hydroo®

SJ SERIES

PRESENTATION

Hydroo Pump Industries SL is an enterprise specialised in the research, development and large-scale production of Stainless Steel centrifugal pumps. We have a vertical integration of the production processes, standing out stamping, welding and motor wiring in 6 value centers and production units. All of them with a high performance management on pump engineering and production quality.

HYDROO has set up a wide range of pumping solutions for many applications as building services, industry, irrigation and industrial process. Customers enjoy of the highest performance in booster sets and pressurization, fire-fighting sets, pumping of underground water, HVAC, drainage and sewage, utilities, desalination and OEM integrations. Versions in 50 Hz and 60 Hz are available, as well as any modification on materials, on request.

Global water challenges require excellence in pumping technologies and close cooperation between pump designers, manufacturers and pump engineers. In order to better meet the customers' needs and requirements our company is facing an expansion of its operations worldwide, providing timely and effective services in more than 30 countries. With tight relationships in many regions, we're proud to introduce a new regional value center for Europe. We are based near Barcelona at the Girona industrial area. Hydroo is a trademark to forge excellent and successful business relationships with our value customers by means of an operative assembling unit and an application engineering unit. HYDROO trademark wants to symbolize the firm commitment for a high level service to our value partners.

At Hydroo we bet on a high level service to our value pump partners.

SJ

Stainless steel submersible borehole pump

Applications

Water supply
Irrigation
Sprinkling and irrigation

Description

Vertical multistage pump with water-filled or oil-filled NEMA standard submersible motors for 4”-6”-8” deep wells. Built-in non-return valve included. Most parts made of stamped and welded AISI304 Stainless Steel.

Performance range

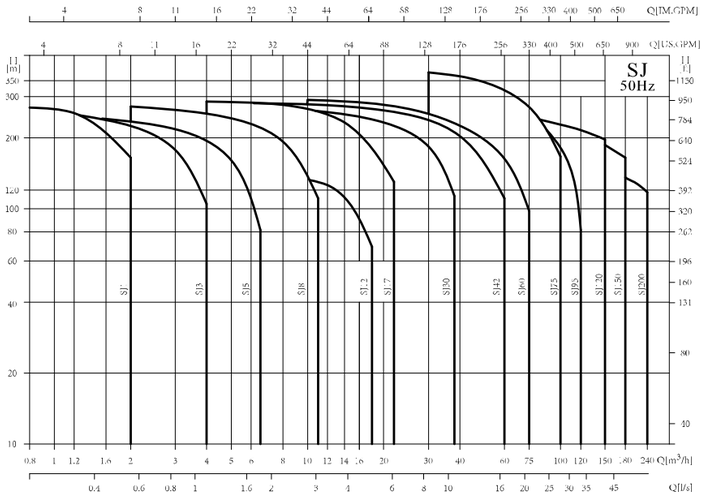
Capacity: Q up to 260 m³/h
Head: H up to 381 m
Temperature: T up to 25 ºC
Speed: n 2900 rpm or 3500 rpm
Power: P up to 110 kW

Standard material

Impeller, diffuser and shaft made in AISI304 SS. Also available, upon request, plastic made inner parts with floating impellers.

Pumps in 3”-4” with composite floating impellers available.

Performance scope



Typical applications

– Circulation or boosting for clean water, demineralized water.

– Water supply, irrigating system.

– Lowering ground water level.

– Boosting.

– Other industrial applications.

Operation conditions

– Solid grain-or-fiber-free dilute clean non-corrosive liquids.

– Maximum liquid temperature: 25ºC

– Maximum working pressure: 38 bar

– pH: 6.5~8.5

– Maximum diving depth: ≤70m

Curve conditions

— The curve tolerance complies with ISO9906 Annex A.

– All curves are based on the measured values of 50Hz: constant motor speed 2850r/min or 2900r/min.

– All measurements are carried out with gas-free water of temperature 20ºC. The curve is applicable to kinematical viscosity 1mm/s. In case density of the liquid conveyed by the pump is higher than that of water, it is necessary to use corresponding motor of higher output power.

– The thickened curve means the recommended performances scope.

– The performance curve includes loss caused by check valve etc.

Performance curve

– Q/H curve means flow and head under the rated speed.

– Power curve: P2 means input power of each grade, curves are shown for complete (1/1) and for reduced diameter (2/3) impellers.

– Efficiency curve: Eta means the stage efficiency of the pump.

NEMA Motor

– 4” Motor Stainless steel (there is bronze flange or ss flange)
Single phase: 0.37kW~2.2kW
Three phase: 0.37kW~7.5kW

– 6” Motor Cast iron (Standard), Stainless steel (If required, need to specify) Three phase: 4kW~37kW

– 8” Motor Cast iron (Standard), Stainless steel (If required, need to specify) Three phase: 5.5kW~110kW

Product range

Description	SJ1	SJ3	SJ5	SJ8	SJ12	SJ17	SJ30
Rate flow [m³/h]	1	3	5	8	12	17	30
Rate flow [l/s]	0.28	0.83	1.39	2.22	3.33	4.72	8.33
Flow range [m³/h]	0.2~2	0.8~4	1~6.5	2~11	3~18	4~22	5~38
Flow range [l/s]	0.06~0.56	0.22~1.1	0.28~1.8	0.56~3.1	0.83~5	1.11~6.1	1.39~10.6
Max. pressure [bar]	28	25	24	27	16	26	28
Motor power [kW]	0.37~2.2	0.37~3	0.37~4	0.75~7.5	1.5~7.5	0.55~15	1.1~22
Temp. [°C]	45	56	59	60	60	73	74
Pipe screw joint	Rp1¼	Rp1¼	Rp1½	Rp2	Rp2	Rp2½	Rp3

