

Service Data

**Vickers®**

# Piston Pumps

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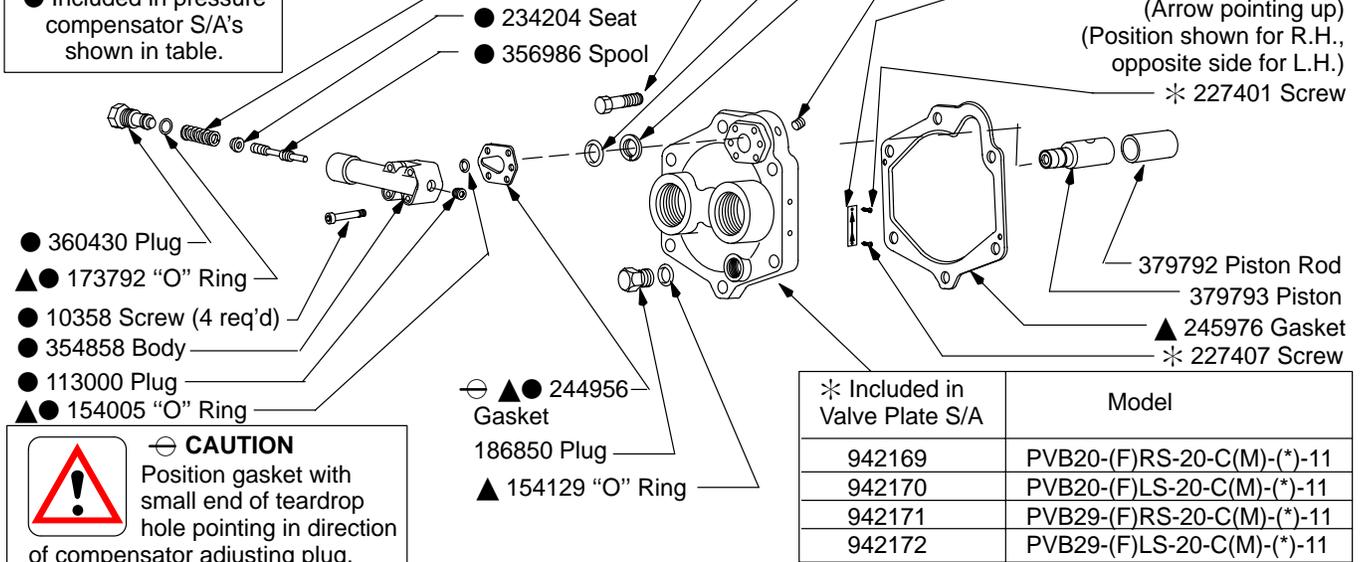
## Variable Inline Piston Pump

PVB20-\*S-20-\*(\*)-11

PVB29-\*S-20-\*(\*)-11

Pressure Range (PSI)	Compensator S/A	Spring
(C) 250-3000 (20)	942158	● 239371
(CM) 250-2000 (29)		
(CM) 250-1500	942159	● 265693

● Included in pressure compensator S/A's shown in table.

