Supplying a Complete Line of Quality Seals
For Over 50 Years

Replacement Seals for Food, Dairy & Beverage Processing

DEMAND QUALITY...
DEMAND U.S. SEAL MFG.
Replacement Seals for Food, Dairy & Beverage Processing

Introducing U.S. Seal Mfg.’s Value Guard Food Service line of replacement mechanical seals and components.

Used on centrifugal and positive displacement pumps, and related equipment throughout the Food, Dairy and Beverage Industries, these quality items can be used with confidence.

Our VGFS line meets all applicable sanitary and quality standards. Seal elastomer components are manufactured to 3A standards. All seal faces are GRAS.

When installing these seals, U.S. Seal Mfg. recommends using our U.S. SEALUBE, which is NSF-Registered as a H1 lubricant and also meets FDA Regulation 21 CFR 178.3570.

For equipment manufacturers, part numbers or materials not listed, please contact our office.

CONTENTS

APV® Centrifugal Pump Replacement Seals ...................................................... 1
Alfa Laval® Centrifugal Pump Replacement Seals .......................................... 2
Alfa Laval® (G&H) PD Pump Replacement Seals ........................................... 3-4
Fristam Pumps® Centrifugal Pump Replacement Seals .................................. 5-6
Tri-Clover® Centrifugal Pump Replacement Seals ........................................ 7-8
Waukesha® Cherry-Burrell® Replacement Seals ............................................ 9-20

VALUE GUARD MATERIAL CODE

<table>
<thead>
<tr>
<th>O-RING MATERIAL</th>
<th>ROTARY FACE</th>
<th>METAL PARTS</th>
<th>STATIONARY FACE</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Buna</td>
<td>C. Carbon</td>
<td>F. Stainless Steel</td>
<td>C. Carbon</td>
<td>F. Stainless Steel</td>
</tr>
<tr>
<td>I. Silicone</td>
<td>J. Ceramic</td>
<td></td>
<td>J. Ceramic</td>
<td></td>
</tr>
<tr>
<td>Q. EPR</td>
<td>L. Silicon Carbide</td>
<td></td>
<td>L. Silicon Carbide</td>
<td></td>
</tr>
<tr>
<td>V. Viton®</td>
<td>W. Chrome Oxide Coated SS</td>
<td></td>
<td>Z. Tungsten Carbide</td>
<td></td>
</tr>
</tbody>
</table>

Viton® is a registered trademark of DuPont Performance Elastomers, LLC
### APV® Centrifugal Pump Replacement Seals

**W 20/20, 25/75, 30/25, 30/50, 40/20, 50/25**

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>179664</td>
<td>VGFS-1000</td>
<td>Single</td>
<td>25 MM</td>
<td>QCFLF</td>
</tr>
<tr>
<td>179645</td>
<td>VGFS-1001</td>
<td>Single</td>
<td>25 MM</td>
<td>QLFLF</td>
</tr>
<tr>
<td>179647</td>
<td>VGFS-1002</td>
<td>Single</td>
<td>25 MM</td>
<td>VCFLF</td>
</tr>
<tr>
<td>179648</td>
<td>VGFS-1003</td>
<td>Single</td>
<td>25 MM</td>
<td>BCFLF</td>
</tr>
<tr>
<td>771661</td>
<td>VGFS-1004</td>
<td>Single</td>
<td>25 MM</td>
<td>BLFLF</td>
</tr>
<tr>
<td>771662</td>
<td>VGFS-1005</td>
<td>Single</td>
<td>25 MM</td>
<td>BC/LFLF</td>
</tr>
</tbody>
</table>

**Non-Flushed**

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>9612-1296-05</td>
<td>VGFS-1010</td>
<td>Single</td>
<td>35 MM</td>
<td>QCFLF</td>
</tr>
<tr>
<td>9612-1296-06</td>
<td>VGFS-1011</td>
<td>Single</td>
<td>35 MM</td>
<td>QLFLF</td>
</tr>
<tr>
<td>9612-1296-07</td>
<td>VGFS-1012</td>
<td>Single</td>
<td>35 MM</td>
<td>VCFLF</td>
</tr>
<tr>
<td>9612-1296-08</td>
<td>VGFS-1013</td>
<td>Single</td>
<td>35 MM</td>
<td>BCFLF</td>
</tr>
<tr>
<td>9612-1296-09</td>
<td>VGFS-1014</td>
<td>Single</td>
<td>35 MM</td>
<td>BLFLF</td>
</tr>
<tr>
<td>9612-1296-10</td>
<td>VGFS-1015</td>
<td>Single</td>
<td>35 MM</td>
<td>BL/LFLF</td>
</tr>
</tbody>
</table>

**Flushed**

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>9612-3622-01</td>
<td>VGFS-2000</td>
<td>Single</td>
<td>35 MM</td>
<td>QCFLF</td>
</tr>
<tr>
<td>9612-3622-02</td>
<td>VGFS-2001</td>
<td>Single</td>
<td>35 MM</td>
<td>QLFLF</td>
</tr>
<tr>
<td>9612-3622-03</td>
<td>VGFS-2002</td>
<td>Single</td>
<td>35 MM</td>
<td>VCFLF</td>
</tr>
<tr>
<td>9612-3622-04</td>
<td>VGFS-2003</td>
<td>Single</td>
<td>35 MM</td>
<td>BCFLF</td>
</tr>
</tbody>
</table>

### Alfa Laval® Centrifugal Pump Replacement Seals

**Tri-Flo® (Tri-Clover®) CL Series**

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>179665</td>
<td>VGFS-1006</td>
<td>Double</td>
<td>25 MM</td>
<td>QCFLF</td>
</tr>
<tr>
<td>179657</td>
<td>VGFS-1007</td>
<td>Double</td>
<td>25 MM</td>
<td>QLFLF</td>
</tr>
<tr>
<td>179659</td>
<td>VGFS-1008</td>
<td>Double</td>
<td>25 MM</td>
<td>VCFLF</td>
</tr>
<tr>
<td>771660</td>
<td>VGFS-1009</td>
<td>Double</td>
<td>25 MM</td>
<td>BCFLF</td>
</tr>
<tr>
<td>771679</td>
<td>VGFS-1010</td>
<td>Double</td>
<td>25 MM</td>
<td>BLFLF</td>
</tr>
<tr>
<td>771690</td>
<td>VGFS-1011</td>
<td>Double</td>
<td>25 MM</td>
<td>BL/LFLF</td>
</tr>
</tbody>
</table>

### LKH 5-60

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>179662</td>
<td>VGFS-1026</td>
<td>Single</td>
<td>35 MM</td>
<td>QCFLF</td>
</tr>
<tr>
<td>179663</td>
<td>VGFS-1027</td>
<td>Double</td>
<td>35 MM</td>
<td>QLFLF</td>
</tr>
<tr>
<td>179665</td>
<td>VGFS-1028</td>
<td>Double</td>
<td>35 MM</td>
<td>VCFLF</td>
</tr>
<tr>
<td>179666</td>
<td>VGFS-1029</td>
<td>Double</td>
<td>35 MM</td>
<td>BCFLF</td>
</tr>
</tbody>
</table>

