

GIANT INDUSTRIES PLUNGER PUMPS



Data Sheet with supplementary assembly and safety instructions

In addition to the information in this data sheet, the Giant Industries assembly instructions must be observed.

Performance

	Power Required	Pressure	Max. Speed	Max. Flow	Max. Temp.	Plunger ø	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)
P490	13.0 (9.7)	2000 (140)	1450	15.7 (59.5)	160 (70)	1.18 (30)	0.79 (20)	39.7 (18)	32.8 (10.0)
P490*	21.8 (16.3)	1000 (69)	1750	18.9 (71.7)	160 (70)	1.18 (30)	0.79 (20)	39.7 (18)	32.8 (10.0)
P470	25.8 (19.2)	2000 (140)	1450	18.4 (69.7)	160 (70)	1.18 (30)	0.94 (24)	39.7 (18)	32.8 (10.0)

* Intermittent Rating

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 Plunger Pumps assembly instructions.

NPSHR / Inlet pressure

Required NPSH refers to water at 70 °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 °F < T_{Amb.} < 86 °F

Ambient temperature: 5 °C < T_{Amb.} < 30°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 (26), seal casing (21) together with the seal adaptors (20).

Turn the drive 180° round.

Interchange plug (5B) and oil dipstick (2).

Turn the gear cover (3) 180° round.

Mount the valve casing together with the seal casing and seal adaptors (20).

Making sure that the bores in the seal adaptors face downwards.

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.

Operation

For informations, see Assembly Instructions Giant Industries.

Malfunctions / Remedy

For information, see assembly instructions Giant Industries, Inc.

Material Used

Valve Casing: Special Brass

Plunger: Solid Ceramic

Valves: High-Grade Stainless Steel

Seals: Nitrile with Fabric Reinforcing

O-Rings: Nitrile

Paint

The pump drive is painted in RAL 7004 as standard.