



### 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

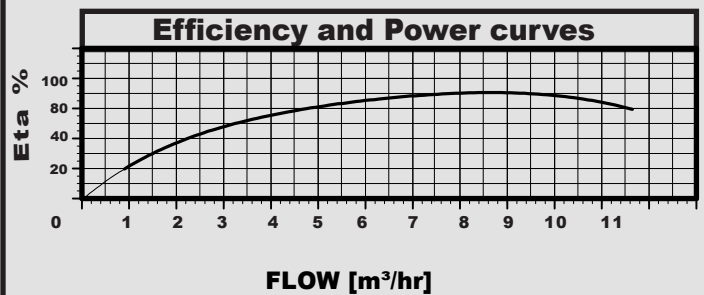
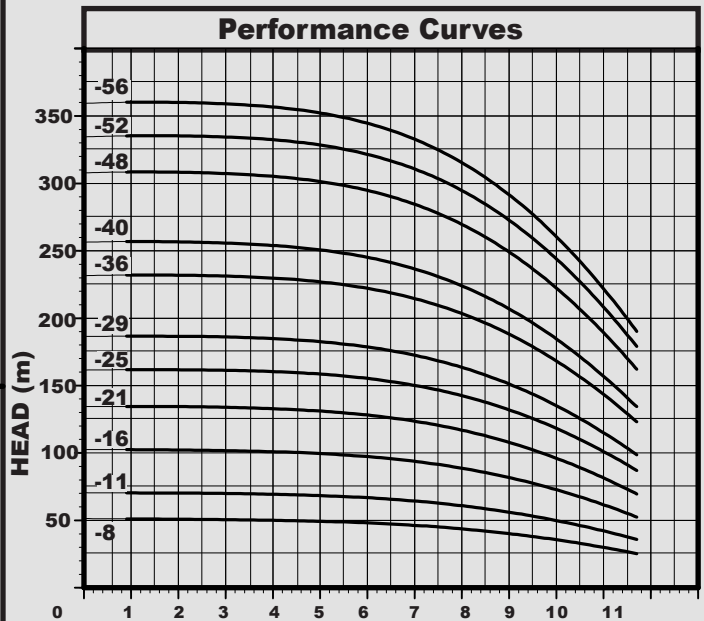
A suitably sized control panel incorporating a Grundfos MP204 controller should be fitted to protect the pump.

#### 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:** 110mm **Max. Install. depth below water:** MS402 - 150m MS4000 & above- 600m



### TECHNICAL DATA

MODEL	Motor Type	Power (kW)	Full Load Current (A)		Start Current (A)		Dimensions						Weight [kg]		
			1X240V	3X415V	1X240V	3X415V	A		B		C	D	E	1X240V	3X415V
							1X240V	3X415V	1X240V	3X415V					
SP 9A-8	MS402	1.5	10.2	4.2	56.1	21	984	1055	346	346	638	95	101	19	19
SP 9A-11	MS402	2.2	14.0	5.5	98	26	1365	1245	577	457	788	95	101	31.7	22.1
SP 9A-16	MS4000	3		7.9		35		1535		497	1038	95	101		30.6
SP 9A-21	MS4000	4		9.6		58		1865		577	1288	95	101		37.5
SP 9A-25	MS4000	5.5		13		82		2165		677	1488	95	101		44.8
SP 9A-29	MS4000	5.5		13		82		2365		677	1688	95	101		47.2
SP 9A-36	MS4000	7.5		18.8		118		2815		777	2038	95	101		55.2
SP 9A-40	MS4000	7.5		18.8		118		3015		777	2238	95	101		57.6
SP 9A-48	MS6000	9.2		21.2		110		3308		607	2701	139.5	139.5		78.2
SP 9A-52	MS6000	11		25.0		107		3538		637	2901	139.5	139.5		83.7
SP 9A-56	MS6000	11		25.0		107		4033		637	3396	139.5	140		106.9

