



QHTM POMPES / PUMPS

PISTONS SÉRIE PVB, PVE, PVH & PVQ

PISTON PVB, PVE, PVH & PVQ SERIES





PVB SWASHPLATE AXIAL PISTON PUMPS



PVB	5	(F)	R	S	(F)	W	Y	20	CG	C	*	12
1	2	3	4	5	6	7	8	9	10	11	12	13

1
Model Series

PVB –Variable displacement pump

2
Displacement

5 – 10.5 cc/rev (0.64 in³/r)
 6 – 13.8 cc/rev (0.84 in³/r)
 10 – 21.1 cc/rev (1.29 in³/r)
 15 – 33.0 cc/rev (2.01 in³/r)
 20 – 42.8 cc/rev (2.61 in³/r)
 29 – 61.6 cc/rev (3.76 in³/r)
 45 – 94.5 cc/rev (5.76 in³/r)

3
Mounting

F – Foot Bracket
 (Omit for flange mount)

4
Shaft Rotation (Viewed at shaft end)

R – Right Hand (clockwise)
 L – Left Hand (counterclockwise)

5
Displacement Zone

S – One side of center
 (Pressure Compensated models only)
 D – Both sides of center

6
Flanged Ports

20 – Side/Thru Flanged Ports
 29 – Side/Thru Flanged Ports
 45 – All Ports

7
Optional Features

W – Side Ports
 X – Side Ports - thru shaft

8
Shaft Type

Y – SAE models PVB5 through
 15 only (Standard)

9
Pump Design Number

40 – 5 or 6 displacement
 40 – 10 or 15 displacement
 20 – 20 or 29 displacement

10
Displacement Control Options

C – Pressure Compensator
 Pressure adjustment range:
 17 to 210 bar (250 to 3000 psi)
 CM – Pressure Compensator
 Pressure adjustment range:
 17 to 100 bar (250 to 1500 psi)
 CG – Remotely adjustable pressure setting
 CD – Electric dual range pressure
 CVP – Pressure limiter load sensing
 H – Handwheel
 M – Lever (only available in sizes 5-15)

11
Optional Features

C – Adjustable Maximum
 Displacement Stop

12
Compensator Variations

D – Dual-range (Electric control
 115 volts-60 cycle)
 DH – Dual-range (Hydraulic control)
 G – Hydraulic remote (L.H. only
 except CCG models)
 *Omit if not needed

13
Control Design Number

*Note: For PVB6, 15 and 29 models, the
 user must ensure that the max. pressure
 setting never exceeds 140 or 100 bar
 (2000 or 1500 psi) dependent on the
 type of fluid being used.

*Please see PVB Engineering for more
 detailed model code.



Model Code	Displacement cm ³ /r (in ³ /r)	Max rpm @ 0 inlet pressure	Max Pressure (psi)
PVB			
5	10.55 (.64)	1800	3000
6	13.81 (.84)	1800	2000
10	21.1 (1.29)	1800	3000
15	33.0 (2.01)	1800	2000
20	42.80 (2.61)	1800	3000
29	61.6 (3.76)	1800	2000



PVQ

SWASHPLATE AXIAL PISTON PUMPS

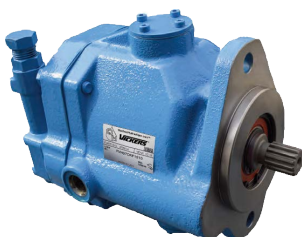


PVQ	13	A2	R	SE	1	S	20	C11	D
1	2	3	4	5	6	7	8	9	10

- 1 Model Series**
PVQ – In-line Piston Pump
Variable Volume Quiet Series
- 2 Displacement**
10 – 10.5 cc/rev (0.64 cir)
210 bar (3000 psi)
13 – 13.8 cc/rev (0.84 cir)
140 bar (2000 psi)
20 – 20 cc/rev (1.28 cir)
210 bar (3000 psi)
32 – 32 cc/rev (2.01 cir)
140 bar (2000 psi)
40 – 41 cc/rev (2.5 cir)
140 bar (3000 psi)
45 – 45.1 cc/rev (2.75 cir)
185 bar (2700 psi)
- 3 Mounting Flange**
A2 – Flange SAE “A” (10/13)
B2 – SAE “B” 2-bolt (20/45)
- 4 Shaft Rotation** (Viewed at shaft end)
R – Right hand (clockwise)
L – Left Hand (counterclockwise)
- 5 Ports, Type and Location**
SE – SAE O-ring rear port
SS – SAE O-ring side port
- 6 Shaft**
1 – Straight keyed
3 – Splined
- 7 Seals**
S – Buna N, standard
F – Fluorocarbon, optional
- 8 Pump Design Series**
20 – (10/13/40/45)
21 – (20/21)
- 9 Control Type**
C11 – Pressure Compensator
CM11 – Low Pressure Compensator
C**V**B12 – Load Sensing
with bleed down orifice
C**V**P12 – Load sensing
without bleed orifice
CG20 – Pressure compensator
modified for hydraulic remote control
CD – Electric dual range pressure
- 10 Control Option**
Blank – Without adjustable Max.
displacement stop (standard)
D – Max. adjustable displacement
stop (optional)

Call us for series that are not listed.

