

# P54W, P58W & P59W PUMP SPECIFICATIONS

## 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)
P54W	11.5 (8.6)	4000 (280)	1450	4.0 (15.1)	140 (60)	0.63 (16)	0.71 (18)	19.4 (8.8)	23 (7.0)
P54W	10.8 (8.1)	3250 (224)	1750	4.8 (18.2)					
P58W	12.1 (9.0)	3500 (240)	1450	5.0 (19.0)	140 (60)	0.71 (18)	0.71 (18)	19.4 (8.8)	21.3 (6.5)
P58W	11.1 (8.3)	2700 (186)	1750	6.0 (22.7)					
P59W	10.1 (7.5)	1900 (130)	1450	7.5 (28.3)	140 (60)	0.87 (22)	0.71 (18)	19.4 (8.8)	22.3 (6.8)
P59W	9.4 (7.0)	1510 (104)	1750	9.0 (32.8)					

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.

### NPSHR / Inlet pressure

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

Maximum inlet pressure: 29 PSI (2 bar)

### Level of noise emission

Emission sound pressure level: ≤ 70 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<sub>Amb.</sub> < 86 °F

Ambient temperature: 5 °C < T<sub>Amb.</sub> < 30 °C

### Oil filling

- Filling quantity: **12.5 fl. oz. (0.37 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 **1000 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 (17), the driven shaft side and coupling by a contact-protector.

### 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.

## 7. Operation

For informations, see assembly instructions Giant Industries

P58W HORSEPOWER REQUIREMENTS					
RPM	GPM	2000 PSI	2500 PSI	2700 PSI	3500 PSI
910	3.1	4.2	5.3	5.7	7.4
1025	3.5	4.8	6.0	6.5	8.4
1190	4.1	5.6	7.0	7.6	9.8
1305	4.5	6.2	7.7	8.3	10.8
1450	5.0	6.8	8.6	9.2	12.0
1750	6.0	8.2	10.3	11.1	

P54W HORSEPOWER REQUIREMENTS					
RPM	GPM	2000 PSI	3000 PSI	3250 PSI	4000 PSI
910	2.5	3.4	5.1	5.6	6.8
1025	2.8	3.8	5.8	6.2	7.7
1190	3.3	4.5	6.8	7.3	9.0
1305	3.6	4.9	7.4	8.0	9.9
1450	4.0	5.5	8.2	8.9	11.0
1750	4.8	6.6	9.9	10.7	

P59W HORSEPOWER REQUIREMENTS					
RPM	GPM	500 PSI	1000 PSI	1510 PSI	1900 PSI
910	4.7	1.6	3.2	4.9	6.1
1025	5.3	1.8	3.6	5.5	6.9
1190	6.1	2.1	4.2	6.3	7.9
1305	7.0	2.4	4.8	7.2	9.1
1450	7.5	2.6	5.1	7.8	9.8
1750	9.0	3.1	6.2	9.4	