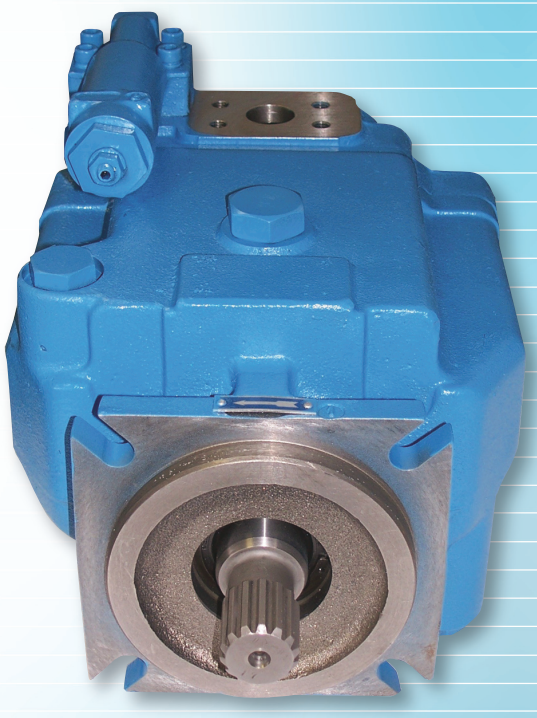
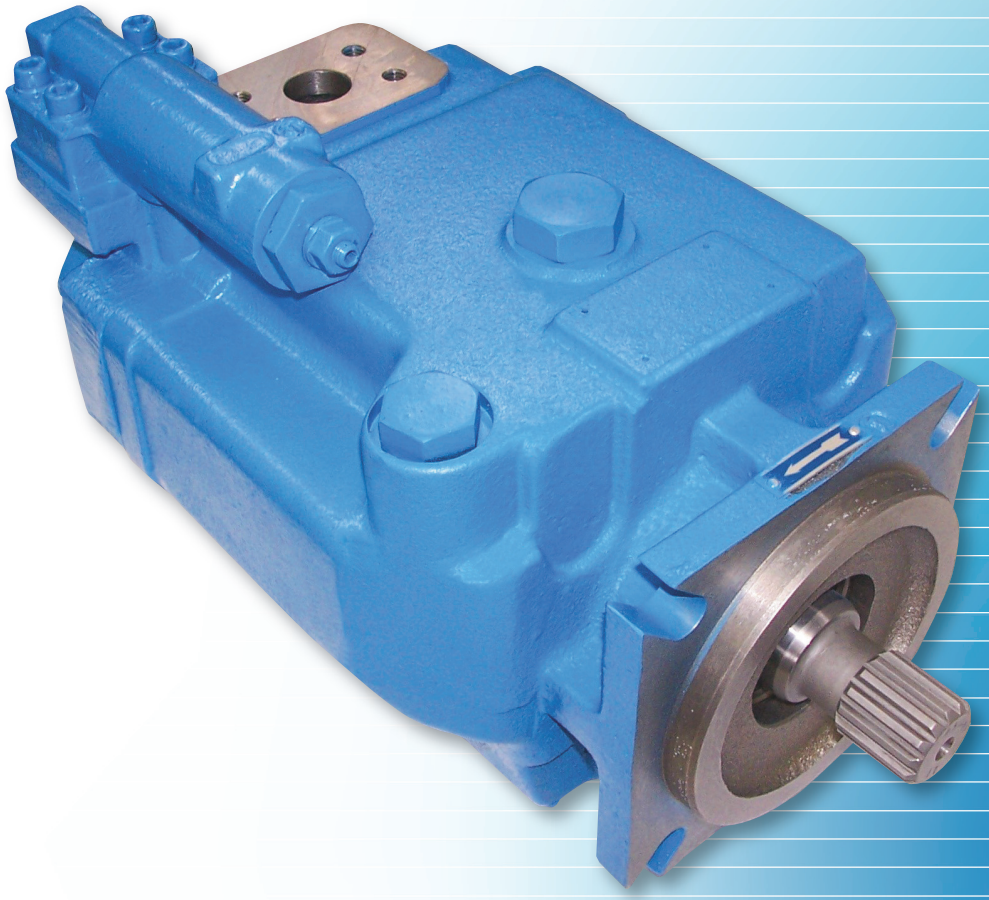
FluiDyne™
FLUID POWER

PVH 74/81 Piston Pumps & Parts



- For Mobile or Industrial Use
- Pressures to 250 bar/3500 psi
- Single or Thru-Drive
- Same Day Shipment



www.FluiDyneFP.com

Our People Make the Difference

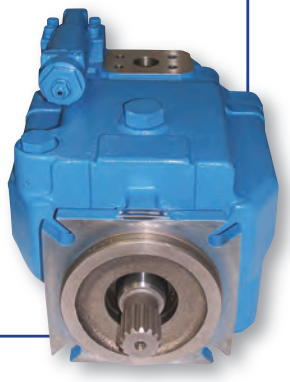
Our promise at FluiDyne is to provide the fluid power industry with high quality, fully tested and technically supported hydraulic pumps, motors and valves. We understand and value the local service and support provided by repair shops, resellers and distributors to the OEM's and users of fluid power applications. We do not compete with our customers; rather we work with our channels as partners in their success and to advance the technology of fluid power.

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 FluiDyne 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.

