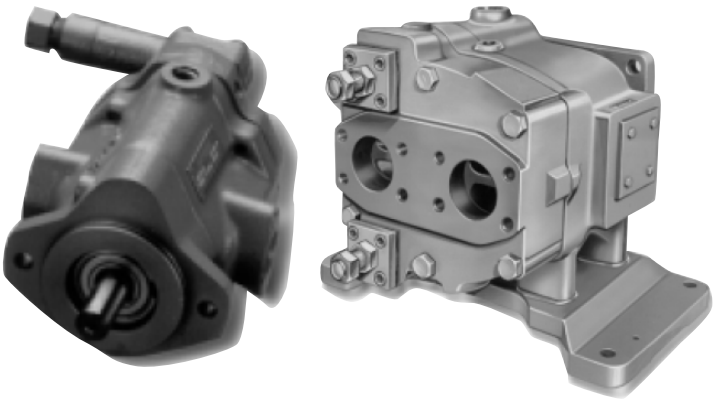
ITL - e Supply®
An Industrial Supply Division of ITL Industries Limited (a BSE listed Company)

Piston Pump - PVB5/6/10/15

General Description

Both fixed and variable displacement models make up this range of axial piston pumps. Their high performance ratings and efficiencies are achieved with a variety of hydraulic fluids. Fixed displacement models are noted for their volumetric and mechanical efficiencies. Variable displacement models can closely match pressure and/or flow demand with a control selected from: Pressure compensator with or without a remote control facility. Pressure compensator with adjustable displacement control. Load sensing compensator. Mechanical (lever) control. Handwheel control



Model Codes

P * B ** – (F) * S (F) (Y) – ** – ** – * – * – * – ** – **

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

1 Basic models
PFB – fixed displacement type
PVB – variable displacement type

2 Displacement
5 – 10, 55 cm^3/r
6 – 13, 81 cm^3/r (PVB only)
10 – 21, 1 cm^3/r
15 – 33, 0 cm^3/r (PVB only)
20 – 42, 8 cm^3/r
29 – 61, 6 cm^3/r (PVB only)
45 – 94, 5 cm^3/r (PVB only)
90 – 197, 5 cm^3/r (PVB only)

3 Foot mounting option
For PVB45 and 90 models.
Omit for flange mounting.
Note: Foot mounting brackets for P* B5 to 29 models inclusive are available as separate items; see the end of this "model Code" section.

4 Shaft rotation
Viewed at shaft end
R – Clockwise
L – Anticlockwise (Not available for PFB10 and PFB20)

5 Displacement Zone
PVB models only.
S – One side of centre. (Pressure compensated models only.)
D – Both sides of centre. (Handwheel and lever controlled models only.)
Omit for PFB models.

Flanged main ports
PVB 45 and 90 models only.
Omit for P*B5 to 29 inclusive.

6 Operating data
Pressure and speed limits
Max. outlet pressures and drive speed.
Note: Port flange kits are available as separate items, see 'Packaged systems and components' leaflet V-1330 for details.

7 Shaft type
Omit for P*B20 to 90 models inclusive.

8 Pump design number
10 – PFB 20
30 – PFB 10
31 – PVB 10 and 15 models
20 – all other models.

9 Displacement control options
PVB models only
C = Pressure compensato r - pressure adjustment range
19 - 207 bar for PVB90
17, 3 - 207 bar for all other models.
Used also as prefix to item 11.
Note: For PVB6, 15 and 29 models, the user must ensure that the max. pressure setting never exceeds 140 or 105 bar, dependent on the type of fluid being used.
CM = Pressure compensator.
Option for all pump sizes except PVB90.
Pressure adjustment range 10,4 - 103 bar for PVB45
17,3 - 103 bar for other sizes.
CVP = Load sensing with pressure limiter
H = Handwheel control. (For PVB 5 to 15 sizes inclusive.)
M = Lever control. (For PVB 5 to 15 sizes inclusive.)
V = No control. (As for "M" type but without lever. For PVB 5 to 15 sizes inclusive.)
Omit for PFB models.

10 Max. displacement adjustment
PVB models only
C = Option for PVB 5 to 29 models inclusive, having "C" or "CM" compensator options and with 11 below.
Omit when not required.

11 Pressure compensator variations
Option for PVB 5 to 29 models inclusive
G = Remotely adjustable pressure setting.
Omit when not required.

12 Control location
PVB 5 to 15 inclusive only. For "H" and "M" controls only.
L = Left hand, viewed at shaft end.
Omit for right hand or when a pressure compensator is fitted.

