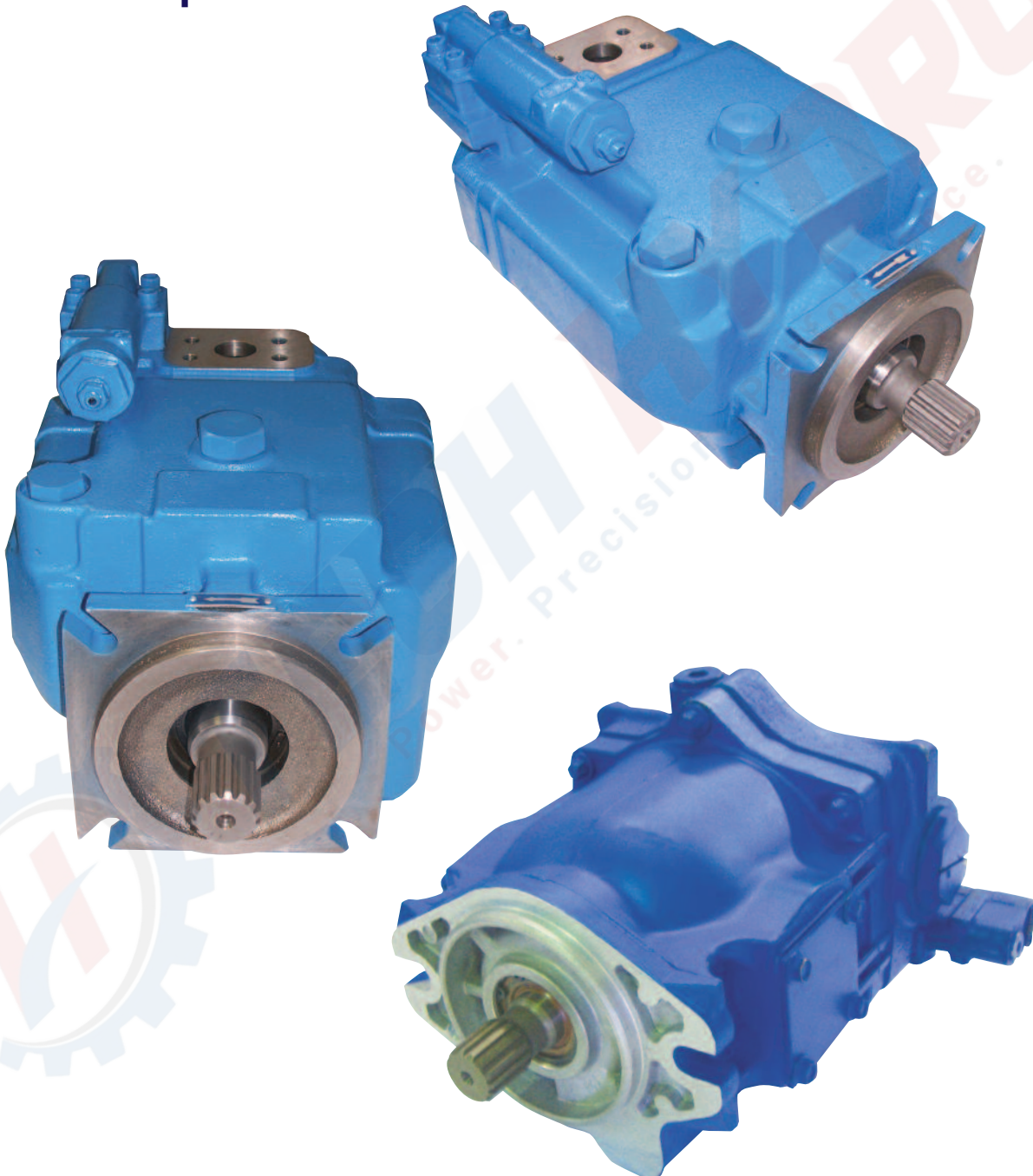


PVH, PVB, PVQ & PVE Piston Pumps & Parts



Model Codes



PVB – Variable Displacement Piston Pump

PVB	5	R	S	Y	20	CG	C	11
1	2	3	4	5	6	7	8	9

1

Model Series

PVB –Variable displacement pump

2

Displacement

5 – 10.55 cm³/r (0.64 in³/r)
 6 – 13.81 cm³/r (0.84 in³/r)
 10 – 21.10 cm³/r (1.29 in³/r)
 15 – 33.00 cm³/r (2.01 in³/r)
 20 – 42.80 cm³/r (2.61 in³/r)
 29 – 61.60 cm³/r (3.76 in³/r)

3

Shaft Rotation (Viewed at shaft end)

R – Clockwise
 L – Counter Clockwise

4

Displacement Zone

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

5

Shaft Type

Y – SAE models P*B5 through 15 only

6

Pump Design Number

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

7

Displacement Control Options

C – Pressure Compensator
 Pressure adjustment range:
 17 to 210 bar (250 to 3000psi)
 CM – Pressure Compensator
 Pressure adjustment range:
 17 to 100 bar (250 to 1500 psi)
 CG – Remotely adjustable
 pressure setting

8

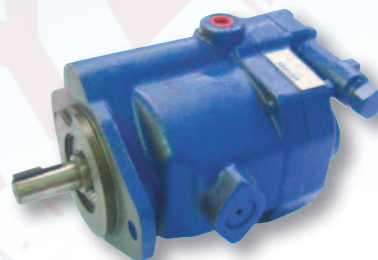
Optional Features

C – Adjustable Maximum
 Displacement Stop

9

Compensator Design

11 – “C” and “CM” control
 20 - “CG” control



*All manufactures names and part numbers are used for reference only.

