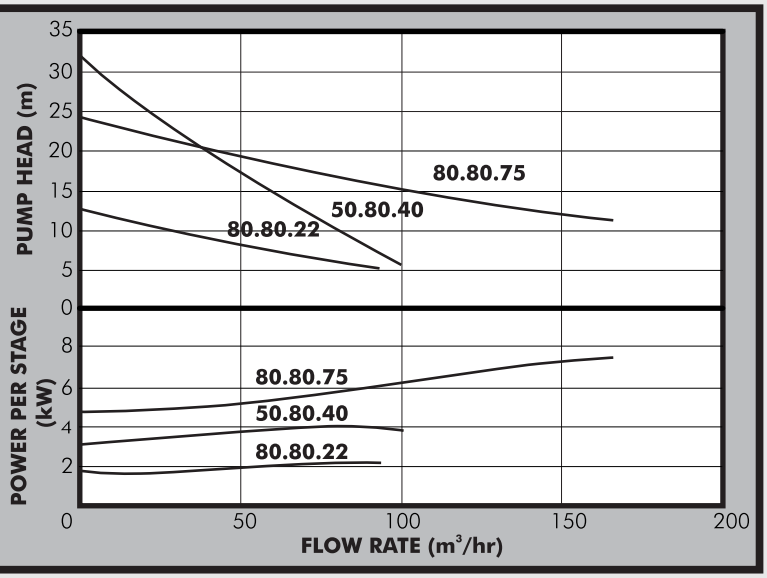
GRUNDFOS®

SE1
Submersible Sewage Pumps



PUMP

The Grundfos SE1 pump range are high specification products for heavy duty pumping applications where reliability and ease of servicing are essential requirements. Particular uses are for pumping sewage and heavily polluted water in municipal, utility and industrial applications.

Featuring advanced technology design, the pumps utilise high efficiency semi-axial type channel impellers with excellent non-clogging performance and solid passing capability. Other notable features include a hermetically sealed cable entry to eliminate liquid penetration, cartridge type double mechanical seal for durability and ease of maintenance and a simple clamp coupling arrangement of the motor and pump units for easy disassembly.

The SE1 range is of unique modular design with standard motor units fitting several pump models. Also the hydraulic end is adaptable for submersible auto coupling, submerged free-standing or dry configurations by simply specifying the appropriate mounting components. Three basic models are stocked, though the range is extensive and different models are available to special order for specific requirements.

The pump end including impeller and pump housing are manufactured from cast iron, the stator housing from cast aluminium and the motor jacket, clamp and cable entry from stainless steel. 10m of Neoprene rubber drop cable is supplied as standards.

MOTOR

Pumps are fitted with integral squirrel cage induction motors of special liquid-less cooling design enabling continuous operation in dry installations. Remote motor starting is required using a starter type as indicated below.

Insulation Class: F ***Voltage:*** 3x415V ***Max Starts/Hr:*** 20

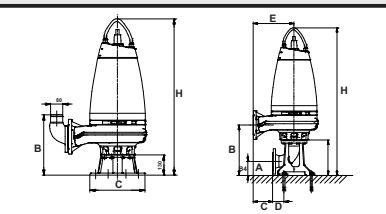
OPERATING CONDITIONS

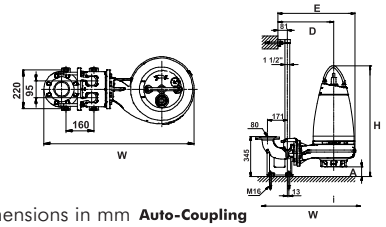
Pumped Liquid: Heavily polluted liquids containing suspended particles up to the throughlet diameter of the impeller.
Max Liquid Temp: - 40°C
Max Immersion Depth: 20m

PUMP DATA

Model	Power (kW)	Speed (rpm)	Max. Current (Amps)	Start Current (Amps)	Starter Type	Impeller throughlet (mm)	Weight (kg)
SE1 80.80.22	2.2	1445	5.9	32	DOL	80	100
SE1 50.80.40	4	2925	8.6	71	YD	50	123
SE1 80.80.75	7.5	1455	17.3	107	YD	80	205

Model	Auto-Coupling (mm)					Free Standing (mm)			Dry Installation (mm)						
	H	W	A	D	E	H	B	C	H	A	B	B1	C	D	E
SE1 80.80.22	876	788	108	432	595	898	364	355	1109	341	433	136	67	106	272
SE1 50.80.40	938	760	132	387	567	937	341	325	1055	248	317	108	87	62	227
SE1 80.80.75	1006	883	82	489	690	1054	390	355	1265	341	459	136	124	106	328





All dimensions in mm **Auto-Coupling**