

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

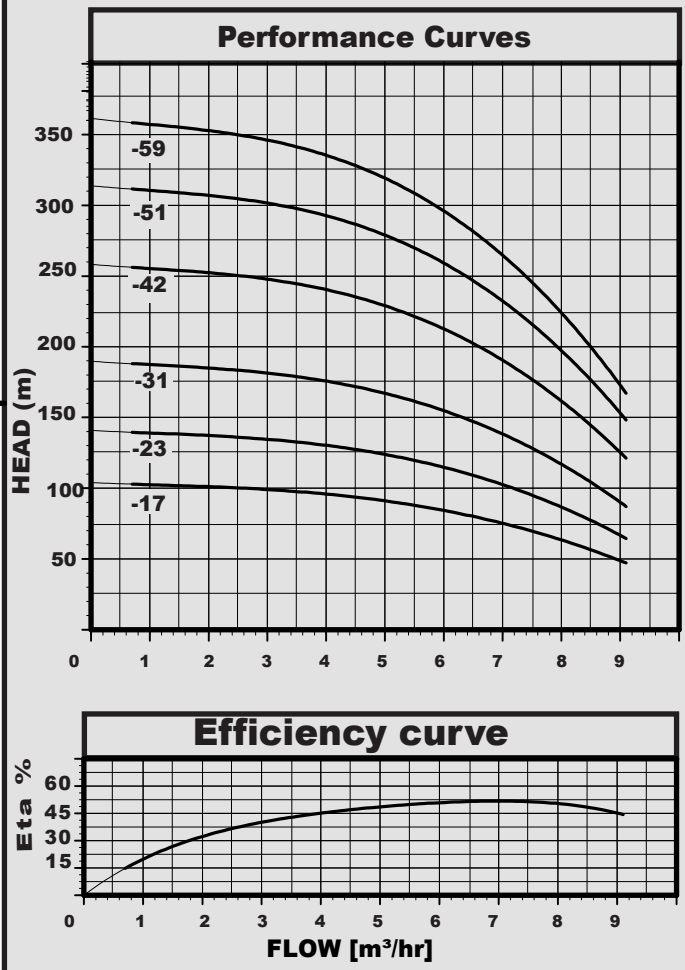
A suitably sized control panel incorporating a Grundfos MP204 controller should be fitted to protect the pump.

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] |
|---------|------------|------------|-----------------------|-------------------|------------|-----|------|----|-----|-------------|
| | | | 3X415V | 3X415V | A | B | C | D | E | |
| SP 7-17 | MS402 | 2.2 | 5.5 | 26 | 1545 | 346 | 1088 | 95 | 101 | 26.6 |
| SP 7-23 | MS4000 | 3 | 7.9 | 35 | 1885 | 497 | 1388 | 95 | 101 | 35.1 |
| SP 7-31 | MS4000 | 4 | 9.7 | 58 | 2365 | 577 | 1788 | 95 | 101 | 43.7 |
| SP 7-42 | MS4000 | 5.5 | 13 | 82 | 3015 | 677 | 2338 | 95 | 101 | 55.1 |
| SP 7-51 | MS4000 | 7.5 | 18.8 | 118 | 3565 | 777 | 2788 | 95 | 101 | 64.4 |
| SP 7-59 | MS4000 | 7.5 | 18.8 | 118 | 3965 | 777 | 3188 | 95 | 101 | 69.1 |

