



Low Noise Industrial Piston Pump

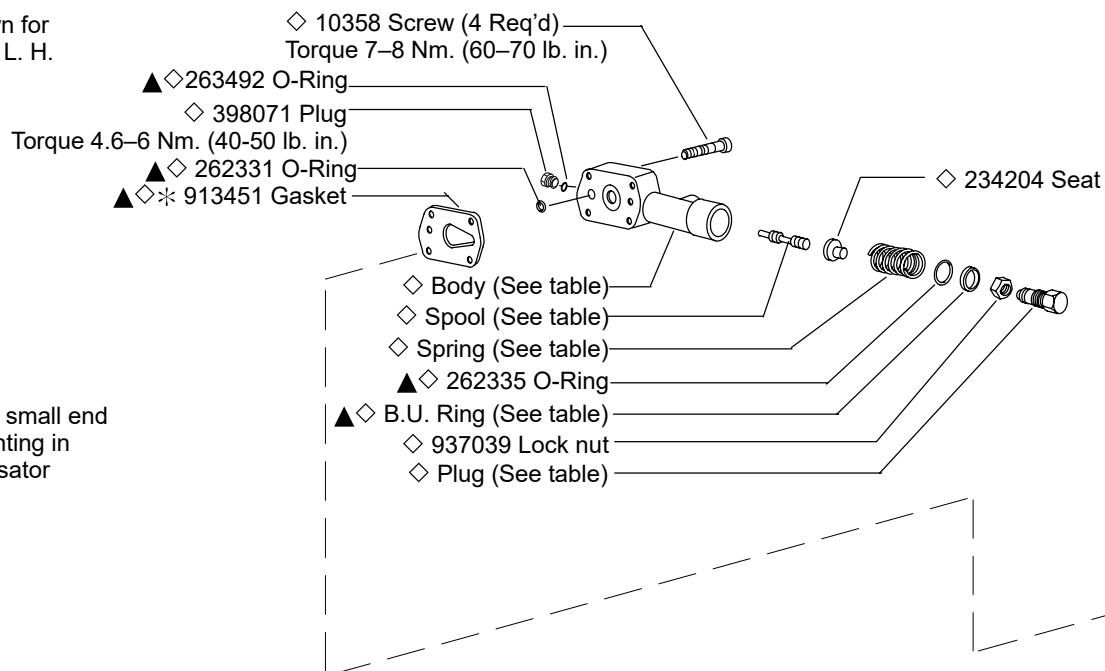
PVQ 40-B2 * *** - ** * * - 20 C** *** *** * - 12/13/21/30

PVQ 45-B2 * *** - ** * * - 20 C** *** *** * - 12/13/21/30

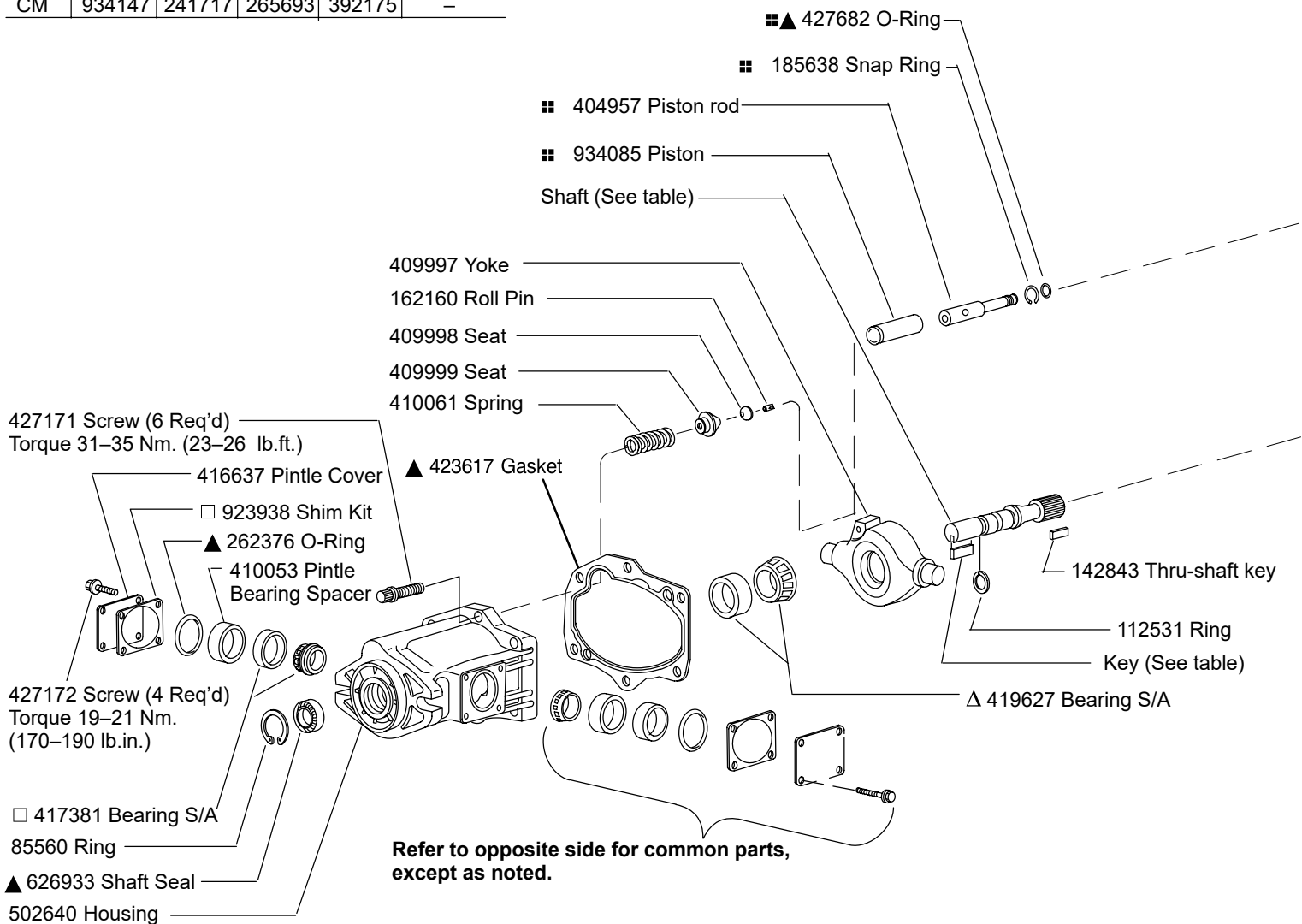
C, CM** Compensator** shown for
R. H. rotation. Rotate 180° for L. H.
shaft rotation.