### LKH 70 & 80

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>179650</td>
<td>VGFS-1020</td>
<td>Single</td>
<td>35 MM</td>
<td>QCFLF</td>
</tr>
<tr>
<td>179651</td>
<td>VGFS-1021</td>
<td>Single</td>
<td>35 MM</td>
<td>QLFLF</td>
</tr>
<tr>
<td>771653</td>
<td>VGFS-1022</td>
<td>Single</td>
<td>35 MM</td>
<td>VCFLF</td>
</tr>
<tr>
<td>771654</td>
<td>VGFS-1023</td>
<td>Single</td>
<td>35 MM</td>
<td>BCFLF</td>
</tr>
<tr>
<td>771670</td>
<td>VGFS-1024</td>
<td>Single</td>
<td>35 MM</td>
<td>BLFLF</td>
</tr>
<tr>
<td>771671</td>
<td>VGFS-1025</td>
<td>Single</td>
<td>35 MM</td>
<td>BL/LFLF</td>
</tr>
</tbody>
</table>

### LKH 110 & 120 Multi-Stage

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>179662</td>
<td>VGFS-1030</td>
<td>Single</td>
<td>25 MM</td>
<td>QC-L-</td>
</tr>
<tr>
<td>772461</td>
<td>VGFS-1031</td>
<td>Single</td>
<td>25 MM</td>
<td>QC-L-</td>
</tr>
<tr>
<td>772462</td>
<td>VGFS-1032</td>
<td>Single</td>
<td>25 MM</td>
<td>QL-L-</td>
</tr>
<tr>
<td>772463</td>
<td>VGFS-1033</td>
<td>Single</td>
<td>25 MM</td>
<td>QL-L-</td>
</tr>
</tbody>
</table>

### W+ 10/8, 22/20, 30/80, 35/35, 55/60, 65/350, 70/40, 80/80, 110/130

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>772461</td>
<td>VGFS-1000</td>
<td>Single</td>
<td>25 MM</td>
<td>QC-L-</td>
</tr>
<tr>
<td>772462</td>
<td>VGFS-1034</td>
<td>Single</td>
<td>25 MM</td>
<td>QL-L-</td>
</tr>
</tbody>
</table>

### W+ 25/210, 30/120, 30/180, 55/60, 60/110, 65/350, 70/40, 80/80, 110/130

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>772466</td>
<td>VGFS-1040</td>
<td>Single</td>
<td>35 MM</td>
<td>QC-L-</td>
</tr>
<tr>
<td>772467</td>
<td>VGFS-1041</td>
<td>Single</td>
<td>35 MM</td>
<td>QC-L-</td>
</tr>
</tbody>
</table>
### TSE/SRU 1 (322 & 332)
#### Hyclean Non-Flushed

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>96300053608</td>
<td>VGFS-3000</td>
<td>Single</td>
<td>20 MM</td>
<td>QCF3F</td>
</tr>
<tr>
<td>96300053609</td>
<td>VGFS-3001</td>
<td>Single</td>
<td>20 MM</td>
<td>VCFLF</td>
</tr>
<tr>
<td>963000537357</td>
<td>VGFS-3002</td>
<td>Single</td>
<td>20 MM</td>
<td>VCF3F</td>
</tr>
<tr>
<td>96300099999</td>
<td>VGFS-3003</td>
<td>Single</td>
<td>20 MM</td>
<td>BCF3F</td>
</tr>
<tr>
<td>96300093272</td>
<td>VGFS-3004</td>
<td>Single</td>
<td>20 MM</td>
<td>VCF3F</td>
</tr>
</tbody>
</table>

### TSE/SRU 2 (422 & 432)
#### Hyclean Non-Flushed

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>9630046720</td>
<td>VGFS-3010</td>
<td>Single</td>
<td>30 MM</td>
<td>BCF3F</td>
</tr>
<tr>
<td>9630046730</td>
<td>VGFS-3011</td>
<td>Single</td>
<td>30 MM</td>
<td>VCF3F</td>
</tr>
<tr>
<td>9630046741</td>
<td>VGFS-3012</td>
<td>Single</td>
<td>30 MM</td>
<td>BCF3F</td>
</tr>
<tr>
<td>9630046746</td>
<td>VGFS-3014</td>
<td>Single</td>
<td>30 MM</td>
<td>VCF3F</td>
</tr>
</tbody>
</table>

### TSE/SRU 3 (522 & 532)
#### Hyclean Non-Flushed

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>9630046733</td>
<td>VGFS-3020</td>
<td>Single</td>
<td>35 MM</td>
<td>BCF3F</td>
</tr>
<tr>
<td>9630046734</td>
<td>VGFS-3021</td>
<td>Single</td>
<td>35 MM</td>
<td>VCF3F</td>
</tr>
<tr>
<td>9630046735</td>
<td>VGFS-3022</td>
<td>Single</td>
<td>35 MM</td>
<td>QCF3F</td>
</tr>
<tr>
<td>9630046745</td>
<td>VGFS-3023</td>
<td>Single</td>
<td>35 MM</td>
<td>BCF3F</td>
</tr>
<tr>
<td>9630046750</td>
<td>VGFS-3024</td>
<td>Single</td>
<td>35 MM</td>
<td>VCF3F</td>
</tr>
</tbody>
</table>

### TSE/SRU 4 (622 & 632)
#### Hyclean Non-Flushed

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>9630046737</td>
<td>VGFS-3030</td>
<td>Single</td>
<td>45 MM</td>
<td>BCF3F</td>
</tr>
<tr>
<td>9630046740</td>
<td>VGFS-3031</td>
<td>Single</td>
<td>45 MM</td>
<td>VCF3F</td>
</tr>
<tr>
<td>9630046741</td>
<td>VGFS-3032</td>
<td>Single</td>
<td>45 MM</td>
<td>QCF3F</td>
</tr>
<tr>
<td>9630046752</td>
<td>VGFS-3033</td>
<td>Single</td>
<td>45 MM</td>
<td>BCF3F</td>
</tr>
<tr>
<td>9630046753</td>
<td>VGFS-3034</td>
<td>Single</td>
<td>45 MM</td>
<td>VCF3F</td>
</tr>
</tbody>
</table>

### TSE/SRU 5 (722 & 732)
#### Hyclean Non-Flushed

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>96300046726</td>
<td>VGFS-3040</td>
<td>Single</td>
<td>55 MM</td>
<td>BCFFF</td>
</tr>
<tr>
<td>96300046743</td>
<td>VGFS-3041</td>
<td>Single</td>
<td>55 MM</td>
<td>VCF3F</td>
</tr>
<tr>
<td>96300046744</td>
<td>VGFS-3042</td>
<td>Single</td>
<td>55 MM</td>
<td>QCF3F</td>
</tr>
<tr>
<td>96300046755</td>
<td>VGFS-3043</td>
<td>Single</td>
<td>55 MM</td>
<td>BCF3F</td>
</tr>
<tr>
<td>96300046756</td>
<td>VGFS-3044</td>
<td>Single</td>
<td>55 MM</td>
<td>VCF3F</td>
</tr>
</tbody>
</table>

