

Introduction

The motor and pump body of SD, SK, submersible electrical pump series are tightly coupled through the designed casing pipe shaft, and a suction filter is installed between the pump and the motor to effectively isolate the impurities in the liquid.

The whole component is submerged in the liquid with the pump, which can prevent the cavitation of the pump. The centrifugal force generated by the motor rotating the impeller of the pump drives the fluid to push from the underground to the surface. pump mainly consists of ground components and underground components. The ground components include control cabinet, cable, transformer, etc., and the underground components include pipelines, pumps, motor and other attached ground components, which extend to the bottom of the well through the transmission pipeline. Three different materials are provided for selection according to different working conditions.

Pump material

SD series 3", 4" all plastic submersible electrical pump

SK series submersible pump with 4" plastic impeller and stainless steel diffuser

Pump operating conditions

Flow Rate, Q up to 24m³/h
Head, H up to 500m
Temperature of fluid handled, T 4" up to 35C.
Maximum operation pressure 4" motor 7 bar

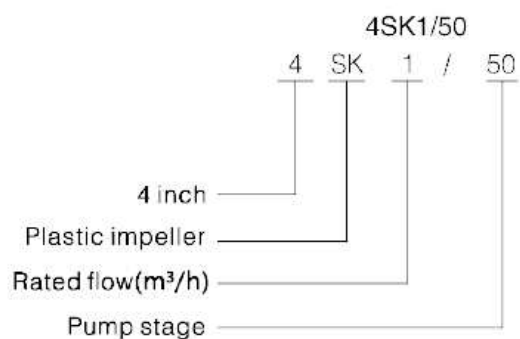
Motor

Enclosure class: Ip68
Voltage:
4" motor
3X220-240/380-415V
1X220-240V
6" to 10" motor up to 1000V

Performance curves

- The motors used for the pump performance are based on
- 4" motor 2850 rpm
- Curves according to ISO 9906, Annex A.
- Measurement have been made with airless water at a temperature of 20 C
- The curves apply to the following kinematic viscosity of 1 cSt.