*Please see PVQ Engineering for more detailed model code.



Model Code	Displacement cm ³ /r (in ³ /r)	Max rpm @ 0 inlet pressure	Max Pressure (psi)
PVQ			
10	10.5 (0.643)	1800	3000
13	13.8 (.843)	1800	2000
20	21.1 (1.290)	1800	3000
32	32.9 (2.010)	1800	2000



PVE

SWASHPLATE AXIAL PISTON PUMPS



PVE	21	R	9	30	C10
1	2	3	4	5	6

1 Model Series
PVE – Pump, variable displacement

2 Flow Rating @ 1800 rpm
19 – 19 USgpm (2.5 in³/r)
21 – 21 USgpm (2.7 in³/r)



3 Shaft Rotation (Viewed at shaft end)
R – Right hand (clockwise)
L – Left Hand (counterclockwise)

4 Input Shaft
1 – SAE B-B straight
2 – SAE B-B 15 tooth spline
9 – SAE B 13 tooth spline

5 Pump Design Number
30 – Design SAE side ports
40 – Design SAE rear ports

6 Control Type & Design
C10 – Pressure compensated
(PVE19, 250-3000 psi)
(PVE21, 250-2700 psi)
CG10 – Remote control pressure
compensator adjustable from 350-3000
psi using an external relief valve
CV10 – Load sensing PVE 19/21
CVP12 – Load sensing (160 PSID) with
pressure compensation PVE 19/21
CVPC12 – Load sensing (350 PSID) with
pressure compensation PVE 19/21

Call us for series that are not listed.

*Please see PVE Engineering for more detailed model code.

Model Code	Displacement cm ³ /r (in ³ /r)	Max rpm @ 0 inlet pressure	Max Pressure (psi)
PVE			
19	41 (2.50)	2400	3000
21	45.1 (2.75)	2400	2700



PVH

SWASHPLATE AXIAL PISTON PUMPS



PVH	98	QI	C	R	A	F	2	S	10	C	25	V	31
1	2	3	4	5	6	7	8	9	10	11	12	13	14

1 Model Series
PVH – Piston Pump

2 Maximum Geometric Displacement
57 – 57.4 cm³/r (3.5 in³/r)
74 – 73.7 cm³/r (4.5 in³/r)
98 – 98.3 cm³/r (6.0 in³/r)
131 – 131.1 cm³/r (8.0 in³/r)

3 Design/Application
Blank – Design for mobile applications
QI – Quiet design for industrial applications 4000 psi
QP – Quiet power 2000 psi

4 Mounting Flange, Prime Mover End
C – SAE “C” 4-bolt type
C2 – 2/4 Bolt C mount
C3 – 4 Bolt C Vertical Mount

5 Shaft Rotation (Viewed at shaft end)
R – Right hand (clockwise)
L – Left Hand (counterclockwise)

6 Configuration
Blank – Non-thru-drive (single pump)
A – Thru-drive pump with SAE “A” 2-bolt rear flange mounting
B – Thru-drive pump with SAE “B” 2 and 4-bolt rear flange mountings
C – Thru-drive pump with SAE “C” 2 and 4-bolt rear flange mountings
S – Adjustable maximum volume stop (Non-thru drive and non-torque control models only)

7 Main Ports
F – SAE 4-bolt flange ports

8 Shaft-End Type, at Prime Mover End
1 – SAE C straight keyed
2 – SAE C splined 14 tooth
3 – SAE CC splined 17 tooth
12 – SAE D splined 13 tooth
13 – SAE CC straight keyed
16 – SAE D straight keyed

9 Shaft Seal, Prime Mover End
S – Single, one way
D – Double, two way

10 Pump Design Number
10 – With case to inlet check
11 – No case to inlet check

11 Pressure Compensator and Adjustment Range
C – 140-280 bar (2000-4000 psi)
CM – 35-140 bar (500-2000 psi)
IC – CETOP 3 interface

12 Pressure Compensator Factory Setting in Tens of Bar
7 – Normal factory setting of 70 bar (1015 psi) for “CM” models
25 – Normal factory setting of 250 bar (3625 psi) for “C” models

13 Additional Control Functions
Blank – No additional controls
V – Load sensing, 20 bar (290 psi)

14 Control Design Number
31 – C, CM, C**V, or IC controls

*Please see PVH Engineering for more detailed model code.



Model Code	Displacement cm ³ /r (in ³ /r)	Max rpm @ 0 inlet pressure	Max Pressure (psi)
PVH			
57	57.4 (3.5)	2400	3625
74	73.7 (4.5)	2200	3625
98	98.3 (6.0)	2100	3625
131	131.1 (8.0)	2000	3625



PVB, PVE, PVH & PVQ PARTS



PUMPS / POMPES

