



SK

SUBMERSIBLE BOREHOLE PUMP

50Hz



WWW.TESKPUMPCOM

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

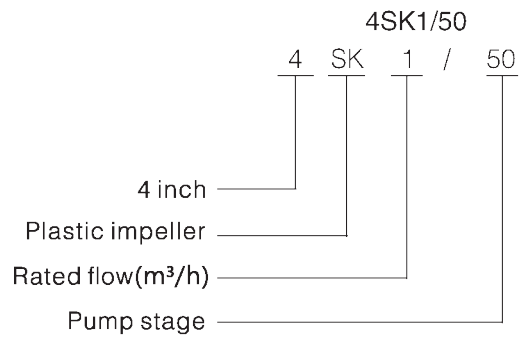
1X220-240V

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.

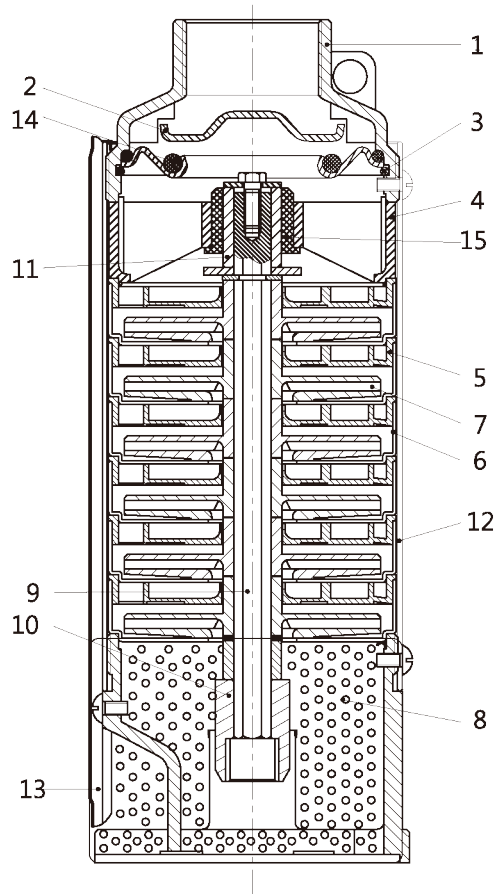
Model specification



Applications

Groundwater pumping

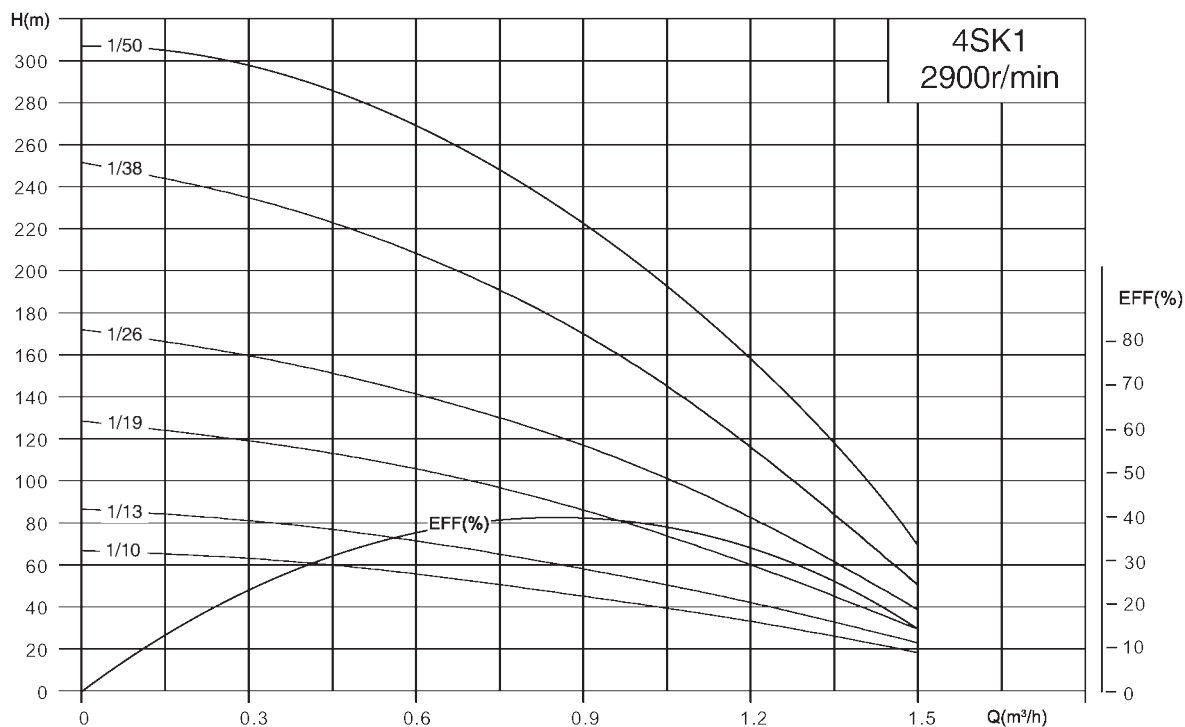
- Residential water
- Wells pumping
- Municipal water
- Industrial water
- Water villa
- Water supply system
- Municipal water supply
- The system pressure
- Pipeline pressurization
- Spray irrigation system
- The air conditioning system
- Fire protection system
- Cooling circulation system



