Vickers®

Service Data

Piston Pumps

Variable Displacement Piston Pumps with Pressure Compensator

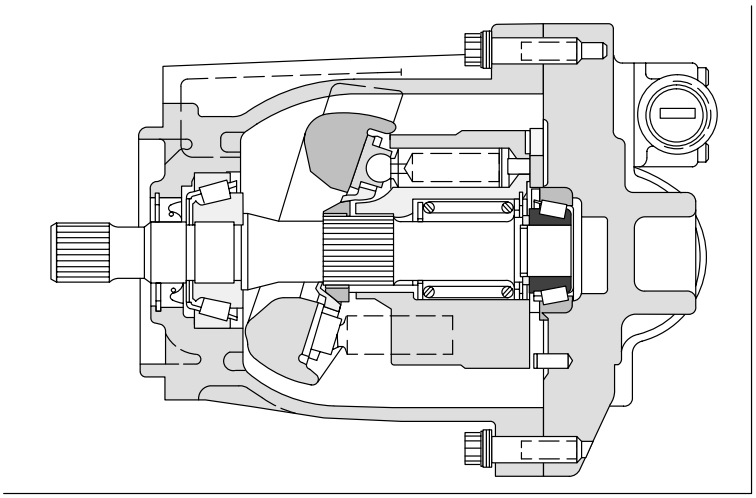
PVE19/21--*-20-C***-1***
PVE19/21--*-30-C***-1***

Revised 07/01/97

M-2841-S

C, CG & CV Compensator

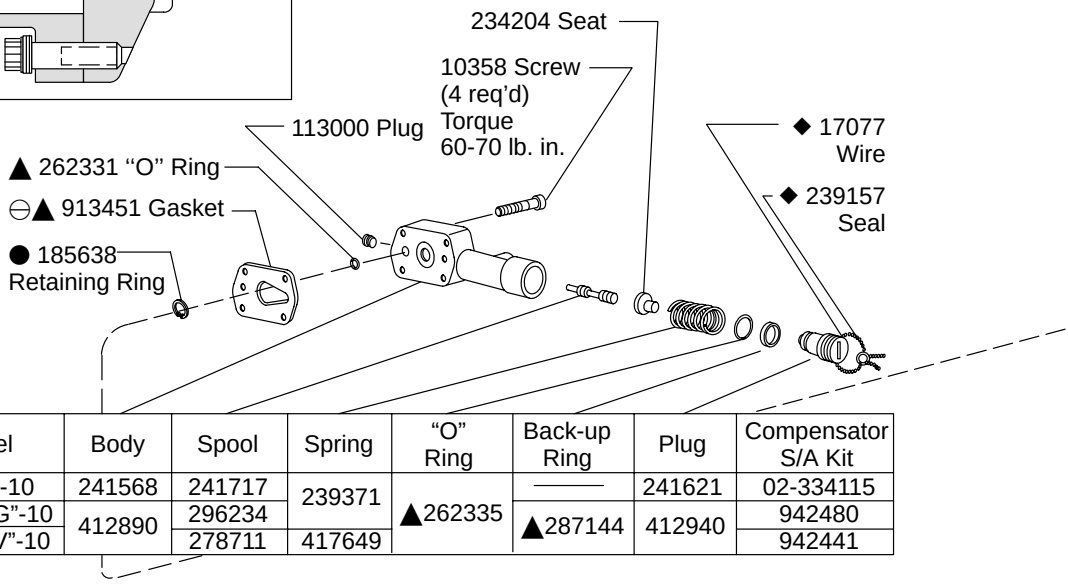
(Shown for right hand shaft rotation.
Rotate 180° for left hand shaft rotation.)



NOTE

The "CVP" compensator may be ordered as a complete factory tested part by ordering part number shown in table below.