Description	SJ42	SJ60	SJ75	SJ95	SJ120	SJ150	SJ200
Rate flow [m³/h]	42	60	75	95	120	150	200
Rate flow [l/s]	11.7	16.7	20.8	26.4	33.3	41.6	55.6
Flow range [m³/h]	5~60	10~75	30~100	40~120	60~150	80~180	100~240
Flow range [l/s]	1.39~16.7	2.8~20.8	8.3~27.8	11.1~33.3	16.5~41.6	22.2~50	27.8-66.7
Max. pressure [bar]	28	29	38	34	25	23	16
Motor power [kW]	1.1~37	2.2~37	7.5~75	9.2~75	11~110	9.2~110	30~110
Temp. [°C]	75	79	79	80	77	77	79
Pipe screw joint	Rp3	Rp4	Rp5	Rp5	Rp6	Rp6	Rp6

Definition of model

ZS 250/1.5

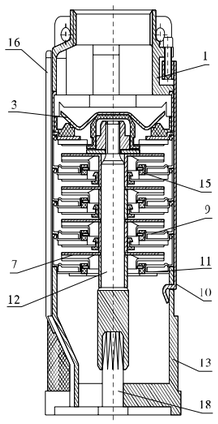
SJ 17 – 25

- 25 — Stage
- 17 — Rated flow (m³/h)
- SJ — Stainless Steel Multistage Deep-well Submersible Pump

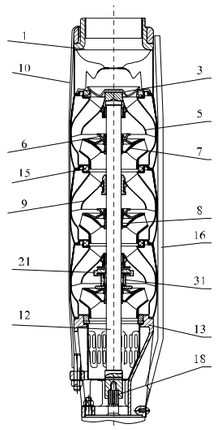
SJ 60 – 9 – 2

- 2 — Number of small impeller
- 9 — Stage
- 60 — Rated flow (m3/h)
- SJ — Stainless Steel Multistage Deep-well Submersible Pump

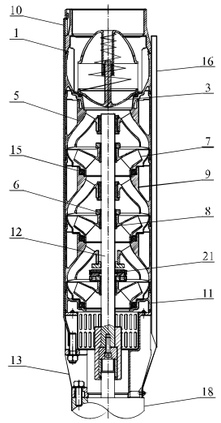
Section drawing



Ex: SJ5



Ex: SJ42



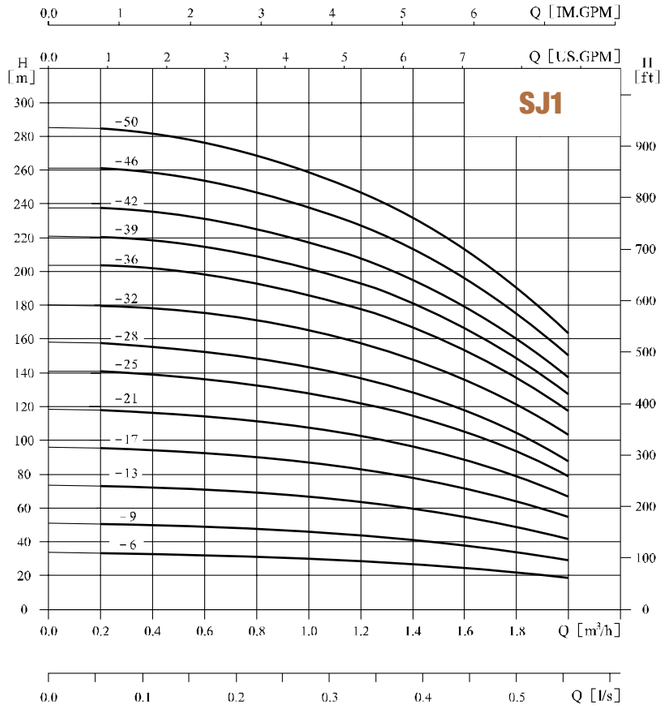
Ex: SJ95

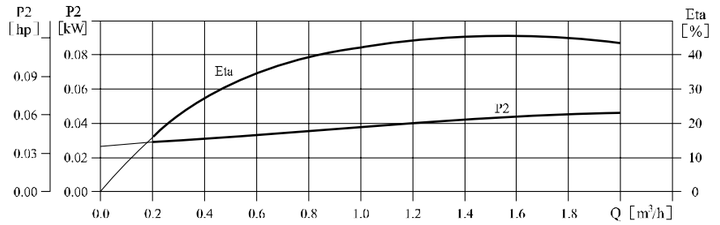
Material

Nº	Name	Material	AISI
1	Discharge head	SS304	AISI304
3	Valve cap	SS304	AISI304
5	Discharge diffuser	SS304	AISI304
6	Impeller nut	SS304	AISI304
7	Impeller	SS304	AISI304
8	Impeller cone	SS304	AISI304
9	Diffuser	SS304	AISI304
10	Straps	SS304	AISI304
11	Inducer	SS304	AISI304
12	Pump shaft	SS304/420/431	AISI304/420/431
13	Suction Interconnector	SS304	AISI304
15	Neck ring	SS304	AISI304
16	Cable guard	SS304	AISI304
18	Submersible motor		
21	Inlet spacer	Carbon	
31	Connecting sleeve	SS304	AISI304

