

P465-4000/P485-4000 Specifications

U.S. Measurements

	Power Required	Pressure	Max. Speed	Max. Flow	Max. Temp.	Plunger \varnothing	Plunger Stroke	Weight	NPSHR
Model	BHP	PSI	RPM	GPM	°F	in	in	lbs.	ft. of head
P465-4000	25.2	5800	1450	6.3	104	0.71	0.94	41.9	21.3
P485-4000	26.2	7250	1450	5.3	40	0.71	0.79	41.9	21.3

Metric Measurements

	Power Required	Pressure	Max. Speed	Max. Flow	Max. Temp.	Plunger \varnothing	Plunger Stroke	Weight	NPSHR
Model	kW	bar	RPM	l/min	°C	mm	mm	kg	mWs
P465-4000	18.8	400	1450	23.9	40	18	24	19.0	6.5
P485-4000	19.5	500	1450	19.9	40	18	20	19.0	6.5

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: ≤ 82 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 (26), seal casing (21) together with the seal adaptors (20).

Turn the drive 180° around.

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

Turn the gear cover (3) 180° around.

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.

P465 HORSEPOWER REQUIREMENTS				
RPM	GPM	4000 PSI	5000 PSI	5800 PSI
1000	4.3	12.0	15.0	17.4
1100	4.8	13.2	16.4	19.1
1200	5.2	14.4	18.0	20.8
1300	5.6	15.6	19.4	22.6
1450	6.3	17.4	21.7	25.2

P485 HORSEPOWER REQUIREMENTS					
RPM	GPM	4000 PSI	5000 PSI	6000 PSI	7250 PSI
1000	3.6	10.0	12.5	15.0	18.1
1100	4.0	11.0	13.7	16.5	19.9
1200	4.3	12.0	15.0	18.0	21.7
1300	4.7	13.0	16.2	19.4	23.5
1450	5.3	14.5	18.1	21.7	26.3