Included in	
▲ Seal Kit Piston Pump	923989
Bearing Spacer Kit	942401
Shim Kit	923938

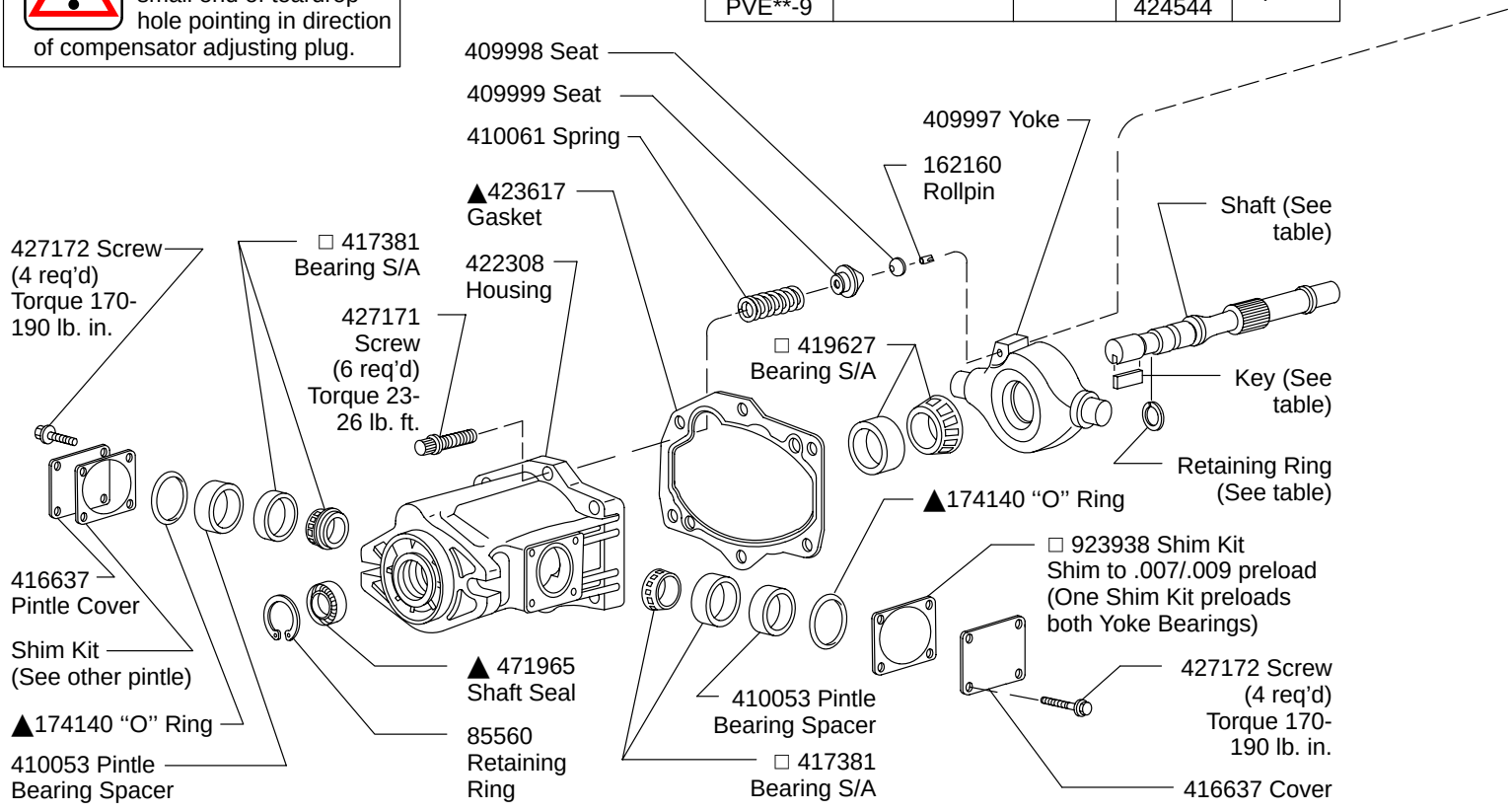


Model	Body	Spool	Spring	"O" Ring	Back-up Ring	Plug	Compensator S/A Kit
PVE**-"C"-10	241568	241717	239371	▲262335	———	241621	02-334115
PVE**-"CG"-10	412890	296234			▲287144	412940	942480
PVE**-"CV"-10		278711	417649				942441