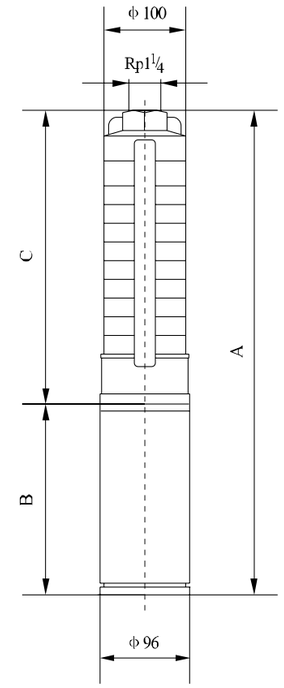
SJ1

Performance curve ISO9906 Annex A 2850rpm





Installation sketch



Performance table

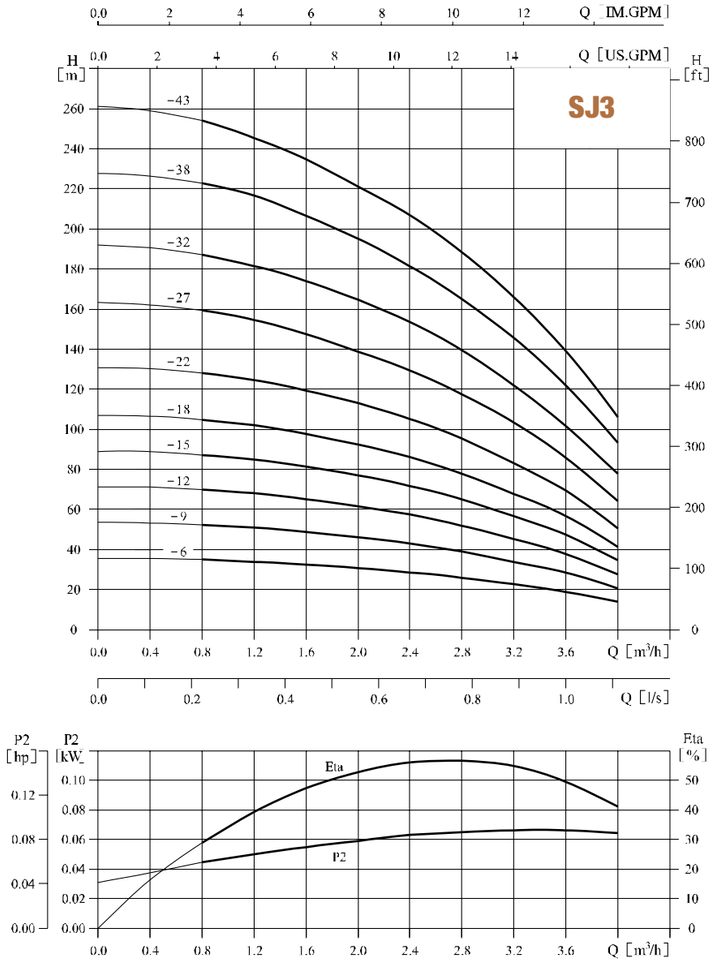
Model	Driving motor (kW)		Q (m³/h)	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
	(kW)	(hp)											
SJ1-6	0.37	0.5	H (m)	33.5	33	32	31	30	29	27	25	22	19
SJ1-9	0.37	0.5		51	50	49	48	46	44	41	38	34	29
SJ1-13	0.55	0.75		73	72	71	69	67	64	60	55	49	42
SJ1-17	0.75	1		96	95	92	90	87	84	78	71	64	55
SJ1-21	1.1	1.5		119	118	115	112	108	103	97	89	80	69
SJ1-2S	1.1	1.5		141	140	137	134	129	123	116	106	95	82
SJ1-28	1.5	2		158	157	153	150	145	138	130	119	107	92
SJ1-32	1.5	2		180	179	175	171	165	158	148	136	122	105
SJ1-36	1.5	2		203	202	197	192	186	178	167	153	137	118
SJ1-39	2.2	3		221	219	214	209	202	193	181	166	149	128
SJ1-42	2.2	3		238	236	230	225	217	208	195	179	160	137
SJ1-46	2.2	3		260	258	252	246	238	227	213	196	176	151
SJ1-50	2.2	3		284	282	276	269	260	248	233	214	192	165

Size and weight

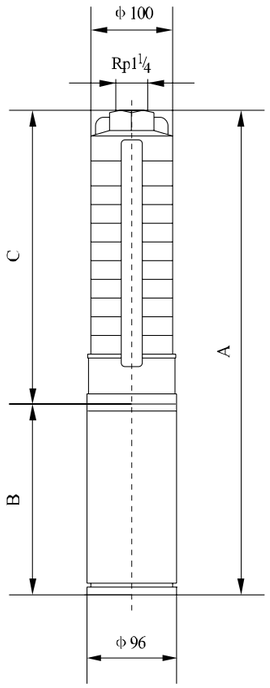
Model	Size (mm)			Weight (kg)
	A	B	C	
SJ1-6	667	370	297	12
SJ1-9	730	370	360	13
SJ1-13	S24	380	444	15
SJ1-17	928	400	528	17
SJ1-21	1052	440	612	19
SJ1-2S	1136	440	696	20
SJ1-28	1229	470	759	23
SJ1-32	1313	470	843	24
SJ1-36	1397	470	927	25
SJ1-39	1500	510	990	29
SJ1-42	1563	510	1053	30
SJ1-46	1647	510	1137	31
SJ1-50	1731	510	1221	32

