

Service Data

Vickers®

# Piston Pumps

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## 20 & 29 USgpm Variable Thru Shaft, Side Ported, Inline Piston Pumps

PVB20-(F)\*SFW-20-C(M)-11

PVB20-(F)\*SFX-20-C(M)-11

PVB29-(F)\*SFW-20-C(M)-11

PVB29-(F)\*SFX-20-C(M)-11

⊖ Included in Valve Plate S/A



**CAUTION**

Do not exceed maximum pressure values indicated.

**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.

Pressure Range (PSI)	Compensator S/A	Spring
(C) 250-3000 (5)	942158	● 239371
⊖ 250-2000 (6)		
(CM) 250-1500	942159	● 265693

- ◆●▲ 173792 "O" Ring
- 360430 Adjusting Plug

1295 Screw (4 req'd)  
Torque to 45-55 lb. ft.

- ▲◆ 154129 "O" Ring
- 186580 Plug
- △ 308256 Bearing
- △ 307041 Retaining Ring

- \*▲ 590026 Shaft Seal (Assemble with spring toward yoke.)
- \* 99907 Retaining Ring

⊖ 400170 Plug (See plug assembly note)

Valve Plate S/A	Model
942241	PVB20-(F)RSF(*)-20-C(M)-11
942242	PVB20-(F)LSF(*)-20-C(M)-11
942243	PVB29-(F)RSF(*)-20-C(M)-11
942244	PVB29-(F)LSF(*)-20-C(M)-11

920305 F3 Seal Kit for PVB20/29-\*-SFW-20-C\*\*-11

919847 F3 Seal Kit for PVB20/29-\*-SFX-20-C\*\*-11



**CAUTION**

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

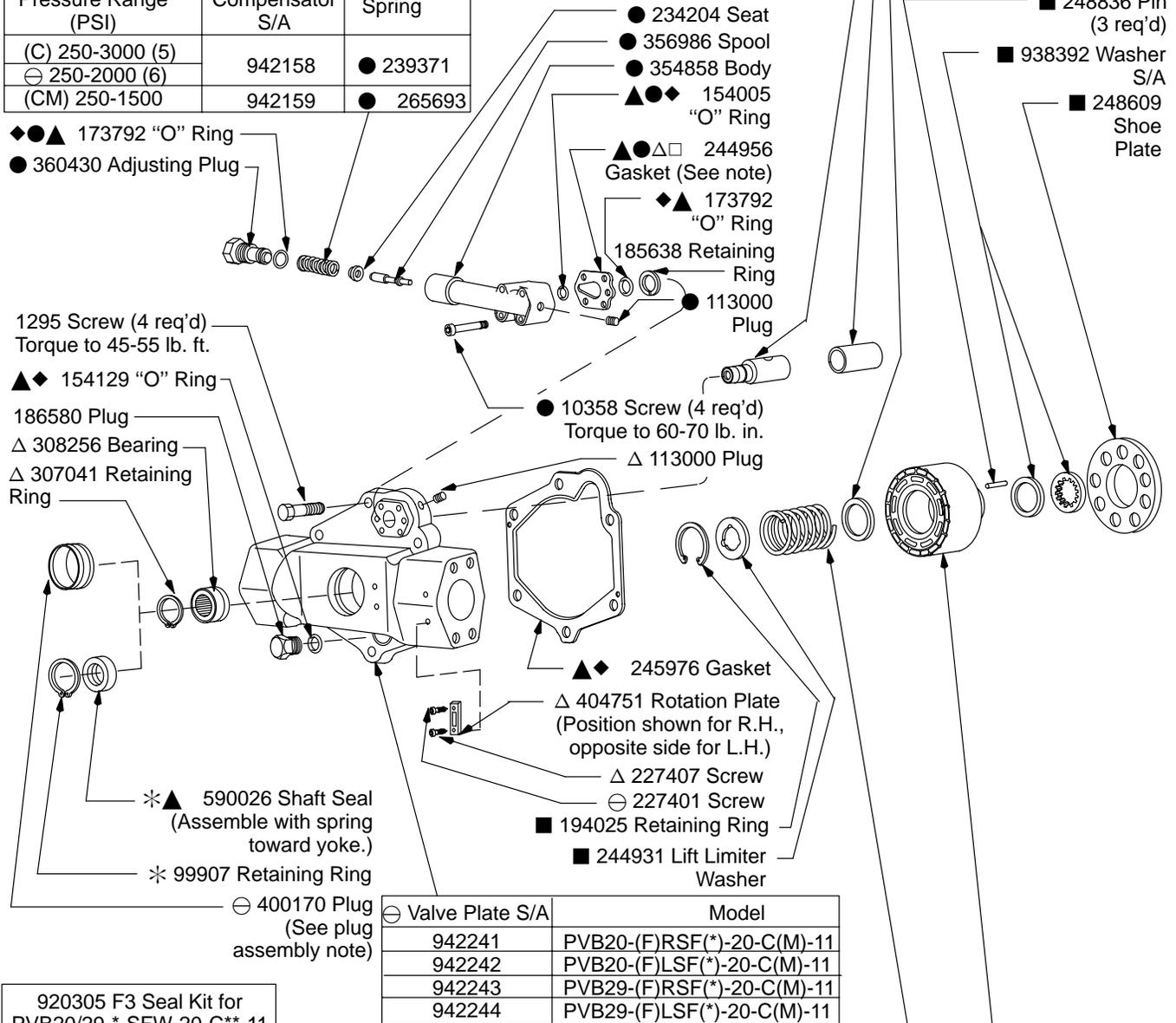
▲ Included in Std Seal Kit 919498 for PVB20/29-\*-SFX-20-C\*\*-1\*

