

Piston Pumps



Low Noise Industrial Piston Pump

PVQ 10-A2/MA * *** - ** * * - 10 C** *** *** * - 11/12/20
PVQ 13-A2/MA * *** - ** * * - 10 C** *** *** * - 11/12/20



CAUTION
 Model PVQ13C compensator pressure adjustment shall not exceed 2000 psi.

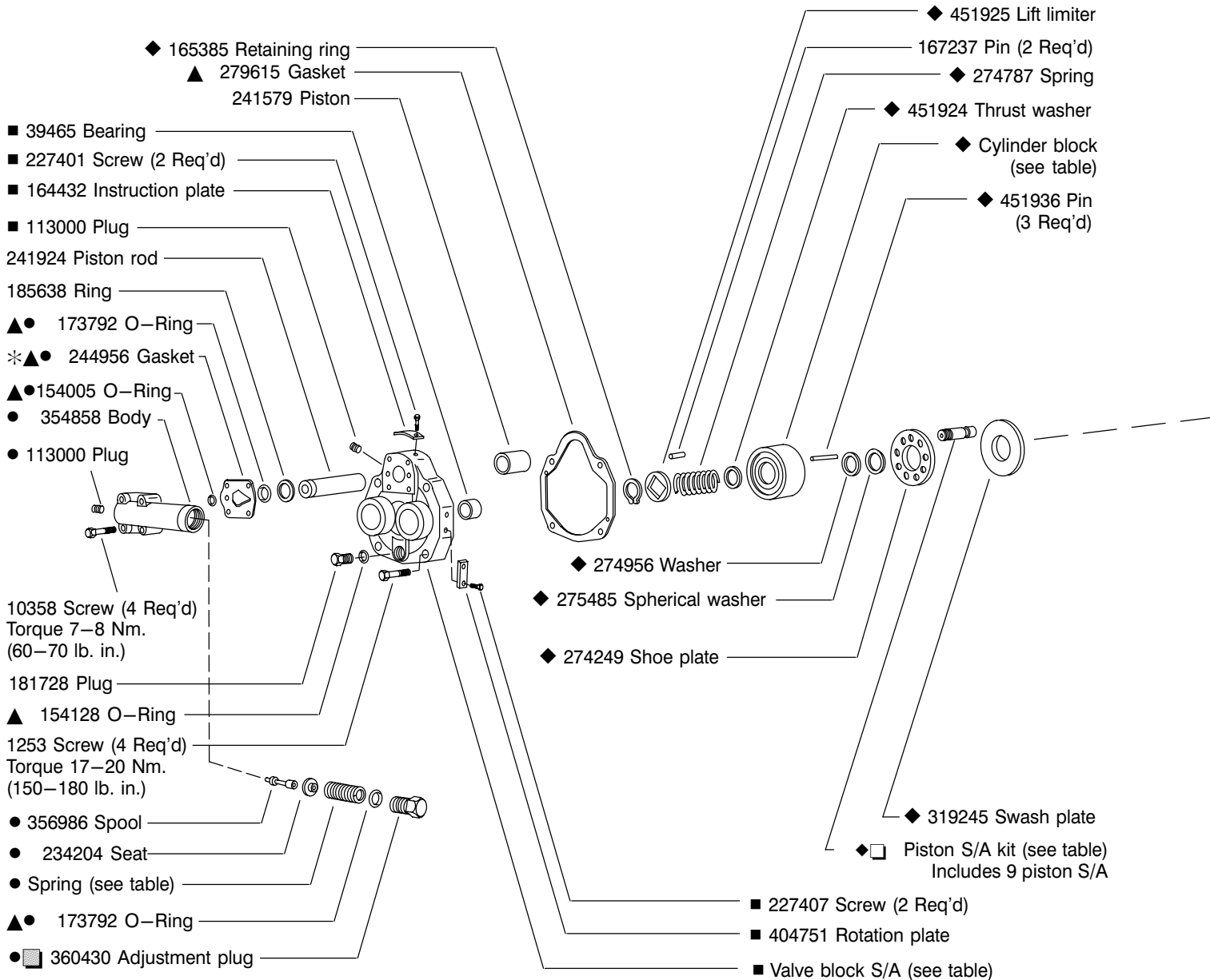
Model	●Comp. kit	●Comp. Spring	●Load Sense Spring
PVQ**C	942158	239371	—
PVQ**CM	942159	265693	—
PVQ**CG	942480	239371	—
PVQ**CMG	941353	265693	—
PVQ**C**V(C)11B	02-142729	239371	581073
PVQ**C**V(C)11P	02-142728	239371	581073
PVQ**C**V(C)24B	02-142730	239371	581072
PVQ**C**V(C)24P	02-142727	239371	581072
PVQ**CD****	(Refer to service parts information I-3255-S)		

NOTE

C, CM Compensator shown for right hand rotation. Rotate 180° for left hand shaft rotation and connect to left hand valve block S/A.

