

# GP7145(-SSP) & GP7255A(-SSP) PUMP SPECIFICATIONS

## Performance

	Power Required	Pressure	Max. Speed	Max. Flow	Max. Temp.	Plunger $\varnothing$	Plunger Stroke	Weight
Model	BHP (kW)	PSI (bar)	RPM	GPM (l/min)	°F (°C)	in (mm)	in (mm)	lbs. (kg)
GP7145	98 (73.2)	3000 (200)	750	47.5 (180)	140 (60)	1.77 (45)	2.0 (52)	374 (170)
GP7145	124 (93)	3000 (200)	947	60 (227)	140 (60)	1.77 (45)	2.0 (52)	374 (170)
GP7255	68 (51)	1500 (100)	700	65.8 (250)	140 (60)	2.17 (55)	2.0 (52)	374 (170)
GP7255	110 (82)	2000 (140)	851	80 (303)	140 (60)	2.17 (55)	2.0 (52)	374 (170)

1) Figures given for max. pressure and max. speed (rpm) apply to intermittent operation with cold water.

When the pump is used in continuous operation and/or with water warmer than 40°C (100°F), these values must be reduced by 10%.

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.



Use of both suction connections is imperative in order to ensure cavitation-free operation and optimal suction conditions.

If only one connection is used, a safety margin of one meter has to be added to the required NPSH.

The inlet pressure on the suction side must not exceed 29 PSI (2 bar).

### Level of noise emission

Emission sound pressure level: ≤ 91 dB(A)

### Fields of application

The fields of application of these pump types correspond to the specifications in the assembly instructions Giant Industries, Inc.

GP7145 Horsepower Requirements						
RPM	GPM	800 PSI	1000 PSI	1500 PSI	2000 PSI	3000 PSI*
300	19.0	10.5	13.1	19.7	26.2	39.3
400	25.3	14.0	17.4	26.2	34.9	52.3
500	31.7	17.5	21.9	32.8	43.7	65.6
600	38.0	21.0	26.2	39.3	52.4	78.6
750	47.5	26.2	32.8	49.1	65.5	98.3
789	50.0	27.6	34.5	51.7	69.0	103.4
947*	60.0	33.1	41.4	62.1	82.8	124.1

\*Intermittent Duty Only!

### 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: **1.7 gallon (6.5 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 (21), the driven shaft side and coupling by a contact-protector and the plunger room by cover (30).

#### 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, Inc.**

GP7255A Horsepower Requirements						
RPM	GPM	800 PSI	1000 PSI	1300 PSI	1500 PSI	2000 PSI*
479	45.0	24.8	31.0	40.3	46.6	62.1
531	49.9	27.5	34.4	44.7	51.6	68.8
585	55.0	30.3	37.9	49.3	56.9	75.9
638	60.0	33.1	41.4	53.8	62.1	82.8
700	65.8	36.3	45.4	59.0	68.1	90.8
851*	80.0	44.1	55.2	71.7	82.8	110.3

\*Intermittent Duty Only!