

LP121 Specifications

Maximum Flow		Pressure*		Maximum Speed	Maximum Temperature		Power Consumption		Plunger Diameter		Plunger Stroke	
GPM	l/min	PSI	bar	RPM	°F	°C	BHP	kW	in	mm	in	mm
24.8	93.8	1600	110	800	160	70	27.2	20.3	1.42	36	1.57	40

Performance data for intermittent operation, data for continuous operation on request.
For information on intermittent operation and calculating of the performance data, see page 2.

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 assembly instructions Giant Industries.

Ambient conditions

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

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

Oil filling

- Filling quantity: 0.79 gal (3.0 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.

To cover the exposed crankshaft end with the shaft guard (21) together with the holder (21A) onto the bearing cover screws (17).

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: Alu-Bronze
Plunger: Solid Ceramic
Valves: High-Grade Stainless Steel
Seals: Nitrile with fabric reinforcing
O-Rings: Nitrile

LP121 HORSEPOWER REQUIREMENTS					
RPM	GPM	500 PSI	750 PSI	1000 PSI	1600 PSI
400	12.4	4.3	6.4	8.6	13.7
500	15.5	5.4	8.0	10.7	17.1
600	18.6	6.4	9.6	12.8	20.5
700	21.7	7.5	11.2	15.0	24.0
800	24.8	8.6	12.8	17.1	27.4