

# P57 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) |
| P57   | 6.3 (4.7)      | 5000 (350)<br>6500 (450)* | 1420       | 1.3 (5.1)   | 160 (70)   | 0.47 (12) | 0.56 (14.1)    | 17.6 (8)  | 27.9 (8.5)        |

\*Intermittent Duty - Maximum pressures of 6500 PSI (450 bar) only apply for very frequent intermittent operation such as when testing tanks and pipelines whereby the maximum operating pressure is only attained for a very short period of time (a few minutes).

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 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: ≤ 78 dB(A)

### Fields of application

The pump types specified in this data sheet are designed for the following applications:

- testing and pressing pipes and vessels
- process engineering
- high pressure injection-pump

Furthermore, 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: 15.2 fl. oz. (0,45 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 **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.

#### Operation

For informations, see assembly instructions Giant Industries

| P57 HORSEPOWER REQUIREMENTS |     |          |          |          |           |
|-----------------------------|-----|----------|----------|----------|-----------|
| RPM                         | GPM | 3000 PSI | 4000 PSI | 5000 PSI | 6500 PSI* |
| 500                         | 0.5 | 1.0      | 1.4      | 1.7      | 2.3       |
| 750                         | 0.7 | 1.4      | 1.9      | 2.4      | 3.2       |
| 1000                        | 0.9 | 1.9      | 2.5      | 3.1      | 4.1       |
| 1250                        | 1.1 | 2.3      | 3.0      | 3.8      | 5.0       |
| 1420                        | 1.3 | 2.7      | 3.6      | 4.5      | 5.8       |

\*Intermittent duty