

Series PHP10 Variable Volume, Piston Pumps

Bulletin 2600-108/USA



Performance Information Series PHP10 Pressure Compensated, Variable Volume, Piston Pumps

Features

- High Strength Cast-Iron Housing for Reliability and Quiet Operation
- Optional Inlet/Outlet Locations for Ease of Installation
- Replaceable Bronze Port Plate
- Replaceable Piston Slipper Plate
- Low Noise Levels Promote More Comfortable
 Operating Environment
- Fast Response Times
- · Metric Pilot, Shaft, and Ports Available

Controls

- Pressure Compensation
- Remote Pressure Compensation
- Load Sensing
- Torque (Horsepower) Limiting
- Adjustable Maximum Volume Stop
- Low Pressure Standby

Schematic Symbol

(Basic Pump)



Special Installation or Fluids

Consult your Parker representative on applications requiring higher than rated pressure, over-speed conditions, indirect drive, fluids other than mineral base fluid, and operation at temperatures above 160°F (71°C).



Specifications

Pressure Ratings						
Outlet Port:	5000 PSI (345 bar) Continuous (P1) 5500 PSI (380 bar) Peak (P3)					
Inlet Port:	25 PSI (1.72 bar) Maximum 5 In. Hg. Minimum @ 1800 RPM (See inlet chart for other speeds.)					
Case Drain:	5 PSI Maximum Differential over Inlet Port. 15 PSI Maximum					
Speed Ratings:	600 to 3000 RPM					
Operating Tempera	ature Range: -40° F to 160° F $(-40^{\circ}$ C to 71° C)					
Housing Material:	Cast-Iron					
Filtration:	Maintain SAE Class 4, ISO 16/13, ISO 18/15 Maximum					
Mounting:	SAE "A" 2-Bolt or Metric					
Installation Data:						

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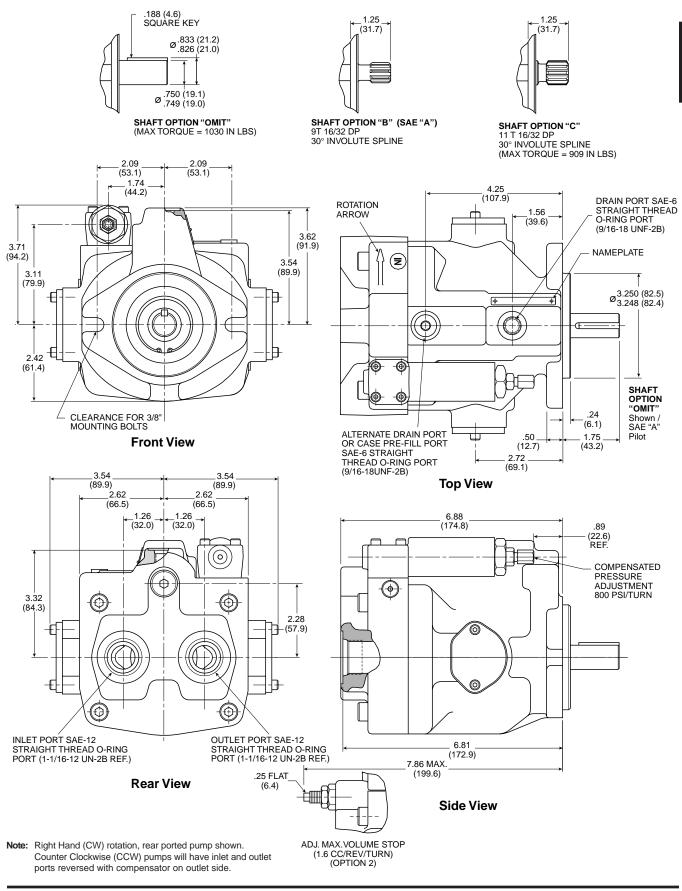
See "Installation Information" on page A116 of Catalog 2600-102-1/USA for specific recommendations pertaining to system cleanliness, fluids, start-up, inlet conditions, shaft alignment, drain line restrictions and other important factors relative to the proper installation and use of these pumps.

Quick Reference Data Chart												
Pump Model	Displacement cc/rev (In³/rev)	Pump Delivery @ 400 PSI (28 bar) in GPM (LPM)		*Approx. Noise Levels dB(A) @ Full Flow 1800 RPM (1200 RPM)						Horsepower At 1800 RPM, Max.		
				500 PSI (34 bar)	1000 PSI (69 bar)	2000 PSI (138 bar)	3000 PSI (207 bar)	4000 PSI (275 bar)	5000 PSI (345 bar)	Displacement & 5000 PSI		
		1200 RPM	1800 RPM	(34 Dal)	(09 bar)	(150 bal)	(207 bar)	(275 bar)	(345 bar)	3000 F 31		
PHP10	10 (0.6)	3.0 (11.4)	4.8 (18.2)	64 (60)	64 (60)	66 (62)	67 (63)	68 (64)	70 (66)	15		

* Since many variables such as mounting, tank style, plant layout, etc., effect noise levels, it cannot be assumed that the above readings will be equal to those in the field. The above values are for guidance in selecting the proper pump. Noise levels are A-weighted, mean sound pressure levels at 1 meter from the pump, measured and recorded in accordance with applicable ISO and NFPA standards.

