Service Data

Vickers®

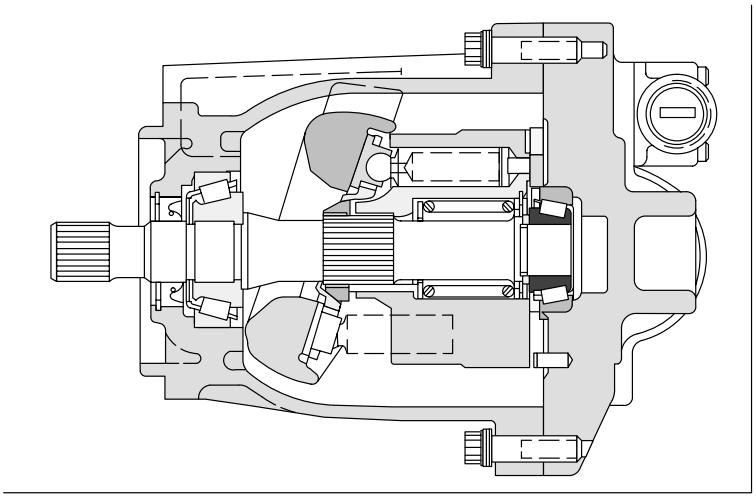
Piston Pumps

Variable Displacement Piston Pumps with Pressure Compensator

PVE19/21-B2*-*-41-C*-12/13/20/30**

C**, CG & CV** Compensator

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



NOTE

The "C**VP(C)**B" compensator may be ordered as a complete factory tested part by ordering part number shown in table below.

Included in	
▲ Seal Kit Piston Pump	02-348242
Bearing Spacer Kit	942401
Shim Kit	923938