◆ Included in Std Seal Kit 919683 for PVB20/29-\*-SFW-20-C\*\*-1\*

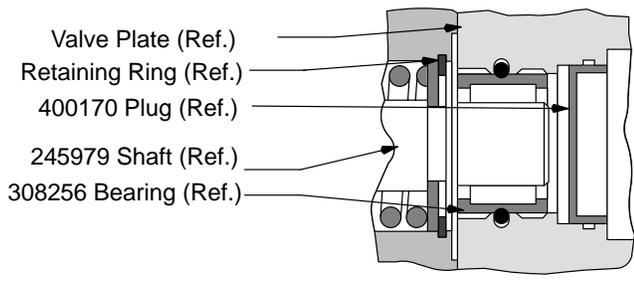
● Included in Pressure Compensator S/A's shown in table.

△ Included in 919729 Seal Kit

F3 Equivalent 920186 Seal Kit

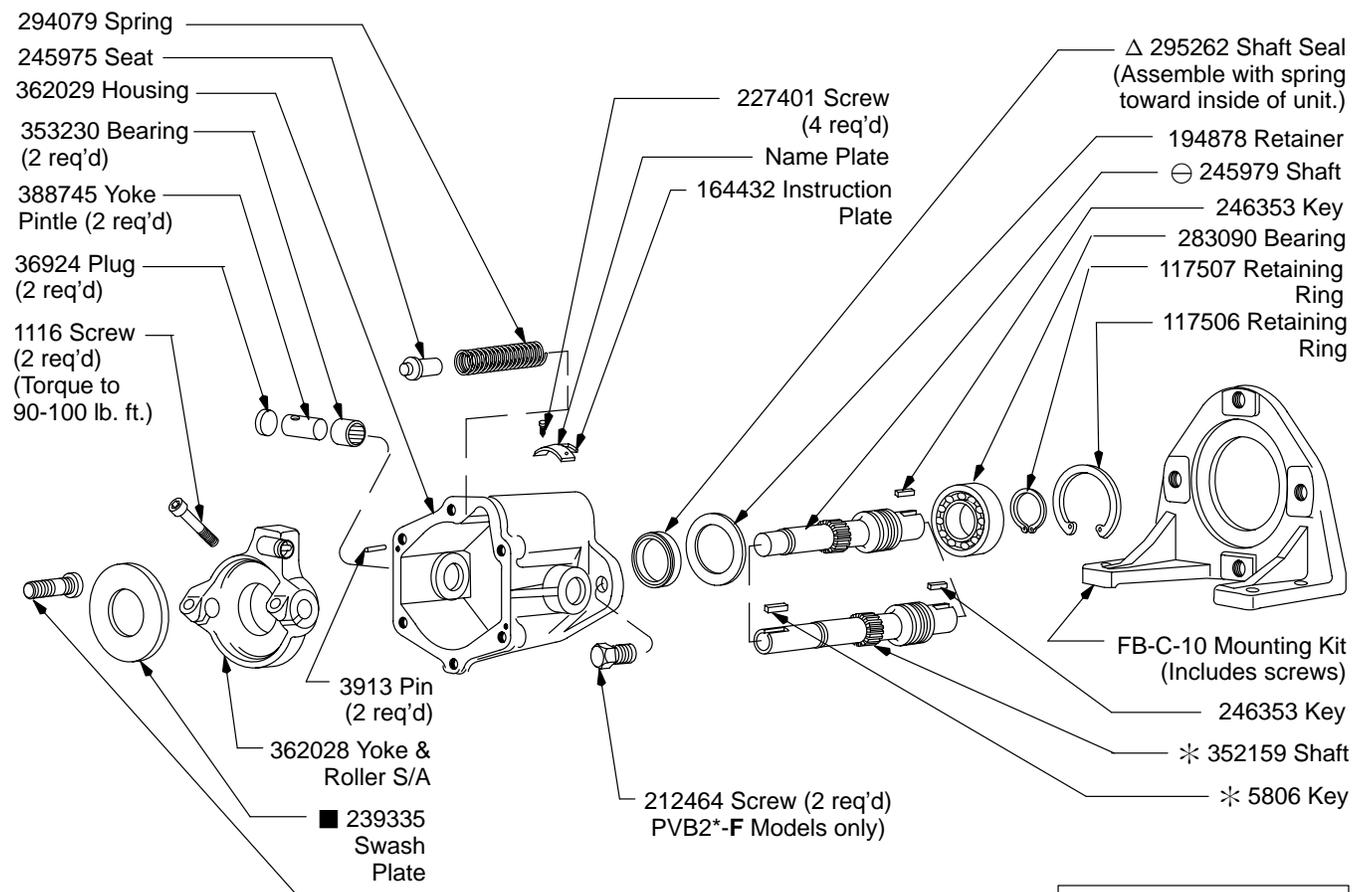


MODEL	SPRING	CYLINDER BLOCK	ROTATING GROUP KIT
PVB20-(F)*SF(*)-20-C(M)-11	246386	250688	938274
PVB29-(F)*SF(*)-20-C(M)-11	263582	259458	938275



**Plug Assembly Note**  
Make certain the 400170 Plug O.D. and the mating I.D. surface in the valve plate is clean. Apply sealing compound (Loctite A (10-1) or equivalent) to the plug O.D. and press plug into the valve plate as shown.

**CAUTION**  
Do not allow sealing compound to contact the bearing rollers.



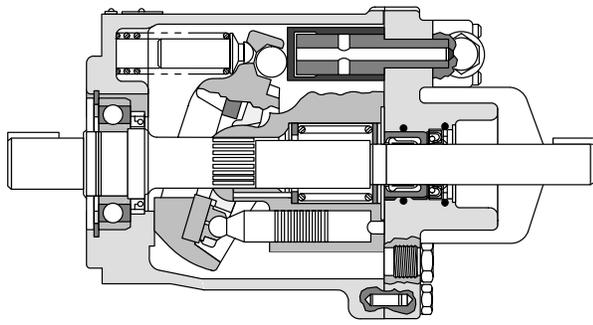
◆ Piston S/A includes 9 Piston and Shoe S/A

MODEL	◆ PISTON S/A KIT	ROTATING GROUP KIT
PVB20-(F)*SF(*)-20-C(M)-11	941883	938274
PVB29-(F)*SF(*)-20-C(M)-11	941888	938275