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

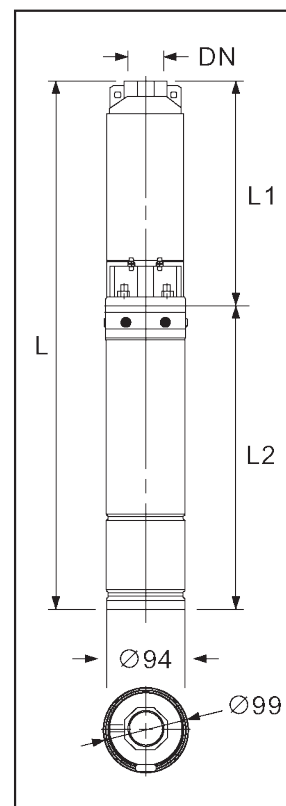


Performance data

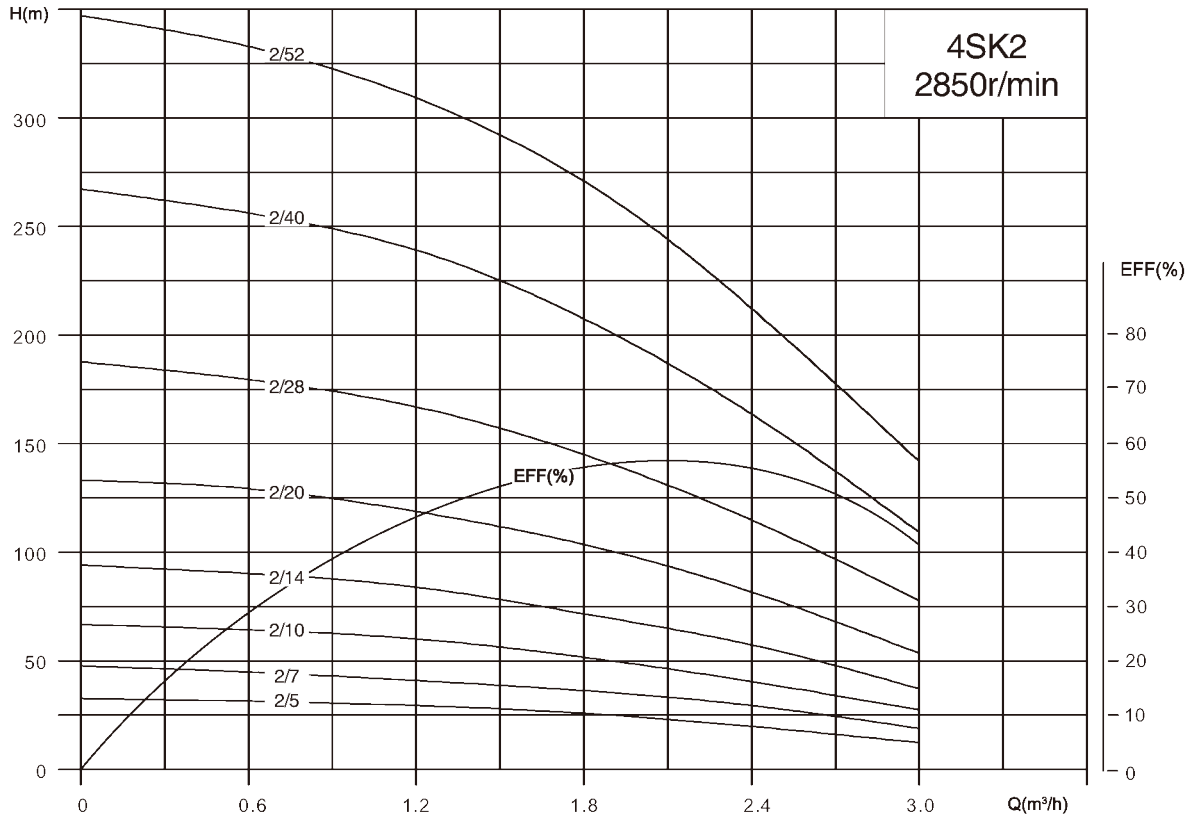
Model	Power	Q(m³/h)	H(m)						
			0	0.3	0.6	0.9	1.2	1.5	
4SK1/10	0.37	H(m)	67	63	55	46	33	18	
4SK1/13	0.37		86	78	70	56	42	23	
4SK1/19	0.55		126	118	105	86	60	30	
4SK1/26	0.75		173	160	141	117	81	39	
4SK1/38	1.1		253	234	208	169	117	52	
4SK1/50	1.5		318	295	266	218	158	70	

Installation dimensions and weight

Power		Dimension				Weight(kg)	
kW	HP	L1(mm)	L2(mm)	L(mm)	DN(inch)	Pump	Motor
0.37	0.5	331	324	655	1.25"	3.3	9
0.37	0.5	383	324	707		3.7	9
0.55	0.75	488	344	832		4.7	9.8
0.75	1	610	369	979		5.8	11
1.1	1.5	896	404	1300		8.2	13
1.5	2	1110	449	1559		10.1	15