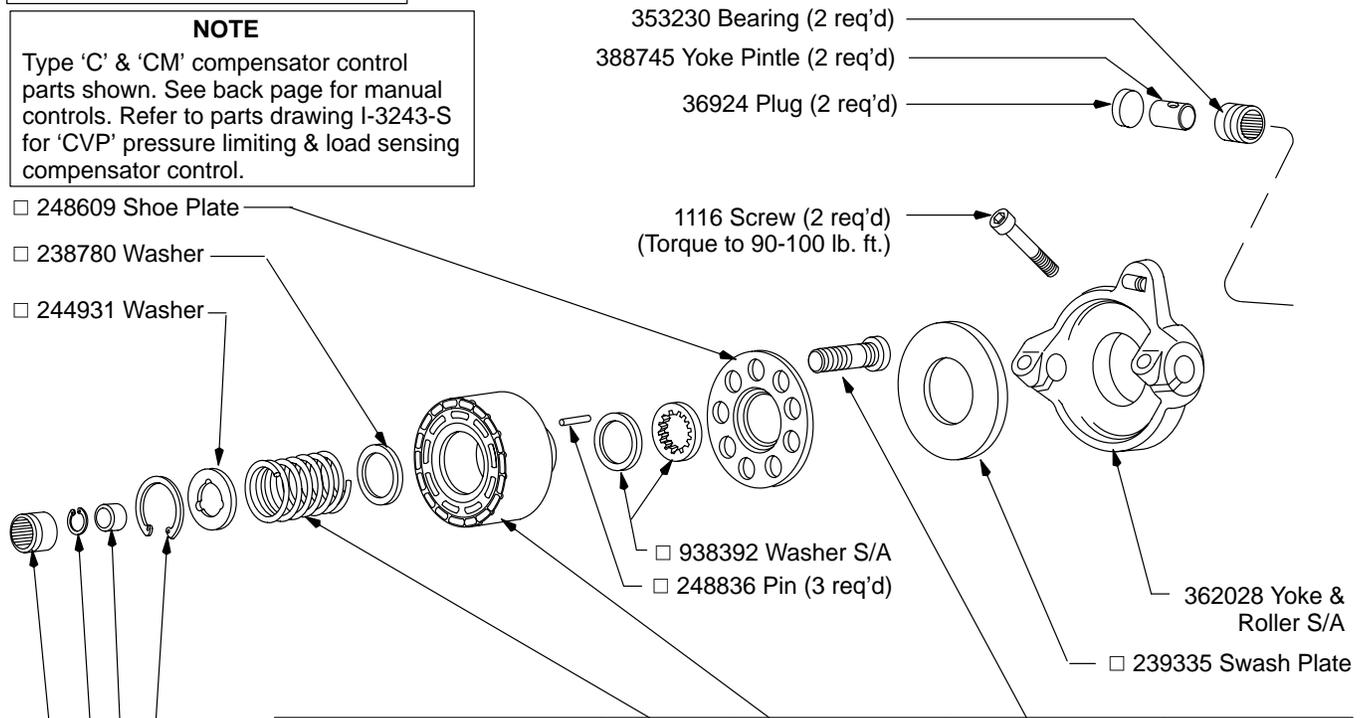


* Included in Valve Plate S/A	Model
942169	PVB20-(F)RS-20-C(M)-(*)-11
942170	PVB20-(F)LS-20-C(M)-(*)-11
942171	PVB29-(F)RS-20-C(M)-(*)-11
942172	PVB29-(F)LS-20-C(M)-(*)-11

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

**NOTE**  
Type 'C' & 'CM' compensator control parts shown. See back page for manual controls. Refer to parts drawing I-3243-S for 'CVP' pressure limiting & load sensing compensator control.

- 248609 Shoe Plate
- 238780 Washer
- 244931 Washer



Model	<input type="checkbox"/> Spring	<input type="checkbox"/> Cylinder Block	■ <input type="checkbox"/> Piston S/A Kit	Rotating Group
PVB20-(F)*S-20-C(M)-(*)-11	246386	250688	941883	938274
PVB29-(F)*S-20-C(M)-(*)-11	263582	259458	941888	938275

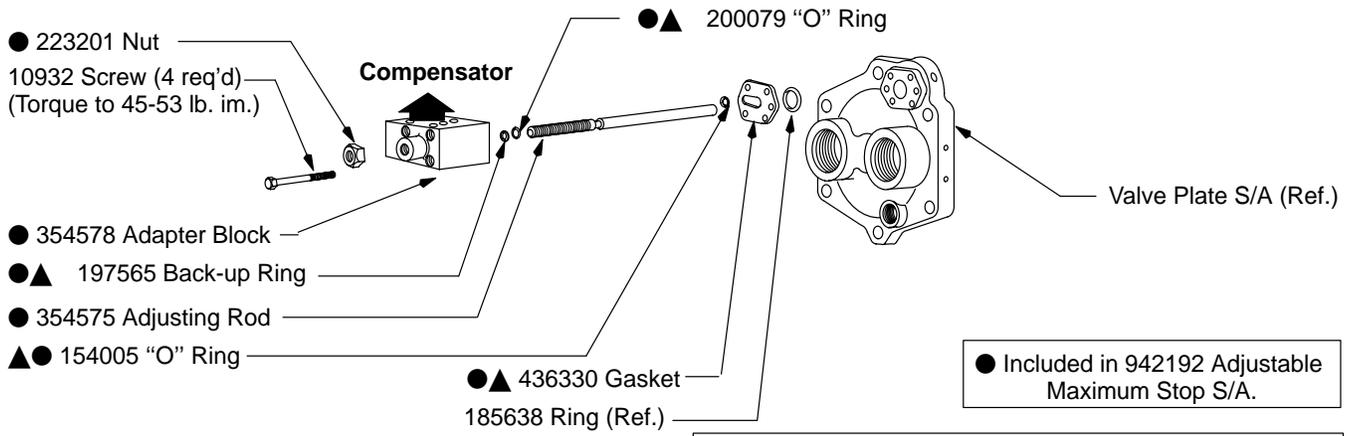
- 194025 Retaining Ring
- 292499 Spacer
- 193734 Retaining Ring
- \* 251108 Bearing