13 Control design number
PVB models only.
10, for "H" and "M" controls, and "C" control for PVB 90.
11, for "C" and "CM" controls.
12, for CVP control
20, for CG control

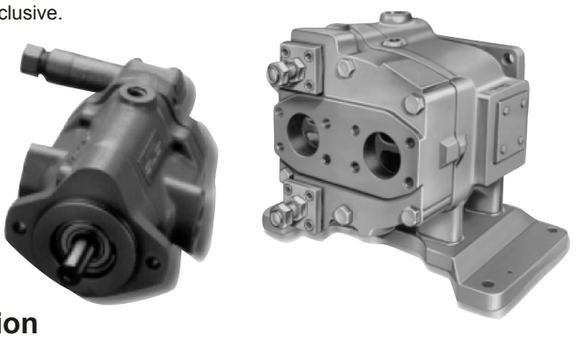
Piston Pump - PVB5/6/10/15

14 Special design options

S.30 = Extra drain port to permit vertical “shaft - up” installation. for PFB 5 and PVB 5 to 29 inclusive.
GE.1 = 10% min. displacement when pressure compensated. For PVB 5 to 29 (pressure compensated models only.)
Omit when not required.
Installation dimensions unchanged for design numbers *0 to *9 inclusive.

For foot mounting bracket kits

Include pump fixing bolts.
466421, for P*B5 and 6 models.
466422, for P*B10/15 and PFB20 models.
466423, for PVB20 and 29 models.
Omit when not required.
For port flange kits
(For PVB45 and 90 pumps only.)
FL1 series, see ‘Packaged systems and components’ leaflet V-1330. Omit when not required.



Ordering Information & Technical Specification

Product code	Product Level 3	Part no.	Description / Model Code
201361111	PVB10	430486-IN154	PVB10-FRSY-31-C-11-IN154
201361112	PVB10	430495-IN154	PVB10-FRSY-31-CC-11-IN154
201361113	PVB10	432008-IN154	PVB10-FRSY-31-CM-11-IN154
201361114	PVB10	436137-IN154	PVB10-FRSY-31-CMC-11-IN154
201361115	PVB10	430487-IN154	PVB10-RSY-31-C-11-IN154
201361116	PVB10	430494-IN154	PVB10-RSY-31-CC-11-IN154
201361117	PVB10	432011-IN154	PVB10-RSY-31-CM-11-IN154
201361118	PVB10	432017-IN154	PVB10-RSY-31-CMC-11-IN154
201361119	PVB15	814510-IN154	PVB15-FRSY-31-C-11-IN154
201361120	PVB15	432036-IN154	PVB15-FRSY-31-CC-11-IN154
201361121	PVB15	432050-IN154	PVB15-FRSY-31-CM-11-IN154
201361122	PVB15	432061-IN154	PVB15-FRSY-31-CMC-11-IN154
201361123	PVB15	432029-IN154	PVB15-RSY-31-C-11-IN154
201361124	PVB15	436087-IN154	PVB15-RSY-31-CC-11-IN154
201361125	PVB15	432053-IN154	PVB15-RSY-31-CM-11-IN154
201361126	PVB15	436085-IN154	PVB15-RSY-31-CMC-11-IN154
201361127	PVB5	857331-IN150	PVB5-FRSY-21-C-11-IN150
201361128	PVB5	857410-IN150	PVB5-FRSY-21-CC-11-IN150
201361129	PVB5	857388-IN150	PVB5-FRSY-21-CM-11-IN150
201361130	PVB5	857423-IN150	PVB5-FRSY-21-CMC-11-IN150
201361131	PVB5	857343-IN150	PVB5-RSY-21-C-11-IN150
201361132	PVB5	857401-IN150	PVB5-RSY-21-CC-11-IN150
201361133	PVB5	857344-IN150	PVB5-RSY-21-CM-11-IN150
201361134	PVB5	857350-IN150	PVB5-RSY-21-CMC-11-IN150
201361135	PVB6	857512-IN150	PVB6-FRSY-21-CM-11-IN150
201361136	PVB6	857521-IN150	PVB6-FRSY-21-CMC-11-IN150
201361137	PVB6	857507-IN150	PVB6-RSY-21-C-11-IN150
201361138	PVB6	857533-IN150	PVB6-RSY-21-CC-11-IN150
201361139	PVB6	857513-IN150	PVB6-RSY-21-CM-11-IN150
201361140	PVB6	857522-IN150	PVB6-RSY-21-CMC-11-IN150