Performance curve

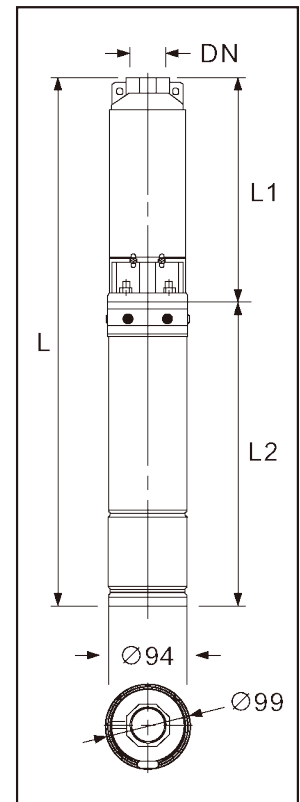


Performance data

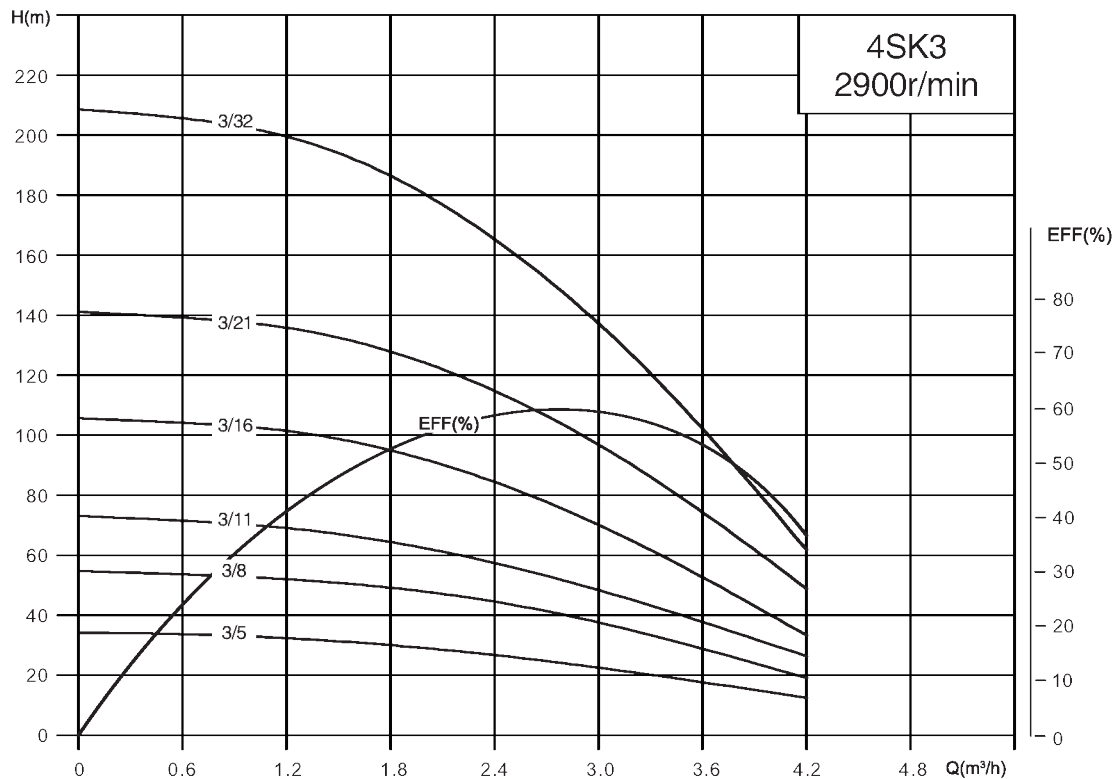
Model	Power	Q(m³/h)	0	1.5	1.8	2.1	2.4	2.7	3
4SK2/5	0.37	H(m)	33	28	26	24	20	17	13
4SK2/7	0.37		47	39	35	32	28	24	19
4SK2/10	0.55		67	56	52	47	41	35	27
4SK2/14	0.75		93	78	73	66	57	50	37
4SK2/20	1.1		133	113	104	97	82	72	53
4SK2/28	1.5		187	158	146	130	115	97	74
4SK2/40	2.2		267	226	208	186	164	136	106
4SK2/52	3		347	294	271	243	213	178	138

Installation dimensions and weight

Power		Dimension				Weight(kg)	
kW	HP	L1(mm)	L2(mm)	L(mm)	DN(inch)	Pump	Motor
0.37	0.5	253	324	577	1.25"	2.6	9
0.37	0.5	292	324	616		2.9	9
0.55	0.75	350	344	694		3.5	9.8
0.75	1	428	369	797		4.2	11
1.1	1.5	545	404	949		5.3	13
1.5	2	701	449	1150		7.1	15
2.2	3	1011	539	1550		10.1	17
3	4	1153	557	1710		12.2	17.6



