plates
• You can apply moderate pressure to the bottom glass and it should push everything above it out
• If this does not work, then you may have to remove the top O-ring with a pick made of soft brass or aluminum
• If this is the case, discard the removed O-ring as it may have been damaged, and replace it with a new one
• Thoroughly clean all sealing surfaces with a non-abrasive cleaning pad
**ASSEMBLY INSTRUCTIONS (UNITS UP TO 2")**

**Step 1:**
- Install flow director, (propeller unit only)

**Step 2:**
- Lightly lubricate seals with a light oil
- Press seal into body, install PTFE spacer so it is concentric to seal
- (PTFE spacer fits inside seal)

**Step 3:**
- Drop Glass on top of seal and spacer, followed by bridge/shaft assembly
- Be sure that Beveled Edge of glass faces retaining bridge

**Step 4:**
- **Note:** Propeller unit shown
- Drop propeller or flapper onto shaft
- Drip tube units skip this step

**Step 5:**
- **Note:** Propeller unit shown
- Orient second bridge so center boss faces inward
- Press onto shaft until shoulder on shaft touches boss

**Step 6:**
- Lightly lubricate O-ring with light oil before pressing into ridge

**NOTE:** EPDM seals are NOT compatible with petroleum based lubricants. A silicone based lubricant must be used with EPDM.
Step 7:
Press glass inside O-ring making sure beveled edge of glass is facing towards retaining bridge.

Step 8:
- Place gasket, plate and nameplate over glass
- Make sure chamfer in the center of the plate faces away from the glass

NOTE:
Chamfer must be facing up

Step 9:
- Flow direction starts on the end with flow director and passes through the unit
- Hand tighten bolts with wrench only
- Propeller units only: Make sure to orient nameplate so flow direction arrow is correct

Step 10:
- Drip Tube Versions Only: Drop bushing into body, either side is fine, and press into place so shoulder on bushing touches shoulder inside body

Assembly Complete!
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**DETAILED DISASSEMBLY (3" & ABOVE)**

**Step 1:**
- Remove bolts, washers, name plate, plate, and gasket

**Step 2:**
- Remove glass and O-ring
- Repeat process for other side
- Thoroughly clean all sealing surfaces with a non-abrasive cleaning pad

**ASSEMBLY INSTRUCTIONS (UNITS 3" AND UP)**

**Step 1:**
- Make sure that flapper or propeller (which ever is being installed) is assembled as shown

**Step 2:**
- Fit flapper or propeller assembly down into body so bolt holes on support arm match with bolt ears on body

**Step 3:**
- Secure with lock washers and bolts

**Step 4:**
- Drip tube units-press drip tube into end opposite bolt hole ears
- 3" and 4" SST have Teflon insert. All other 3" and over are welded

**NOTE:** 3" and 4" Carbon Steel VISI-FLO’s drip-tube is welded in place.

**Step 5:**
- Propeller version shown
- For flapper or propeller versions, start with whichever side exposes indicator retainer button
- Lightly lubricate O-ring with light oil before pressing it into ridge
- If building drip tube version you may begin with either side

**NOTE:** EPDM seals are NOT compatible with petroleum based lubricants. A silicone based lubricant must be used with EPDM.
VISI-FLO® Sight Flow Indicators

1400/1500 MAINTENANCE

ASSEMBLY INSTRUCTIONS (UNITS 3” AND UP) CONTINUED

Step 6:
- Wedge beveled glass down inside O-ring, with the smallest diameter towards the center
- Once glass begins to resist further seating, stop

Step 7:
- Place one gasket and plate over glass
- Make sure chamfered side of the plate faces up

Step 8:
- With your palm, press down with even pressure until glass seats and gasket bottoms out

Step 9:
- Place nameplate on top of compressed components with flow direction facing the correct way
- Flow direction for propeller version can be determined by looking through Visi-Flo
- Flow starts on the side with bolt ears, and travels through to the opposite side
- Drip Tube version is opposite this
- Flapper units do not have a flow direction

Step 10:
- Secure components with bolts and flat washers
- Hand tighten with wrench only
- REPEAT ON OPPOSITE SIDE.
- REBUILD COMPLETE

1) Do not attempt any maintenance service while the equipment is in operation. System pressure must be relieved and the product drained before attempting any service on the unit. The line must be locked out while service is in progress. Proper thermal relief must be provided at all times while equipment is in service.

