Service Data

Vickers®

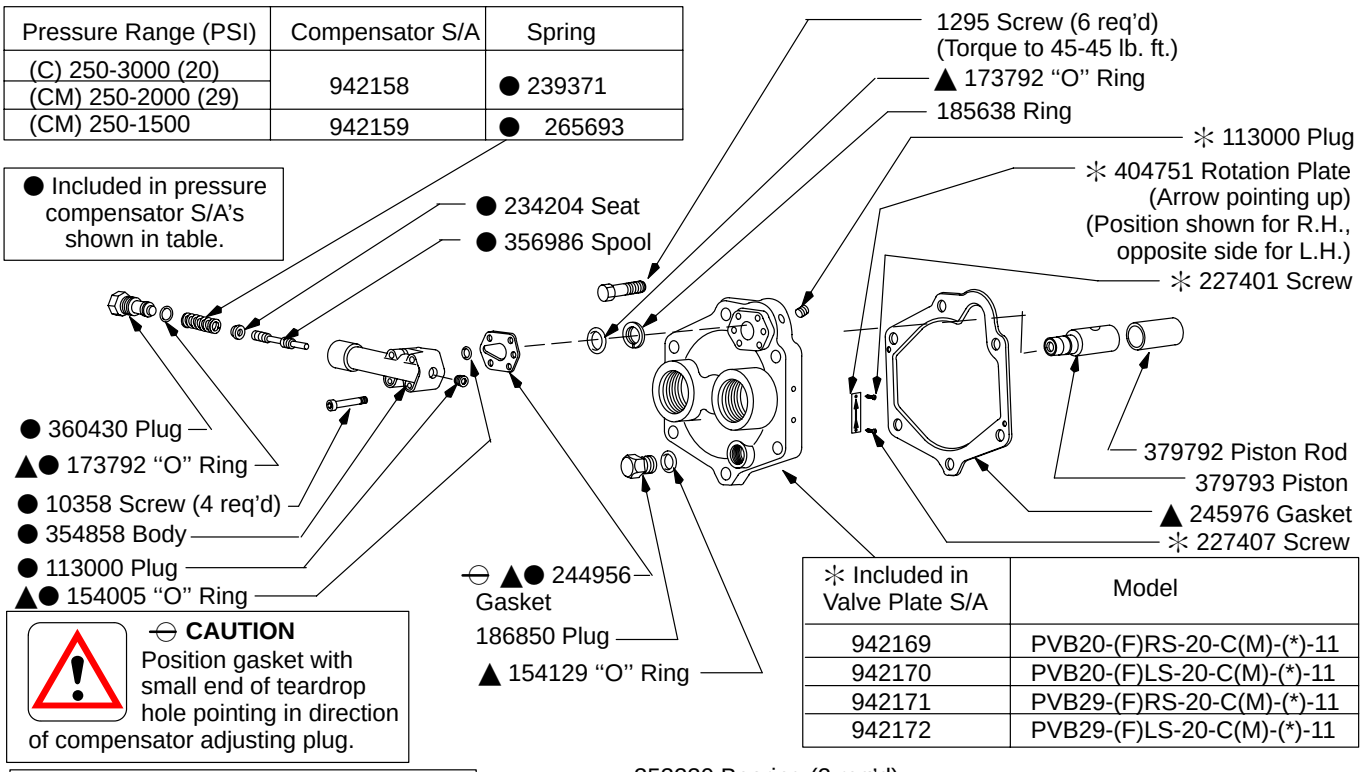
Piston Pumps

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

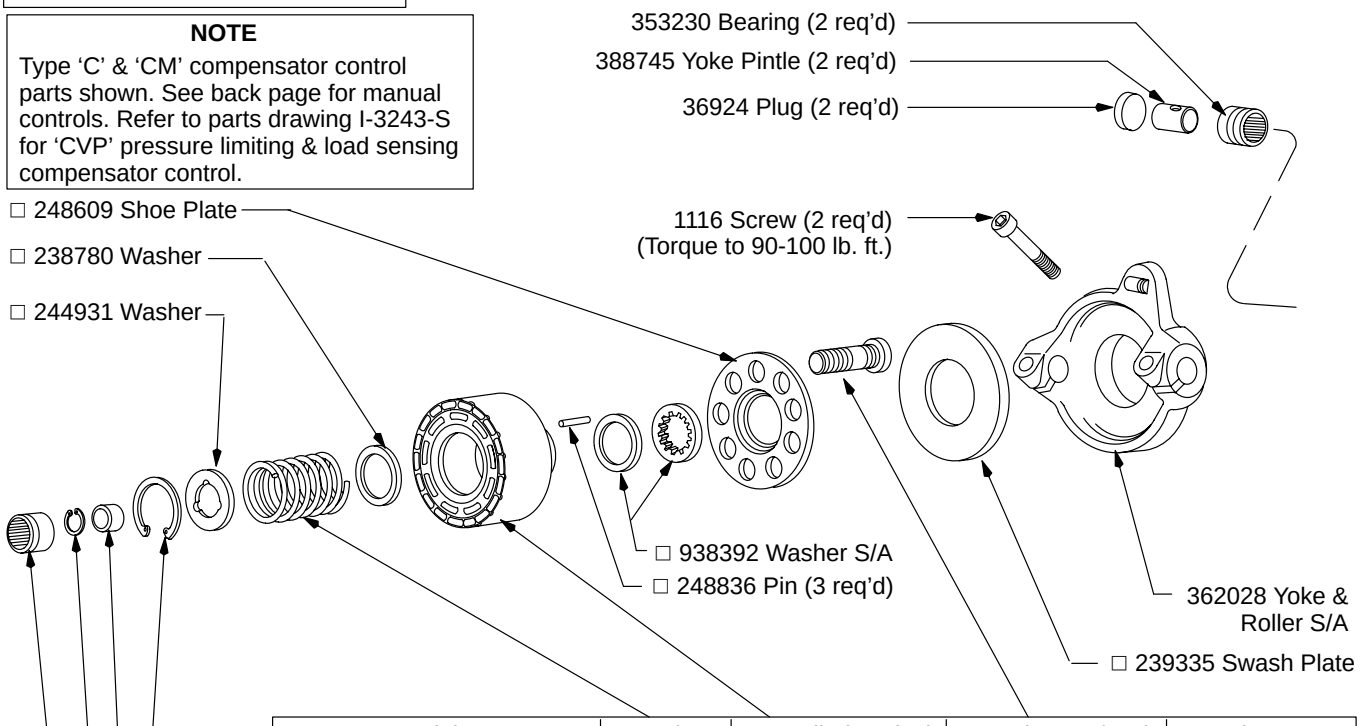
● Included in pressure compensator S/A's shown in table.



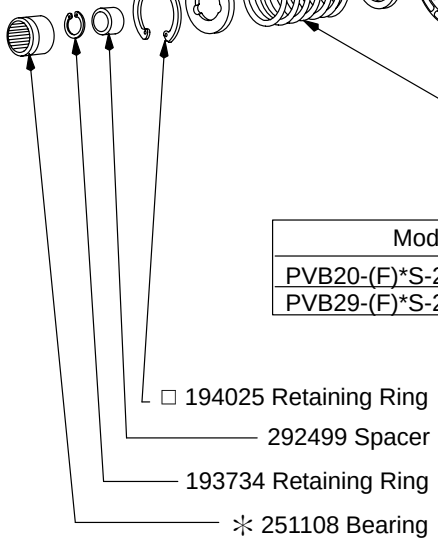
⁕ Included in Valve Plate S/A	Model
942169	PVB20-(F)RS-20-C(M)-(*)-11
942170	PVB20-(F)LS-20-C(M)-(*)-11
942171	PVB29-(F)RS-20-C(M)-(*)-11
942172	PVB29-(F)LS-20-C(M)-(*)-11

⊖ **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.



Model	□ Spring	□ Cylinder Block	■□ 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