Performance curve

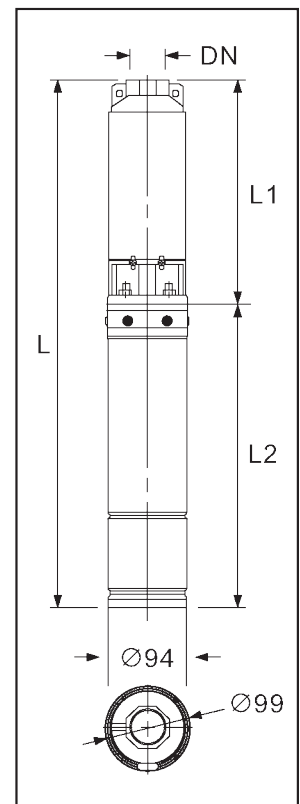


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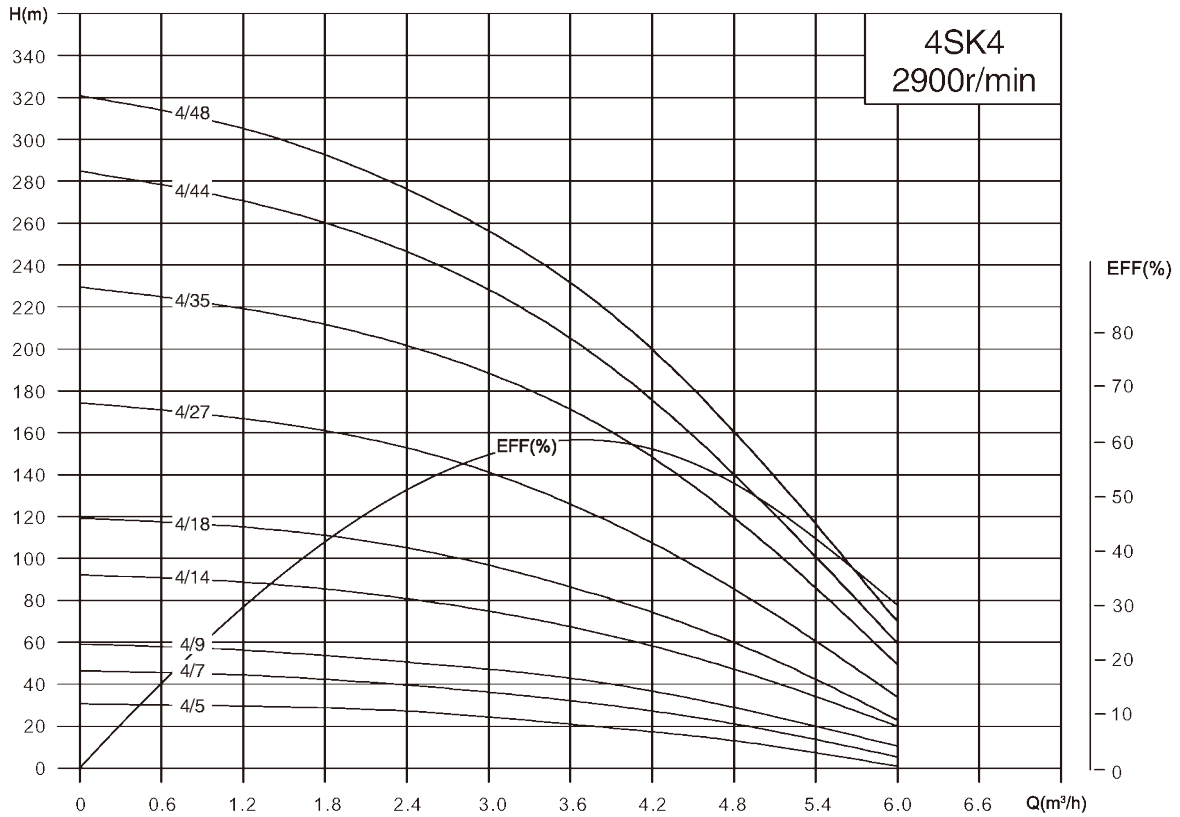
Model	Power	Q(m ³ /h)	0	2.1	2.4	2.7	3.0	3.6	4.2
4SK3/5	0.37	H(m)	34	29	27	25	23	18	12
4SK3/8	0.55		54	46	43	41	38	30	19
4SK3/11	0.75		72	61	56	54	49	38	28
4SK3/16	1.1		106	89	83	77	70	54	34
4SK3/21	1.5		142	122	115	108	100	79	49
4SK3/32	2.2		208	177	165	152	138	104	64

Installation dimensions and weight

Power		Dimension				Weight(kg)	
kW	HP	L1(mm)	L2(mm)	L(mm)	DN(inch)	Pump	Motor
0.37	0.5	253	324	577	1.25"	2.5	9
0.55	0.75	313	344	657		2.9	9.8
0.75	1	370	369	739		3.4	11
1.1	1.5	468	404	872		4.2	13
1.5	2	565	449	1014		5	15
2.2	3	856	539	1395		7.1	17



