Low Noise Industrial Piston Pump

PVQ 40-B2/M2 * *** - ** * * - 10 C** *** *** * - 10/11/12/20
PVQ 45-B2/M2 * *** - ** * * - 10 C** *** *** * - 10/11/12/20
C. CM Compensator shown for R. H. rotation. Rotate 180° for L. H. shaft rotation.

* CAUTION
Position gasket with small end of teardrop hole pointing in direction of compensator adjusting plug.

<table>
<thead>
<tr>
<th>Type</th>
<th>Comp. kit</th>
<th>Body</th>
<th>Spool</th>
<th>Spring</th>
<th>Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>02–142732</td>
<td>241568</td>
<td>241717</td>
<td>239371</td>
<td>360430</td>
</tr>
<tr>
<td>CG</td>
<td>942480</td>
<td>412890</td>
<td>296234</td>
<td>239371</td>
<td>412940</td>
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<td>CM</td>
<td>02–142731</td>
<td>241568</td>
<td>241717</td>
<td>265693</td>
<td>360430</td>
</tr>
</tbody>
</table>

Refer to opposite side for common parts, except as noted.
CVP Compensator shown for R. H. rotation. Rotate 180° for L. H. shaft rotation. See table for compensator kit part number.

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.
**CAUTION**

Model PVQ45C compensator pressure adjustment shall not exceed 2750 psi.

<table>
<thead>
<tr>
<th>Model</th>
<th>Comp. kit</th>
<th>Comp. Spring</th>
<th>Load Sense Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVQ**C</td>
<td>942158</td>
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<tr>
<td>PVQ**CM</td>
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<tr>
<td>PVQ**CG</td>
<td>942480</td>
<td>239371</td>
<td></td>
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<tr>
<td>PVQ<strong>C</strong>V(C)1B</td>
<td>02–142729</td>
<td>239371</td>
<td>581073</td>
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<td>PVQ<strong>C</strong>V(C)1P</td>
<td>02–142728</td>
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<tr>
<td>PVQ<strong>C</strong>V(C)24B</td>
<td>02–142730</td>
<td>239371</td>
<td>581072</td>
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<td>PVQ<strong>C</strong>V(C)24P</td>
<td>02–142727</td>
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<td>581072</td>
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<tr>
<td>PVQ**CD****</td>
<td>(Refer to service parts information I–3255–S)</td>
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</tbody>
</table>

**NOTE**

See model code for pressure range settings of individual compensator kits.

### Thru–Drive Shafts

<table>
<thead>
<tr>
<th>Model</th>
<th>Shaft</th>
<th>Input Type</th>
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<tbody>
<tr>
<td>PVQ**A9</td>
<td>883098</td>
<td>2 Str. Keyed SAE B–B</td>
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<tr>
<td>PVQ**B26</td>
<td>586131</td>
<td>4 Splined SAE B–B</td>
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<tr>
<td></td>
<td>771131</td>
<td>2 Str. Keyed SAE B–B</td>
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<tr>
<td></td>
<td>423416</td>
<td>4 Splined SAE B–B</td>
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</table>

### Thru–Drive Couplings

<table>
<thead>
<tr>
<th>Thru–Drive Model Code</th>
<th>Coupling</th>
<th>O–Ring</th>
<th>Model Code</th>
<th>Rear Pump</th>
<th>Rear Pump Shaft Type</th>
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</thead>
<tbody>
<tr>
<td>PVQ**A9</td>
<td>864224</td>
<td>351776</td>
<td>PVQ10</td>
<td>3</td>
<td>11</td>
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<td>864224</td>
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<td>V10</td>
<td>11</td>
<td>62</td>
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<td></td>
<td>864224</td>
<td>351776</td>
<td>V20</td>
<td>28</td>
<td>62</td>
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<td>PVE12</td>
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<td>PVQ40/45</td>
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<td>PVQ20/32</td>
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<td>62</td>
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<td>864224</td>
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<td>475134</td>
<td>2520V</td>
<td>166</td>
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</tbody>
</table>

Rear pump, couplings, O–rings, capscrews and washers must be ordered separately to mount rear pump.
Model Code