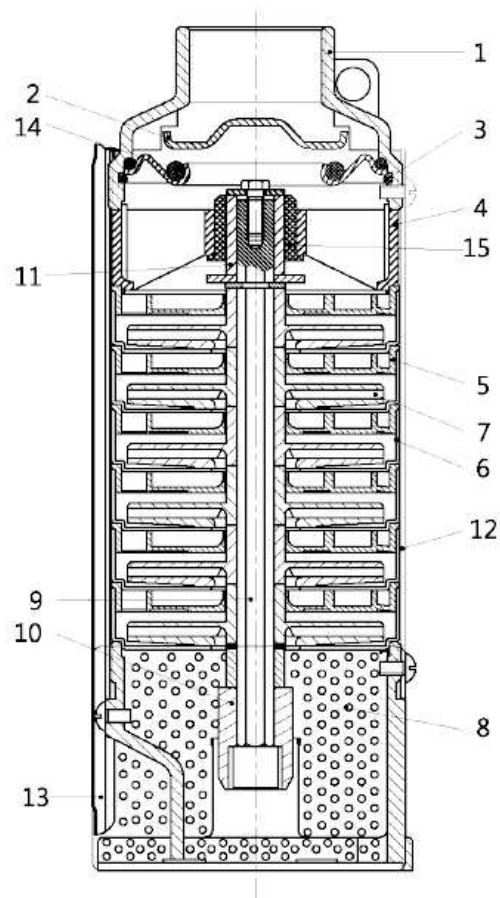
Model specification



Applications

Groundwater pumping

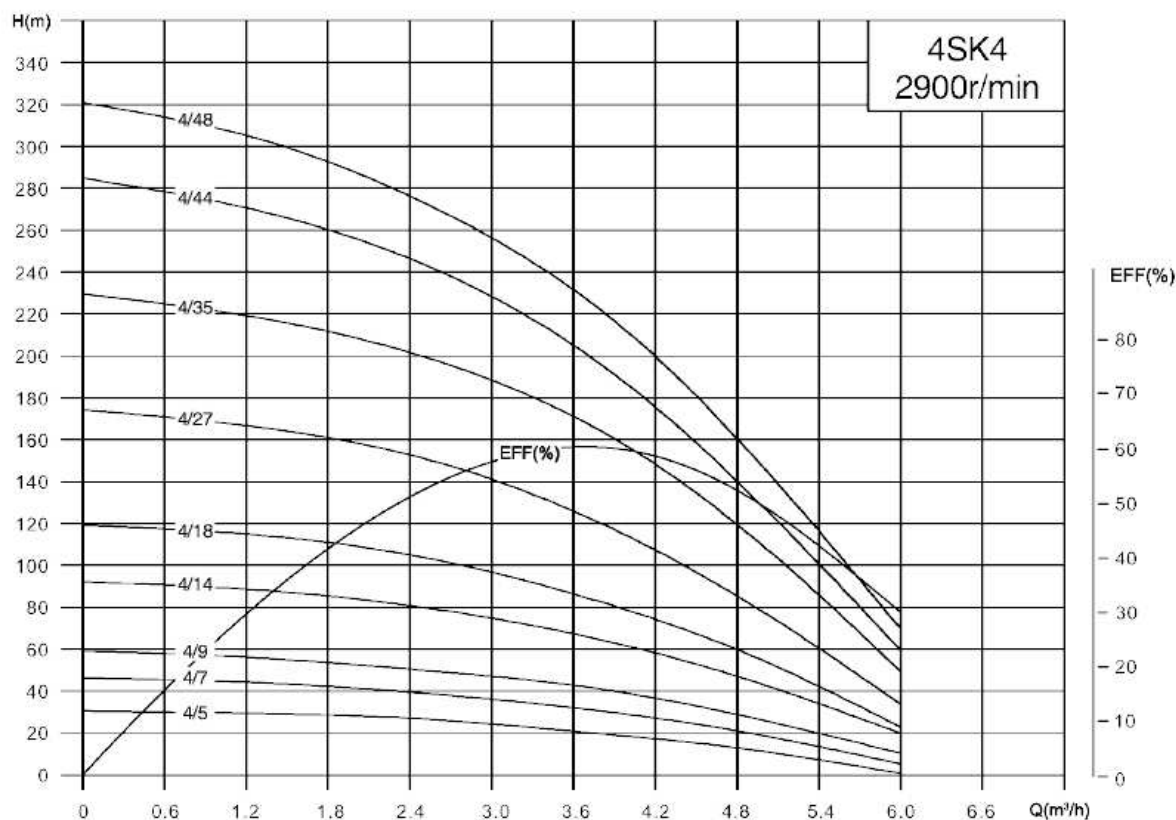
- Residential water
- Wells pumping
- Municipal water
- Industrial water
- Water villa
- Water supply system
- Municipal water supply
- The system pressure
- Pipeline pressurization
- Spray irrigation system
- The air conditioning system
- Fire protection system
- Cooling circulation system



SK series material

No.	Component	Material
1	Discharge chamber	Stainless steel
2	Check valve	Stainless steel
3	Check valve retainer	Stainless steel
4	Top diffuser	PC
5	Diffuser	PC
6	Wear box	Stainless steel
7	Impeller	PPO
8	Strainer	Stainless steel
9	Pump shaft	Stainless steel
10	Coupling	Stainless steel
11	Sleeve	Stainless steel
12	Cylinder	Stainless steel
13	Cable guard	Stainless steel
14	O ring	NBR
15	Bearing	Polyurethane

Performance curve



Performance data

Model	Power	Q(m³/h)	0	3	3.6	4.2	4.8	5.4	6
4SK4/5	0.37	H(m)	33	22	21	17	13	8	3
4SK4/7	0.55		46	36	33	28	21	13	7
4SK4/9	0.75		59	47	43	37	28	20	10
4SK4/14	1.1		93	76	68	58	47	33	19
4SK4/18	1.5		120	98	88	75	60	42	25
4SK4/27	2.2		175	141	127	109	87	61	35
4SK4/35	3		231	184	166	145	119	85	49
4SK4/44	4		285	223	201	173	139	99	55
4SK4/48	4		322	245	228	198	160	118	70

Installation dimensions and weight

Power		Dimension				Weight(kg)	
kW	HP	L1(mm)	L2(mm)	L(mm)	DN(inch)	Pump	Motor
0.37	0.5	263	324	587	1.25"	2.7	9
0.55	0.75	306	344	650		3	9.8
0.75	1	350	369	719		3.3	11
1.1	1.5	458	404	862		4.1	13
1.5	2	545	449	994		4.7	15
2.2	3	740	539	1279		6.2	17
3	4	990	557	1547		7.9	17.6
4	5.5	1185	637	1822		9.3	20.7
4	5.5	1272	637	1909		9.9	20.7