Performance curve

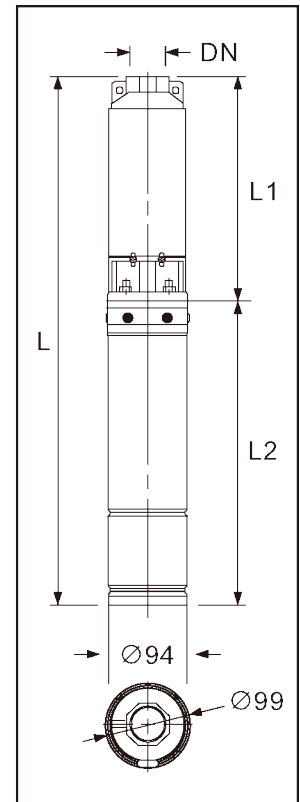


Performance data

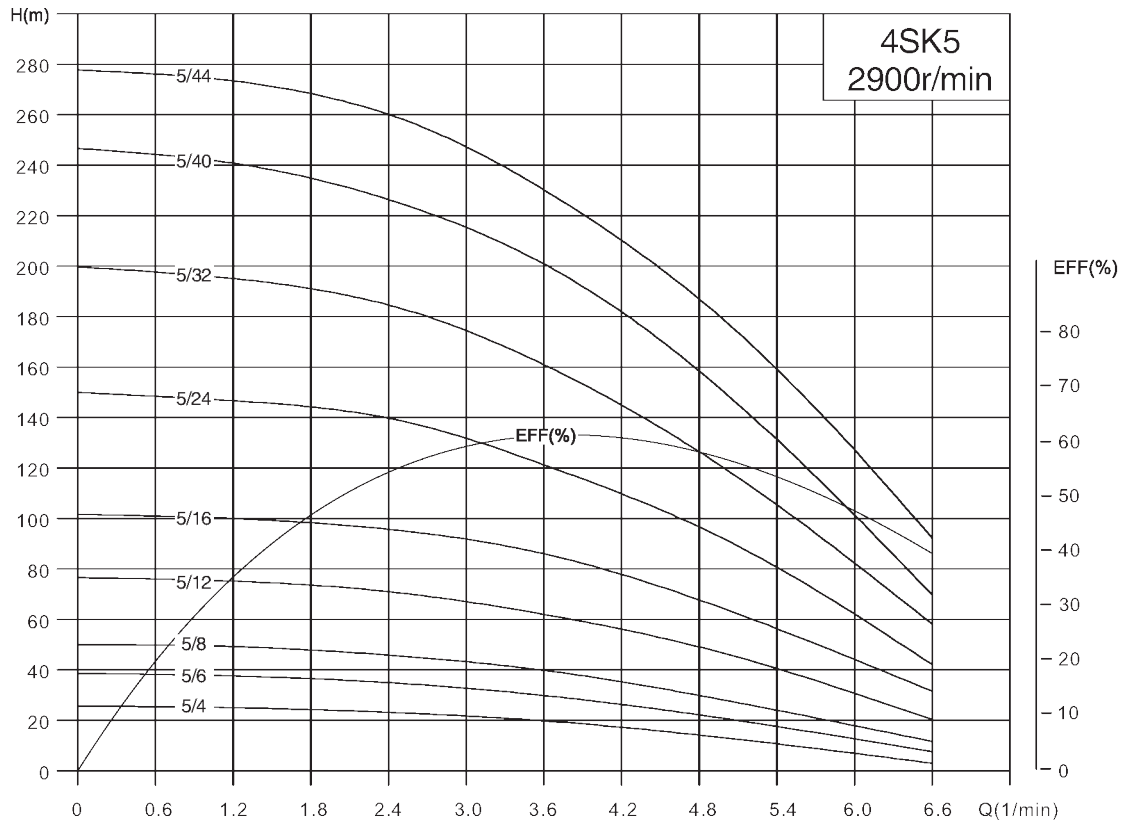
Model	Power	Q(m³/h)	0	3	3.6	4.2	4.8	5.4	6
4SK4/5	0.37	H(m)	33	22	21	17	13	8	3
4SK4/7	0.55		46	36	33	28	21	13	7
4SK4/9	0.75		59	47	43	37	28	20	10
4SK4/14	1.1		93	76	68	58	47	33	19
4SK4/18	1.5		120	98	88	75	60	42	25
4SK4/27	2.2		175	141	127	109	87	61	35
4SK4/35	3		231	184	166	145	119	85	49
4SK4/44	4		285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



Performance curve

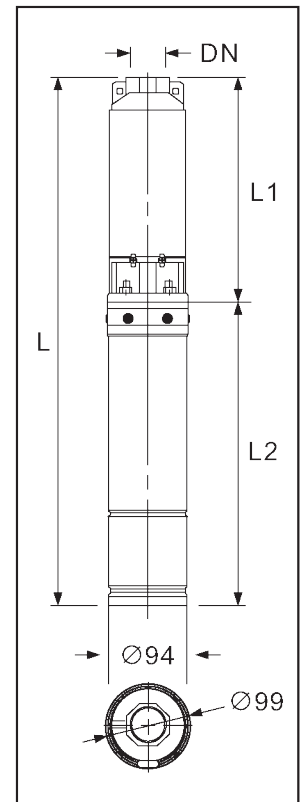


Performance data

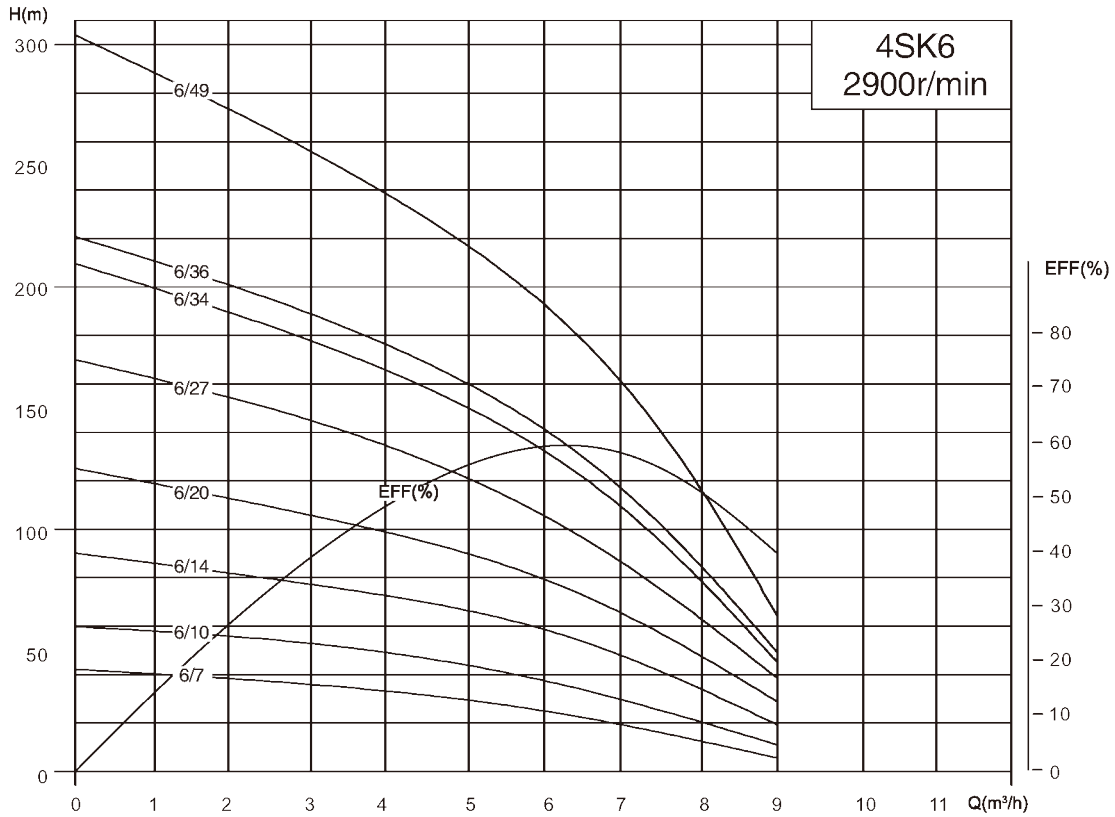
Model	Power	Q(m ³ /h)	0	3.6	4.2	4.8	5.4	6	6.6
4SK5/4	0.37	H(m)	26	19	17	14	11	7	4
4SK5/6	0.55		38	30	26	22	18	12	8
4SK5/8	0.75		51	39	35	30	24	18	14
4SK5/12	1.1		77	63	57	49	41	31	21
4SK5/16	1.5		102	86	77	68	57	46	34
4SK5/24	2.2		151	122	111	97	80	62	44
4SK5/32	3		203	162	146	127	105	80	59
4SK5/40	4		253	202	182	159	131	102	70
4SK5/44	4		278	230	210	187	159	127	94

