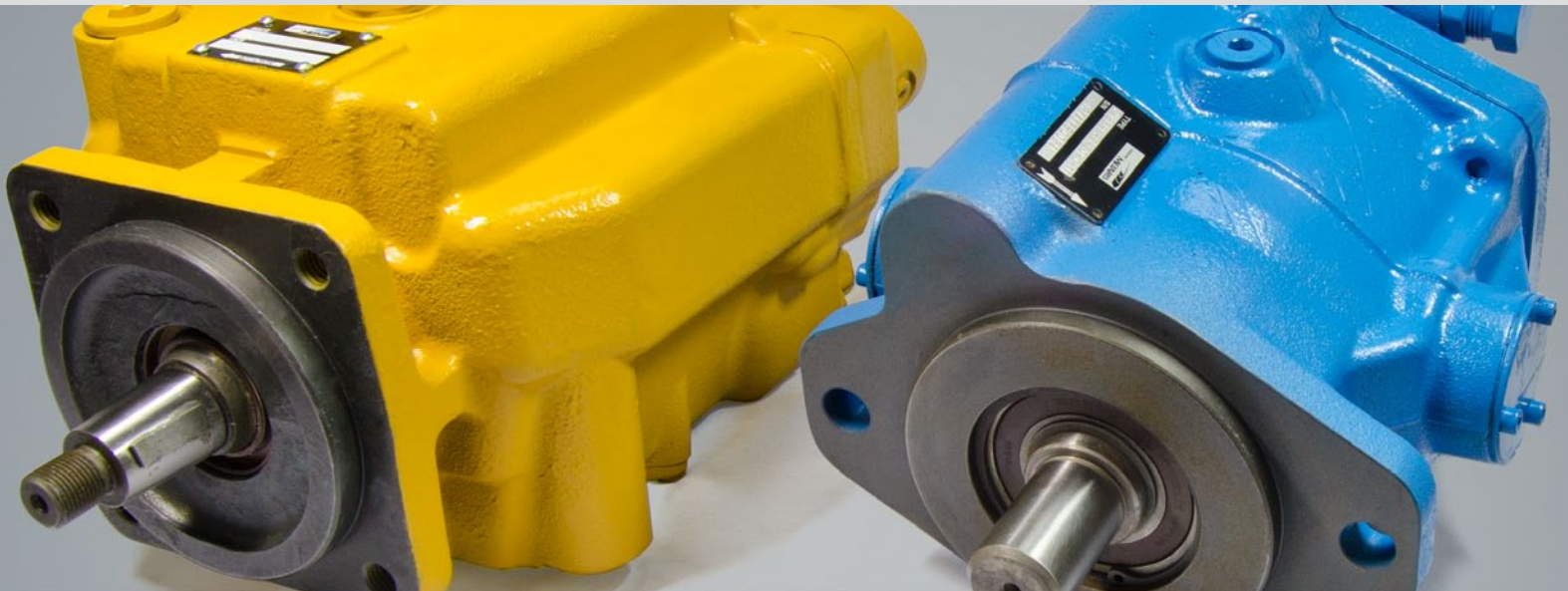


# Genuine Metaris MHPVB & MPVH Series Pumps

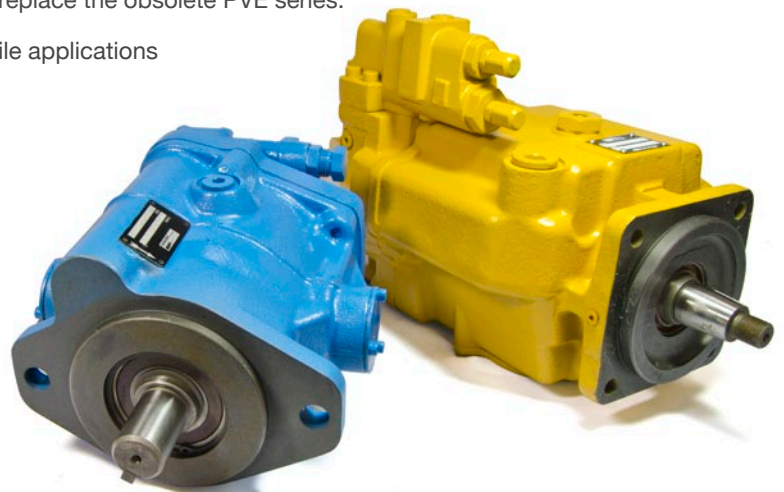
Durable, Versatile and Provide a Long Service Life



## High Performance Pumps for Industrial and Mobile Applications

Our MHPVB in-line variable displacement piston pumps have excellent operating features and are capable of operating with many types of hydraulic fluid. These units are durable and offer a long service life, which makes them suitable for the industrial market. Available in six displacements to meet the demands of many applications. Engineered around heavy duty construction and the durability of the cradle bearing design, we have our MPVH line of piston pumps. This series of pumps are ideally suited for the mobile market and are available in four displacements. Furthermore, our line of MPVH series pumps replace the obsolete PVE series.

