



**Western[™]
Fluidyne**

New Piston Pumps & Parts



Excellence
Under
Pressure[™]

www.wfdyne.com

Our Promise: People make the difference

Western FluidDyne sources from some of the world's newest progressive and technically advanced manufacturers. We are able to consistently produce high quality remanufactured Vickers, Racine, Denison, Oil Gear, Char-Lynn, and Rexroth pumps, motors, and valves. We also carry a complete line of New FluidDyne products to replace Vickers, Racine, Char-Lynn and Rexroth units in OEM and user applications. These products are 100% interchangeable in fit, form and function and are backed by over thirty years of hydraulic application, service and manufacturing experience.

Western FluidDyne is one of the very few hydraulic remanufacturing facilities in the world with ISO 9001 certification. We approach your technical problems, shipment demands and cost challenges in the simplest way possible. We

don't stand on formality but work within our entire system to get you what you need when you need it. We consider ourselves your inside technical support group and our people will go out of their way to meet your needs.

We maintain a massive inventory with a machining, finishing, assembly, and quality control operation in Fraser, MI. Our units and parts inventory allow us to ship a wide range of standard and modified products "same day". Prior to shipment, products undergo a complete documented pressure and flow performance test. These test results are printed on the bottom of your packing list and all products are given a two-year warranty. One of the reasons customers buy from Western FluidDyne is our consistent high quality (one of the lowest return rates in the industry) and because we provide:

- New FluidDyne and Remanufactured Products
- Outstanding Customer Service
- Custom Proprietary software allows immediate & accurate technical support, quoting, order entry & bill of material information
- Two year warranty
- Standard & Modified Products
- Extensive Michigan Inventory
- Twelve test stands that allow for quick 100% testing of all units shipped
- ISO Certified
- End Customer Protection
- Performance you have come to expect
- Blind Drop Shipments

**WE CAN INTERCHANGE
FROM VICKERS
(AND OTHER BRANDS)
TO NEW WFD AND
SAVE YOU MONEY!**



Model Codes

PVB – Variable Displacement Piston Pump

PVB	5	R	S	Y	20	C	G	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**
31 – PVB10 and PVB15
20 – all other models

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)

8 **Pressure Compensator Variations**
G – Remotely adjustable pressure setting

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
1	2	3	4	5	6	7	8	9

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)

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

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

These new pumps are available in quantities to support OEM builders.
Competitive Prices • Superior Quality

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
31 – PVB10 and PVB15
20 – all other models

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)
Y – SAE models P*B5 through 15 only



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)	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



Extensive Parts Inventory for PVB, PVQ, PVE and PVH Piston Pumps.

Email: sales@westernfluidyne.com

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PUMPS, MOTORS, VALVES, & FILTERS

▲ Genuine WFD

■ Remanufactured products

● Aftermarket

◆ Veljan

**RAPID
RESPONSE**

ON REQUESTS
FOR QUOTES &
DELIVERY

PUMPS & MOTORS

VICKERS / EATON

VHO / VQ Single, Double & Triple

- ▲ ■ 20, 25, 30, 35, 45, 50 (V/VQ)
- ▲ ■ 2520, 2521, 3520, 4520, 4525, 4535 (V/VQ)
- ▲ ■ Cart Kits available for all sizes

*Caterpillar part numbered pumps also available

Round Pumps

- V104/5, V108/9, V110/1, V124/5, V128/9, V134/5
- V144/5, V148/9, V350/3/6, V360/1/2, V368/9/70
- VC108, 138, 148 Combination Pumps

Motors

- MHT 32, 50, 70, 90, 150, 250, 330, 440
500, 660, 750, 1000
- 25M, 26M, 35M, 36M, 45M, 46M, 50M

Square Pumps

- ▲ ■ V10 N/F, V20 N/F
- ▲ ■ V10, V20, V2010, V2020

Piston Pumps

- ▲ ■ PVH 57, 74, 98, 131, 141
- ▲ ■ PVE 12, 19, 21, 27, 35, 47, 62
- MVE 12, 15, 19, 21
- MFE 15, 19
- ▲ ■ (M) PVB / (M) FB 5, 6, 10, 15, 20, 29, 45, 90

Transmissions

- TA6, 15, 19

RACINE

- ▲ ■ PSV 10, 15, 20, 25, 40
- ▲ ■ PSV 80, 100
- ■ PVF, PVQ, PVR
- ■ PVK, PVT, PVS

CHAR-LYNN

- H Series
- S Series
- 1000, 2000 Series
- 4000, 6000 Series

DENISON

- T6
- M4C, M4D, M4E
- PV 6, 10, 15, 20, 29

REXROTH

- ▲ ■ A10V (S) 018, 45, 71,
100, 140

OILGEAR

- PVW (W) (H) 06, 10,
15, 20, 34, 45, 60

VELJAN

- ◆ VT6C, VT6D, VT6E
- ◆ VT6CC, VT6DC, VT6EC, VT6ED
- ◆ VM4C, VM4D

VALVES

Pressure Controls

- X (C) G or T 03, 06, 10
- ▲ ■ DGM STAK

Check Valves

- CG5
- 4CT, 4CG
- DT8P1
- ▲ ■ Sandwich, flow, pressure and
Check Modules for D03 & D05

Directional Valves

- ▲ ■ D03-DG4V3
- D08-DG5S4, DG5S8
- ▲ ■ DG17S/V 03, 06

Needle Valves

- ▲ ■ 1/8, 1/4, 3/4, 1-1/2

Relief Valves

- CT / CG / CS / CF 03, 06, 10

*We also carry remanufactured Relief, Racine & Double "A" valves

FILTERS

WFD has a full range of replacement
filter elements and filter housings for:

- Pall
- Schroeder
- Hycon
- Hydac
- Vickers
- Rexroth
- Parker
- Zinga

WestMax™ is interchangeable
with Duramax filters in fit, form
and function.

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Filter**

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