Installation dimensions and weight

Power		Dimension				Weight(kg)	
kW	HP	L1(mm)	L2(mm)	L(mm)	DN(inch)	Pump	Motor
0.37	0.5	253	324	577	1.25"	2.4	9
0.55	0.75	303	344	647		2.9	9.8
0.75	1	353	369	722		3.3	11
1.1	1.5	451	404	855		4.1	13
1.5	2	549	449	998		5	15
2.2	3	747	539	1286		6.6	17
3	4	1021	557	1578		8.7	17.6
4	5.5	1217	637	1854		10.4	20.7
4	5.5	1316	637	1953		11.2	20.7



Performance curve

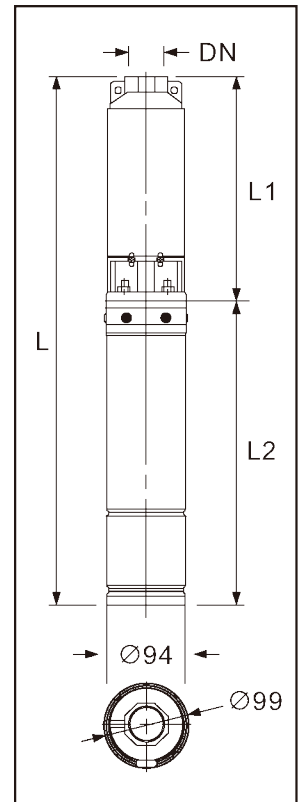


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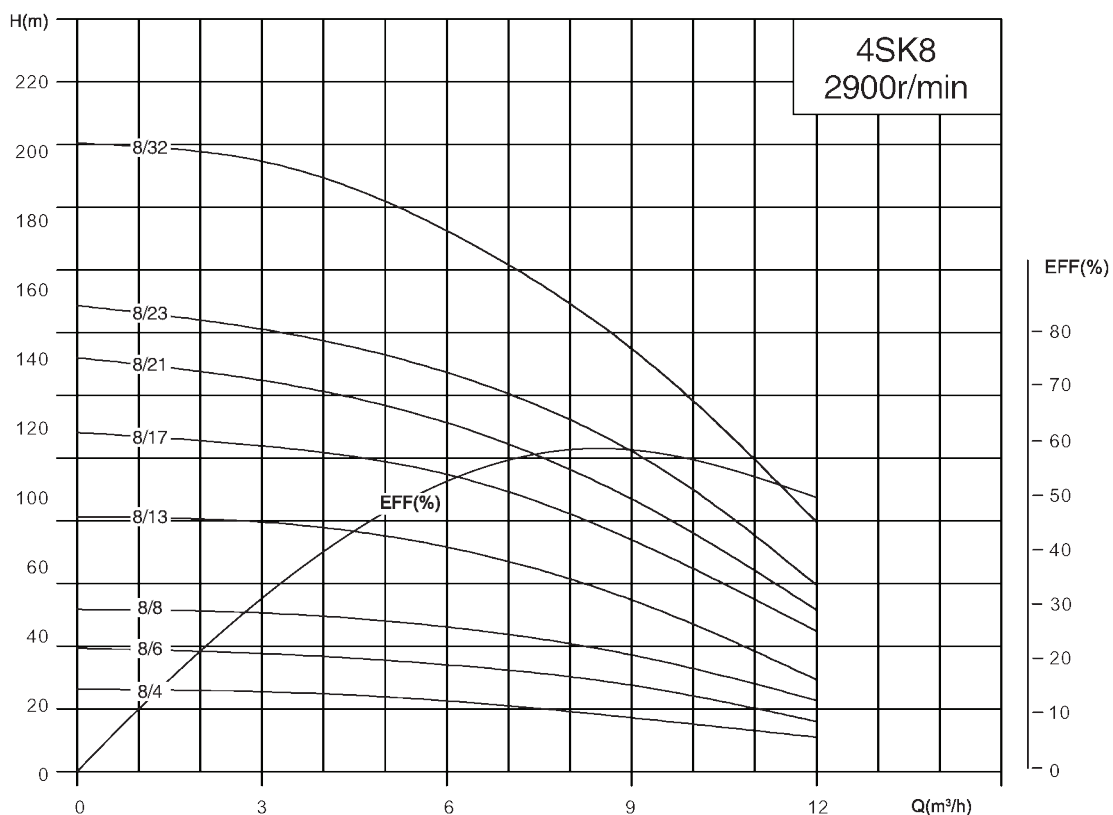
Model	Power	Q(m³/h)	0	5.4	6	6.6	7.2	7.8	9
4SK6/7	0.75	H(m)	42	28	25	22	19	15	8
4SK6/10	1.1		62	41	38	34	29	23	12
4SK6/14	1.5		90	63	59	53	46	37	19
4SK6/20	2.2		125	86	80	71	62	52	29
4SK6/27	3		169	115	107	96	84	70	39
4SK6/34	4		208	143	132	120	103	86	48
4SK6/36	4		221	154	143	127	112	93	49
4SK6/49	5.5		302	209	193	171	151	123	64