### TSE/SRU 6 (822 & 832)
#### Hyclean Non-Flushed

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>96300030780</td>
<td>VGFS-3050</td>
<td>Single</td>
<td>67 MM</td>
<td>VCF3F</td>
</tr>
<tr>
<td>9630041719</td>
<td>VGFS-3051</td>
<td>Single</td>
<td>67 MM</td>
<td>QCF3F</td>
</tr>
<tr>
<td>9630041720</td>
<td>VGFS-3052</td>
<td>Single</td>
<td>67 MM</td>
<td>QLC3F</td>
</tr>
<tr>
<td>9630041729</td>
<td>VGFS-3053</td>
<td>Single</td>
<td>67 MM</td>
<td>VLC3F</td>
</tr>
<tr>
<td>9630049360</td>
<td>VGFS-3054</td>
<td>Single</td>
<td>67 MM</td>
<td>VCF3F</td>
</tr>
</tbody>
</table>

### Fristam Pumps® Centrifugal Pump Replacement Seals

#### FP, FPX Size 633

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802600002</td>
<td>VGFS-4000</td>
<td>Single</td>
<td>22 MM</td>
<td>VWFCF</td>
</tr>
<tr>
<td>1802600004</td>
<td>VGFS-4001</td>
<td>Single</td>
<td>22 MM</td>
<td>VLFCF</td>
</tr>
</tbody>
</table>

- **- Split - 2 Piece Seat** -

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802600005</td>
<td>VGFS-4005</td>
<td>Single</td>
<td>22 MM</td>
<td>VLFLF</td>
</tr>
<tr>
<td>1802600135</td>
<td>VGFS-4006</td>
<td>Single</td>
<td>22 MM</td>
<td>VWFLF</td>
</tr>
</tbody>
</table>

#### FP, FPX Size 735

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802600002</td>
<td>VGFS-4010</td>
<td>Single</td>
<td>30 MM</td>
<td>VWFCF</td>
</tr>
<tr>
<td>1802600296</td>
<td>VGFS-4011</td>
<td>Single</td>
<td>30 MM</td>
<td>VLFCF</td>
</tr>
</tbody>
</table>

- **- Tapered Seat ID -** -

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802600127</td>
<td>VGFS-4015</td>
<td>Single</td>
<td>30 MM</td>
<td>VWFCF</td>
</tr>
</tbody>
</table>

#### FP, FPX Size 736

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802600009</td>
<td>VGFS-4020</td>
<td>Single</td>
<td>35 MM</td>
<td>VWFCF</td>
</tr>
<tr>
<td>1802600037</td>
<td>VGFS-4021</td>
<td>Single</td>
<td>35 MM</td>
<td>VLFCF</td>
</tr>
</tbody>
</table>

- **- Split - 2 Piece Seat** -

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802600132</td>
<td>VGFS-4025</td>
<td>Single</td>
<td>35 MM</td>
<td>VLFLF</td>
</tr>
<tr>
<td>1802600141</td>
<td>VGFS-4026</td>
<td>Single</td>
<td>35 MM</td>
<td>VWFLF</td>
</tr>
<tr>
<td>1802600139</td>
<td>VGFS-4027</td>
<td>Double</td>
<td>35 MM</td>
<td>VL/JFCF</td>
</tr>
<tr>
<td>1802600393</td>
<td>VGFS-4028</td>
<td>Double</td>
<td>35 MM</td>
<td>VW/JFL/CF</td>
</tr>
</tbody>
</table>

#### FPR

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802600036</td>
<td>VGFS-4030</td>
<td>Single</td>
<td>30 MM</td>
<td>VWFCF</td>
</tr>
<tr>
<td>1802600003</td>
<td>VGFS-4032</td>
<td>Single</td>
<td>30 MM</td>
<td>VLFCF</td>
</tr>
</tbody>
</table>

- **- Split - 2 Piece Seat** -

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802600006</td>
<td>VGFS-4033</td>
<td>Single</td>
<td>30 MM</td>
<td>VWFLF</td>
</tr>
<tr>
<td>1802600030</td>
<td>VGFS-4034</td>
<td>Double</td>
<td>30 MM</td>
<td>QL/JFCF</td>
</tr>
</tbody>
</table>

#### FT

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802600037</td>
<td>VGFS-4040</td>
<td>Single</td>
<td>30 MM</td>
<td>VWFCF</td>
</tr>
</tbody>
</table>

- **- Split - 2 Piece Seat** -

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802600012</td>
<td>VGFS-4041</td>
<td>Single</td>
<td>30 MM</td>
<td>VLFLF</td>
</tr>
</tbody>
</table>

#### FXZ 2000 Mixer Pump

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802600010</td>
<td>VGFS-4050</td>
<td>Single</td>
<td>30 MM</td>
<td>VWFCF</td>
</tr>
<tr>
<td>1802600012</td>
<td>VGFS-4051</td>
<td>Single</td>
<td>30 MM</td>
<td>VLFCF</td>
</tr>
</tbody>
</table>
### 3EH Centrifugal Pump Replacement Seals

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>216D-80-3P</td>
<td>VGFS-5000</td>
<td>Cup</td>
<td>SS (F)</td>
</tr>
<tr>
<td>3EH-141D-26</td>
<td>VGFS-5001</td>
<td>Rotary Face</td>
<td>Carbon (C)</td>
</tr>
<tr>
<td>3EH-141D-27</td>
<td>VGFS-5002</td>
<td>Spring</td>
<td>SS (F)</td>
</tr>
<tr>
<td>328-80-2-E</td>
<td>VGFS-5005</td>
<td>O-Ring, Seal</td>
<td>EPR (Q)</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-5004</td>
<td>Gasket, Outer Seal</td>
<td>**</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-5006</td>
<td>Seat, Inner</td>
<td>Ceramic (J)</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-5007</td>
<td>Seat, Outer</td>
<td>Ceramic (J)</td>
</tr>
</tbody>
</table>