SJ3

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

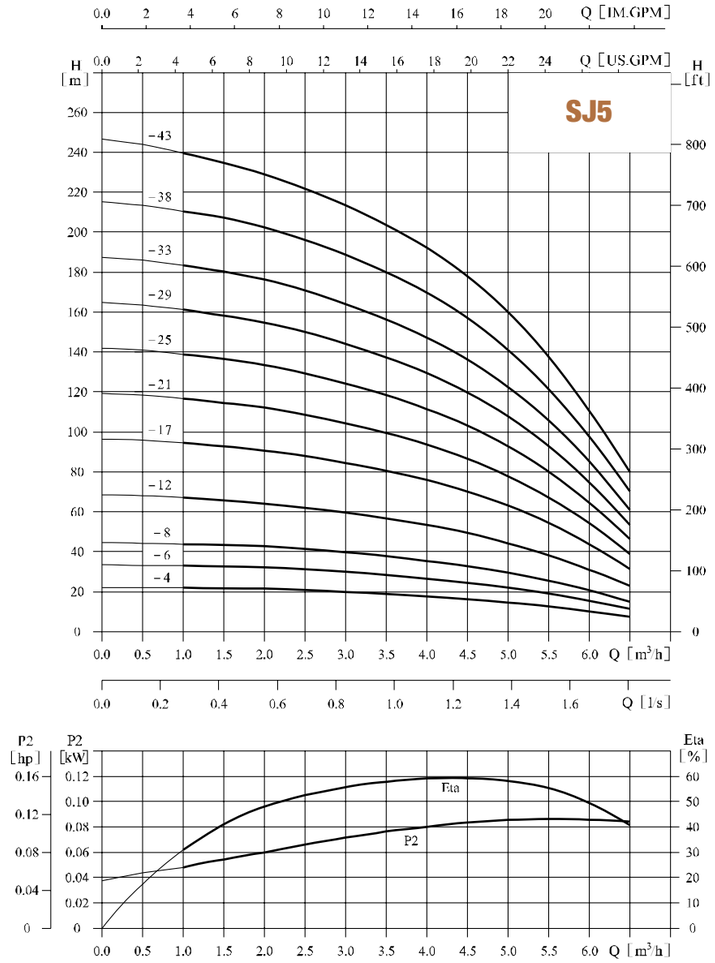
Model	Driving motor (kW)		Q (m³/h)	0.8	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
	(kW)	(hp)											
SJ3-6	0.37	0.5	H (m)	36	34	32	30	28	26	24	23	18	13
SJ3-9	0.55	0.75		53	51	48	45	42	38	36	33	27	20
SJ3-12	0.75	1		70	68	64	61	57	52	49	44	37	27
SJ3-15	1.1	1.5		87	85	81	77	72	65	61	56	47	34
SJ3-18	1.1	1.5		105	103	97	92	87	78	74	68	57	42
SJ3-22	1.5	2		130	126	120	113	106	96	91	84	70	53
SJ3-27	2.2	3		159	154	146	138	130	118	111	104	87	66
SJ3-32	2.2	3		189	183	173	163	154	140	131	122	102	79
SJ3-38	3.0	4		224	217	205	194	183	168	157	146	122	94
SJ3-43	3.0	4		254	246	233	220	207	190	178	166	139	107

Size and weight

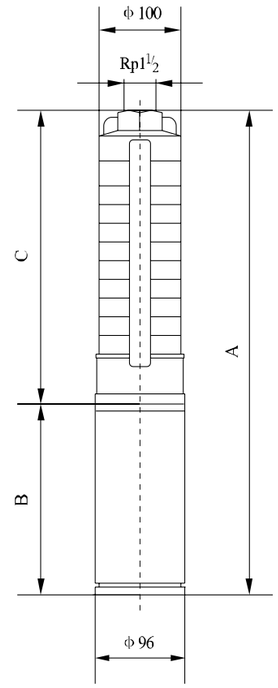
Model	Size (mm)			Weight (kg)
	A	B	C	
SJ3-6	667	370	297	12
SJ3-9	740	380	360	13
SJ3-12	823	400	423	16
SJ3-15	926	440	486	18
SJ3-18	999	440	549	19
SJ3-22	1103	470	633	22
SJ3-27	1248	510	738	27
SJ3-32	1353	510	843	28
SJ3-38	1589	620	969	31
SJ3-43	1694	620	1074	32

SJ5

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

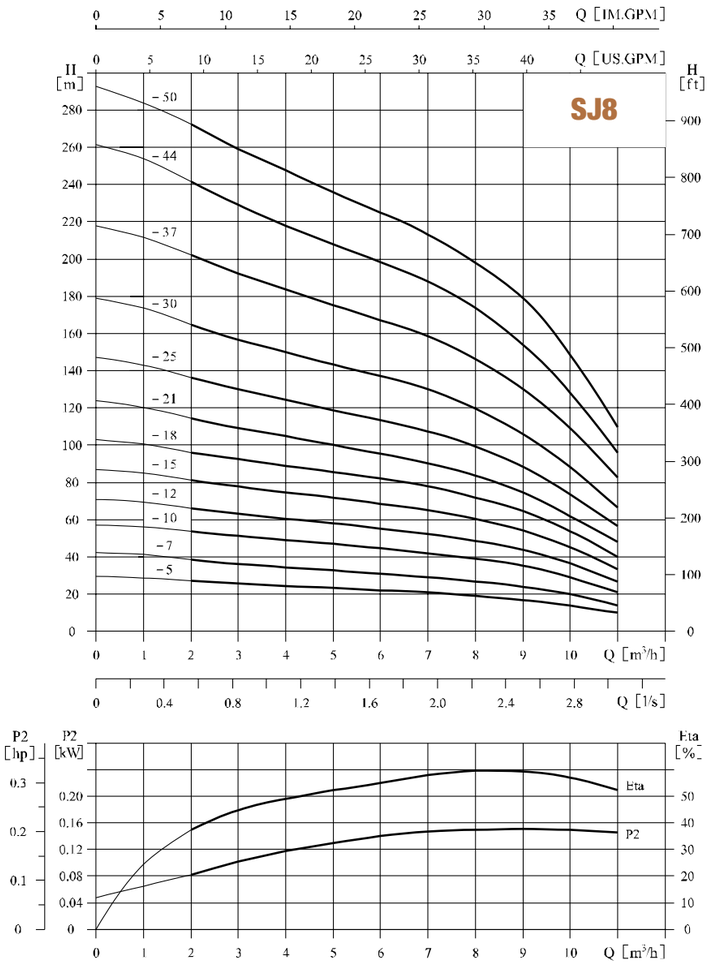
Model	Driving motor (kW)		Q (m³/h)	1.0	2.0	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
	(kW)	(hp)											
SJ5-4	0.37	0.5	H (m)	21	20.5	20	19	18	17	15	13	10	6
SJ5-6	0.55	0.75		32	31	30	28	27	25	22	19	15	11
5J5-8	0.75	1		43	42	40	36	36	33	30	25	20	15
SJ5-12	1.1	1.5		66	63	59	57	54	50	45	38	30	23
SJ5-17	1.5	2		95	91	84	80	76	71	64	54	43	32
SJ5-21	2.2	3		117	112	104	99	94	87	79	67	53	39
SJ5-25	2.2	3		139	134	124	118	112	104	94	80	64	47
SJ5-29	3.0	4		161	155	144	137	130	120	108	92	74	55
SJ5-33	3.0	4		183	177	163	156	148	137	123	105	84	62
SJ5-38	4.0	5.5		211	203	188	178	170	158	142	121	97	71
SJ5-43	4.0	5.5		239	230	213	203	193	179	161	137	109	81