9 NOTE

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

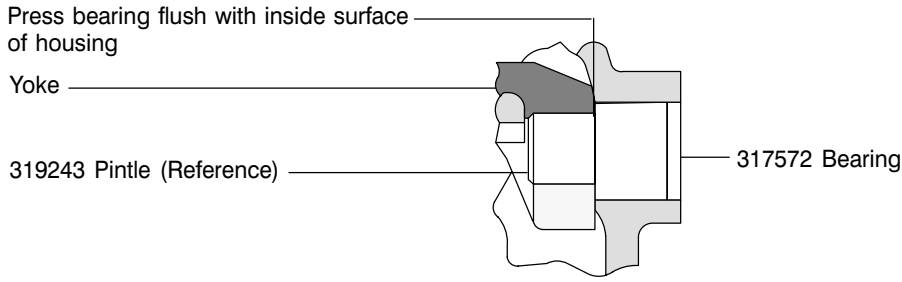


CAUTION



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

Valve block S/A	Right hand	Left hand
Rear ports	02-142930	02-142931
Side ports	02-142932	02-142933



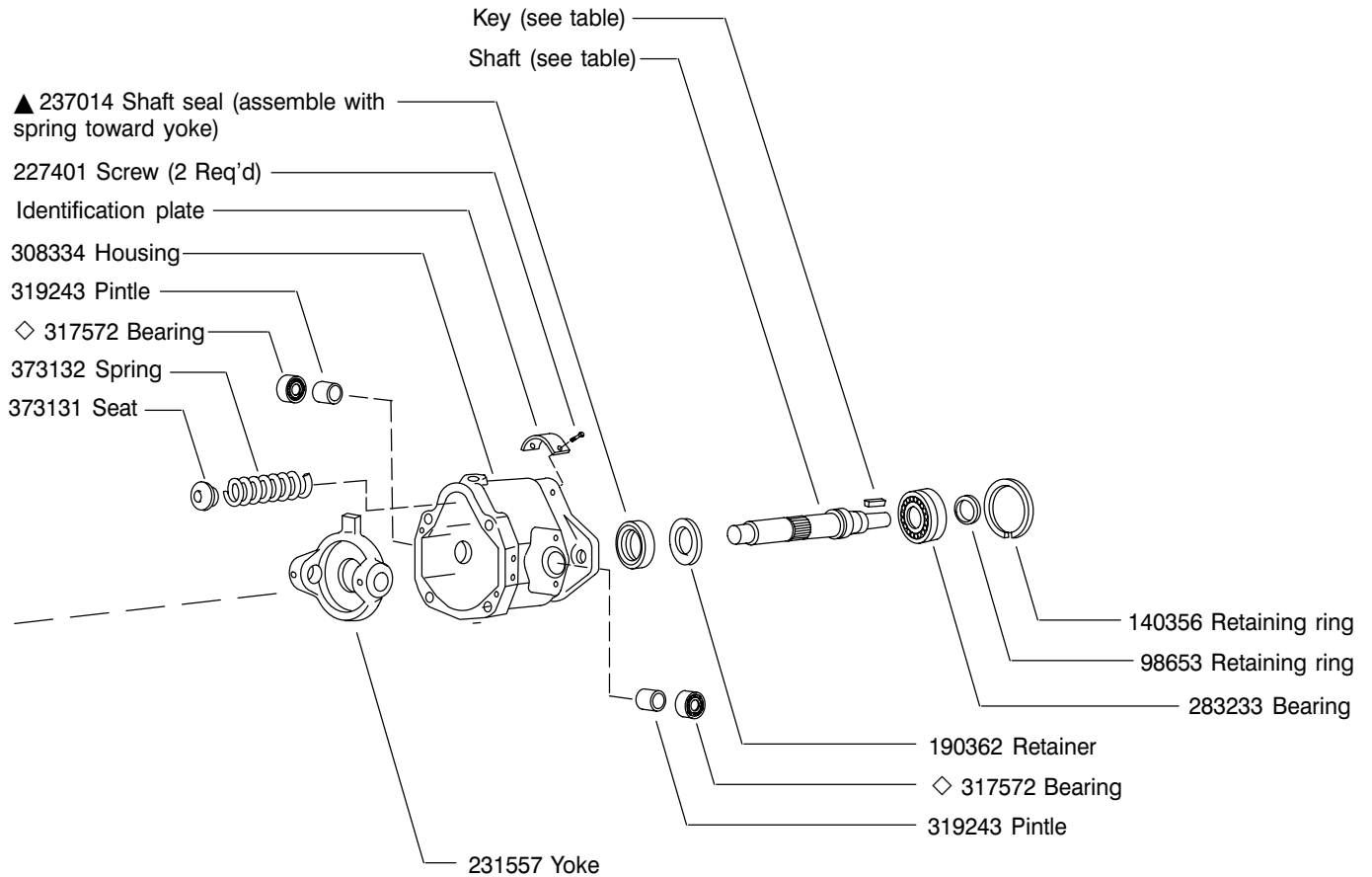
◇ **PINTLE BEARING ASSEMBLY NOTE**

The bearing O.D. surface and mating surface in the housing must be clean. Apply sealing compound (Loctite A (10-1) or equivalent) to the bearing O.D. and press in place.