PVQ 4x - *** * *** - *** * - 10 C *** *** * - **

1 2 3 4 5 6 7 8 9 10 11 12

1 ** PVQ Series
   P – Inline piston pump
   V – Variable volume
   Q – Quiet series

2 ** Displacement
   (CC/Rev & Pressure ratings)
   40 – 40 CC/Rev (2.50 CIR)
   210 bar (3000 psi)
   45 – 45 CC/Rev (2.75 CIR)
   190 bar (2700 psi)

3 ** Mounting flange
   B2 – SAE “B” 2–bolt
   MB – ISO 3019/2 “B” 2–bolt (available with “N” drive shaft only)

4 ** Rotation
   (viewed from shaft end)
   R – Right hand (CW) (standard)
   L – Left hand (CCW) (optional)

5 ** Thru drive
   (without coupling) Available with side ports only.
   Blank – No thru drive
   A9 – SAE “A” 2–bolt with 9T shaft
   A11 – SAE “A” 2–bolt with 11T shaft
   B13 – SAE “B” 2–bolt with 13T shaft
   B26 – SAE “B” 2–bolt with 26T shaft
   (Available only with #4 main input shaft)

6 ** Ports
   (type and location)
   SE – Inch O–Ring boss rear port
   SS – Inch O–Ring boss side port
   FS – Flange side port (SAE “A” thru-drive only)

7 ** Shafts
   (input)
   1 – Straight keyed SAE “B” (not on thru drives)
   2 – Straight keyed SAE “B–B”
   3 – Splined SAE “B” modified 13T, 16/32 DP flat root side fit (not on thru drives)
   4 – Splined SAE “B–B” modified 15T, 16/32 DP flat root side fit
   N – ISO 3019/2 short straight keyed (available with “MB” mounting only)
   Not available on thru–drives.
   28 – 26 tooth splined shaft (Vickers)
   Used to mount PVQ40/45 on PVQ40/45 thru–drive pump

8 ** Seals
   S – Buna N (standard)
   F – Fluorocarbon (optional)

9 ** Pump design number
   10 – First design

10 ** Control type
   C** – Pressure compensator, PVQ40: Std. model is C21, indicating factory setting of 210 bar (3000 psi). Range is 02–21 in tens of bar (350–3000 psi)
   PVQ45: Std. model is C19, indicating factory setting of 190 bar (2750 psi). Range is 02–19 in tens of bar (350–2750 psi)
   CM** – Low pressure compensator. Std. model is CM7, indicating factory setting of 70 bar (1000 psi). Range is 02–10 in tens of bar (350–1500 psi)
   C**V**B – Pressure compensator C**, as above, with load sensing. Std. load sensing setting is 11 bar (160 psi). Range 10–17 bar (150–250 psi), with bleed down orifice.
   Example: C21V11B indicates PVQ40 compensator with 210 bar pressure setting and 11 bar load sense differential.
   C**V**P – Pressure compensator with load sensing as C**V**B above, but with bleed down orifice plugged.
   C**VC**B – Pressure compensator with load sensing. Compensator same as C** above. Std. load sensing setting is 24 bar (350 psi). Range 17–31 bar (250–450 psi), with bleed down orifice.
   C**VC**P – Pressure compensator with load sensing. Same as C**VC**B above, but with bleed down orifice plugged.
   CG – Pressure compensator modified for hydraulic remote control.
   CD**** – Electric dual range compensator. PVQ40: Std. model is CD2110, indicating dual pressure settings of 210 and 100 bar, adjustment ranges are 20–210 bar (high) and 20–100 bar (low). PVQ45: Std. model is CD1910, indicating settings of 190 and 100 bar, adjustment ranges are 20–190 bar (high) and 20–100 bar (low).

11 ** Control option
   Blank – Without adjustable Max. displacement stop (standard)
   D – Max. adjustable displacement stop (optional)

12 ** Control design
   10 – For C** & CM**
   11 – For C**D & CM**D
   12 – For C**V(C)**B & C**V(C)**P
   20 – CD**** & CG