

P1/PD Piston Pump

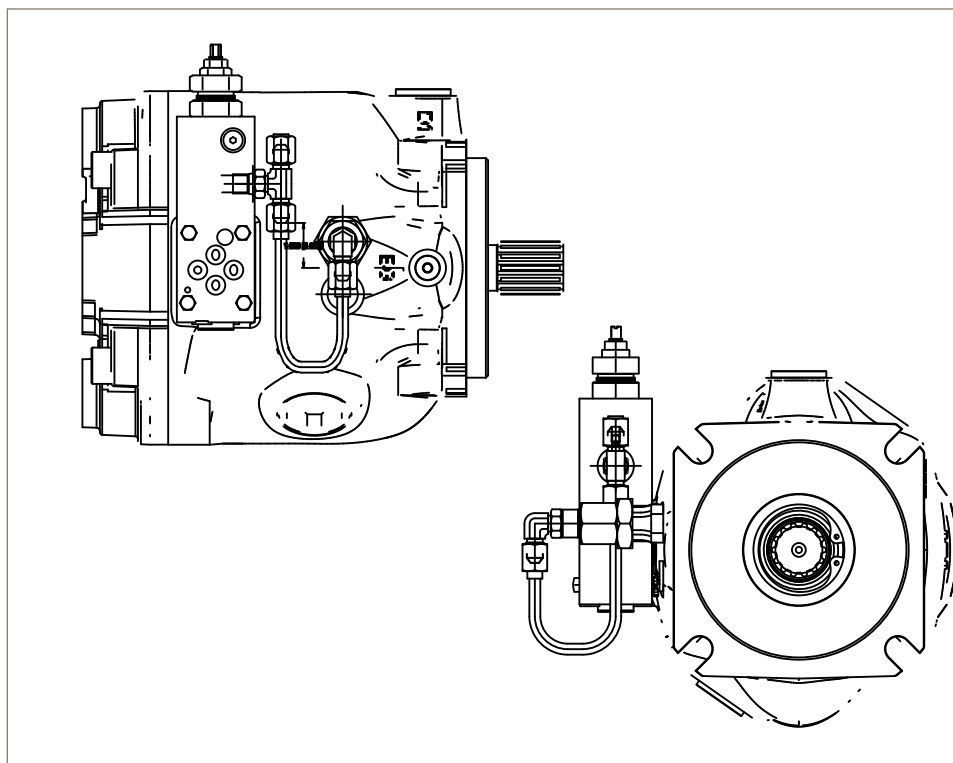
Torque Limiter

Horse Power Control Option For 45 through 140 cc Models Of Their P1/PD Line Of Quiet, Compact Variable Piston Pumps For Mobile, Industrial Applications



Parker Hannifin's Hydraulic Pump Division has announced that a new optional torque limiter is now available for 45 through 140 cc models of their P1/PD series of medium pressure (280 bar/4,060 psi), variable displacement, axial-piston pumps intended for open circuit applications on mobile equipment (P1) and industrial applications (PD).

The P1/PD series pumps are based on a new design featuring a compact, round housing that is both smaller and quieter than conventional pumps with comparable capabilities. The optional torque limiter rounds out the selection of hydromechanical controls available for the P1/PD pumps and is available in five different configurations for customers who will benefit from automatic torque limiting in their applications.



Torque Limiter Applications:

The torque limiter adjusts flow in the circuit to keep the prime mover from stalling under heavy loads. The primary benefit in a hydraulic system is that you can reduce the maximum horsepower available and still handle the same load without stalling. This is a very significant capability in the mobile and industrial applications.

To accomplish this, the torque limiter control monitors both pressure and displacement as measured by the pump's hanger angle. It is a single spring unit that works with either the Parker "A" compensator, a ventable pressure limiter, or a load sensing or remote venting circuit.

As pressure rises, flow is reduced according to the zero adjustment spring rate of the torque limiter. When pressure has risen to its full value, control is assumed by the compensator. The torque limiter normally functions down to 20% of corner horsepower, but lower adjustments are possible at the expense of peak pressure.



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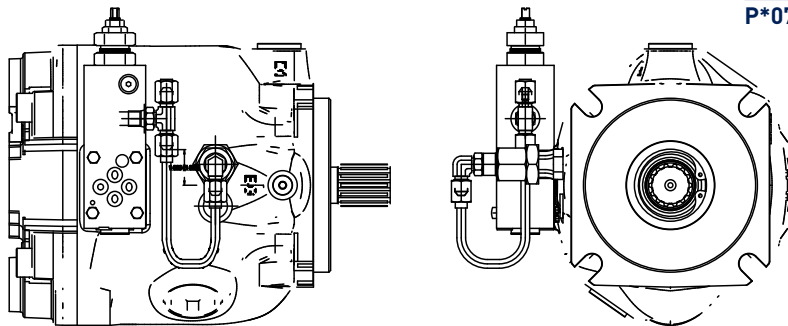
Parker P1-PD pumps are rated for continuous operation up to 2600 rpm depending on displacement and design-optimized for mobile equipment and industrial applications. Standard options include a full power through drive,

a choice of SAE and ISO mounting flanges and ports, end or side inlet and outlet ports, and case drain ports for horizontal, vertical, or shaft-up mounting.

For additional information contact:

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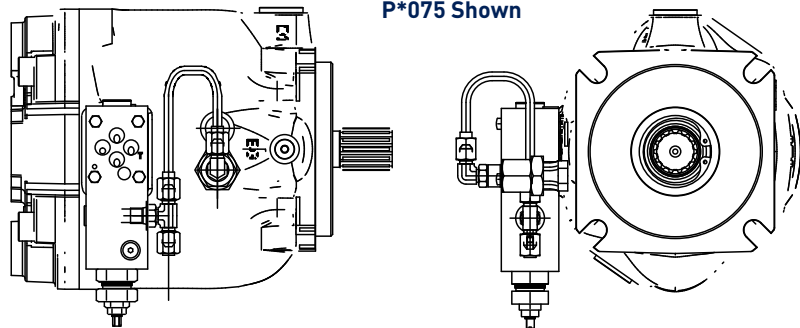
Torque Limiter AMT Control



**CW Orientation
P*075 Shown**

Additional Control Options

- Load sensing
- Pilot operated pressure limiter with mechanical adjustment and vent port
- Pilot operated pressure limiter with mech. adj. and vent port with ISO4401 interface & shipping cover
- Pilot operated pressure limiter with mech. adj. and vent port with electrical adjustment 12 VDC
- Pilot operated pressure limiter with mech. adj. and vent port with electrical adjustment 24 VDC



**CCW Orientation
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