CAUTION

Do not allow sealing compound to contact the bearing needles.



Model	Cylinder block	□ Piston S/A kit	◆ Rotating group kit
PVQ10	677061	942229	875775
PVQ13	677060	942230	875773

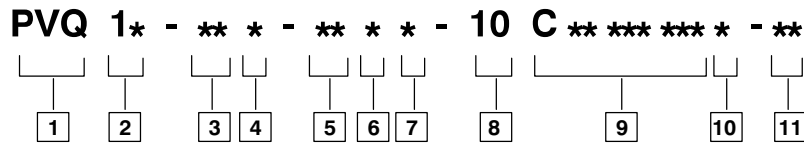
Shaft	Type	Key
266162	1	142843
286848	3	—
883030	N	472255

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.

- ▲ Standard seal kit 919191
F3 equivalent seal kit 919308
- Compensator kit (see table)
- Valve block S/A (see table)
- ◆ Rotating group kit (see table)
- Piston S/A kit (see table)

Model Code



1 PVQ Series

P – Inline piston pump
V – Variable volume
Q – Quiet series

2 Displacement

(CC/Rev & Pressure ratings)

10 – 10 CC/Rev (.64 CIR)
 210 bar (3000 psi)
13 – 13 CC/Rev (.84 CIR)
 140 bar (2000 psi)

3 Mounting flange

A2 – SAE “A” 2–bolt
MA – ISO 3019/2 “A” 2–bolt (available with “N” driveshaft only)

4 Rotation

(viewed from shaft end)

R – Right hand (CW), (standard)
L – Left hand (CCW), (optional)

5 Ports

(type and location)

SE – O-ring boss rear port,
 1.0625 inch (Inlet & Outlet) (standard)
SS – O-ring boss side port, 1.3125
 inch (Inlet & Outlet) (optional)

6 Shafts

(input)

1 – Straight keyed SAE “A” modified
 .75 inch Dia. x 1.75 inch long
3 – Splined SAE “A” modified 9T, 16/32
 DP major Dia. fit
N – ISO 3019/2 short straight keyed
 (available with “MA” mounting only)

7 Seals

S – Buna N (standard)
F – Fluorocarbon, (optional)

8 Pump design number

10 – First design

9 Control type

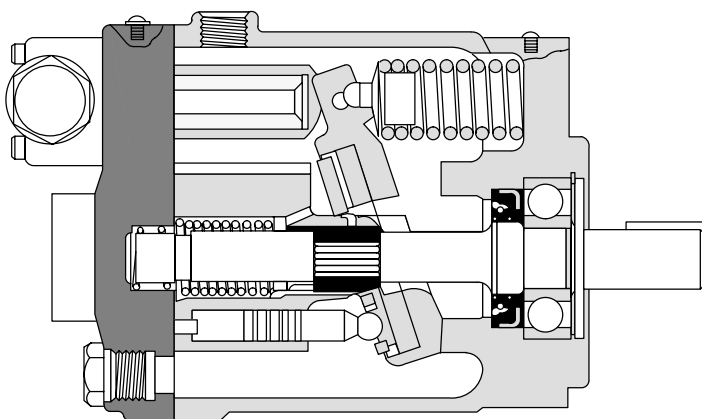
C** – Pressure compensator, PVQ10: Std.
 model is C21, indicating factory setting of
 210 bar (3000 psi). Range is 02–21 in tens
 of bar (350–3000 psi)
 PVQ13: Std. model is C14, indicating factory
 setting of 140 bar (2000 psi). Range is
 02–14 in tens of bar (350–2000 psi)
CM** – Low pressure compensator, Std.
 model is CM7, indicating factory setting of
 70 bar (1000 psi). Range is 02–10 in tens of
 bar (350–1500 psi)
CV**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 PVQ10 compen-
 sator with 210 bar pressure setting and
 11 bar load sense differential.
CV**P** – Pressure compensator with
 load sensing as C**V**B above, but with
 bleed down orifice plugged.
CVC**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
CVC**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.
 PVQ10: 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). PVQ13: Std. model
 is CD1407, indicating settings of 140 and 70
 bar, adjustment ranges are 20–140 bar
 (high) and 20–100 bar (low).

10 Control option

Blank – Without adjustable Max. displace-
 ment stop (standard)
D – Max. adjustable displacement stop
 (optional)

11 Control design

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



Typical Sectional View