Installation dimensions and weight

Power		Dimension				Weight(kg)	
kW	HP	L1(mm)	L2(mm)	L(mm)	DN(inch)	Pump	Motor
0.75	1	393	369	762	2"	3.7	11
1.1	1.5	488	404	892		4.6	13
1.5	2	612	449	1061		5.7	15
2.2	3	798	539	1337		7.5	17
3	4	1015	557	1572		9.6	17.6
4	5.5	1307	637	1944		11.6	20.7
4	5.5	1369	637	2006		12.2	20.7
5.5	7.5	1773	712	2485		15.9	25.7



Performance curve

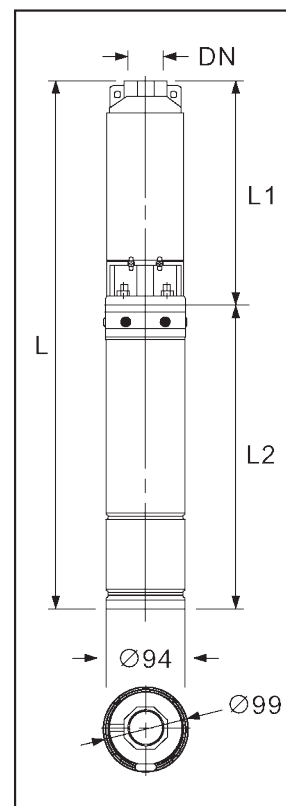


Performance data

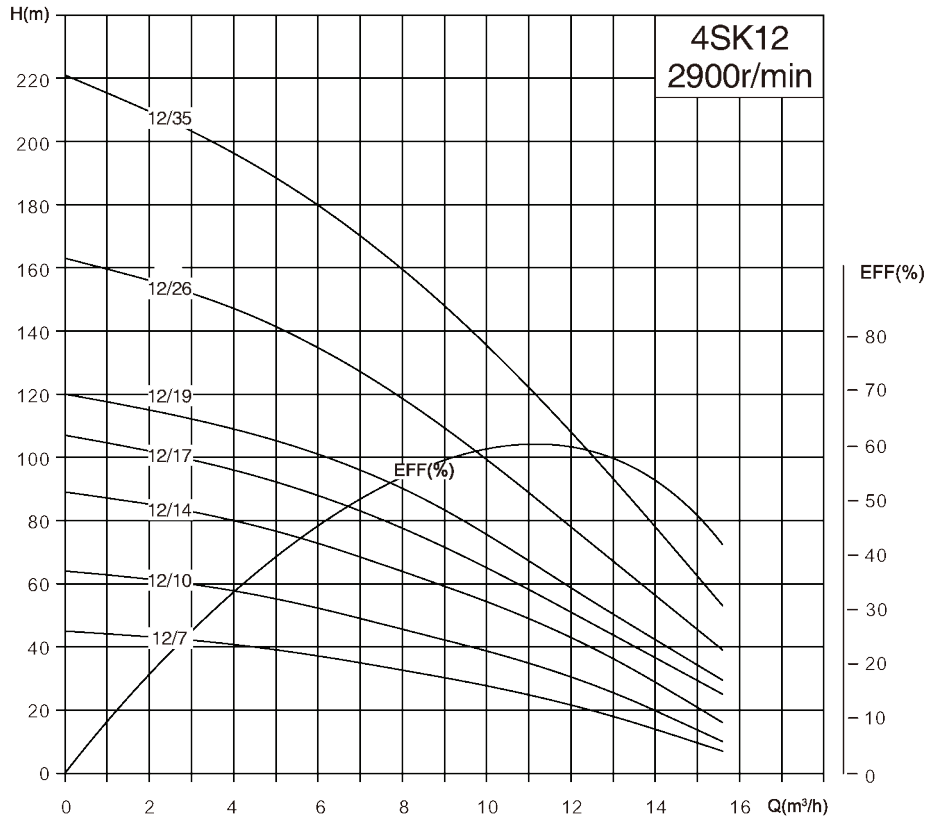
Model	Power	Q(m³/h)	0	7.2	7.8	8.4	9.0	9.6	12
4SK8/4	0.75	H(m)	26	21	20	19	18	17	11
4SK8/6	1.1		39	32	30	29	27	26	18
4SK8/8	1.5		52	43	40	39	37	35	24
4SK8/13	2.2		82	66	62	59	53	50	30
4SK8/17	3		108	87	83	79	75	70	47
4SK8/21	4		132	103	98	93	88	82	52
4SK8/23	4		148	118	113	108	101	95	60
4SK8/32	5.5		202	160	151	143	133	125	80

Installation dimensions and weight

Power		Dimension				Weight(kg)	
kW	HP	L1(mm)	L2(mm)	L(mm)	DN(inch)	Pump	Motor
0.75	1	302	369	671	2"	2.8	11
1.1	1.5	363	404	767		3.4	13
1.5	2	426	449	875		4	15
2.2	3	581	539	1120		5.5	17
3	4	705	557	1262		6.6	17.6
4	5.5	829	637	1466		7.8	20.7
4	5.5	891	637	1528		8.4	20.7
5.5	7.5	1146	712	1858		11	25.7



