BPK7180 PUMP SPECIFICATIONS

Performance

	Power Required	Pressure	Max. Speed	Max. Flow	Max. Temp.	Plunger ø	Plunger Stroke	Weight
Model	**BHP (kW)**	**PSI (bar)**	**RPM**	**GPM (l/min)**	**°F (°C)**	**in (mm)**	**in (mm)**	**lbs. (kg)**
BPK7180	74.0 (55.2)	1000 (70)	540	106 (400)	104 (40)	3.15 (80)	2.05 (52)	379 (172)

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 Pumps assembly instructions.

Inlet pressure
Maximum inlet pressure: 29 PSI (2 bar)

Level of noise emission
Emission sound pressure level: ≤ 91 dB(A)

Fields of application
The pump types specified in this data sheet are suitable for pumping water containing bentonite in a concentration of maximum 55 lbs. (25 kg) of bentonite diluted in 264 gallons (1m^3) of water. Furthermore, the fields of application of these pump types correspond to the specifications in the assembly instructions Giant Pumps.

Ambient conditions
Ambient temperature: 41 °F < $T_{Amb.}$ < 86 °F
Ambient temperature: 5°C < $T_{Amb.}$ < 30°C

Oil filling
- Filling quantity: 2.3 gal. (9 0 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

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 Pumps.



If recycled bentonite is being pumped, the pump must be rinsed for 3-5 minutes with clear water after usage to flush out dirt particles (sand) in the bentonite.
The service life of the seals, cylinder liner and valves depends largely on how fine the recycled bentonite is filtered.



The pump must be emptied if there is a danger of frost. Note that travel wind, for example, can cause water in pumps fitted on open vehicles to freeze even if the outside temperature is above freezing point.

Empty the pump through the second unused suction and discharge connection using compressed air, for example.
Bottom plugs (12) on the suction channel can be opened as well.
The pump can run 'dry' for 1 minute for better draining.

BPK7180 Horsepower Requirements					
RPM	GPM	500 PSI	700 PSI	900 PSI	1000 PSI
270	37.0	12.8	17.9	23.0	25.5
400	54.8	18.9	26.5	34.0	37.8
500	68.5	23.6	33.1	42.5	47.2
540	74.0	25.5	35.7	45.9	51.3