

Clutch Gear Pumps

GGP Cast Iron Series



**EATON**

*Powering Business Worldwide*



# Continuous Pressure that satisfies global customer demands.

Eaton GGP Cast Iron series clutch gear pumps satisfy global customer demands. Customers need pumps that are durable, quieter, competitively priced, readily available, and, most importantly, operate at 4000 psi (280 bar) continuous pressure. The design is made of fixed bushing, pressure balanced, with all parts – flange, center body, & endcover in cast iron. This pump is available in:

- A-Cast Iron Series (Group 2)



Displacements from 0.49 in<sup>3</sup>/rev (8.0 cm<sup>3</sup>/rev) to 2.20 in<sup>3</sup>/rev (36.0 cm<sup>3</sup>/rev). Max. pressure up to 4495 psi (310 bar). Max. speed up to 3600 rpm.

## High-Value Feature Set

- Continuous operating pressures to 4000 psi (280 bar)
- 10 pump sizes – from 0.49 in<sup>3</sup>/rev (8.0 cm<sup>3</sup>/rev) to 2.20 in<sup>3</sup>/rev (36.0 cm<sup>3</sup>/rev).
- High grade cast iron to meet the high durability requirements of your application
- Versatile side, rear, or both port design
- Continuous operating speeds to 3600 rpm
- Pressure balanced wear plates to maintain high pump efficiency throughout all operating ranges
- Heavy duty, high strength shaft and bushing design in a small frame size
- 3-year warranty

## Customer Benefits

- Specifically designed, high wear-resistant bearings to perform in high-pressure & speed environments
- All cast iron design for high temperatures and low noise applications
- High strength material for high durability requirements

## Typical Applications

Eaton GGP Cast Iron Series clutch gear pumps are ideal for mobile equipment including:

- Snow plows
- Light duty equipment
- Lift Trucks
- Farm vehicles
- Tow trucks
- Cherry pickers
- Lift gates
- Utility vehicles
- Aerial devices
- Hoists
- Spreaders



## Technical Data

### GENERAL SPECIFICATIONS

Mounting flange	SAE 2 Bolt A
Drive Shaft	Clutch pump 1:4 tapered, 5/16-24 thd. (internal)
Ports	SAE threaded o-ring boss
Operation Viscosity	8 cSt Min. 2000 cSt Max. at start up under load (16-40 cSt optimum)
Max Torque at 0 Pressure	5.0 N-m (3.7 ft-lb), single section
Min. Operating Temperature	-29°C (-20°F)
Max. Operating Temperature	105°C (220°F)
Max. Inlet Vacuum	6.0 In. Hg. (at operating condition)



### PERFORMANCE DATA FOR GGP A MOUNT CAST IRON

Displacement	cm <sup>3</sup> /r	8.0	10.0	12.7	16.0	19.0	22.2	25.4	28.6	31.8	36.0
	in <sup>3</sup> /r	0.49	0.61	0.77	0.98	1.16	1.35	1.55	1.75	1.94	2.20
Max Continuous Pressure	bar	280	280	280	280	280	250	250	250	250	210
	psi	4060	4060	4060	4060	4060	3625	3625	3625	3625	3045
Max Intermittent Pressure	bar	310	310	310	310	310	280	280	280	280	240
	psi	4495	4495	4495	4495	4495	4060	4060	4060	4060	3480
Rated Speed		3600	3600	3600	3300	3300	3000	3000	3000	3000	3000
Min Output Flow at Continuous Rated Speed & Pressure	LPM	25.3	31.7	40.2	46.5	55.2	58.6	67.1	75.5	84.0	95.0
	GPM	6.7	8.4	10.6	12.3	14.6	15.5	17.7	19.9	22.2	25.1
Input Power at Continuous Rated Speed & Pressure	kW	15.8	19.8	25.1	29.0	34.4	32.7	37.4	42.1	46.8	44.5
	HP	21.2	26.5	33.7	38.9	46.2	43.8	50.1	56.4	62.7	59.6

Note: Performance data was collected using a mineral based oil with a viscosity of 133 SUS at 49°C (120°F)

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