PVQ - Variable Displacement Piston Pump

PVQ	13	A2	R	SE	1	S	20	C-11	D
1	2	3	4	5	6	7	8	9	10

1

Model Series

PVQ –Inline 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)

3

Mounting Flange

A2 – Flange SAE “A”
 B2 – SAE “B” 2-bolt

4

Rotation Viewed from shaft end

R – Right hand, standard
 L – Left hand, optional

5

Ports, Type and Location

SE – SAE O-ring rear port
 SS – SAE O-ring side port

6

Shaft, Inputs

1 – Straight keyed SAE “A” modified
 (.75” dia. X 1.75” long)
 3 – Splined SAE “A” modified
 (9T 16/32 DP major dia. Fit)

7

Seals

S – Buna N, standard
 F – Fluorocarbon, optional

8

Pump Design Series

20

9

Control Type

C-11 – Pressure Compensator
 CM-11 – Low Pressure Compensator
 C**V**B-12 – Load Sensing
 with bleed down orifice
 C**V**P-12 – Load sensing
 without bleed orifice
 CG-20 – pressure compensator
 modified for hydraulic remote control

10

Control Option

Blank – Without adjustable Max.
 displacement stop (standard)
 D – Max. adjustable displacement
 stop (optional)

*All manufactures names and part numbers are used for reference only.

100% New Pumps & Parts

PVE - Variable Displacement Piston Pump



PVE	21	R	9	30	C-10
1	2	3	4	5	6

1 Model Series
PVE – Pump, variable displacement

2 Flow Rating @ 1800 rpm
19 – 19 USgpm
21 – 21 USgpm



3 Shaft Rotation (Viewed from shaft end)
R – Right Hand (Clockwise)
L – Left Hand (Counter Clockwise)

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

5 Pump Design Number
30 – Design

6 Control Type & Design

C-10 – Pressure compensated
(PVE19, 250-3000 psi)
(PVE21, 250-2700 psi)

CG-20 – Remote control pressure compensator adjustable from 350-3000 psi using an external relief valve

CV-10 – Load sensing PVE 19/21

CVP-12 – Load sensing (160 PSID) with pressure compensation PVE 19/21

CVPC-12 – Load sensing (350 PSID) with pressure compensation PVE 19/21

*All manufactures names and part numbers are used for reference only.

PVH - Variable Displacement Piston Pump

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

4 Mounting Flange, Prime Mover End
C – SAE “C” 4-bolt type

5 Shaft Rotation
(viewed at prime mover 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 12/24 D.P
3 – SAE “CC” splined 17 tooth 12/24 D.P
12 – SAE “D” splined 13 tooth 12/24 D.P
13 – SAE “CC” straight keyed
16 – SAE “D” straight keyed

9 Shaft Seal, Prime Mover End
S – Single, one way
D – Double, two way
Recommended on second pump of tandem assembly (PVH**/PVH**) and “wet mount” applications

10 Pump Design Number
10 (Subject to change, installation dimensions unaltered for design numbers 10 to 19 inclusive.

11 Pressure Compensator and Adjustment Range
C – 70-250 bar (1015-3625 psi)
CM – 40-130 bar (580-1885 psi)

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

*All manufactures names and part numbers are used for reference only.

TECHNICAL DATA

Model Code	Displacement cm ³ /r (in ³ /r)	Max RPM @ 0 inlet pressure	Max Pressure (psi)
PVB			
PVB5	10.55 (.64)	1800	3000
PVB6	13.81 (.84)	1800	2000
PVB10	21.1 (1.29)	1800	3000
PVB15	33.0 (2.01)	1800	2000
PVB20	42.80 (2.61)	1800	3000
PVB29	61.6 (3.76)	1800	2000
PVQ			
PVQ10	10.5 (0.643)	1800	3000
PVQ13	13.8 (.843)	1800	2000
PVQ20	21.1 (1.290)	1800	3000
PVQ32	32.9 (2.010)	1800	2000
PVE			
PVE19	41 (2.50)	2400	3000
PVE21	45.1 (2.75)	2400	2700
PVH			
PVH57	57.4 (3.5)	2400	3625
PVH74	73.7 (4.5)	2200	3625
PVH98	98.3 (6.0)	2100	3625
PVH131	131.1 (8.0)	2000	3625

