

MP4130-3100 and MP4135-3100 Specifications

Model	Max. Flow		Pressure*		Max. Speed	Max. Temp.*		Power Consumption		Plunger Diameter		Plunger Stroke	
	GPM	l/min	PSI	bar	RPM	°F	°C	BHP	kW	in	mm	in	mm
MP4130-3100	15.4	58.2	1600	110	1100	86	30	17.0	12.7	1.2	30	1.0	26
MP4135-3100	17.9	67.7	1600	110	1100	86	30	19.8	14.8	1.2	30	1.8	30

* 86 °F (30°C) is applicable only for seawater due to reasons of corrosion. For other media, 160 °F (70°C).

Performance

Performance data for intermittent operation, data for continuous operation on request.

For information on intermittent operation and calculating of the performance data, see Giant Industries Plunger Pumps Assembly Instructions.

NPSHR / Inlet pressure

Required NPSH refers to water at 68°F (20°C) at maximum permissible pump speed.

Maximum inlet pressure: 29 PSI (2 bar)

Level of noise emission

Emission sound pressure level: ≤ 84 dB(A)

Fields of application

The fields of application of these pump types correspond to the specifications in the Giant Industries Plunger Pumps Assembly Instructions.

Ambient conditions

Ambient temperature: 40°F < T_{Amb.} < 86°F

Ambient temperature: 5°C < T_{Amb.} < 30°C

Oil filling

- Filling quantity: 33.8 fl. oz. (1.0 L)
- Quality: Industrial gear oil **ISO VG 220** (e.g. Aral Degol BG220) or automotive gear oil **SAE 90 GL4 (Giant's p/n 01154)**
- Intervals: first oil change after **50 operating hours** then every **500 operating hours**, but at the latest after **12 months**.

Installation/ Putting into Operation

Shaft protector

When the pump is in operation, the open shaft end must be covered up by shaft protector (21), the driven shaft side and coupling by a bell housing or belt guard.

To cover the exposed crankshaft end with the shaft guard, position the guard directly over the groove in the middle of the bearing cover and gently tap it into the groove using a plastic hammer.

Direction of pump rotation

Set the direction of rotation of the drive unit according to the direction of rotation arrow on the crankcase.

Suction line filter

Recommended mesh size: 150 µm.

Materials Used

Valve Casing: Aluminum-Bronze

Plunger: Solid Ceramic

Valves: High-Grade Stainless Steel

Seals: Nitrile with fabric reinforcing

O-Rings: Viton

Operation

For information see Giant Industries Plunger Pumps Assembly Instructions.

MP4130-3100 Horsepower Requirements					
RPM	GPM	500 PSI	1000 PSI	1300 PSI	1600 PSI
700	9.8	3.4	6.8	8.8	10.8
800	11.2	3.9	7.7	10.0	12.4
900	12.6	4.3	8.7	11.3	13.9
1000	14.0	4.8	9.7	12.6	15.4
1100	15.4	5.3	10.6	13.8	17.0

MP4135-3100 Horsepower Requirements					
RPM	GPM	500 PSI	1000 PSI	1300 PSI	1600 PSI
700	11.4	3.9	7.9	10.2	12.6
800	13.0	4.5	9.0	11.7	14.4
900	14.6	5.1	10.1	13.1	16.2
1000	16.3	5.6	11.2	14.6	18.0
1100	17.9	6.2	12.3	16.0	19.8