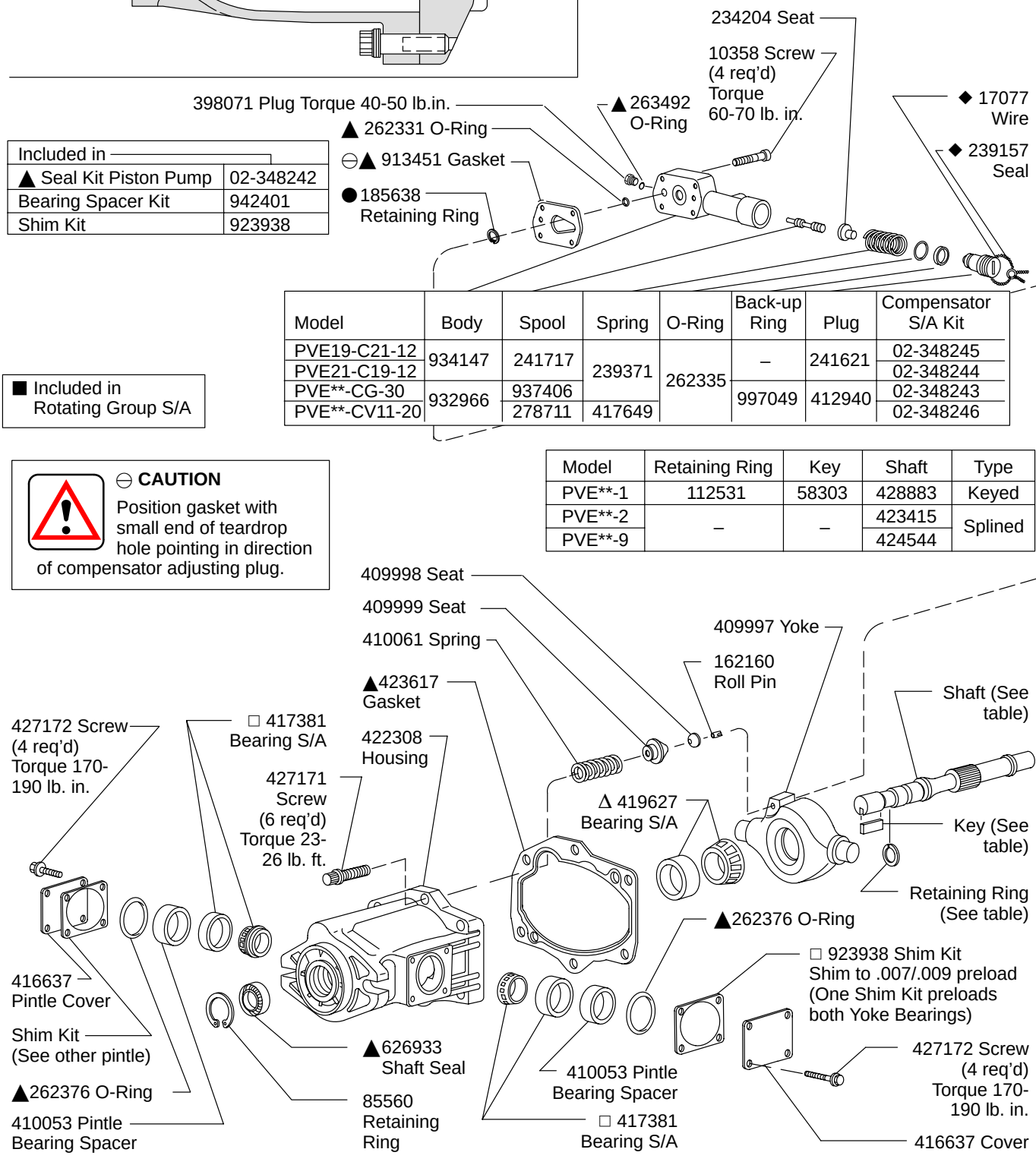
■ Included in Rotating Group S/A

Model	Body	Spool	Spring	O-Ring	Back-up Ring	Plug	Compensator S/A Kit
PVE19-C21-12	934147	241717	239371	262335	–	241621	02-348245
PVE21-C19-12							02-348244
PVE**-CG-30	932966	937406			997049	412940	02-348243
PVE**-CV11-20		278711	417649				02-348246

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

⊖ **CAUTION**

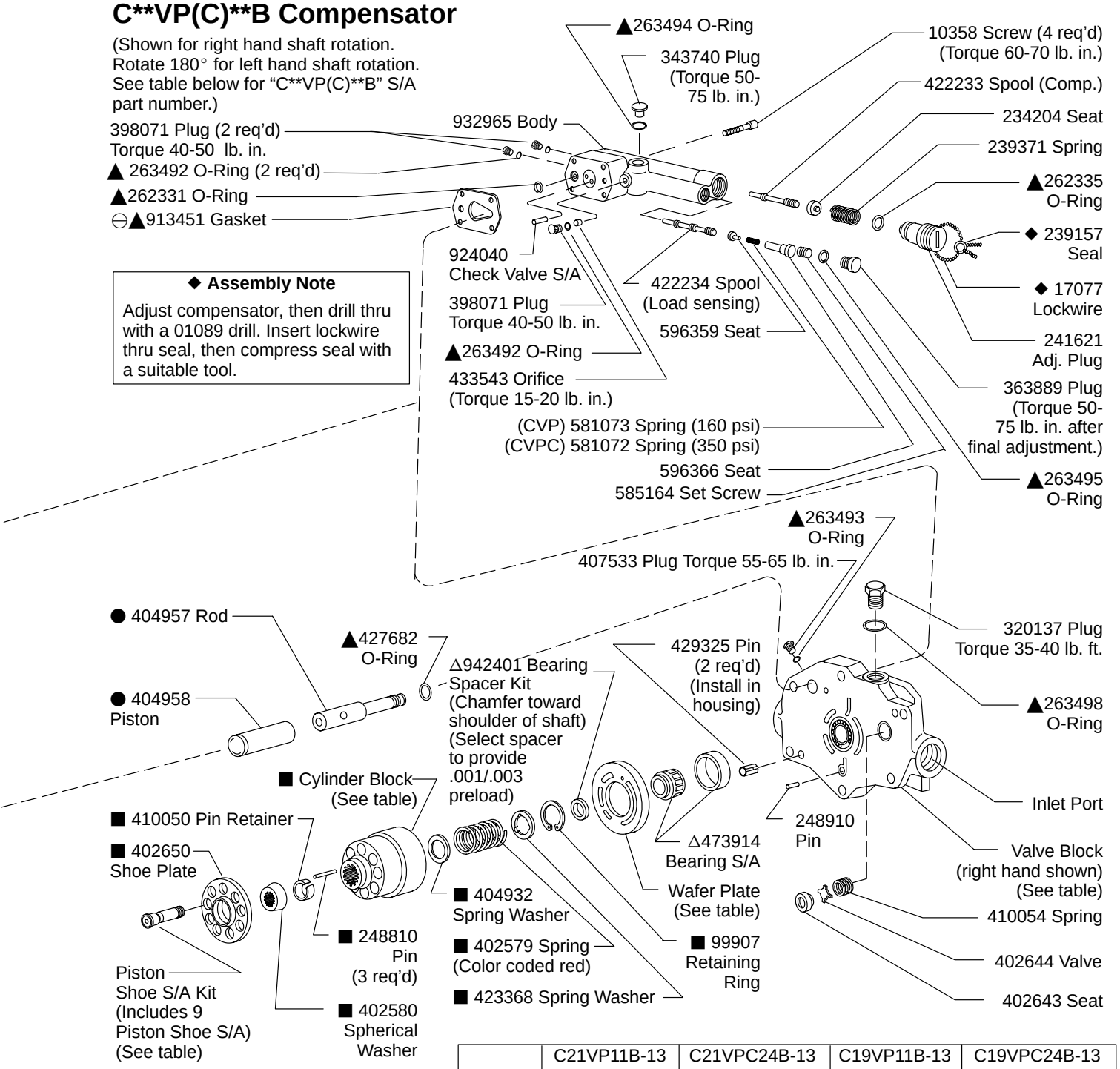
Position gasket with small end of teardrop hole pointing in direction of compensator adjusting plug.



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C**VP(C)**B Compensator

(Shown for right hand shaft rotation.
Rotate 180° for left hand shaft rotation.
See table below for "C**VP(C)**B" S/A part number.)