**Compressed Non-Asbestos**

### 4EH Centrifugal Pump Replacement Seals

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>100PL-172-3P</td>
<td>VGFS-5010</td>
<td>O-Ring, Rotary</td>
<td>EPR (Q)</td>
</tr>
<tr>
<td>4EH-143-2P-5</td>
<td>VGFS-5011</td>
<td>Cup</td>
<td>SS (F)</td>
</tr>
<tr>
<td>4EH-143A-26</td>
<td>VGFS-5012</td>
<td>Rotary Face</td>
<td>Carbon (C)</td>
</tr>
<tr>
<td>4EH-143A-27A</td>
<td>VGFS-5013</td>
<td>Spring, Single Seal</td>
<td>SS (F)</td>
</tr>
<tr>
<td>4EH-148A-23</td>
<td>VGFS-5014</td>
<td>Collar, Seal</td>
<td>SS (F)</td>
</tr>
<tr>
<td>4EH-148A-27A</td>
<td>VGFS-5015</td>
<td>Spring, Double Seal</td>
<td>SS (F)</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-5016</td>
<td>Gasket, Outer Seal</td>
<td>**</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-5017</td>
<td>O-Ring, Inner Seal</td>
<td>EPR (Q)</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-5018</td>
<td>Seat, Inner</td>
<td>Ceramic (J)</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-5019</td>
<td>Seat, Outer</td>
<td>Ceramic (J)</td>
</tr>
</tbody>
</table>

### C114 / SP114 Centrifugal Pump Replacement Seals

- **Part No.** | **Part No.** | **Component Type** | **Dia. Code** |
- | | | |

### Pump Service Kits

- **Part No.** | **Part No.** | **Component Type** | **Dia. Code** |
- | | | |

### Mfg. Value Guard

- **Guard 1.500** Shaft Dia. Material
- **Guard 1.750** Shaft Dia. Material
- **Guard** Material

Contact U.S. Seal Mfg. for Equipment Manufacturers, Part Numbers or Materials Not Listed.

See Contents Page for information on Material Code.

7

8
### Mfg. Value Guard Seal Shaft Material

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Type Dia. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>U1 006, 015, 018, 024</td>
<td>Seal &amp; O-Ring Kits</td>
<td></td>
</tr>
<tr>
<td>105295</td>
<td>VGFS-6000</td>
<td>Single 1.250 BJ-CF</td>
</tr>
<tr>
<td>105296</td>
<td>VGFS-6001</td>
<td>Single 1.250 VJ-CF</td>
</tr>
<tr>
<td>105297</td>
<td>VGFS-6002</td>
<td>Single 1.250 BL-CF</td>
</tr>
<tr>
<td>105298</td>
<td>VGFS-6003</td>
<td>Single 1.250 VL-CF</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6004</td>
<td>Single 1.250 BL-LF</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6005</td>
<td>Single 1.250 QJ-CF</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6006</td>
<td>Single 1.250 QL-CF</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6007</td>
<td>Single 1.250 QL-LF</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6008</td>
<td>Single 1.250 VL-LF</td>
</tr>
</tbody>
</table>

Includes Seals, O-Rings and Wave Springs for 2 shafts

### Components for Inner and Outer Seals

- **Chrome Oxide Coated SS**
- **EPR**
- **Silicone**
- **Viton®**
- **Buna (B)**
- **Carbon (C)**
- **SC (L)**
- **Viton**

### Seal & Seat Components

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Sleeve Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>015-306-002</td>
<td>VGFS-6030</td>
<td>Seal, Stationary Face</td>
<td>Ceramic (J)</td>
<td></td>
</tr>
<tr>
<td>015-306-007</td>
<td>VGFS-6031</td>
<td>Seal, Stationary Face</td>
<td>Carbon (C)</td>
<td></td>
</tr>
<tr>
<td>015-306-009</td>
<td>VGFS-6032</td>
<td>Seal, Stationary Face</td>
<td>SC (L)</td>
<td></td>
</tr>
<tr>
<td>AD0790002</td>
<td>VGFS-6033</td>
<td>O-Ring, Stationary Face</td>
<td>Buna (B)</td>
<td></td>
</tr>
<tr>
<td>AD079002</td>
<td>VGFS-6034</td>
<td>O-Ring, Stationary Face</td>
<td>EPR (Q)</td>
<td></td>
</tr>
<tr>
<td>AD079004</td>
<td>VGFS-6035</td>
<td>O-Ring, Stationary Face</td>
<td>Silicone (I)</td>
<td></td>
</tr>
<tr>
<td>AD079006</td>
<td>VGFS-6036</td>
<td>O-Ring, Stationary Face</td>
<td>Viton® (V)</td>
<td></td>
</tr>
</tbody>
</table>

### Inner Seal

- Seal, Stationary Face: Ceramic (J)
- Seal, Stationary Face: Carbon (C)
- Seal, Stationary Face: SC (L)
- O-Ring, Stationary Face: Buna (B)
- O-Ring, Stationary Face: EPR (Q)
- O-Ring, Stationary Face: Silicone (I)
- O-Ring, Stationary Face: Viton® (V)

### Outer Seal

- Seal, Stationary Face: Carbon (C)
- Sleeve: Buna (B)
- Sleeve: SS (F)
- Sleeve: Viton® (V)
- Sleeve: Zirconia
- Spring, Wave: SS (F)

### Waukesha® Cherry-Burrell® PD Pump Replacement Seals

#### Seal & O-Ring Kits

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Component Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>105259VGFS-6120</td>
<td>Single</td>
<td>1.500 B--F--</td>
</tr>
<tr>
<td>105263VGFS-6122</td>
<td>Single</td>
<td>1.500 Q--F--</td>
</tr>
<tr>
<td>105265VGFS-6125</td>
<td>Double</td>
<td>1.500 V--F--</td>
</tr>
</tbody>
</table>

Includes Seals, O-Rings and Wave Springs for 2 shafts

#### Sleeve & O-Ring Kits

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Component Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>105261VGFS-6123</td>
<td>Double</td>
<td>1.500 B--F--</td>
</tr>
<tr>
<td>105265VGFS-6125</td>
<td>Double</td>
<td>1.500 V--F--</td>
</tr>
</tbody>
</table>

Includes Sleeves and O-Rings for 2 shafts

#### Seal & Seat Components

**Inner Seal**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Component Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>030-306-007VGFS-6130</td>
<td>Seal, Stationary Face</td>
<td>Ceramic (J)</td>
</tr>
<tr>
<td>030-306-007VGFS-6131</td>
<td>Seal, Stationary Face</td>
<td>Carbon (C)</td>
</tr>
<tr>
<td>030-306-009VGFS-6132</td>
<td>O-Ring, Stationary Face</td>
<td>Buna (B)</td>
</tr>
</tbody>
</table>

**Outer Seal**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Component Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>030-206-007VGFS-6137</td>
<td>Seal, Stationary Face</td>
<td>Carbon (C)</td>
</tr>
<tr>
<td>030-206-007VGFS-6138</td>
<td>O-Ring, Stationary Face</td>
<td>Buna (B)</td>
</tr>
</tbody>
</table>

#### Components for Inner and Outer Seals

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Component Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>E70028VGFS-6140</td>
<td>O-Ring, Shaft</td>
<td>EPR (Q)</td>
</tr>
<tr>
<td>N70028VGFS-6141</td>
<td>O-Ring, Shaft</td>
<td>Buna (B)</td>
</tr>
<tr>
<td>S70028VGFS-6142</td>
<td>O-Ring, Shaft</td>
<td>Silicone (I)</td>
</tr>
<tr>
<td>T70028VGFS-6143</td>
<td>O-Ring, Shaft</td>
<td>Viton® (V)</td>
</tr>
<tr>
<td>030-014-002VGFS-6144</td>
<td>Seal, Rotary Face</td>
<td>Ceramic (J)</td>
</tr>
</tbody>
</table>

**Chrome Oxide Coated SS**

Contact U.S. Seal Mfg. for Equipment Manufacturers, Part Numbers or Materials Not Listed.