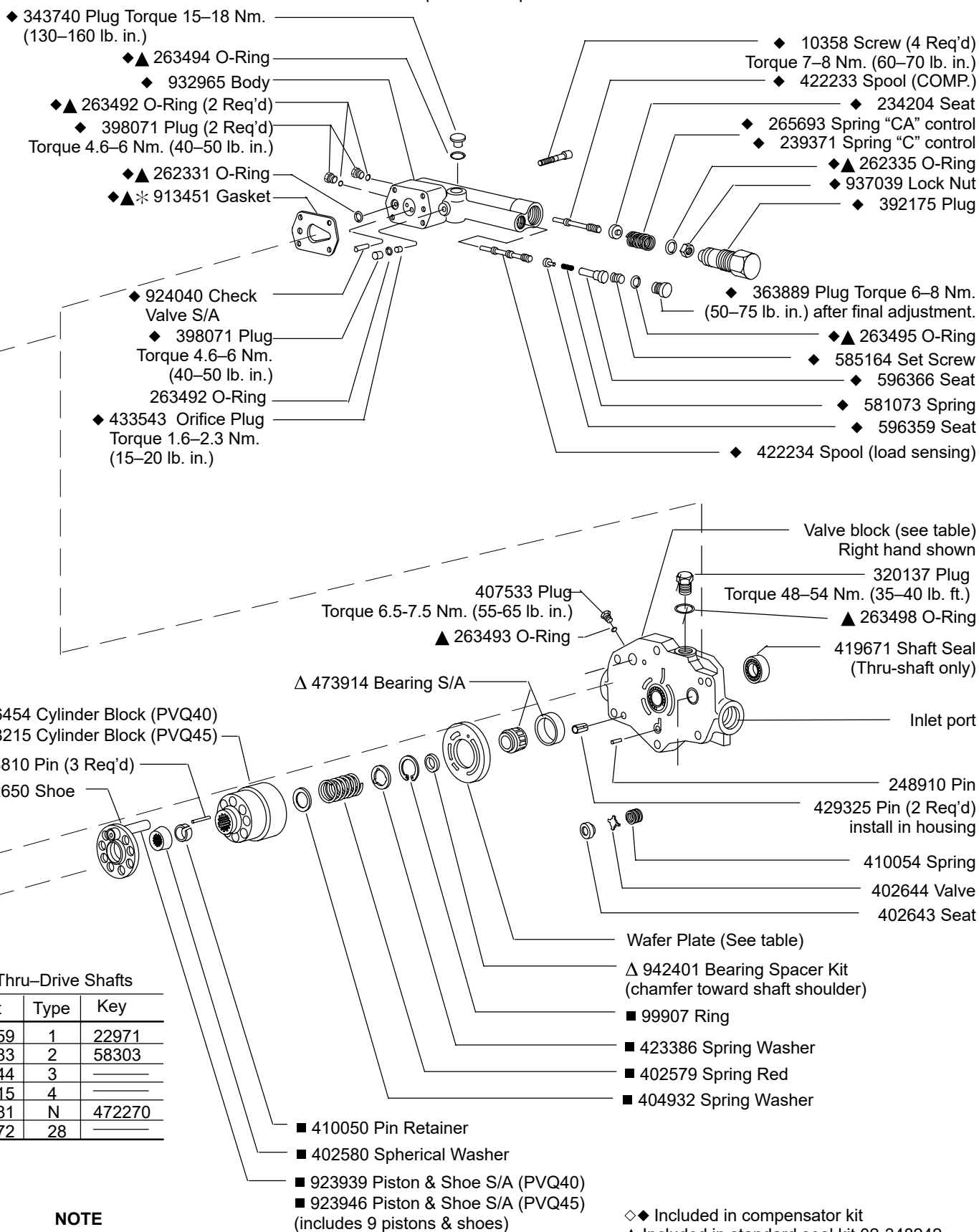
*** CAUTION**
Position gasket with small end
of teardrop hole pointing in
direction of compensator
adjusting plug.