Size and weight

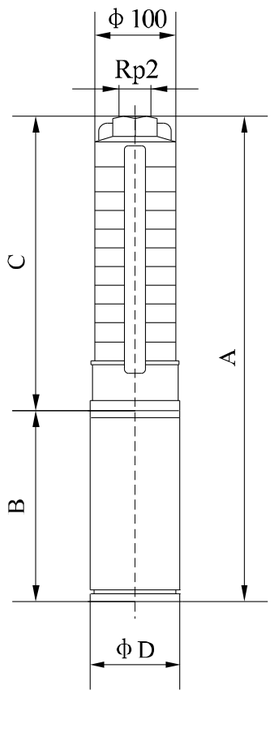
Model	Size (mm)			Weight (kg)
	A	B	C	
SJ5-4	625	370	255	12
SJ5-6	677	380	297	13
5J5-8	739	400	339	15
SJ5-12	863	440	423	17
SJ5-17	998	470	528	21
SJ5-21	1122	510	612	26
SJ5-25	1206	510	696	27
SJ5-29	1400	620	780	29
SJ5-33	1484	620	864	30
SJ5-38	1719	750	969	33
SJ5-43	1824	750	1074	35

SJ8

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

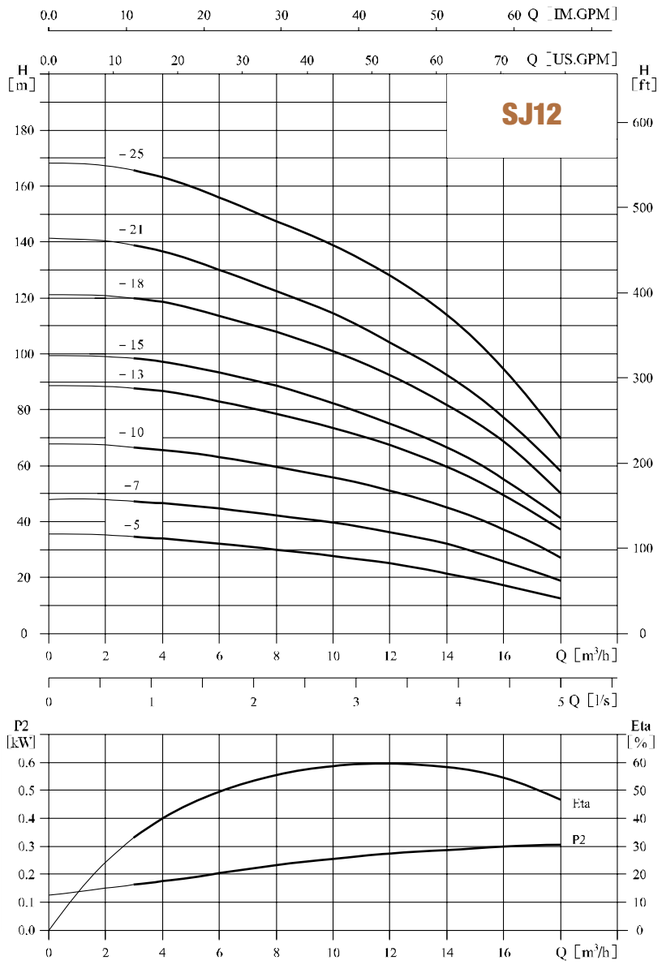
Model	Driving motor (kW)		Q (m³/h)	2	3	4	5	6	7	8	9	10	11
	(kW)	(hp)											
SJ8-5	0.75	1	H (m)	27	26	24	23	22	21	19	17	14	10
SJ8-7	1.1	1.5		38	36	34	33	31	29	27	24	20	14
SJ8-10	1,5	2		54	52	50	47	45	42	39	35	29	21
SJ8-12	2.2	3		6S	62	60	57	54	51	47	42	35	26
SJ8-15	2.2	3		81	77	74	71	68	64	59	53	44	33
SJ8-18	3.0	4		95	93	89	86	81	77	71	63	53	40
SJ8-21	4.0	5.5		112	108	104	100	95	90	83	74	62	47
SJ8-25	4.0	5.5		135	129	124	119	113	108	99	89	74	56
SJ8-30	5.5	7.5		162	155	149	143	136	130	119	106	88	67
SJ8-37	5.5	7.5		201	191	184	176	167	159	147	131	109	62
SJ8-44	7.5	10		242	227	218	209	199	190	174	156	129	98
SJ8-50	7.5	10		272	258	248	238	226	216	198	177	147	111

Size and weight

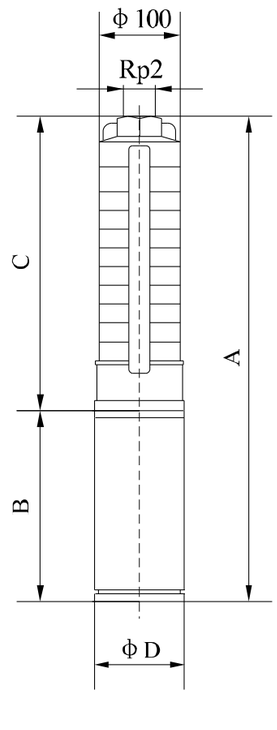
Model	Size (mm)				Weight (kg)
	A	B	C	ΦD	
SJ8-5	853	400	453	96	16
SJ8-7	977	440	537	96	19
SJ8-10	1133	470	663	96	22
SJ8-12	1257	510	747	96	27
SJ8-15	1383	510	B73	96	29
SJ8-18	1619	620	999	96	32
SJ8-21	1875	750	1125	96/143	35/41
SJ8-25	2043	750	1293	96/143	37/43
SJ8-30	2343	840	1503	96/143	43/51
SJ8-37	2637	840	1797	96/143	46/54
SJ8-44	3011	920	2091	96/143	55/66
SJ8-50	3263	920	2343	96/143	58/69