2) OPW products do not eliminate possible exposure to hazardous substances. The conditions of handling and use are beyond our control, and we make no guarantee and assume no liability for damages or injuries related to the use of our products. Follow the safety precautions outlined in the Material Safety Data Sheets for the material being used. It is the responsibility of the user to comply with all federal, state and local regulations. Always employ proper safety precautions and handling techniques.

3) Proper seal and wetted material part selection is critical for safe operation. To assure maximum life for the service intended, use only those materials compatible with the fluids being handled. Please note material being supplied and make certain that it is suited for the intended service.

4) OPW Visi-Flo’s are NOT recommended for compressed gas (i.e. air, nitrogen, etc.) applications.

WARNING

Failure to follow these warnings could result in serious personal injury, property damage or product failure.
### VISI-FLO® Sight Flow Indicators

#### PARTS BREAKDOWN

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
<th>Series</th>
<th>¼&quot; &amp; 3/8&quot; &amp; ½&quot;</th>
<th>¾&quot; &amp; 1&quot;</th>
<th>1¼&quot;, 1½&quot; &amp; 2&quot;</th>
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<tbody>
<tr>
<td>1</td>
<td>Retaining Bolt</td>
<td>1400</td>
<td>H40190M</td>
<td>H40191M</td>
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<td></td>
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<td>H30497M</td>
<td>H30498M</td>
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<td>2</td>
<td>Washer</td>
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<td>H40194M</td>
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<td>3</td>
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<td>H30756M</td>
<td>H30757M</td>
<td>H30758M</td>
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<td>4</td>
<td>Cap, Plated Steel</td>
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<td>H6001M</td>
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<td>1500</td>
<td>H5998M</td>
<td>H6002M</td>
<td>H10153M</td>
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<td>7</td>
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<td>See Repair Kits</td>
<td>1400</td>
<td>H5996M</td>
<td>H6000M</td>
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<tr>
<td>8</td>
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<td>1400 &amp; 1500</td>
<td>H5996M</td>
<td>H6000M</td>
<td>H6004M</td>
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<td>12</td>
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<td>1400 &amp; 1500</td>
<td>H31752M</td>
<td>H31753M</td>
<td>H31636M</td>
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<td>13</td>
<td>Body</td>
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<tr>
<td>14</td>
<td>Drip Tube</td>
<td>1400 &amp; 1500</td>
<td>H30357RS</td>
<td>H30359RP</td>
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<td>15</td>
<td>Deflector (propeller units only)</td>
<td>1400 &amp; 1500</td>
<td>H5012M</td>
<td>H5018M</td>
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### Key Description Series

- **Series 3" & 4" & 6" ~ 12"**

<table>
<thead>
<tr>
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<th>Description</th>
<th>Series</th>
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<tr>
<td>1</td>
<td>Retaining Bolts</td>
<td>1400 &amp; 1500</td>
<td>H-40192-M</td>
<td>H-40109-M</td>
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<td>2</td>
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<td>H40194M</td>
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<tr>
<td>3</td>
<td>Nameplate</td>
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<td>C20190M</td>
<td>C20191M</td>
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<tr>
<td>4</td>
<td>Cap, Plated Steel</td>
<td>1400 &amp; 1500</td>
<td>C-20136-M</td>
<td>C-30012-RS</td>
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<td>5</td>
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*Included in 1400RK/1500RK Seal Kits*