See Contents Page for information on Material Code.

### Waukesha® Cherry-Burrell® PD Pump Replacement Seals

#### Seal & O-Ring Kits

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Component Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>105315VGFS-6200</td>
<td>Single</td>
<td>1.875 BJ--CF</td>
</tr>
<tr>
<td>105319VGFS-6209</td>
<td>Double</td>
<td>1.875 BJ--CF</td>
</tr>
<tr>
<td>105320VGFS-6210</td>
<td>Double</td>
<td>1.875 BJ--CF</td>
</tr>
<tr>
<td>105321VGFS-6211</td>
<td>Double</td>
<td>1.875 BL--CF</td>
</tr>
<tr>
<td>105322VGFS-6212</td>
<td>Double</td>
<td>1.875 VL--CF</td>
</tr>
</tbody>
</table>

Includes Seals, O-Rings and Wave Springs for 2 shafts

#### Sleeve & O-Ring Kits

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Component Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>105271VGFS-6220</td>
<td>Single</td>
<td>1.875 B--F--</td>
</tr>
<tr>
<td>105275VGFS-6222</td>
<td>Single</td>
<td>1.875 V--F--</td>
</tr>
<tr>
<td>105277VGFS-6225</td>
<td>Double</td>
<td>1.875 V--F--</td>
</tr>
</tbody>
</table>

Includes Sleeves and O-Rings for 2 shafts

#### Seal & Seat Components

**Inner Seal**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Component Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>060-306-002VGFS-6230</td>
<td>Seal, Stationary Face</td>
<td>Ceramic (J)</td>
</tr>
<tr>
<td>060-306-007VGFS-6231</td>
<td>Seal, Stationary Face</td>
<td>Carbon (C)</td>
</tr>
<tr>
<td>060-306-009VGFS-6232</td>
<td>Seal, Stationary Face</td>
<td>SC (L)</td>
</tr>
<tr>
<td>E70031VGFS-6233</td>
<td>O-Ring, Stationary Face</td>
<td>EPR (Q)</td>
</tr>
<tr>
<td>N70031VGFS-6235</td>
<td>O-Ring, Stationary Face</td>
<td>Buna (B)</td>
</tr>
<tr>
<td>S70031VGFS-6236</td>
<td>O-Ring, Stationary Face</td>
<td>Silicone (I)</td>
</tr>
<tr>
<td>V70031VGFS-6238</td>
<td>O-Ring, Stationary Face</td>
<td>Viton® (V)</td>
</tr>
</tbody>
</table>

**Chrome Oxide Coated SS**

Contact U.S. Seal Mfg. for Equipment Manufacturers, Part Numbers or Materials Not Listed.

See Contents Page for information on Material Code.

#### Components for Inner and Outer Seals

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Component Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>E70131VGFS-6240</td>
<td>O-Ring, Shaft</td>
<td>EPR (Q)</td>
</tr>
<tr>
<td>N70131VGFS-6241</td>
<td>O-Ring, Shaft</td>
<td>Buna (B)</td>
</tr>
<tr>
<td>S70131VGFS-6242</td>
<td>O-Ring, Shaft</td>
<td>Silicone (I)</td>
</tr>
<tr>
<td>T70131VGFS-6243</td>
<td>O-Ring, Shaft</td>
<td>Viton® (V)</td>
</tr>
<tr>
<td>060-014-002VGFS-6244</td>
<td>Seal, Rotary Face</td>
<td>Ceramic (J)</td>
</tr>
</tbody>
</table>

**Chrome Oxide Coated SS**

Contact U.S. Seal Mfg. for Equipment Manufacturers, Part Numbers or Materials Not Listed.

See Contents Page for information on Material Code.
### Waukesha® Cherry-Burrell® PD Pump Replacement Seals

#### U1 220, 224

**Seal & O-Ring Kits**

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>105325</td>
<td>VGFS-6300</td>
<td>Single</td>
<td>2.750</td>
<td>B--F</td>
</tr>
<tr>
<td>105326</td>
<td>VGFS-6301</td>
<td>Single</td>
<td>2.750</td>
<td>BL--F</td>
</tr>
<tr>
<td>105327</td>
<td>VGFS-6302</td>
<td>Single</td>
<td>2.750</td>
<td>VL--F</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6304</td>
<td>Single</td>
<td>2.750</td>
<td>BL--LF</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6305</td>
<td>Single</td>
<td>2.750</td>
<td>QJ--F</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6306</td>
<td>Single</td>
<td>2.750</td>
<td>QL--F</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6307</td>
<td>Single</td>
<td>2.750</td>
<td>VJ--F</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6308</td>
<td>Single</td>
<td>2.750</td>
<td>VL--LF</td>
</tr>
</tbody>
</table>

Includes Seals, O-Rings and Wave Springs for 2 shafts.

#### Sleeve & O-Ring Kits

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Sleeve Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>105283</td>
<td>VGFS-6322</td>
<td>Single</td>
<td>2.750</td>
<td>V--F</td>
</tr>
<tr>
<td>105287</td>
<td>VGFS-6323</td>
<td>Single</td>
<td>2.750</td>
<td>V--F</td>
</tr>
</tbody>
</table>

Includes Sleeves and O-Rings for 2 shafts.

#### Seal & Seat Components

**Inner Seal**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>220-306-002</td>
<td>VGFS-6339</td>
<td>Seal, Stationary Face</td>
<td>Ceramic (J)</td>
</tr>
<tr>
<td>220-306-007</td>
<td>VGFS-6340</td>
<td>Seal, Stationary Face</td>
<td>Carbon (C)</td>
</tr>
<tr>
<td>220-306-009</td>
<td>VGFS-6351</td>
<td>O-Ring, Stationary Face</td>
<td>EPR (Q)</td>
</tr>
<tr>
<td>N70338</td>
<td>VGFS-6334</td>
<td>O-Ring, Stationary Face</td>
<td>Buna (B)</td>
</tr>
<tr>
<td>V70338</td>
<td>VGFS-6336</td>
<td>O-Ring, Stationary Face</td>
<td>Viton® (V)</td>
</tr>
</tbody>
</table>