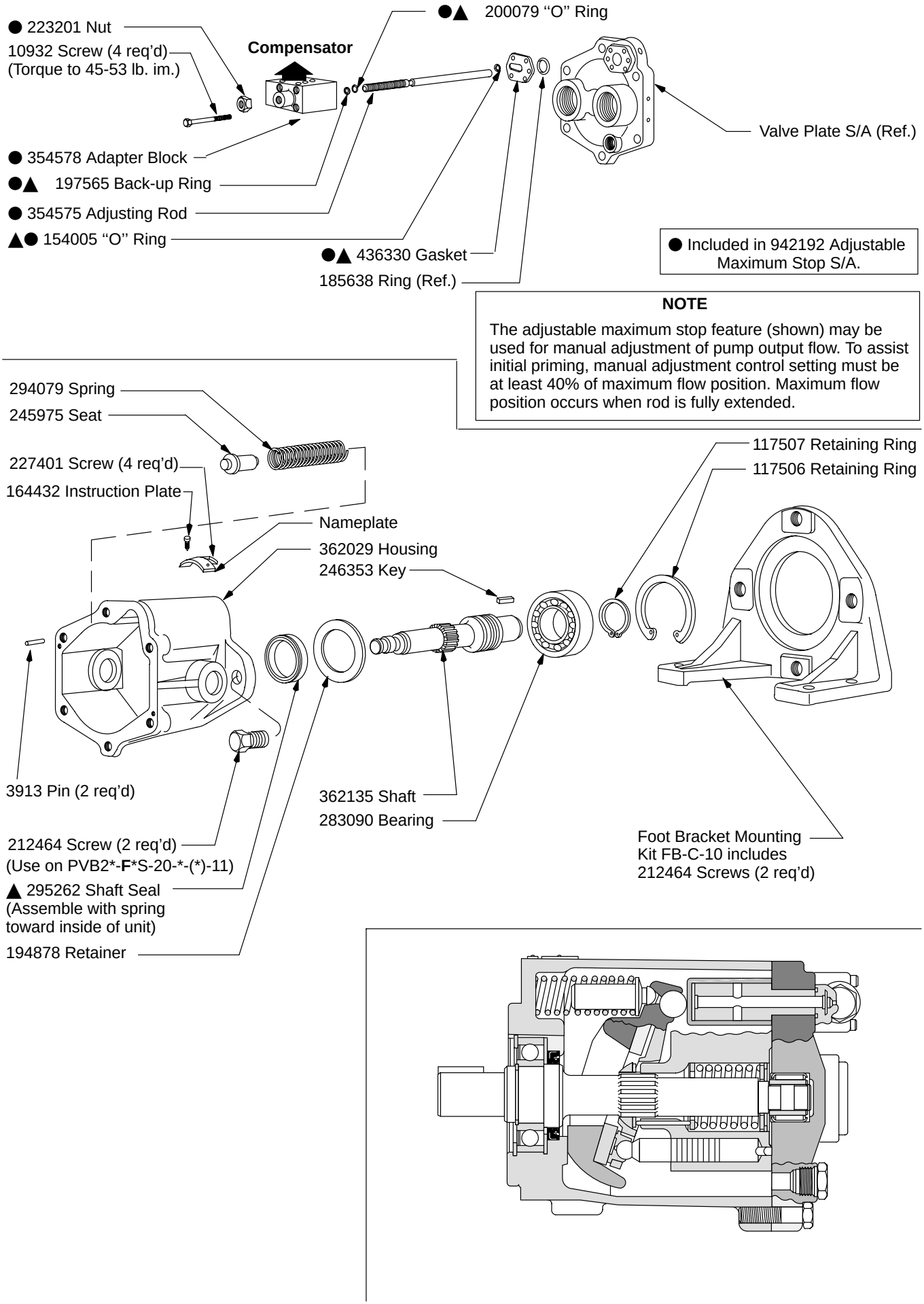
F3 equivalent Seal Kit 919847

▲ Included in 919683 Seal Kit

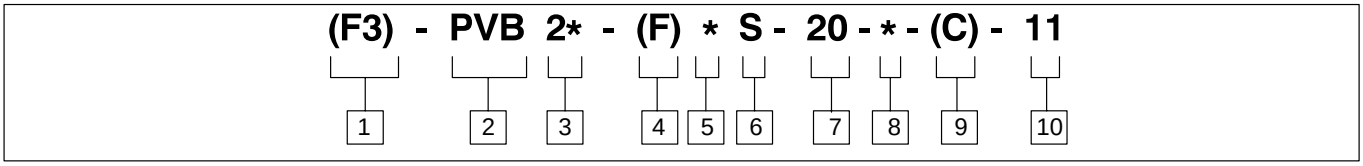
■ Includes 9 Piston & Shoe S/A

□ Included in Rotating Group

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● 223201 Nut
10932 Screw (4 req'd)
(Torque to 45-53 lb. im.)
Compensator
●▲ 200079 "O" Ring
Valve Plate S/A (Ref.)
● 354578 Adapter Block
●▲ 197565 Back-up Ring
● 354575 Adjusting Rod
▲● 154005 "O" Ring
●▲ 436330 Gasket
185638 Ring (Ref.)
● Included in 942192 Adjustable Maximum Stop S/A.
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.
294079 Spring
245975 Seat
227401 Screw (4 req'd)
164432 Instruction Plate
Nameplate
362029 Housing
246353 Key
117507 Retaining Ring
117506 Retaining Ring
3913 Pin (2 req'd)
362135 Shaft
283090 Bearing
Foot Bracket Mounting
Kit FB-C-10 includes
212464 Screws (2 req'd)
212464 Screw (2 req'd)
(Use on PVB2*-F*S-20-*-(*)-11)
▲ 295262 Shaft Seal
(Assemble with spring
toward inside of unit)
194878 Retainer

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.

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