■ Included in Rotating Group S/A

Model	Retaining Ring	Key	Shaft	Type
PVE**-1	112531	58303	428883	Keyed
PVE**-2	———	———	423415	Splined
PVE**-9			424544	

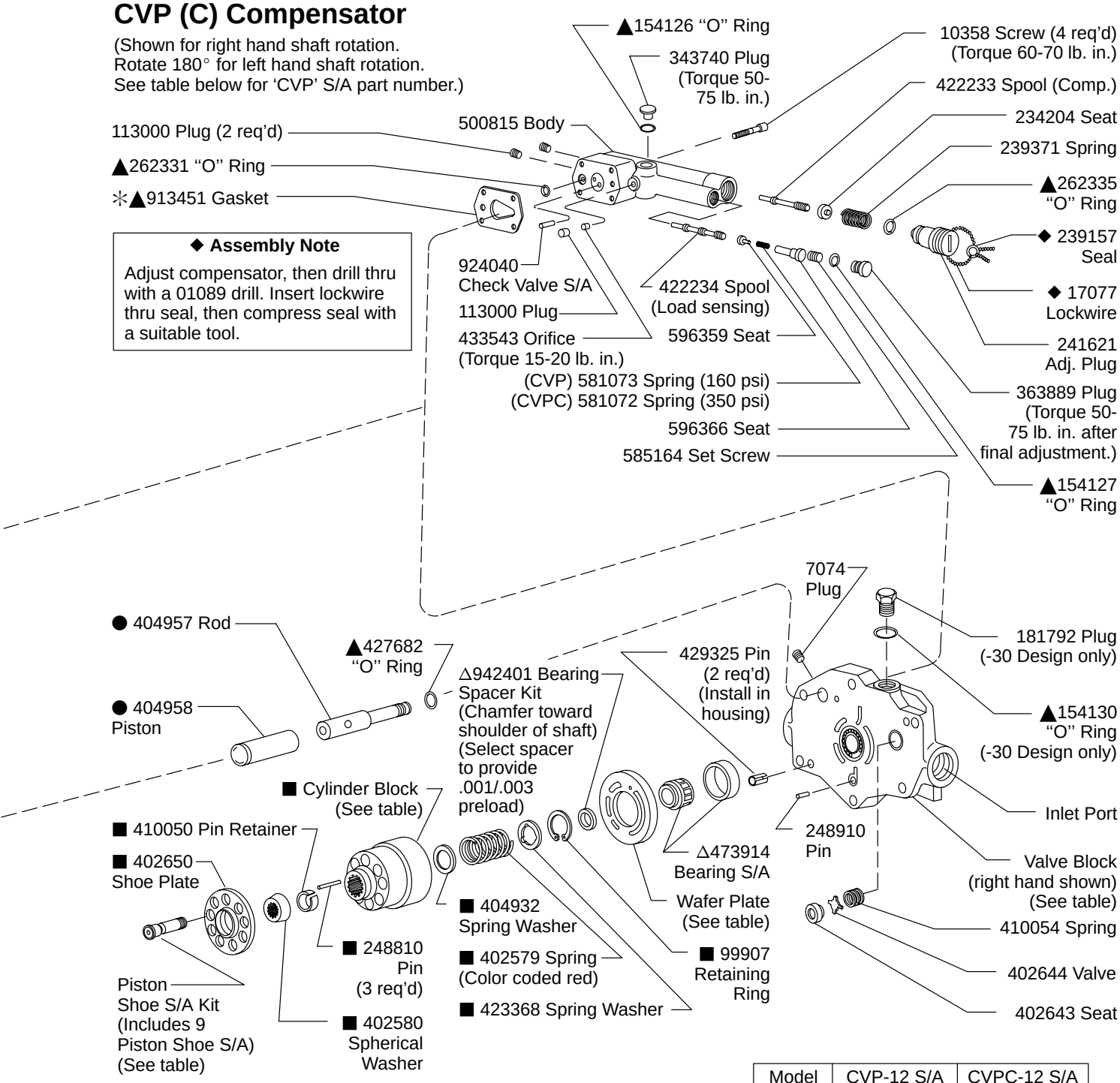
⊖ **CAUTION**
Position gasket with small end of teardrop hole pointing in direction of compensator adjusting plug.



