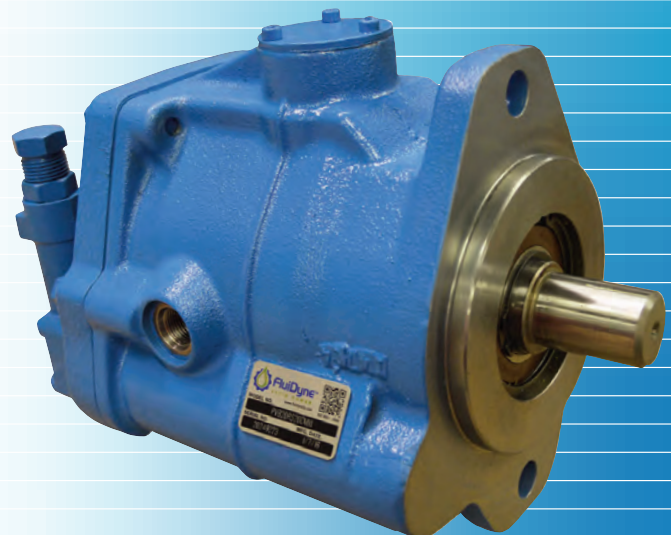
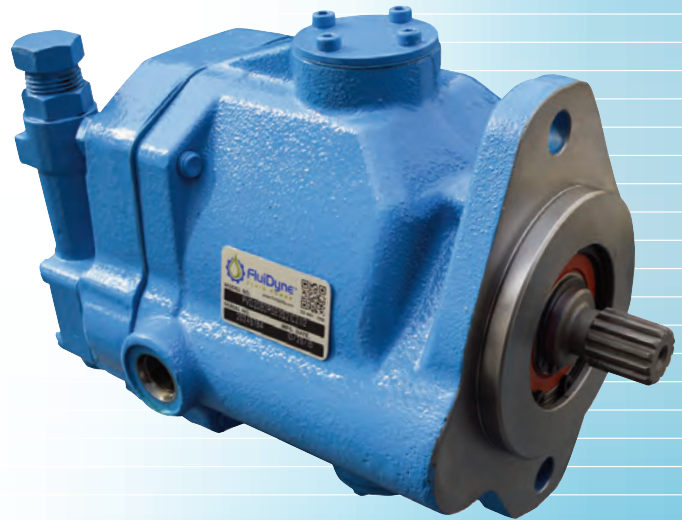
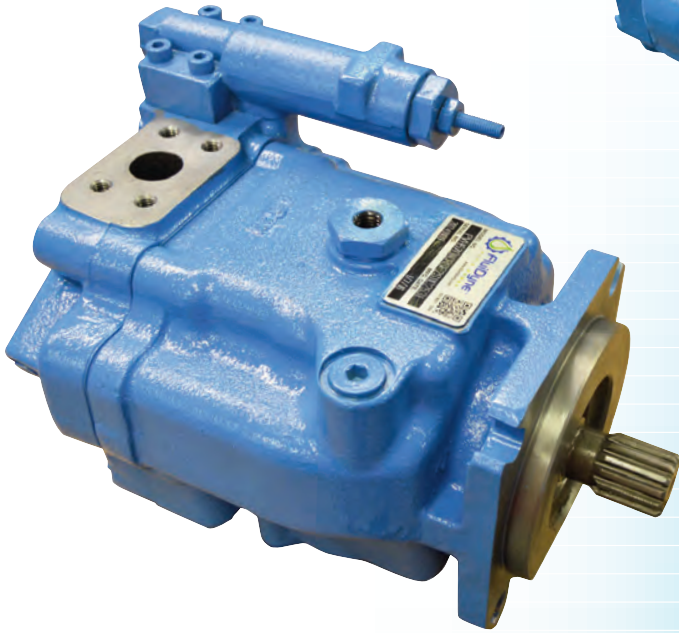




PVB, PVE, PVH & PVQ Piston Pumps & Parts

- For Mobile or Industrial Use
- Pressures to 250 bar/3625 psi
- Single or Thru-Drive
- Same Day Shipment



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Our strength is our people. We focus on personal development and a long term commitment to our staff. We recognize knowledgeable people are a valuable part of the service a business organization provides. We stress a commitment to learning and customer support at every level of the FluidDyne organization. Accounting, Customer Service, Engineering, Inventory, Management, Manufacturing, Quality and Shipping all work together to serve our customer. We believe in treating everyone inside and outside the company with professionalism and respect.

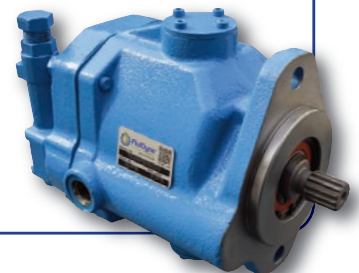
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- End customer protection
- Extensive Michigan inventory
- ISO Certified 9001:2015
- New FluidDyne and remanufactured products
- Outstanding customer service
- Performance you have come to expect
- Same day shipments
- Standard & modified products
- Multiple test stands which allow for quick 100% testing of all units shipped



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Model Code Breakdown

PVB – Variable Displacement Piston Pump

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 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

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)
*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.

PVE - Variable Displacement Piston Pump

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.

Piston pumps are available in quantities to support OEM builders.

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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 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 mount
B – Thru-drive pump with SAE “B” 2 and 4-bolt rear flange mount
C – Thru-drive pump with SAE “C” 2 and 4-bolt rear flange mount
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.

PVQ - Variable Displacement Piston Pump

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

- 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 – 3/4" Keyed
3 – 5/8"-9T 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**
C21-12 – Pressure Compensator
CM7-12 – Low Pressure Compensator
C**V**B13 – Load Sensing with bleed down orifice
C**V**P13 – Load sensing without bleed orifice
CG30 – Pressure compensator modified for hydraulic remote control
CD21-21 – Electric dual range pressure
- 10 Control Option**
Blank – Without adjustable Max. displacement stop (standard)
D – Max. adjustable displacement stop (optional)
- 11 Special Pump Option**
S2 – Shaft up mounting

*Please see PVQ Engineering for more detailed model code.

Call us for series that are not listed.

TECHNICAL DATA

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
45	94.5 (5.76)	1800	3000
PVE			
19	41 (2.50)	2400	3000
21	45.1 (2.75)	2400	2700
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
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
40	41 (2.50)	1800	3000
45	45.1 (2.75)	1800	2700



We stock parts for PVB, PVE, PVH, PVQ Piston Pumps.

FluidDyne supports the distributors providing local knowledge and assistance to fluid power customers.

Our people provide extensive support:

- Engineering expertise
- Decoding special part numbers
- Identification of parts within units
- Advice on component repair and assembly
- Component failure analysis
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