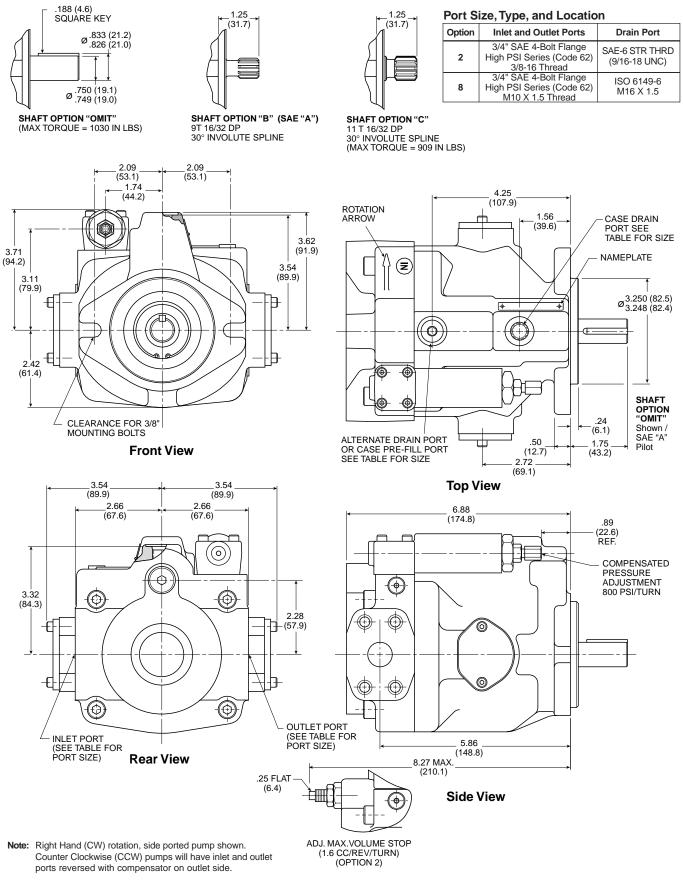


Dimensions - Rear Ported Pump

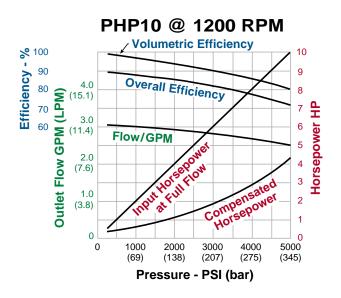


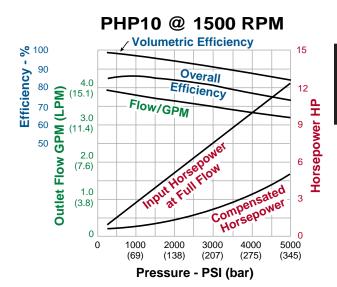


Dimensions - Side Ported Pump





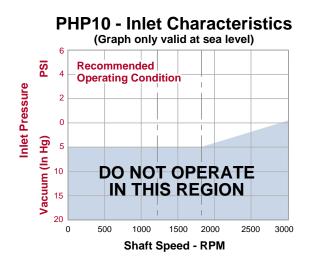




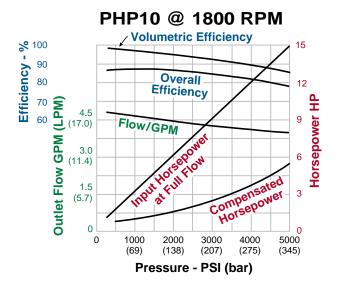
Note: Compensated horsepower curves are shown for the standard pressure compensator option. For remote type compensators the compensated horsepowers will be 10-15% higher.

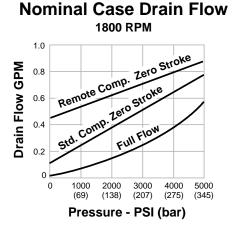
Note: The efficiencies and data in the graphs are accurate for pumps running at speeds shown and maximum stroke. To calculate approximate horsepower for other conditions, use the following formula...

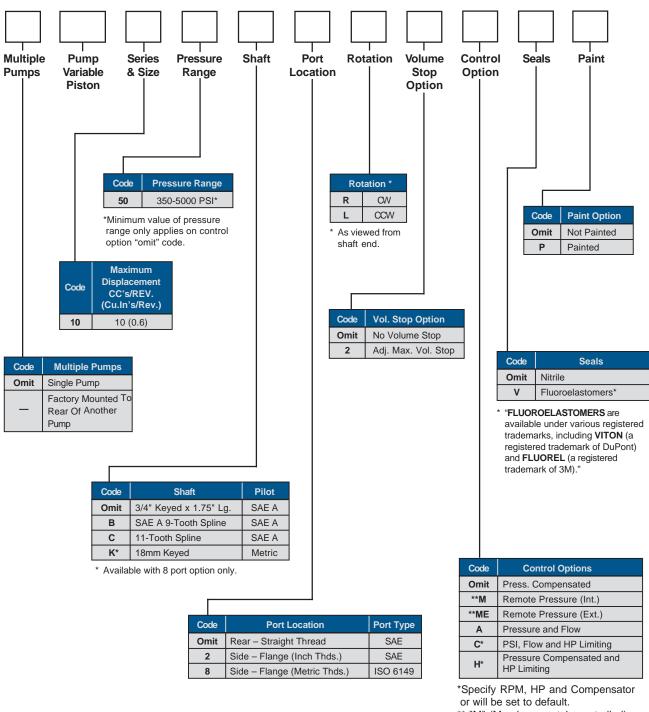




Par Ker Hydraulics







** "M" (May be remotely controlled)"ME" (Requires external pilot)