F3 equivalent Seal Kit 919847

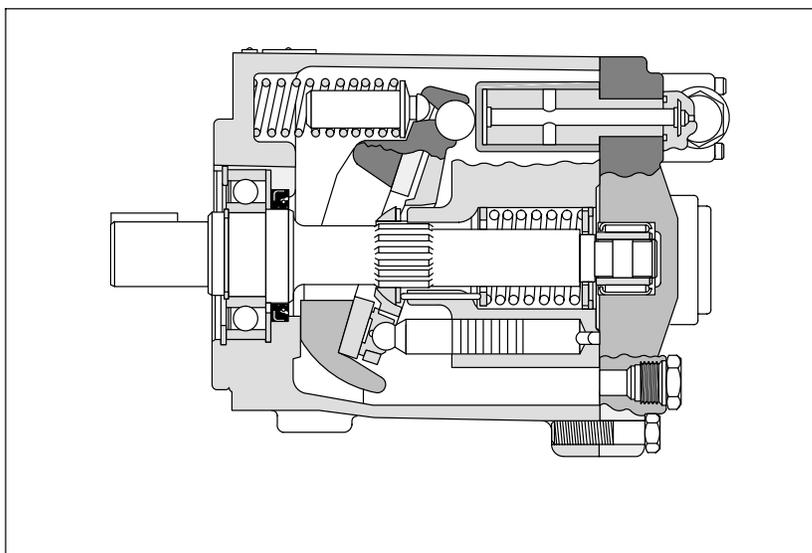
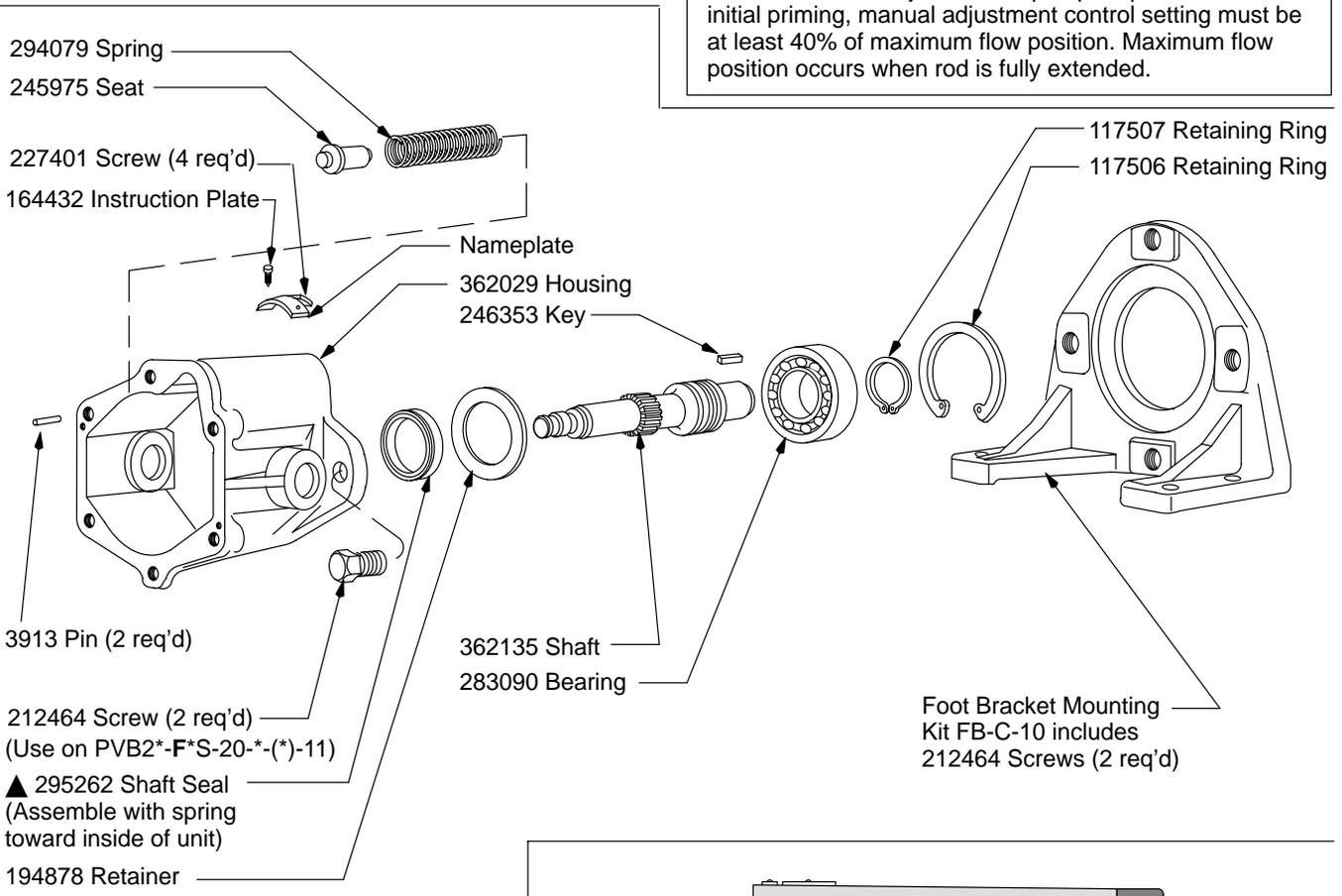
▲ Included in 919683 Seal Kit

