Vane Type Double Pump

(F3) - 4525V(M) - **A(M)** *(F) - ** - 22 - *
<table>
<thead>
<tr>
<th>Model</th>
<th>Rotor</th>
<th>Vane kit</th>
<th>Ring</th>
<th>Inlet Plate</th>
<th>Cover End Cart. Kit</th>
<th>Cover End F3 Cart. Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>4525V***12</td>
<td>584618</td>
<td>02 – 136719</td>
<td>584610</td>
<td>588689</td>
<td>02 – 102536</td>
<td>02 – 102544</td>
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<td>02 – 102545</td>
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<td>4525V***17</td>
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<td>02 – 102538</td>
<td>02 – 102546</td>
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<td>4525V***21</td>
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<td>02 – 102539</td>
<td>02 – 102547</td>
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</tbody>
</table>

- Included in shaft end cartridge kit
- Included in cover end cartridge kit
- Included in seal kit 922865
- Included in seal kit 919345
- Assemble seal with spring loaded sealing member towards bearing. Seals to be completely wetted with oil prior to assembly.
- Install 419675 sealing ring into body, then install cartridge kit.
<table>
<thead>
<tr>
<th>MODEL</th>
<th>COVER</th>
<th>HOUSING</th>
<th>BODY S/A</th>
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<tbody>
<tr>
<td>4525V42</td>
<td>581679</td>
<td>02-102572</td>
<td>02-102576</td>
<td>4525V50</td>
<td>581680</td>
<td>02-102574</td>
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<td>4525V60</td>
<td>578904</td>
<td>02-102575</td>
<td>02-102578</td>
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</tbody>
</table>

**NOTE**
For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO cleanliness code 16/13 or cleaner. OFP, OFR, and OFRS series filters are recommended.
Model Code

(F3) - 4525V (M) - ** A (M) ** (F) - * * - 22 - *

1 Special seals

2 Series designation
Displacements cm³/r (in³/r)

<table>
<thead>
<tr>
<th>Model</th>
<th>Shaft end</th>
<th>Cover end</th>
</tr>
</thead>
<tbody>
<tr>
<td>4525V</td>
<td>138 – 193</td>
<td>40 – 67</td>
</tr>
<tr>
<td></td>
<td>(8.41 – 11.75)</td>
<td>(2.47 – 4.13)</td>
</tr>
</tbody>
</table>

3 Pilot designation
M — Metric per ISO 3019/2 100A2HW
Omit — Standard pilot

4 Geometric displacement
Shaft end pump
(Rated capacity (USgpm) at 1200 rpm, 6.9 bar (100 psi))

<table>
<thead>
<tr>
<th>Frame size</th>
<th>Code</th>
<th>cm³/r</th>
<th>in³/r</th>
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<tr>
<td>4525V</td>
<td>42</td>
<td>138</td>
<td>8.41</td>
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<tr>
<td></td>
<td>50</td>
<td>162</td>
<td>9.85</td>
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<tr>
<td></td>
<td>60</td>
<td>193</td>
<td>11.75</td>
</tr>
</tbody>
</table>

5 Port connections
A — SAE 4 bolt flange

6 Port connection modifier
M — Metric port connection (4 bolt flange)
Omit — Inch thread port connection (4 bolt flange)

7 Geometric displacement
Cover end pump
(Rated capacity (USgpm) at 1200 rpm, 6.9 bar (100 psi))

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<td>45</td>
<td>2.78</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>55</td>
<td>3.39</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>67</td>
<td>4.13</td>
</tr>
</tbody>
</table>

8 Mounting
F — Foot mounting
Omit — Flange mounting

9 Shaft
1 — Straight keyed
11 — Splined
86 — Heavy duty straight keyed
192N — Straight keyed (M pilot only)

10 Port orientation
(Viewed from cover end of pump)
With no. 1 outlet opposite inlet
AA — No. 2 outlet 35° CCW from inlet
AB — No. 2 outlet 45° CCW from inlet
AC — No. 2 outlet 45° CW from inlet
AD — No. 2 outlet 135° CW from inlet
With no. 1 outlet 90° CCW from inlet
BA — No. 2 outlet 135° CCW from inlet
BB — No. 2 outlet 45° CCW from inlet
BC — No. 2 outlet 45° CW from inlet
BD — No. 2 outlet 135° CW from inlet

11 Design
(Viewed from shaft end of pump)
L — Left hand for counterclockwise
R — Right hand for clockwise

12 Rotation
When ordering spare cartridge parts, it is recommended they be obtained in cartridge kits. Kits are assembled and tested for either right or left hand rotation. If left hand rotation is required, it should be specified on parts order by adding suffix “L” to cartridge kit number.

NOTE
To reverse cartridge kit rotation, remove the two screws and reverse the location of the inlet support plate and the outlet support plate. Reinstate the two screws hand tight. Use pump cover to align all sections of the cartridge. Carefully remove the cover and tighten the screws.

NOTE
Standard right hand shaft rotation cartridges shown. Reverse for left hand rotation.