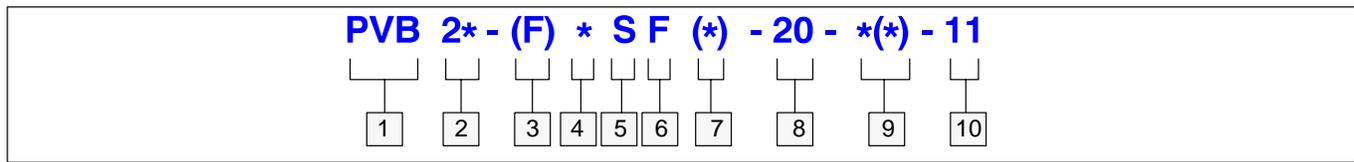
■ Included in Rotating Group

⊖ Used on PVB2\*-(F)\*SFX-20-C(M)-11 Thru Shaft Models Only

⊖ Used on PVB2\*-(F)\*SFW-20-C(M)-11 Side Port Models Only



# Model Code



**1 Model**  
Variable displacement pump,  
inline piston design

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

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

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

**5 Swash Plate Movement**  
**S** - One side of center

**6 Optional Features**  
Flange connected

**7 Shaft End**  
**W** - Side port  
**X** - Thru-shaft - side port

**8 Pump Design**

**9 Control Type**  
Pressure Compensator  
**C** - 250-3000 psi (5 USgpm)  
250-2000 psi (6 USgpm)  
**CM** - 250-1500 psi (5-6 USgpm)  
**CVP**- Pressure limiter load sensing



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

**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.