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CVP (C) Compensator

(Shown for right hand shaft rotation.
Rotate 180° for left hand shaft rotation.
See table below for 'CVP' S/A part number.)



◆ Assembly Note

Adjust compensator, then drill thru with a 01089 drill. Insert lockwire thru seal, then compress seal with a suitable tool.

Model	CVP-12 S/A	CVPC-12 S/A
PVE19	924061	924062
PVE21	924063	924064

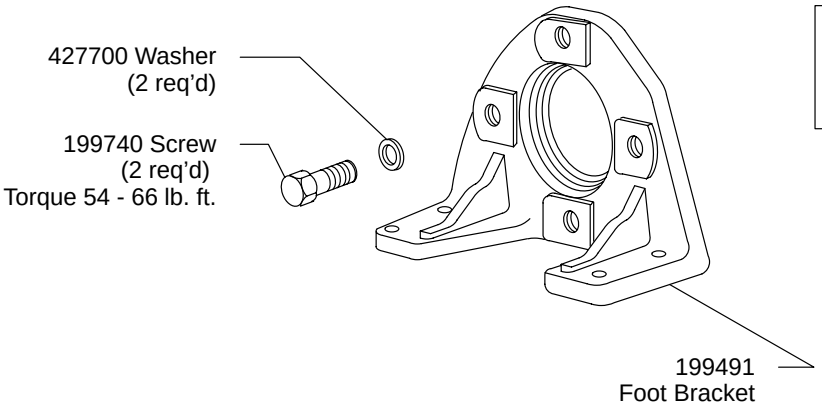
Model	Rotation Viewed from Shaft End	-20 Valve Block	-30 Valve Block	Wafer Plate	■ Cylinder Block	Piston Shoe S/A ■ Includes 9 Piston Shoe S/A	■ Rotating Group
PVE19-R	C/Wise	423337	429729	425412	426454	923939	923948
PVE19-L	CC/Wise	423329	435281	425415			
PVE21-R	C/Wise	423337	429729	425413	418215	923946	923947
PVE21-L	CC/Wise	423329	435281	425416			

● Included in 923960 Compensator Piston & Rod S/A Kit

■ Included in 923987 Yoke Bearing Kit

▲ Included in 923988 Shaft Bearing Kit

Model Code



Note

To convert flange model to foot bracket model, order FB-B-10 (Assembly 422583).

PVE ** (*) * - * - ** - C * - 1***

1 2 3 4 5 6 7

1 Model Series

PVE - Pump, variable displacement, series inline piston unit

2 Flow Rating
@ 1800 rpm

19 – 19 USgpm
21 – 21 USgpm

3 Mounting

F - Foot mounting
Omit - For flange

4 Shaft Rotation
(Viewed from shaft end)

R - Right Hand (CW)
L - Left Hand (CCW)

5 Input Shaft

1 - SAE B-B straight thread
2 - SAE B-B 15 tooth spline
9 - SAE B 13 tooth spline

6 Pump Design

20 - Single drain port
30 - Dual drain port

7 Control Type & Design

C-10 - Pressure compensated (PVE19, 250-3000 psi) (PVE21, 250-2700 psi)

CG-10- Remote control pressure compensator adjustable from 350-3000 psi using an external relief valve

CV-10- Load sensing PVE19/21

CVP-12- Load sensing (160 PSID) with pressure compensation PVE 19/21

CVPC-12- Load sensing (350 PSID) with pressure compensation PVE19/21

For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO cleanliness code 20/18/15 or cleaner. Selections from Eaton OFP, OFR and OFRS series are recommended.

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