- High flow, high performance pumps for industrial and mobile applications
- Heavy duty, compact housings
- Compact and lightweight
- Engineered for long service life
- High performance, highly efficient with a variety of hydraulic fluids
- Versatile designs - single pumps, thru-drive pumps
- Multiple drive shaft options and control options
- Heavy duty bearings and shafts
- Interchangeable with Vickers® PVB and PVH series



# Built for Industrial Applications

## Model Code Breakdown

**MHPVB - 5 - R - S - Y - 40 - C - C - 11**

**Series**  
MHPVB

**Pump Size**

- 5 = 10.55 cm<sup>3</sup>/r (0.64 in<sup>3</sup>/r)
- 6 = 13.81 cm<sup>3</sup>/r (0.84 in<sup>3</sup>/r)
- 10 = 21.10 cm<sup>3</sup>/r (1.29 in<sup>3</sup>/r)
- 15 = 33.00 cm<sup>3</sup>/r (2.01 in<sup>3</sup>/r)
- 20 = 42.80 cm<sup>3</sup>/r (2.61 in<sup>3</sup>/r)
- 29 = 61.60 cm<sup>3</sup>/r (3.76 in<sup>3</sup>/r)

**Rotation**

- R = Right (Clockwise Rotation)
- L = Left (Counter-Clockwise Rotation)

**Displacement Zone**

- S = One side of center  
(Pressure Compensated models only)

**Shaft Type**

- Y = SAE models PVB5 thru 15 only  
(Both Keyed and Splined Shafts are available for all models)

**Control Design Number**  
11 = 'C' and 'CM' controls  
20 = 'CG' control

**Optional Features**  
C = Adjustable Maximum Stop

**Pressure Control Type**  
C = Pressure Compensator, (250-3000 psi on 5, 10, 20 models; 250-2000 psi on 6, 15, 29 models)  
CG = Remotely Adjustable Pressure Setting  
CM = Pressure Compensator, 17-100 bar (250-1500 psi)  
CVP = Pressure Limiter/Load Sensing

**Pump Design Number**  
40 = 5 or 6 displacement  
40 = 10 or 15 displacement  
20 = 20 or 29 displacement

## MHPVB Series Piston Pumps

Pump Series	Displacement (in <sup>3</sup> / cm <sup>3</sup> )	Max RPM	Flow at 1800 RPM (gpm / lpm)	Operating Pressure (psi)
MHPVB5	.643 / 10.5	3600	5 / 19	3000
MHPVB6	.843 / 13.8	3200	6.5 / 24.6	2000
MHPVB10	1.29 / 21.2	3200	10 / 37.8	3000
MHPVB15	2.01 / 33	3000	15.7 / 59.4	2000
MHPVB20	2.61 / 42.8	2400	20 / 75.7	3000
MHPVB29	3.76 / 61.7	2400	29 / 109.7	2000



# Built for Mobile Applications

## Model Code Breakdown

**MPVH - 57 - QI - C - R - A - F - 2 - S - 11 - C - 25 - V**

**Series**  
MPVH

**Pump Size**  
57 = 57 cm<sup>3</sup>/r (3.5 in<sup>3</sup>/r)  
74 = 74 cm<sup>3</sup>/r (4.5 in<sup>3</sup>/r)  
98 = 98 cm<sup>3</sup>/r (6.0 in<sup>3</sup>/r)  
131 = 131 cm<sup>3</sup>/r (8.0 in<sup>3</sup>/r)

**Application**  
Blank = Mobile  
QI = Quiet Industrial  
(1500-1800 rpm @ 250/280 bar)

**Mounting Flange**  
C = SAE 'C' 4-Bolt  
C2 = Optional 2/4-Bolt Mount 5" Pilot  
C3 = Optional 4-Bolt SAE 'C' Pilot for Vertical Mounting

**Rotation**  
R = Right (Clockwise Rotation)  
L = Left (Counter-Clockwise Rotation)

**Configuration**  
Blank = Non Thru-Drive (Single Unit)  
A = SAE 'A' Thru-Drive Pump, Standard  
(SAE 'A' 2-Bolt Rear Flange Mounting)  
B = SAE 'B' Thru-Drive Pump, Optional  
(SAE 'B' 2/4-Bolt Rear Flange Mounting)  
C = SAE 'C' Thru-Drive Pump, Optional  
(SAE 'C' 2/4-Bolt Rear Flange Mounting)  
S = Adjustable Max Volume Stop

**Additional Control Functions**  
Blank = No Additional Controls  
V = Load Sensing, 20 bar (290 psi)

**Pressure Setting**  
25 = 250 bar (3625 psi) Standard Setting  
\* = Special Settings Available

**Pressure Control Type**  
C = Compensator, 140-280 bar (2080-4000 psi)  
CM = Compensator, 35-140 bar (50-2000 psi)  
CV = Load Sense Controller

**Pump Design Number**  
11

**Shaft Seal**  
S = Single, one-way  
D = Double, two-way

**Shaft Type**  
1 = SAE 'C' Straight Key  
2 = SAE 'C' 14 tooth Spline  
3 = SAE 'CC' 17 tooth Spline  
5 = Tapered Keyed  
8 = SAE 'BB' 15 tooth Spline (57 size only)  
10 = 14 tooth Spline (57 & 74 size only)  
24 = 19 tooth Spline (57 size only)

**Thru-Drive Shafts**  
2 = 14 tooth Thru-Drive (98 size only)  
3 = 17 tooth Thru-Drive (74 & 98 size only)  
5 = Tapered Thru-Drive (98 size only)  
10 = 14 tooth Spline Thru-Drive  
(74 & 98 size only)

**Main Ports**  
F = SAE 4-Bolt Flange ports (Standard)  
M = SAE 4-Bolt Pads with Metric threads

## MPVH Series Piston Pumps

Pump Series	Displacement (in <sup>3</sup> / cm <sup>3</sup> )	Max RPM	Flow at 1800 RPM (gpm / lpm)	Operating Pressure (psi)
MPVH57	3.47 / 57	2400	27 / 102	3600
MPVH74	4.5 / 74	2200	35 / 132	3600
MPVH98	5.9 / 98	2100	46 / 176	3600
MPVH131	8.0 / 131	2000	59 / 223	3600



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