Type	Body	Spool	Spring	Plug	B.U. Ring
C	934147	241717	239371	392175	–
CG	932966	296234	239371	944255	997049
CM	934147	241717	265693	392175	–



CV(C)**B Compensator** shown for R. H. rotation. Rotate 180° for L. H. shaft rotation.
See table for compensator kit part number.





CAUTION

Model PVQ45C compensator pressure adjustment shall not exceed 2750 psi.

NOTE

See model code **10** for pressure range settings of individual compensator kits.

Model	Comp. Kit	Comp. Spring	Load Sense Spring
PVQ40-C21-12	02-348260	239371	—
PVQ45-C19-12	02-348261		
PVQ**-CM7-12	02-348259	265693	
PVQ**-CG-30	02-348262	239371	
PVQ40-C21V11B-13	02-348193		581073
PVQ40-C21VC24B-13	02-348250		581072
PVQ40-C21V11P-13	02-348247		581073
PVQ40-C21VC24P-13	02-348248		581072
PVQ45-C19V11B-13	02-348251		581073
PVQ45-C19VC24B-13	02-348249		581072
PVQ45-C19V11P-13	02-348252		581073
PVQ45-C19VC24P-13	02-348253		581072
PVQ**CD****	(Refer to service parts information I-3255-S)		

Model	Shaft end rotation	Wafer plate	Valve block	Thru-drive valve block	O-Ring
PVQ45*R*SS	Right hand (CW)	629539	933002	—	—
PVQ40*R*SS					
PVQ45*R*SE					
PVQ40*R*SE					
PVQ45*L*SS	Left hand (CCW)	631476	933016		
PVQ40*L*SS					
PVQ45*L*SE					
PVQ40*L*SE					
PVQ4**RAFS	Right hand (CW)	629539	—	937476	351776
PVQ4**RBSS				627149	375422
PVQ4**LAFS	Left hand (CCW)	631476		933000	351776
PVQ4**LBSS				933021	375422

Thru-Drive Shafts

5 Model	Shaft	7 Input Type
PVQ**A9	883098	2 Str. Keyed SAE B-B
	586131	4 Splined SAE B-B
PVQ**B26	677131	2 Str. Keyed SAE B-B
	423416	4 Splined SAE B-B

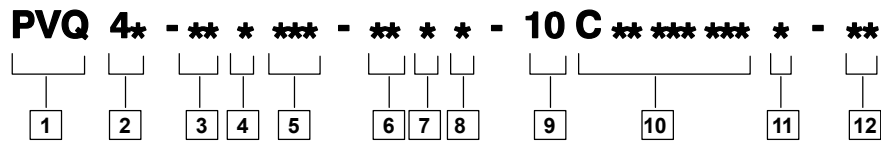
Thru-Drive Couplings

Thru-Drive Model Code	Coupling	O-Ring	Model Code Rear Pump	Rear Pump Shaft Type
PVQ**A9	864224	351776	PVQ10	3
			V10	11
			V20	62
PVQ**B26	627168	375422	PVE12	28
			PVQ40/45	28
			PVQ20/32	28
			2520V	166

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

Thru-Drive Couplings	Type	Description
864224	A	"A" 9 tooth spline
627168	B	26 tooth
475134	B	Step coupling 26 to 15 tooth "B-B" spline

Model Code



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 (standard)

SS – Inch O-Ring boss side port (optional)

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)

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 PVQ40 compensator 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. 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

12 – C**, C**D, CM** & CM**D

13 – C**V(C)**B & C**V(C)**P

21 – CD**** & UV

30 – CG

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