Vickers®

Service Data

Piston Pumps

10 & 15 USgpm Variable Thru Shaft, Side Ported, Inline Piston Pumps

PVB10-(F)**WY-30/31-*(*)(L)-1*  PVB15-(F)**WY-30/31-*(*)(L)-1*
PVB10-(F)**XY-30/31-*(*)(L)-1*  PVB15-(F)**XY-30/31-*(*)(L)-1*
**CAUTION**

Do not exceed maximum pressure values indicated.

- 185638 Snap Ring
  - 173792 "O" Ring
  - 244956 Gasket
- 154005 "O" Ring
- 113000 Plug

- 10358 Screw (4 req'd)
  - Torque to 60-70 lb. in.
- 354858 Body
  - Position shown for L.H. rotation.
- 356986 Spool
- 234204 Seat
- 244956 Shaft Seal
  - Assemble with spring toward yoke.

- 99578 Retaining Ring
- 239840 Cover
  - 166360 "O" Ring
  - 246462 Cover
  - 12278 Screw (2 req'd)

- 12016 Bearing
  - Pintle (See table)

- 942229 Piston/Rod S/A
  - 248812 Pin (3 req'd)
  - 423324 Spherical Washer
  - 275961 Shoe Plate
  - 942229 Piston S/A Kit
  - 941887 938273 Piston S/A Kit

**Rotation Plate**

- 227401 Screw
  - 227407 Screw
- 374704 Snap Ring
  - 294669 Bearing
  - 317162 Gasket

**Valve Plate S/A**

- 356986 Spool
- 234204 Seat
- 244956 Shaft Seal
  - Assemble with spring toward yoke.

- 99578 Retaining Ring
- 239840 Cover
  - 166360 "O" Ring
  - 246462 Cover
  - 12278 Screw (2 req'd)

- 12016 Bearing
  - Pintle (See table)

- 942229 Piston/Rod S/A
  - 248812 Pin (3 req'd)
  - 423324 Spherical Washer
  - 275961 Shoe Plate
  - 942229 Piston S/A Kit
  - 941887 938273 Piston S/A Kit

**Pressure Compensator S/A's**

- 294958 Shaft Seal
  - Assemble with spring toward yoke.

- 2304040 Adjusting Plug
- 360430 Adjusting Plug
- 244956 Gasket
- 154005 "O" Ring

- 113000 Plug
- 227401 Screw
  - 227407 Screw
- 374704 Snap Ring
- 294669 Bearing
- 317162 Gasket

**CAUTION**

Position compensator gasket with small end of teardrop hole pointing in direction of compensator adjusting plug.
Plug Assembly Note
Make certain the 329465 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.

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.

Make certain the 329465 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.

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Do not allow sealing compound to contact the bearing rollers.

Plug Assembly Note
Make certain the 329465 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.

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 Code

PVB* - (§) * * * Y - 3* - * (L) - 1*

1 Model
Variable displacement pump, inline piston unit

2 Flow rating @ 1800 rpm
10 - 10 USgpm
15 - 15 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
D - Both sides of center
S - One side of center

6 Optional Features
W - Side ports
X - Side ports-thru shaft

7 Shaft End
Y - Standard

8 Pump Design
–30/–31

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
H - Handwheel
M - Lever

10 Compensator Variations
C - Adjustable Maximum Displacement Stop
(See I–3255–S)

11 Control options
L - Left hand viewing shaft end
(Omit for right hand)

12 Control Design Number

Manual Lever Control
Model PVB*-(*)***Y-30/31-M(L)-10

Handwheel Control
Model PVB*-(*)***Y-30/31-H(L)-10

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.