

PUMP

GRUNDFOS SP submersible pumps are designed specifically for borehole supply applications. They are of multistage centrifugal impeller design and all parts are made from stainless steel with water lubricated rubber bearings. A submersible motor is fitted beneath the pump and suction is effected through a strainer between the pump and motor.

Standard pumps are designed for the pumping of non-aggressive water. 'N and R' versions are available for applications requiring a higher degree of corrosion resistance.

All SP pumps carry a drinking water approval and meet European Minimum Efficiency Index guidelines

MOTOR

The pump is coupled to a sealed, liquid cooled 2-pole asynchronous GRUNDFOS motor constructed of stainless steel with ceramic bearings. All motors are also fitted with a built-in sensor which monitors running temperatures. When fitted with the patented GRUNDFOS MP 204 control unit protection is provided against dry running, mechanical motor defects, excessive motor running temperature and irregular power supply. The fitting of MP204 unit is recommended for motor control and monitoring and also extended motor life.

Note that irrespective of the fitting of MP 204 control unit a remote starter is required. Due to the low starting torques of submersible motors it is recommended that Direct-on-Line starters are used on motor sizes up to 22kW. Motors above this size should use a soft start arrangement.

Enclosure Class : IP58

Insulation Class: F

Voltage: 3x415 V

Speed: 2900rpm

OPERATING CONDITION

Pumped Liquid: Thin, clean chemically non-aggressive liquids without solid particles or fibres.

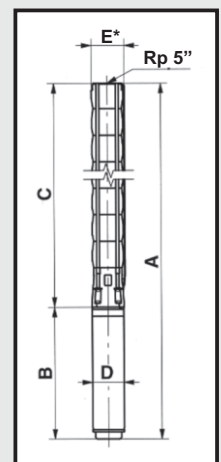
Max. Liquid Temperature: +40°C.

Max. Water Depth: 600 m

Min. Borehole Diameter: 200 mm - MS6/MMS6000, 254mm - MMS8000

PUMP DATA

Pump Type	Motor		Full Load Current (A)	I start	Motor	Dimensions (mm)					Weight (kg)
	kW	HP				A	B	C	D	E*	
SP 77-3	11	15	24.6	4.8	MS6	1557	683	874	143	200	75
SP 77-5	18.5	25	41.5	4.8	MS6	1914	784	1131	146	200	95
SP 77-7	26	35	57.5	5.2	MS6	2290	903	1387	143	200	114
SP 77-9	30	40	65	5.3	MS6	2611	968	1643	143	200	129
SP 77-11	37	50	80	4.3	MMS6000	3339	1425	1898	144	200	184
SP 77-13	55	74	114	5.9	MMS8000	3522	1350	2172	192	209	259



*E=Maximum diameter of the pump with one motor cable