**Outer Seal**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>200-014-009</td>
<td>VGFS-6365</td>
<td>Seal, Rotary Face</td>
<td>SC (L)</td>
</tr>
<tr>
<td>200-098-000</td>
<td>VGFS-6366</td>
<td>Sleeve</td>
<td>SS (F)</td>
</tr>
<tr>
<td>200-098-002</td>
<td>VGFS-6367</td>
<td>Sleeve</td>
<td>** (W)</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6358</td>
<td>Sleeve</td>
<td>Jimsor® (X)</td>
</tr>
<tr>
<td>200-304-000</td>
<td>VGFS-6359</td>
<td>Spring, Wave</td>
<td>SS (F)</td>
</tr>
</tbody>
</table>

Components for Inner and Outer Seals

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>E70144</td>
<td>VGFS-6350</td>
<td>O-Ring, Shaft EPR (Q)</td>
<td></td>
</tr>
<tr>
<td>N70144</td>
<td>VGFS-6351</td>
<td>O-Ring, Shaft Buna (B)</td>
<td></td>
</tr>
<tr>
<td>V70144</td>
<td>VGFS-6353</td>
<td>O-Ring, Shaft Viton® (V)</td>
<td></td>
</tr>
<tr>
<td>220-014-002</td>
<td>VGFS-6354</td>
<td>Seal, Rotary Face Ceramic (J)</td>
<td></td>
</tr>
</tbody>
</table>

**Seat Components**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>300014002</td>
<td>VGFS-6400</td>
<td>Seal, Full Clamp flush Ceramic (J)</td>
<td></td>
</tr>
<tr>
<td>300042031</td>
<td>VGFS-6441</td>
<td>Seal, Full Clamp flush SC (L)</td>
<td></td>
</tr>
</tbody>
</table>

Contact U.S. Seal Mfg. for Equipment Manufacturers, Part Numbers or Materials Not Listed.

See Contents Page for information on Material Code.

---

### Waukesha® Cherry-Burrell® PD Pump Replacement Seals

#### U1 320, 323, 324

**Per Shaft**

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>—</td>
<td>VGFS-6400</td>
<td>Double</td>
<td>2.750</td>
<td>B--F</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6401</td>
<td>Double</td>
<td>2.750</td>
<td>BL--F</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6402</td>
<td>Double</td>
<td>2.750</td>
<td>VJ--F</td>
</tr>
</tbody>
</table>

Includes Seal Seat for 1 Shaft.

#### Inner Seal Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>300042021</td>
<td>VGFS-6430</td>
<td>Gasket, Full Clamp Seal EPR (Q)</td>
<td></td>
</tr>
<tr>
<td>40754</td>
<td>VGFS-6411</td>
<td>Face, Rotary Carbon (C)</td>
<td></td>
</tr>
<tr>
<td>40755</td>
<td>VGFS-6412</td>
<td>Face, Rotary Ceramic (J)</td>
<td></td>
</tr>
<tr>
<td>300042020</td>
<td>VGFS-6413</td>
<td>Gasket, Full Clamp Seal EPR (Q)</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6414</td>
<td>Gasket, Full Clamp Seal Silicone (I)</td>
<td></td>
</tr>
<tr>
<td>E70238</td>
<td>VGFS-6415</td>
<td>O-Ring, Rotary Face EPR (Q)</td>
<td></td>
</tr>
<tr>
<td>S75238</td>
<td>VGFS-6416</td>
<td>O-Ring, Rotary Face Silicone (I)</td>
<td></td>
</tr>
<tr>
<td>V70238</td>
<td>VGFS-6417</td>
<td>O-Ring, Rotary Face Viton® (V)</td>
<td></td>
</tr>
<tr>
<td>E70234</td>
<td>VGFS-6418</td>
<td>O-Ring, Shaft EPR (Q)</td>
<td></td>
</tr>
<tr>
<td>S75234</td>
<td>VGFS-6419</td>
<td>O-Ring, Shaft Silicone (I)</td>
<td></td>
</tr>
<tr>
<td>V70234</td>
<td>VGFS-6420</td>
<td>O-Ring, Shaft Viton® (V)</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6421</td>
<td>Rotary, Complete QCF-F</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6422</td>
<td>Rotary, Complete QL-F</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6423</td>
<td>Rotary, Complete IC-F</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6424</td>
<td>Rotary, Complete IL-F</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6425</td>
<td>Rotary, Complete VCF-F</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6426</td>
<td>Rotary, Complete VL-F</td>
<td></td>
</tr>
<tr>
<td>110038</td>
<td>VGFS-6427</td>
<td>Set Screw SS (F)</td>
<td></td>
</tr>
<tr>
<td>40875</td>
<td>VGFS-6428</td>
<td>Spring SS (F)</td>
<td></td>
</tr>
</tbody>
</table>

#### Outer Seal Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>300042022</td>
<td>VGFS-6431</td>
<td>Gasket, Full Clamp Seal Silicone (I)</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6432</td>
<td>Rotary, Complete QCF-F</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6433</td>
<td>Face, Rotary Carbon (C)</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6434</td>
<td>Face, Rotary SC (L)</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6435</td>
<td>Spring SS (F)</td>
<td></td>
</tr>
</tbody>
</table>

Includes Double Seals for 2 Shafts.

Contact U.S. Seal Mfg. for Equipment Manufacturers, Part Numbers or Materials Not Listed.

See Contents Page for information on Material Code.

**Non-Flush**

<table>
<thead>
<tr>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramic (J)</td>
</tr>
</tbody>
</table>

**Chrome Oxide Coated SS**
# PD Pump Replacement Seals

## Waukesha® Cherry-Burrell®

### U2 006, 015, 018

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VGFS-6500</td>
<td>Single</td>
<td>1.250</td>
<td>QL-CF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6501</td>
<td>Single</td>
<td>1.250</td>
<td>QL-LF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6502</td>
<td>Single</td>
<td>1.250</td>
<td>VL-CF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6503</td>
<td>Single</td>
<td>1.250</td>
<td>VL-LF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VGFS-6504</td>
<td>Double</td>
<td>1.250</td>
<td>QCU-JF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6505</td>
<td>Double</td>
<td>1.250</td>
<td>QC-L-LF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6506</td>
<td>Double</td>
<td>1.250</td>
<td>QJ-CF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6507</td>
<td>Double</td>
<td>1.250</td>
<td>QL-LF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6508</td>
<td>Double</td>
<td>1.250</td>
<td>VC-J-JF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6509</td>
<td>Double</td>
<td>1.250</td>
<td>VC-L-LF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6510</td>
<td>Double</td>
<td>1.250</td>
<td>VJ-CF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6511</td>
<td>Double</td>
<td>1.250</td>
<td>VL-LF</td>
</tr>
</tbody>
</table>

Includes Seals, O-rings and Wave Springs for 1 shaft (2 required per pump)