Performance curve

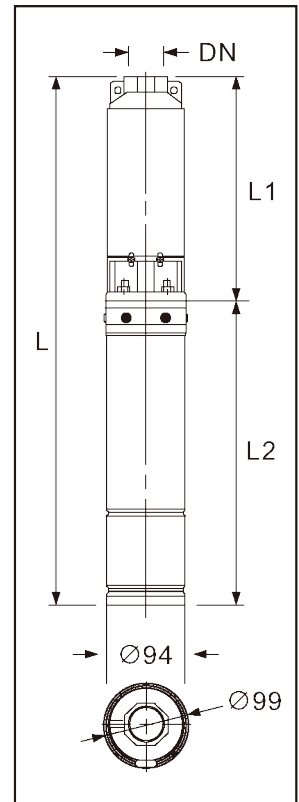


Performance data

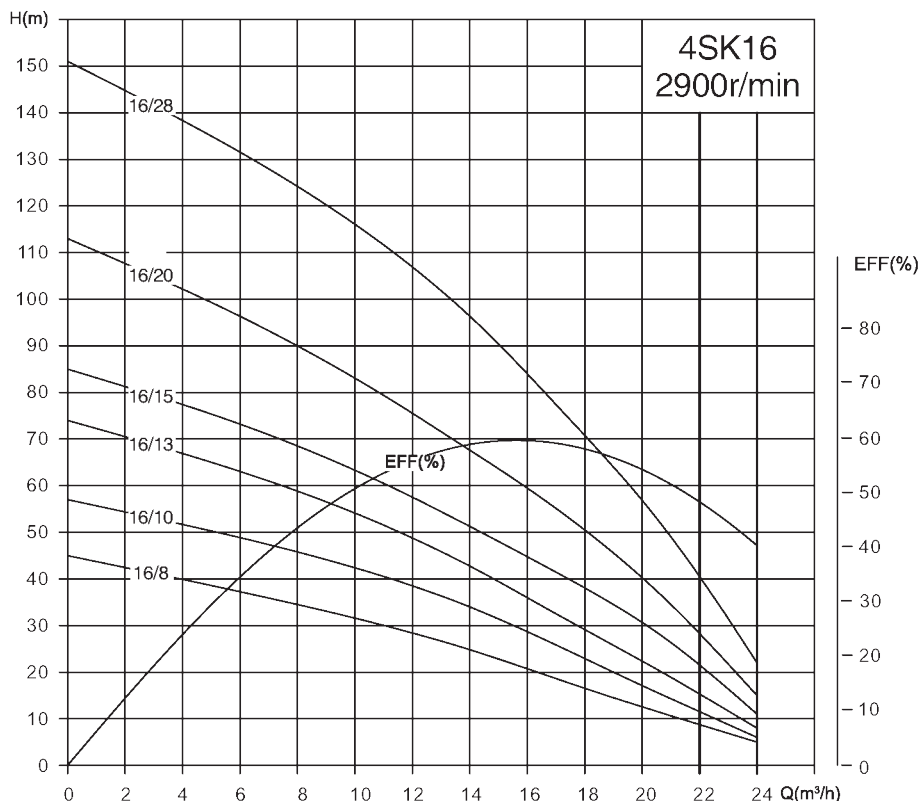
Model	Power	Q(m³/h)	0	8.4	9.6	10.8	12	13.2	14.4	15.6
4SK12/7	1.5	H(m)	45	31	28	25	22	18	12	7
4SK12/10	2.2		64	44	41	36	30	24	17	10
4SK12/14	3		89	62	56	51	43	35	26	16
4SK12/17	4		107	75	69	62	51	42	34	25
4SK12/19	4		120	89	76	68	58	52	40	30
4SK12/26	5.5		163	115	111	94	78	67	52	39
4SK12/35	7.5		221	155	142	126	108	90	70	53

Installation dimensions and weight

Power		Dimension				Weight(kg)	
kW	HP	L1(mm)	L2(mm)	L(mm)	DN(inch)	Pump	Motor
1.5	2	541	449	990	2"	5.3	15
2.2	3	697	539	1236		6.7	17
3	4	905	557	1462		8.6	17.6
4	5.5	1060	637	1697		10.1	20.7
4	5.5	1164	637	1801		11	20.7
5.5	7.5	1603	712	2315		14	25.7
7.5	10	2070	847	2917		20.9	32.3



Performance curve



Performance data

Model	Power	Q(m³/h)	H(m)								
			0	14.4	15.6	16.8	18	19.2	20.4	24	
4SK16/8	2.2	H(m)	45	25	21	19	16	14	11	5	
4SK16/10	3		57	33	29	25	21	18	16	6	
4SK16/13	4		74	42	37	32	27	25	21	8	
4SK16/15	4		85	50	47	43	39	33	29	11	
4SK16/20	5.5		113	66	60	56	50	44	38	15	
4SK16/28	7.5		151	94	84	78	70	62	54	22	

Installation dimensions and weight

Power		Dimension				Weight(kg)	
kW	HP	L1(mm)	L2(mm)	L(mm)	DN(inch)	Pump	Motor
2.2	3	720	539	1259	2"	6.3	17
3	4	855	557	1412		8	17.6
4	5.5	1060	637	1697		9.3	20.7
4	5.5	1193	637	1830		10.5	20.7
5.5	7.5	1608	712	2320		13.5	25.7
7.5	10	2149	847	2996		21.2	32.3

