



# SP46 SERIES BOREHOLE PUMPS



## APPLICATIONS

SP pumps are primarily used to pump raw water from underground. The pumps are installed in boreholes or wells submerged below water. They are also suitable for raw water supply, irrigation, ground water lowering, pressure boosting, fountain applications as well as mining.

## CONSTRUCTION FEATURES

Energy optimized ErP ready stainless steel centrifugal submersible pump coupled to asynchronous two pole submersible motor made in AISI 304 stainless steel for parts in contact with water. Cooling and lubrication of the thrust bearing and carbon brushes is provided by a mixture of water and glycol.

## OPERATING CONDITIONS

To ensure long and trouble free life, it is important the following are observed.

### Electrical Protection

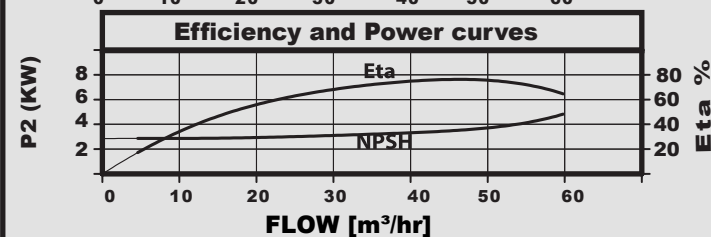
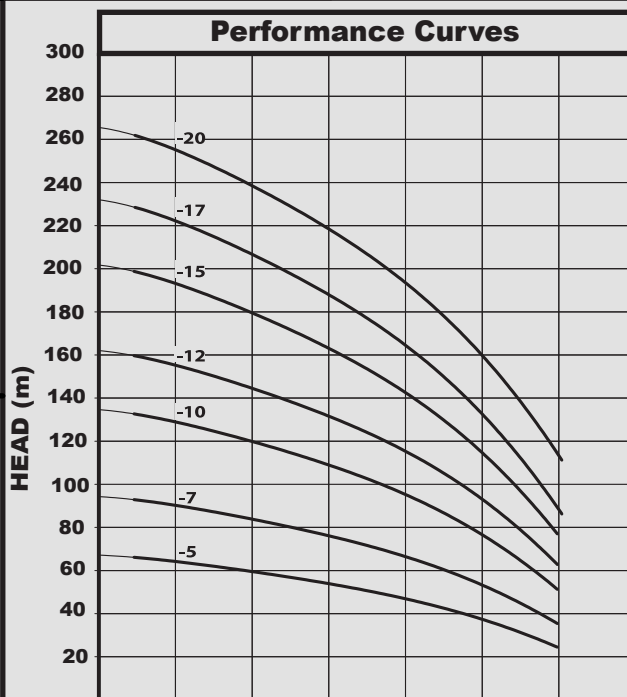
A suitably sized control panel incorporating a Grundfos MP204 controller should be fitted to protect the pump.

### Minimum and Maximum Flow Rate

To ensure sufficient cooling of the motor, the pump must NOT run continuously at a flow rate below 0.1 X nominal flow rate or above 1.3 X nominal flow rate due to upthrust and cavitation.

**Pump Liquids:** Clean, thin, non aggressive liquids not containing solid particles or fibre larger than sand grains.

**Max. Sand content:** 50ppm **Liquid temp:** 40°C **Min. Borehole Diameter:** 200mm **Max. Install. depth below water:** 600m



## TECHNICAL DATA

MODEL	Motor Type	Power (kW)	Full Load Current (A)	Dimensions					Weight [kg]
				A	B	C	D	E	
SP46-5	MS6000	7.5	18.8	1423	577	846	139.5	148	57
SP46-7	MS6000	11	24.8	1709	637	1072			70
SP46-10	MS6000	15	34	2113	702	1411			84
SP46-12	MS6000	18.5	42	2394	757	1637			94
SP46-15	MS6000	22	48	2809	817	1992			108
SP46-17	MS6000	26	57	3095	877	2218			118
SP46-20	MS6000	30	66	3504	947	2557			134