SJ12

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

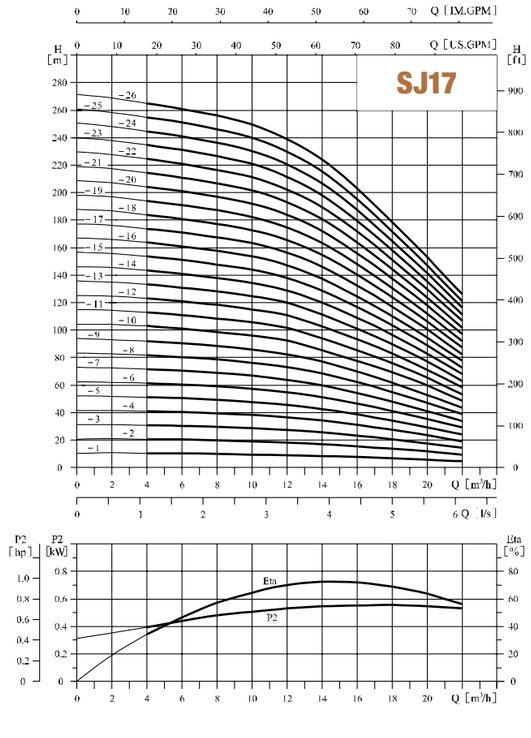
Model	Driving motor (kW)		Q (m³/h)	3	4	6	8	10	12	14	16	18
	(kW)	(hp)										
SJ12-5	1.5	2	H (m)	34	33	31	29	27	25	22	18	13
SJ12-7	2.2	3		48	46	43	40	38	35	31	25	19
SJ12-10	3.0	4		67	65	62	58	55	50	45	36	27
SJ12-13	4.0	5.5		68	86	81	76	71	66	59	48	36
SJ12-15	5.5	7.5		99	97	93	88	82	76	68	55	41
SJ12-18	5.5	7.5		120	118	112	105	99	91	81	66	50
SJ12-21	7.5	10		138	136	130	123	115	106	95	77	58
SJ12-25	7.5	10		166	163	155	146	137	126	113	92	69

Size and weight

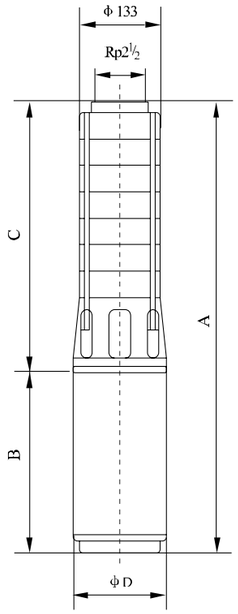
Model	Size (mm)				Weight (kg)
	A	B	C	ΦD	
SJ12-5	1005	470	535	96	21
SJ12-7	1175	510	665	96	26
SJ12-10	1480	620	860	96	30
SJ12-13	1837	782	1055	96/143	34/40
SJ12-15	2025	840	1185	96/143	38/46
SJ12-18	2220	840	1380	96/143	40/48
SJ12-21	2495	920	1575	96/143	47/58
SJ12-25	2755	920	1835	96/143	50/61

SJ17

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

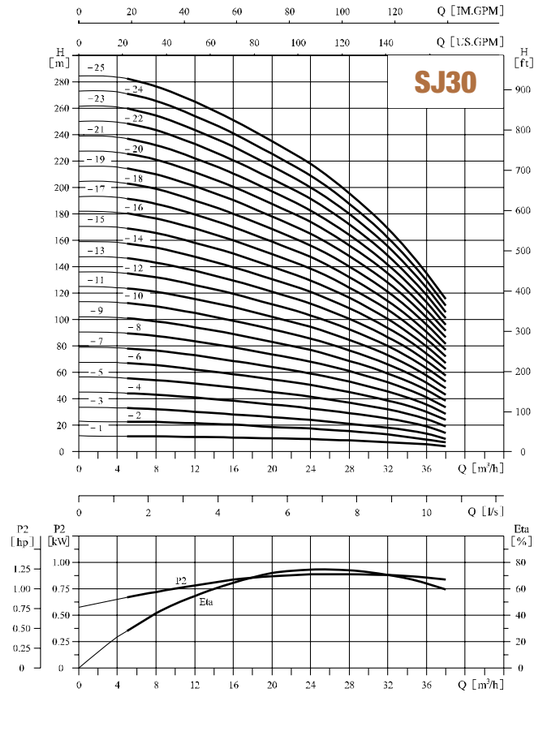
Model	Driving motor (kW)		Q (m³/h)	4	6	8	10	12	14	17	20	22
	(kW)	(hp)										
SJ17-1	0.55	0.75		10.5	10	9.5	9	8.5	8	6.5	5	4
SJ17-2	1.1	1.5		20.5	20	19.5	19	18	16	13.5	10.5	8
SJ17-3	2.2	3		31	30	29.5	28.5	27	24.5	20.5	16	13
SJ17-4	2.2	3		41	40	39.5	38	36.5	33.5	28	22	18
SJ17-S	3.0	4		52	51	50	48	45	42	35	28	23
SJ17-6	4.0	5.5		62	61	60	58	55	51	42	34	27
SJ17-7	4.0	5.5		73	71	70	67	64	59	49	40	31
SJ17-8	5.5	7.5		83	81	80	77	73	67	57	45	36
SJ17-9	5.5	7.5		93	91	90	87	82	76	64	52	40
SJ17-10	5.5	7.5		103	101	100	97	91	85	72	58	45
SJ17-11	7.5	10		113	111	109	106	100	94	79	64	50
SJ17-12	7.5	10		123	121	119	115	109	102	87	70	S5
SJ17-13	7.5	10	H	133	131	129	125	118	111	95	75	60
SJ17-14	9.2	12.5	(m)	143	141	139	134	12B	119	10Z	81	65
SJ17-15	9.2	12.5		153	151	14S	144	137	128	109	87	70
SJ17-16	9.2	12.5		163	161	158	154	146	136	116	92	75
SJ17-17	9.2	12.5		173	171	167	163	155	145	123	98	79
SJ17-18	11	15		184	181	177	173	164	154	130	104	84
SJ17-19	11	15		194	191	187	182	174	162	138	110	89
SJ17-20	11	15		204	201	197	192	184	171	145	116	94
SJ17-21	13	17.5		214	211	207	202	193	180	152	121	99
SJ17-22	13	17.5		224	221	217	211	202	188	160	127	104
SJ17-23	13	17.5		235	231	227	221	211	197	167	133	109
SJ17-24	13	17.5		245	241	236	230	220	205	174	139	113
SJ17-25	15	20		255	251	246	240	229	213	181	145	118
SJ17-26	15	20		265	261	256	250	23 B	222	189	150	122

