



Dual Path Mobile Pumps

Marketing Bulletin

350 Series



More Compact,
More Capable,
More Competitive

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The 350 Series mobile pump is an advanced, closed circuit, servo controlled, axial piston design offered as either a single or dual pump (two pumps in one housing) for medium duty hydrostatic circuits. These pumps can be combined with an Eaton motor to transfer and control hydraulic power in many different ways.

The 350 series pump offers a full range of product features and has the ability to match the needs of many different customer platforms. It supports increased power requirements in Agricultural, Construction and Utility markets and allows for a wide variety of installation opportunities for global machine design.

350 Series Servo Controlled Piston Pump

Full Range of Controls

- Mechanical Servo and Hydraulic (non-feedback)
- Electro-proportional "EP"
- Proportional valve control with electronic swash plate feedback
 - Non-contacting sensor
 - Fast response, precise, real-time pump control
 - Best electro-hydraulic control for mobile hydrostatic transmissions available on the market today*

* Interface requires proprietary Eaton electronic control or control algorithms

Typical Applications

- Pavers, Rollers
- Telescopic Booms
- Boring Machines
- Trenching Machines
- Sweepers
 - Small Sprayers
 - Telehandlers
 - Stump Grinders
- Compact Wheel Loaders
- Rough Terrain Fork Lifts
- Material Handling Equipment
- Skid Steer Loaders
- Windrowers/Sprayers

Features

- Symmetrical 4-Bolt design
- Polyacrylate Shaft Seal
- 15-Tooth splines, 14-Tooth splines, Taper Input Shafts
- Case Drains location (one connection needed)
- Shaft mounted on Tapered roller bearings
- Optional Speed Pickup Location
- Swash plate bearings
- Same Side or Opposite Side Main Work Ports

Key Customer Benefits

- Larger Displacements (62 cc)
- Larger Shafts (14-Tooth SAE C input, 15-Tooth SAE B-B output)
- 56 kW (75 Hp) Through Put shaft capability
- Higher Continuous Pressure Capability - 280 Bar (4000 PSI)
- Higher Rated Pressure Capability - 380 Bar (5500 PSI)
- Fewer Parts - Simplified Design, Improved Reliability
- Short Overall Length - 398,6 mm (15.7 in)
- Swash Plate Bearing - less control hysteresis, more robust
- 56 kW (75 Hp) through put shaft capability available under full 350 series pump load

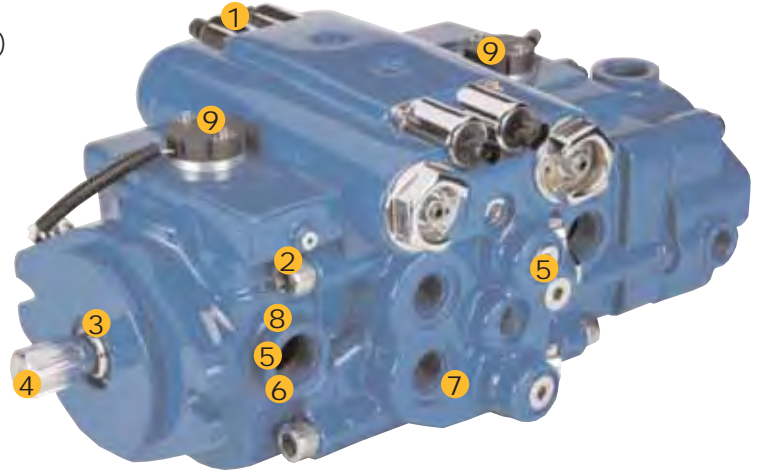


350 Series Servo Controlled Piston Pump

- 1 Solenoid Displacement Control
- 2 Symmetrical 4 Bolt Design
- 3 Polyacrylate Shaft Seal
- 4 15-Tooth Splines
14-Tooth Splines
Taper Input Shafts

Shaft Mounted on
Tapered Roller Bearings

- 5 Case Drains Location
(one connection needed)
- 6 Optional Speed Pickup Location
- 7 Same Side or Opposite Side Main Work Ports
- 8 Swash Plate Needle Bearings
- 9 Swash Plate Position Sensors



350 Series:

Continuous Pressure:
280 Bar (4000 psi)

Rated Pressure:
380 Bar (5500 psi)

Displacements:
41cc (2.50 cid), 49 cc (3.00 cid), 62 cc (3.8 cid).

Estimated weight for a 350 series pump with opposite side main ports with charge pump - 81.8 Kg (181 lbs).

	UNITS	41	49	62
Displacement	cc/rev (cid)	41 (2.50)	49 (3.00)	62 (3.80)
Input Speed	Min RPM	500	500	500
	Max RPM	3600	3600	3600
Continuous Pressure	Bar (psi)	280 (4000)	280 (4000)	280 (4000)
Rated Pressure	Bar (psi)	380 (5500)	380 (5500)	380 (5500)
Charge Pressure	Bar (psi)	15-31 (220-450)	15-31 (220-450)	15-31 (220-450)
Flow at Rated Speed	LPM (GPM)	139 (37)	166 (44)	210 (56)
Mounting		2-Bolt SAE B	2-Bolt SAE B	
		4-Bolt SAE C	4-Bolt SAE C	2-Bolt SAE C
		2-Bolt SAE C	2-Bolt SAE C	4-Bolt SAE C



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