

INSTALLATION INSTRUCTIONS

Performance

	Power Required	Pressure	Max. Speed	Max. Flow	Max. Temp.	Plunger \varnothing	Plunger Stroke	Weight	NPSHR
Model	BHP (kW)	PSI (bar)	RPM	GPM (l/min)	°F (°C)	in (mm)	in (mm)	lbs. (kg)	ft. of head (mWs)
P422	19.2 (13.2)	2610 (180)/ 3000 (200)*	1450	9.9 (37.3)	160 (70)	0.87 (22)	0.94 (24)	38.3 (17.4)	30.5 (9.3)
P420	17.7 (14.3)	2175 (150)	1450	12.8 (48.4)	160 (70)	0.98 (25)	0.94 (24)	38.3 (17.4)	30.5 (9.3)

*Intermittent duty only

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

For information on intermittent operation and calculating of the performance data, see the Giant Industries assembly instructions.

The crankshaft of this series has internal teeth 13T 16/32 (Spline SAE J498b 30° Class 5) for attachment to a hydraulic motor.

A speed sensor M12x1 can be retrofitted.

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: ≤ 88 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: $41\text{ °F} < T_{\text{Amb.}} < 86\text{ °F}$

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

Oil filling

- Filling quantity: 30.4 fl.oz. (0.9 l)
- Quality: Industrial gear oil **ISO VG 220** 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 To Turn Drive Shaft to the Other Side

Remove the valve casing.

Turn the seal adaptors (20) by 180° also so that the leakage holes are underneath.

Remount valve casing rotated by 180°.

Interchange plug (5B) and oil dipstick (2) with each other.

Turn crankcase cover (3) by 180°.

Direction of pump rotation

When looking at crankshaft with valve casing mounted on left-hand side, counterclockwise direction of rotation.

When looking at crankshaft with valve casing mounted on right-hand side, clockwise direction of rotation.

Suction line filter

Recommended mesh size 150 μm .

Materials Used

Valve Casing: Special Brass

Plunger: Solid Ceramic

Valves: High-Grade Stainless Steel

Seals: Nitrile with fabric reinforcing

O-Rings: Nitrile