Size and weight

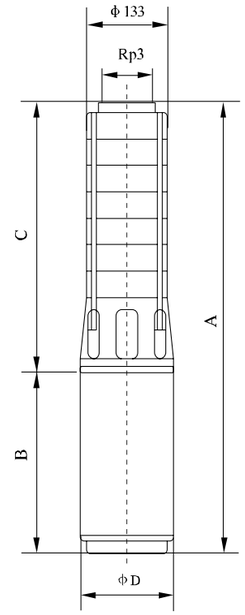
Model	Size (mm)				Weight (kg)
	A	B	C	ΦD	
SJ17-1	708	380	328	96	17
SJ17-2	828	440	388	96	21
SJ17-3	959	510	449	96	28
SJ17-4	1019	510	509	96	29
SJ17-S	1190	620	570	96	32
SJ17-6	1412	782	630	96/143	35/41
SJ17-7	1441	782	691	96/143	36/42
SJ17-8	1591	S40	751	96/143	41/49
SJ17-9	1652	840	812	96/143	42/50
SJ17-10	1712	840	872	96/143	43/51
SJ17-11	1853	920	933	96/143	49/60
SJ17-12	1913	920	993	96/143	50/61
SJ17-13	1974	920	1054	96/143	51/62
SJ17-14	2027	897	1130	143	75
SJ17-15	2088	897	1191	143	76
SJ17-16	2148	897	1251	143	77
SJ17-17	2209	897	1312	143	78
SJ17-18	2314	942	1372	143	85
SJ17-19	2375	942	1433	143	86
SJ17-20	2435	942	1493	143	87
SJ17-21	2534	980	1554	143	95
SJ17-22	2594	980	1614	143	96
SJ17-23	2655	980	1675	143	98
SJ17-24	2715	980	1735	143	99
SJ17-25	2826	1030	1796	143	106
SJ17-26	2886	1030	18S6	143	107

SJ30

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

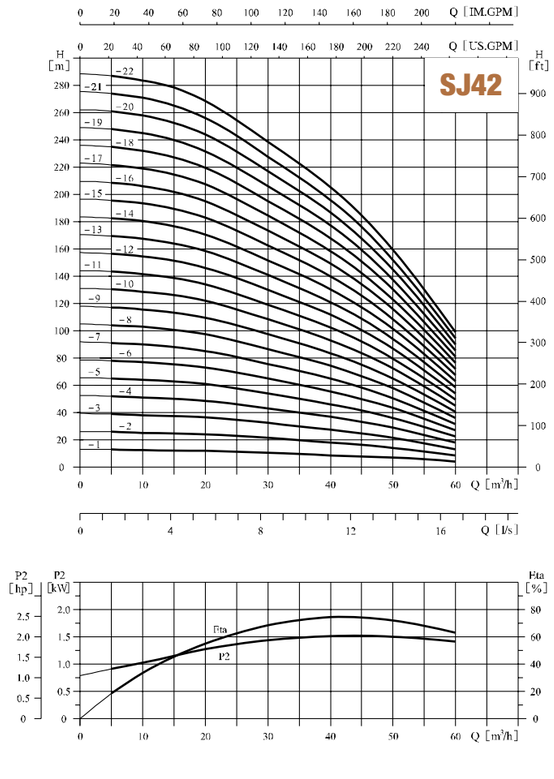
Model	Driving motor (kW)		Q (m³/h)	5	8	12	16	20	24	28	30	32	36	38
	(kW)	(hp)												
SJ30-1	1.1	1.5		11.5	11	10.5	10	9.5	9	8	7.5	7	5.5	4.5
SJ30-2	2.2	3		22.5	22	21	20	19	17.5	16	15	14	10.5	9
SJ30-3	3.0	4		33.5	33	32	30	28	26	24	22	20	16	14
SJ30-4	4.0	5.5		44.5	44	42	40	37	35	32	29	27	21	18
SJ30-5	5.5	7.5		55.5	55	53	50	47	44	40	37	34	27	23
SJ30-6	5.5	7.5		67	66	63	60	56	52	48	44	41	32	27
SJ30-7	7.5	10		77	76	74	70	65	61	55	52	48	37	32
SJ30-8	7.5	10		89	87	84	80	75	70	63	59	54	43	36
SJ30-9	9.2	12.5		101	98	95	90	84	78	71	66	61	48	41
SJ30-10	9.2	12.5		112	109	105	100	93	87	79	74	68	53	45
SJ30-11	9.2	12.5		123	120	116	110	103	96	87	81	75	59	50
SJ30-12	11	15		134	131	126	120	112	105	95	68	82	64	54
SJ30-13	11	15	H	145	142	137	129	121	113	103	96	88	69	59
SJ30-14	13	17.5	(m)	157	153	147	139	130	122	111	103	95	74	63
SJ30-15	13	17.5		168	164	156	149	140	131	119	110	102	80	68
SJ30-16	15	20		ieo	175	168	159	149	140	127	118	109	85	72
SJ30-17	15	20		190	186	179	169	158	148	135	125	116	90	77
SJ30-18	18.5	25		201	197	189	179	168	157	143	132	122	96	61
SJ30-19	18.5	25		212	207	200	189	177	166	150	140	129	101	86
SJ30-20	18.5	25		223	218	210	199	186	174	156	147	136	106	90
SJ30-21	18.5	25		235	229	221	209	196	183	166	155	143	112	95
SJ30-22	22	30		246	240	231	219	205	192	174	162	150	117	99
SJ30-23	22	30		258	251	242	229	214	201	182	169	156	122	104
SJ30-24	22	30		269	262	252	239	224	209	190	177	163	128	108
SJ30-25	22	30		281	273	263	249	233	216	198	184	170	133	113

