







NACHI AMERICA INC.

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PVS Piston Pump - Thru Shaft Series

Features

Energy-Saving Type with Drastically Reduced Loss

A NACHI-proprietary semi-circular barrel swash plate that receives pressure on its surface ensures a stable discharge volume at all times. This eliminates excess discharge volume, and enables the

effective use of power corresponding to the load cycle.

This "energy-saving type" conserves energy, reduces power loss, and helps to reduce hydraulic costs.

Silent Type That Demonstrates Its Power Quietly

Proprietary low-noise mechanisms are incorporated on the shoe, swash plate, valve plate, and other locations to ensure silent operation. In particular, a semi-circular barrel swash plate stabilizes operation characteristics to ensure silent operation.

Dimensional Drawings



A sub-plate is necessary

PVS-0B-8N3-K-E5737A

Volume:	.48 cu in (8 cc)
Max. Operating Pressure:	3000 psi
Allowable Peak Pressure:	3600 psi
Rotational Speed (max.):	1800/500 min ⁻¹
Rotational Direction:	Clockwise
Mounting Direction:	Horizon for pump shaft
Control Type:	Pressure compensation type
Mass:	16.9 lbs
Fluid:	Anti-wear Hydraulic fluid
	ISO VG32-68
Optimum Operating	
Viscosity:	20~200 centistokes
Temperature Range:	40~140° F
Suction Pressure:	4.3 psi
Drain Back Pressure:	14 psi
Peak Pressure:	28 psi
Filteration Suction:	150 mesh
Line:	10 micron



Setting of pressure and the displacement upon shipment P: Minimum pressure

q: Maximum pump capacity

Note:

Thru-drive allowable torque (Ts: Shaft side pump, TH: Head side pump)



1. Add shaft side torque to head side torque, and handle total torque less than 95.5 N \cdot m 2. Pull total torque out of shaft side torque, and handle head torque less than 60 N \cdot m

1. Before starting up the pump, fill the pump case with clean hydraulic operating fluid through the lubrication port (13.4 cu in)

2. The maximum presure (set pressure + surge pressure) that can be momentarily allowed.

3. Please refer to the standard catalog and instruction manual for the instruction of this pump.

PVS Series Variable Volume Piston Pumps

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28 psi

150 mesh

10 micron

Peak Pressure:

Suction:

Line:

Filteration





1. Before starting up the pump, fill the pump case with clean hydraulic operating fluid through the lubrication port (39 cu in)

2. The maximum presure (set pressure + surge pressure) that can be momentarily allowed.

Please don't adjust screw (* part) because it's already been adjusted upon shipping.
Please refer to the standard established and instruction menual factors instruction of this screw.

3. Please refer to the standard catalog and instruction manual for the instruction of this pump.



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