Model	C21VP11B-13 S/A Kit	C21VPC24B-13 S/A Kit	C19VP11B-13 S/A Kit	C19VPC24B-13 S/A Kit
PVE19	02-347532	02-347530	–	–
PVE21	–	–	02-347531	02-347529

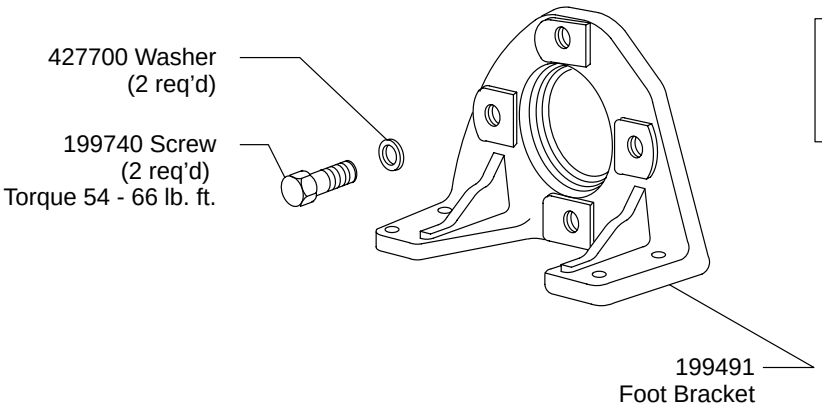
Model	Rotation Viewed from Shaft End	STE Valve Block	STS Valve Block	Wafer Plate	■ Cylinder Block	Piston Shoe S/A ■ Includes 9 Piston Shoe S/A	■ Rotating Group
PVE19-R	C/Wise	933017	933002	425412	426454	923939	923948
PVE19-L	CC/Wise	933007	933016	425415			
PVE21-R	C/Wise	933017	933002	425413	418215	923946	923947
PVE21-L	CC/Wise	933007	933016	425416			

● Included in 02-328397 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 19 B2 R A9 STE 2 F 41 CVPC** B D 13 ***

1 2 3 4 5 6 7 8 9 10 11 12 13 14

1 Model Series

PVE - Pump, variable displacement, inline piston unit

2 Flow Rating
@ 1800 rpm

19 – 19 USgpm
21 – 21 USgpm

3 Mounting Flange

B2 - SAE B 2 bolt flange

4 Shaft Rotation
(viewed from shaft end)

R - Right hand (clockwise)
L - Left hand (counterclockwise)

5 Thru Drive

Blank - None
B26 - Female SAE "B" 2 bolt flange w/26 tooth thru shaft
A11 - Female SAE "A" 2 bolt flange w/11 tooth thru shaft
A9 - Female SAE "A" 2 bolt flange w/9 tooth thru shaft

6 Port Configuration

STE - SAE tube end port
MTE - Metric tube end port
STS - SAE tube side port
MTS - Metric tube side port
SFE - SAE flange end port
MFE - Metric flange end port
SFS - SAE flange side port (A9, A11 only)
MFS - Metric flange side port (A9, A11 only)

7 Input Shaft

1 - SAE BB 1.00 dia. straight keyed
2 - SAE BB splined 15T, 16/32 flat root, side fit
8 - Tapered key, SAE B (torque limited)
9 - SAE B splined 13T
13 - SAE BB tapered key
16 - SAE B .875 dia. straight keyed (torque limited)
28 - 28 tooth splined

8 Seals

F - Flurocarbon (standard)
N - No shaft seal

9 Pump Design

10 Control Type and Design

C** - Pressure compensator
PVE19: 20-207 bar (300-3000 psi)
Standard setting is "C21". Indicating 207 bar (3000 psi).
Range is 02-21 in tens of bar.
PVE21: 20-186 bar (300-2700 psi).
Standard setting is "C19". Indicating 186 bar (2700 psi).

CVP11** - Load sensing w/"C" type pressure limiter. Load sense set at 11 bar (160 psi) standard. Range 11-17 bar

10 Control Type and Design

CVPC24** - Load sensing with "C" type pressure limiter. Load sense set at 24 bar (350 psi) option. Range 17-31 bar

CVPD41** - Load sensing with "C" type pressure limiter. Load sense set at 41 bar (600 psi) option. Range 31-41 bar

CG** - Remote control pressure compensator (same as C**)

CD - Electric dual range compensator

UV - Unloading valve

CA** - Pressure compensator. Standard setting, 7 in tens of bar. (max. 70 bar) Range 02-07 (300-1000 psi)
(** = pres. setting in tens of bar.)

11 Control Bleed Down

Blank - For C, CV, CA, CG, CD
B - Bleed down orifice
P - Plug, no orifice

(C**VP**, C**VPC**, C**VPD**)

12 Control Option

Blank - W/o max. adjust. stop (standard)
D - Max. adjustable stop (not available on thru drive pumps)

13 Control Design

14 Special feature Suffix

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 Vickers OFP, OFR and OFRS series are recommended.

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