■ Includes 9 Piston & Shoe S/A

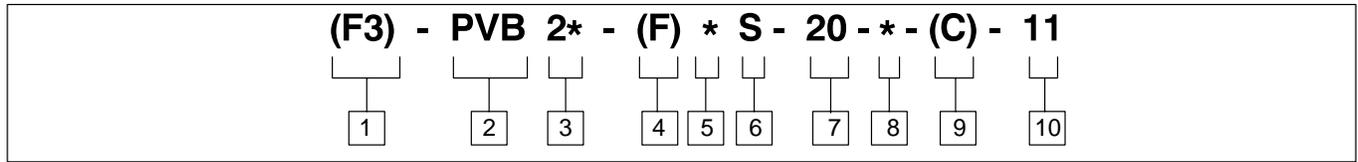
Included in Rotating Group



**NOTE**  
 The adjustable maximum stop feature (shown) may be used for manual adjustment of pump output flow. To assist initial priming, manual adjustment control setting must be at least 40% of maximum flow position. Maximum flow position occurs when rod is fully extended.



# Model Code



**1 Seals**  
Multi-fluid capability

**2 Model**  
Pump, variable displacement, inline design

**3 Flow rating @ 1800 rpm**  
**20** - 20 USgpm  
**29** - 29 USgpm

**4 Mounting**  
**F** - Foot bracket  
(Omit for flange mount)

**5 Rotation**  
Viewing from shaft end  
**R** - Right hand  
**L** - Left hand

**6 Displacement**  
**S** - Swash plate movement one side of center

**7 Pump Design**

**8 Control Type**  
Pressure Compensator  
**C** - 250-3000 psi (20 USgpm)  
250-2000 psi (29 USgpm)  
**CM** - Pressure compensated (Intermediate range)  
(250-1500) psi 2\* USgpm units  
**CVP** - Pressure limiter/load sensing



**CAUTION**  
Maximum psi setting of compensator must be limited to the values indicated.

**9 Compensator Variations**  
**C** - Adjustable maximum stop

**10 Control Design Number**

For satisfactory service life of these components, use full flow filtration to provide fluid which meets ISO cleanliness code 16/13 or cleaner. Selections from pressure, return, and in-line filter series are recommended.