### U2 030, 034

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VGFS-6600</td>
<td>Double</td>
<td>1.500</td>
<td>QL-CF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6601</td>
<td>Double</td>
<td>1.500</td>
<td>QL-LF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6602</td>
<td>Single</td>
<td>1.500</td>
<td>VL-CF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6603</td>
<td>Single</td>
<td>1.500</td>
<td>VL-LF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VGFS-6604</td>
<td>Double</td>
<td>1.500</td>
<td>QCU-JF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6605</td>
<td>Double</td>
<td>1.500</td>
<td>QC-L-LF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6606</td>
<td>Single</td>
<td>1.500</td>
<td>QJ-CF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6607</td>
<td>Single</td>
<td>1.500</td>
<td>QL-LF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6608</td>
<td>Single</td>
<td>1.500</td>
<td>VC-J-JF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6609</td>
<td>Single</td>
<td>1.500</td>
<td>VC-L-LF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6610</td>
<td>Single</td>
<td>1.500</td>
<td>VJ-CF</td>
</tr>
<tr>
<td></td>
<td>VGFS-6611</td>
<td>Single</td>
<td>1.500</td>
<td>VL-LF</td>
</tr>
</tbody>
</table>

Includes Seals, O-rings and Wave Springs for 1 shaft (2 required per pump)

### Inner Seal Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>101651</td>
<td>VGFS-6620</td>
<td>Seal, Stationary Face</td>
<td>Carbon (C)</td>
</tr>
<tr>
<td>101652</td>
<td>VGFS-6621</td>
<td>Seal, Stationary Face</td>
<td>Ceramic (J)</td>
</tr>
<tr>
<td>101653</td>
<td>VGFS-6622</td>
<td>Seal, Stationary Face</td>
<td>SC (L)</td>
</tr>
<tr>
<td>101654</td>
<td>VGFS-6623</td>
<td>Spring, Wave</td>
<td>SS (F)</td>
</tr>
<tr>
<td>E70035</td>
<td>VGFS-6624</td>
<td>O-Ring, Stationary Face</td>
<td>EPR (Q)</td>
</tr>
<tr>
<td>N70028</td>
<td>VGFS-6625</td>
<td>O-Ring, Stationary Face</td>
<td>Buna (B)</td>
</tr>
<tr>
<td>V70028</td>
<td>VGFS-6626</td>
<td>O-Ring, Stationary Face</td>
<td>Viton® (V)</td>
</tr>
</tbody>
</table>

### Outer Seal Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>101679</td>
<td>VGFS-6630</td>
<td>Seal, Stationary Face</td>
<td>Carbon (C)</td>
</tr>
<tr>
<td>101680</td>
<td>VGFS-6631</td>
<td>Seal, Stationary Face</td>
<td>Ceramic (J)</td>
</tr>
<tr>
<td>101681</td>
<td>VGFS-6632</td>
<td>Seal, Stationary Face</td>
<td>SC (L)</td>
</tr>
<tr>
<td>E70035</td>
<td>VGFS-6634</td>
<td>O-Ring, Stationary Face</td>
<td>EPR (Q)</td>
</tr>
<tr>
<td>N70035</td>
<td>VGFS-6635</td>
<td>O-Ring, Stationary Face</td>
<td>Buna (B)</td>
</tr>
<tr>
<td>V70035</td>
<td>VGFS-6636</td>
<td>O-Ring, Stationary Face</td>
<td>Viton® (V)</td>
</tr>
</tbody>
</table>

### Seat Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>E70024</td>
<td>VGFS-6640</td>
<td>O-Ring, Rotary Face</td>
<td>EPR (Q)</td>
</tr>
<tr>
<td>N70024</td>
<td>VGFS-6641</td>
<td>O-Ring, Rotary Face</td>
<td>Buna (B)</td>
</tr>
<tr>
<td>V70024</td>
<td>VGFS-6642</td>
<td>O-Ring, Rotary Face</td>
<td>Viton® (V)</td>
</tr>
</tbody>
</table>

Contact U.S. Seal Mfg. for Equipment Manufacturers, Part Numbers or Materials Not Listed.

See Contents Page for information on Material Code.
### Waukesha® Cherry-Burrell® PD Pump Replacement Seals

**U2 040, 045, 060, 064, 130, 134**

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Seal Shaft Material Code</th>
<th>Seal Type</th>
<th>Dia. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>— VGFS-6700</td>
<td>— VGFS-6704 Double 1.875 QJ-UJ</td>
<td>Single</td>
<td>1.875 QL-CF</td>
</tr>
<tr>
<td>— VGFS-6701</td>
<td>— VGFS-6705 Double 1.875 QL-JF</td>
<td>Single</td>
<td>1.875 QL-LF</td>
</tr>
<tr>
<td>— VGFS-6702</td>
<td>— VGFS-6706 Double 1.875 VJ-UJ</td>
<td>Single</td>
<td>1.875 VL-CF</td>
</tr>
<tr>
<td>— VGFS-6703</td>
<td>— VGFS-6707 Double 1.875 VJ-JF</td>
<td>Single</td>
<td>1.875 VL-LF</td>
</tr>
</tbody>
</table>

Includes Seals, O-rings and Wave Springs for 1 shaft (2 required per pump)

### Waukesha® Cherry-Burrell® PD Pump Replacement Seals

**U2 180, 220, 224**

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Seal Shaft Material Code</th>
<th>Seal Type</th>
<th>Dia. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>— VGFS-6800</td>
<td>— VGFS-6804 Double 2.750 QL-UJ</td>
<td>Single</td>
<td>2.750 QL-CF</td>
</tr>
<tr>
<td>— VGFS-6801</td>
<td>— VGFS-6805 Double 2.750 QL-LF</td>
<td>Single</td>
<td>2.750 QL-LF</td>
</tr>
<tr>
<td>— VGFS-6802</td>
<td>— VGFS-6806 Double 2.750 VL-UJ</td>
<td>Single</td>
<td>2.750 VL-CF</td>
</tr>
<tr>
<td>— VGFS-6803</td>
<td>— VGFS-6807 Double 2.750 VL-LF</td>
<td>Single</td>
<td>2.750 VL-LF</td>
</tr>
</tbody>
</table>

Includes Seals, O-rings and Wave Springs for 1 shaft (2 required per pump)

### Inner Seal Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>101659</td>
<td>VGFS-6720 Seal, Stationary Face</td>
<td>Carbon (C)</td>
<td>101660</td>
</tr>
<tr>
<td>101661</td>
<td>VGFS-6722 Seal, Stationary Face</td>
<td>SC (L)</td>
<td>101662</td>
</tr>
<tr>
<td>101663</td>
<td>VGFS-6724 O-Ring, Stationary Face</td>
<td>EPR (Q)</td>
<td>101664</td>
</tr>
<tr>
<td>101665</td>
<td>VGFS-6726 O-Ring, Stationary Face</td>
<td>Viton® (V)</td>
<td>101666</td>
</tr>
</tbody>
</table>