Application and technical support for our products is easy access, and we pride ourselves in not having a switchboard or phone tree. The person, who picks up the phone, helps the customer. We like it simple, we like it direct. Our inventory is extensive and our people are skilled at assembly, modifications and testing. Our product leaves the factory fast (often the same day)and it leaves correct, tested and documented. If there is a mistake, work hard to make it right, quickly and fairly.

Please call or email to learn more about FluiDyne. Our products and people make us special.

- **18 month warranty**
- **Blind drop shipments**
- **Custom proprietary software allows immediate & accurate technical support, quoting, order entry & bill of material information**
- **Extensive Michigan inventory**
- **ISO Certified 9001:2008**
- **New FluiDyne 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**



NATIONAL FLUID POWER ASSOCIATION NFPA MEMBER

ISO 9001:2008 REGISTERED FIRM

FLUIDYNE FLUID POWER OVER 35 YEARS OF QUALITY 1976-2018

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Model Code Breakdown

1	2	3	4		5	6	7		8	9		10		11	12	13	14		15	16	17
PVH	74	QI	C2	-	R	A	F	-	2	S	-	11	-	C	25	V	*	-	*	31	036

1 Piston pump, variable displacement

2 Maximum geometric displacement

74-73.7 cm^3/r (4.5 in^3/r)

81-80.9 cm^3/r (4.94 in^3/r)*

3 Application style

Blank- Mobile application (rated speed & 250/280 bar (3600-4000 psi) pressures)

QI- Quiet industrial application (1500-1800 rpm & 250/280 bar (3600-4000 psi) pressures)

QP- Quiet power unit application (1800 rpm & 140 bar (2000 psi) max. pressures R.H. rotation only)

4 Mounting flange, prime mover end

C- SAE "C" 4-bolt type (SAE J744-127-4)

C2- Optional combination 2-& 4 bolt SAE-C pilot* (027 suffix)

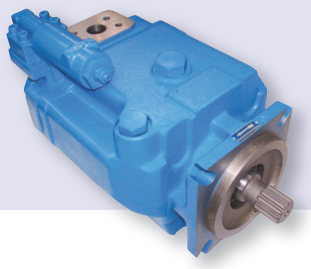
C3- Optional 4-bolt SAE-C pilot for vertical pump mounting* (057 suffix)

M- Optional metric 4-bolt pilot ISO 3019/2-125B4HW (must be used with 'N' shaft option)*

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- SAE-A thru-drive pump, standard (SAE J744-82-2)

B- SAE-B thru-drive pump, optional (SAE J744-101-2/4)

C- SAE-C thru-drive pump, optional (SAE J744-127-2/4)

S- Adjustable maximum volume stop ("S" option not available on thru-drive and torque control pump models)

7 Main Ports

F- SAE 4-bolt flange ports (standard)

M- SAE 4-bolt pads with metric mounting bolt threads

8 Shaft-end type, at prime mover end

N – Metric ISO short straight key (ISO 3019/2-E32N for "M" pilot only)

1 – SAE-C straight keyed

2 – SAE-C 14 tooth spline

2 – SAE-C 14 tooth spline thru

3 – SAE-CC 17 tooth spline

3 – SAE-CC 17 tooth spline thru

13 – SAE-CC straight keyed

13 – SAE-CC straight keyed thru

9 Shaft Seal, prime mover end

S – Single, one way

D – Double, two way

10 Pump design number

10– With case to inlet check valve

11– No case to inlet check valve

11 Pressure control type

C – Compensator, 140-280 bar (2000-4000 psi)

CM – Compensator, 35-140 bar (500-2000 psi)

IC – CETOP 3 interface compensator, 20 bar factory "differential" pressure setting (QI and QP models only)

12 Factory compensator pressure setting

Blank- Leave blank for "IC" controls only

7- 70 bar (1015 psi) normal "CM7" setting (all pump sizes)

23- 230 bar (3335 psi) normal "C23" setting (63, 81, 106, 141 models)

25- 250 bar (3625 psi) normal "C25" setting (57, 74, 98, 131 models)

13 Optional pressure control functions

Blank- Leave blank for basic compensator controls of IC models

V- Load sensing, 20 bar (290 psi) factory "differential" pressure setting

T*- Torque limiting control (used with sections 14 and 15*

VT- Load sensing with torque limiting*

VB- Load sensing with internal bleed down (0.15" dia. orifice)

VBT- Load sensing with internal bleed down and torque limiting

14 Torque limiting control pressure setting

Blank- Leave blank if no torque limiting control is used

4*- Standard minimum 40 bar setting of "T" torque control option

15 Torque limiting control summation

Blank- Standard torque control

S*- Optional torque control with summation feature

16 Control design feature

31- All control options

17 Special feature suffix

027- 2/4 Bolt mount

036- #2 "C" spline shaft in thru-drive pumps

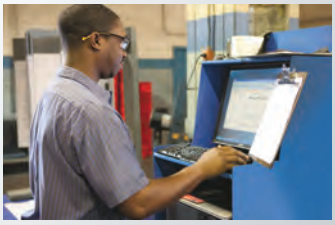
057- Vertical mount

*Available in Reman. Contact our customer service team!

FluiDyne 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
- Massive local stock
- New application component selection
- Same day shipment
- 18 month warranty



Reman Units & Parts Available for Racine, Oilgear, Bosch, Continental and More!

Powered by Customer Service!

Call, email, chat…we're ready to help!

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FLUID POWER

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For most recent brochure, and information on our other products please visit www.fluidynefp.com

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7/2018