Efficient, reliable, high-pressure performance

Eaton high-pressure variable piston pumps are optimized for the most demanding applications.

The Eaton Series 2 high-pressure variable piston pump is the go-to high pressure variable piston pump for all propel, work, and auxiliary function needs. With a competitive package and broad control offering, we are able to meet customer expectations of a highly accurate, efficient and reliable product in the field. In addition, if flexibility in your design is key; our direct acting independent pressure override relief (IPOR) valves provide faster pump response time, allow for different pressure setting for differing functionalities such as forward and reverse drives. Lastly, IPOR allows differing pressure capability from system relief valves that lower overshoot and heat generation in your system.

The Series 2 pump is a drop-in replacement for competitive pumps, so you can change your pump without changing your existing machine design. Experience the high-pressure variable piston pump that is smaller in size but offers the same product value as the Eaton Series 1 variable piston pump.

**Benefits**
- Same rotating group & reliability as Eaton Series 1 pump
- High rated speed capability – Up to 4,165 RPM
- Direct acting independent pressure override relief
- Integrated charge pump
- Same or opposite side porting

**Applications**
- Combines
- Transit mixers
- Asphalt pavers
- Wheel loaders
- Compactors
- Forestry equipment
- Oil & gas machinery
- Mining equipment

**Controls**
- Electronic proportional control
- Manual displacement control
- Forward-neutral-reverse control
- Hydraulic remote control
- Proportional solenoid control
Specifications

Model | 64 | 75 | 89 | 105
---|---|---|---|---
Displacement cm³/r (in³/r) | 64 (3.9) | 75 (4.6) | 89 (5.4) | 105 (6.4)
Input mounting flange | SAE C | SAE C | SAE C | SAE C
Max. Shaft Speed* RPM @ Max. Displ. | 4165 | 4165 | 3720 | 3720
Nominal Pressure* bar (psi) | 430 (6250) | 430 (6250) | 430 (6250) | 430 (6250)
Peak Pressure** bar (psi) | 500 (7250) | 500 (7250) | 500 (7250) | 500 (7250)
| 2.25 (40) | 13.8 (200) | 2.25 (40) | 13.8 (200)
Output Flow l/min @ 240 bar | 256 (79.5) | 301 (84.1) | 318 (99.4)
nominal Pressure* bar (psi) | 2.25 (40) | 13.8 (200) | 2.25 (40) | 13.8 (200)
Input flow rate | 255 (67.2) | 301 (79.5) | 318 (84.1) | 376 (99.4)
Output Flow gal/min @ 3500 psi | 105 cm³/r | 89 cm³/r | 75 cm³/r | 64 cm³/r
| 6.4 in³/r | 5.4 in³/r | 4.6 in³/r | 3.9 in³/r
Input torque N·m @ 240 bar | 256 (2278) | 303 (2694) | 358 (3189) | 424 (3771)
lbf·in @ 3500 psi | 58 kg (126 lbs) | 58 kg (128 lbs) | 81 kg (178 lbs) | 81 kg (178 lbs)
Weight (opposite side porting) | 2,25 (40) | 13,8 (200) | 2,25 (40) | 13,8 (200)
Temperature rating | 82°C (180°F) | 82°C (180°F) | 82°C (180°F) | 82°C (180°F)

* Nominal Pressure: Max delta system pressure at which component fatigue does not occur (pump life estimated by bearing life).
** Peak Pressure: Max operation pressure which is permissible for a short duration of time (t < 1 sec).

Performance data

System pressure ............. 240 bar (3500 psi)
Oil viscosity ............... 10 cst (60 sus)
Temperature ............ 82°C (180°F)

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