### Outer Seal Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>101681</td>
<td>VGFS-6730 Seal, Stationary Face</td>
<td>Carbon (C)</td>
<td>101682</td>
</tr>
<tr>
<td>101683</td>
<td>VGFS-6731 Spring, Wave</td>
<td>SS (F)</td>
<td>101684</td>
</tr>
<tr>
<td>101685</td>
<td>VGFS-6732 O-Ring, Stationary Face</td>
<td>EPR (Q)</td>
<td>101686</td>
</tr>
<tr>
<td>101687</td>
<td>VGFS-6733 O-Ring, Stationary Face</td>
<td>Buna (B)</td>
<td>101688</td>
</tr>
<tr>
<td>101689</td>
<td>VGFS-6735 O-Ring, Stationary Face</td>
<td>Viton® (V)</td>
<td>101690</td>
</tr>
</tbody>
</table>

### Seat Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>E70133</td>
<td>VGFS-6840 O-Ring, Rotary Face</td>
<td>EPR (Q)</td>
<td>101676</td>
</tr>
<tr>
<td>N70133</td>
<td>VGFS-6841 O-Ring, Rotary Face</td>
<td>Buna (B)</td>
<td>101677</td>
</tr>
<tr>
<td>V70133</td>
<td>VGFS-6842 O-Ring, Rotary Face</td>
<td>Viton® (V)</td>
<td>101678</td>
</tr>
</tbody>
</table>

Contact U.S. Seal Mfg. for Equipment Manufacturers, Part Numbers or Materials Not Listed.

See Contents Page for information on Material Code.
### U2 210, 320, 324

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>—</td>
<td>VGFS-6900</td>
<td>Single</td>
<td>3.000</td>
<td>QL-CF</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6901</td>
<td>Single</td>
<td>3.000</td>
<td>QL-LF</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6902</td>
<td>Single</td>
<td>3.000</td>
<td>VL-CF</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-6903</td>
<td>Single</td>
<td>3.000</td>
<td>VL-LF</td>
</tr>
</tbody>
</table>

Includes Seals, O-rings and Wave Springs for 1 shaft (2 required per pump).

### Inner Seal Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>105419 VGFS-6923</td>
<td>Spring, Wave</td>
<td>SS (F)</td>
<td></td>
</tr>
<tr>
<td>E70154 VGFS-6924</td>
<td>O-Ring, Stationary Face</td>
<td>EPR (Q)</td>
<td></td>
</tr>
<tr>
<td>N70154 VGFS-6925</td>
<td>O-Ring, Stationary Face</td>
<td>Buna (B)</td>
<td></td>
</tr>
<tr>
<td>V70154 VGFS-6926</td>
<td>O-Ring, Stationary Face</td>
<td>Viton® (V)</td>
<td></td>
</tr>
</tbody>
</table>

### Outer Seal Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>105418 VGFS-6930</td>
<td>Seal, Stationary Face</td>
<td>Carbon (C)</td>
<td></td>
</tr>
<tr>
<td>105420 VGFS-6931</td>
<td>Spring, Wave</td>
<td>SS (F)</td>
<td></td>
</tr>
<tr>
<td>E70160 VGFS-6932</td>
<td>O-Ring, Stationary Face</td>
<td>EPR (Q)</td>
<td></td>
</tr>
<tr>
<td>N70160 VGFS-6933</td>
<td>O-Ring, Stationary Face</td>
<td>Buna (B)</td>
<td></td>
</tr>
<tr>
<td>V70160 VGFS-6934</td>
<td>O-Ring, Stationary Face</td>
<td>Viton® (V)</td>
<td></td>
</tr>
</tbody>
</table>

### Seat Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>E70149 VGFS-6940</td>
<td>O-Ring, Rotary Face</td>
<td>EPR (Q)</td>
<td></td>
</tr>
<tr>
<td>N70149 VGFS-6941</td>
<td>O-Ring, Rotary Face</td>
<td>Buna (B)</td>
<td></td>
</tr>
<tr>
<td>V70149 VGFS-6942</td>
<td>O-Ring, Rotary Face</td>
<td>Viton® (V)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>105416 VGFS-6943</td>
<td>Seal, Rotary Face</td>
<td>Ceramic (J)</td>
<td></td>
</tr>
<tr>
<td>105417 VGFS-6944</td>
<td>Seal, Rotary Face</td>
<td>SC (L)</td>
<td></td>
</tr>
</tbody>
</table>

### 200 Series Seal Kits

<table>
<thead>
<tr>
<th>Mfg. Part No.</th>
<th>Value Guard Part No.</th>
<th>Seal Type</th>
<th>Shaft Dia.</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>—</td>
<td>VGFS-7000</td>
<td>Single</td>
<td>1.750</td>
<td>VC-L</td>
</tr>
<tr>
<td>—</td>
<td>VGFS-7001</td>
<td>Single</td>
<td>1.750</td>
<td>VL-Z</td>
</tr>
</tbody>
</table>

Kits include rotary face, O-rings, and oversized cup seal.

### 200 Series Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9-37 VGFS-7002</td>
<td>Cup, oversized</td>
<td>Viton® (V)</td>
<td></td>
</tr>
<tr>
<td>9-225A VGFS-7003</td>
<td>Rotary Face</td>
<td>Carbon (C)</td>
<td></td>
</tr>
<tr>
<td>9-225C VGFS-7004</td>
<td>Rotary Face</td>
<td>SC (L)</td>
<td></td>
</tr>
<tr>
<td>9-225F VGFS-7005</td>
<td>Rotary Face</td>
<td>TC (Z)</td>
<td></td>
</tr>
<tr>
<td>23-17 VGFS-7007</td>
<td>Seat, oversized cup</td>
<td>V + L</td>
<td></td>
</tr>
<tr>
<td>23-77 VGFS-7008</td>
<td>Spring Retainer</td>
<td>SS (F)</td>
<td></td>
</tr>
<tr>
<td>23-79 VGFS-7009</td>
<td>Retainer, Seal</td>
<td>SS (F)</td>
<td></td>
</tr>
<tr>
<td>24-65 VGFS-7010</td>
<td>Spring, Coil</td>
<td>SS (F)</td>
<td></td>
</tr>
<tr>
<td>24-65Z VGFS-7011</td>
<td>Spring, Wave</td>
<td>SS (F)</td>
<td></td>
</tr>
<tr>
<td>43-87 VGFS-7012</td>
<td>Washer, Tabbed</td>
<td>SS (F)</td>
<td></td>
</tr>
</tbody>
</table>

### Type 1 Seal Kits

Includes Seals, O-rings, and Impeller o-rings. Type 1 Basic Kit includes casing o-ring, impeller o-ring, rotary face, and stationary o-ring. Type 1 Complete Kit includes casing o-ring, impeller o-ring, L-gasket, rotary face, and stationary o-ring.

### Type 4 Seal Kits

Includes Seals, O-rings, and Impeller o-rings. Type 4 Basic Kit includes casing o-ring, impeller o-ring, rotary face, and stationary o-ring. Type 4 Complete Kit includes casing o-ring, impeller o-ring, L-gaskets, rotary face, seal housing o-rings, stationary faces and stationary o-rings.

Contact U.S. Seal Mfg. for Equipment Manufacturers, Part Numbers or Materials Not Listed.