Size and weight

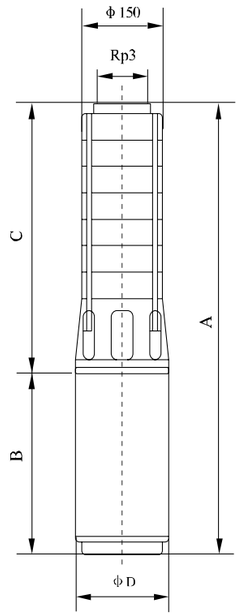
Model	Size (mm)				Weight (kg)
	A	B	C	ΦD	
SJ30-1	802	440	362	96	20
SJ30-2	968	510	458	96	28
SJ30-3	1174	620	554	96	31
SJ30-4	1432	782	650	96/143	35/41
SJ30-5	1586	840	746	96/143	40/48
SJ30-6	1682	840	842	96/143	42/50
SJ30-7	1858	920	938	96/143	49/60
SJ30-8	1954	920	1034	96/143	51/61
SJ30-9	2043	897	1146	143	75
SJ30-10	2139	897	1242	143	77
SJ30-11	2235	897	1338	143	79
SJ30-12	2376	942	1434	143	85
SJ30-13	2472	942	1530	143	87
SJ30-14	2606	980	1626	143	96
SJ30-15	2702	980	1722	143	98
SJ30-16	2848	1030	1818	143	106
SJ30-17	2944	1030	1914	143	10B
SJ30-18	3100	1090	2010	143	117
SJ30-19	3196	1090	2106	143	119
SJ30-20	3292	1090	2202	143	120
SJ30-21	3388	1090	2298	143	122
SJ30-22	3554	1160	2394	143	138
SJ30-23	3650	1160	2490	143	140
SJ30-24	3746	1160	2586	143	142
SJ30-25	3842	1160	2682	143	144

SJ42

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

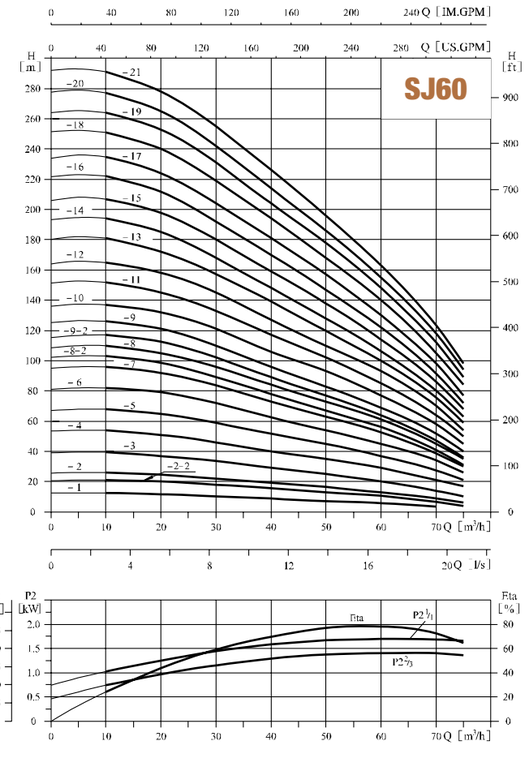
Model	Driving motor (kW)		Q (m³/h)	5	10	20	30	40	42	50	60
	(kW)	(hp)									
SJ42-1	2.2	3		13	12.5	12	10.5	9	8.5	7	4
SJ42-2	3.0	4		26	25.5	24	21.5	18.5	17	14.5	8.5
SJ42-3	5.5	7.5		40	38.5	36	32.5	28	26.5	22	13
SJ42-4	7.5	10		53	52	49	43	37	36	29	18
SJ42-5	7.5	10		66	65	61	54	47	45	38	23
SJ42-6	9.2	12.5		79	78	74	66	57	54	45	28
SJ42-7	11	15		92	91	86	77	66	63	52	32
SJ42-8	13	17.5		105	104	98	87	75	72	58	36
SJ42-9	15	20		118	117	110	97	84	80	65	40
SJ42-10	15	20		132	130	122	108	93	89	72	45
SJ42-11	18.5	25	H (m)	144	142	134	119	103	98	79	49
SJ42-12	18.5	25		157	155	146	130	112	107	87	54
SJ42-13	22	30		170	168	158	141	122	116	94	58
SJ42-14	22	30		183	181	170	152	131	125	102	63
SJ42-15	22	30		196	194	182	163	140	134	109	67
SJ42-16	25	34		209	207	194	174	150	143	116	72
SJ42-17	25	34		222	220	206	184	159	152	123	77
SJ42-18	30	40		235	233	218	195	168	161	131	81
SJ42-19	30	40		248	246	231	206	178	170	138	86
SJ42-20	30	40		261	259	243	217	187	179	145	90
SJ42-21	37	50		274	271	255	228	196	188	152	95
SJ42-22	37	50		287	283	267	238	205	197	160	99

Size and weight

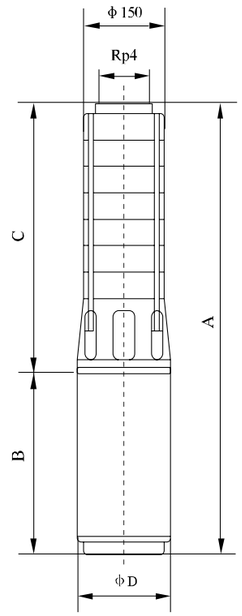
Model	Size (mm)				Weight (kg)
	A	B	C	ΦD	
SJ42-1	888	510	378	96	29
SJ42-2	1111	620	491	96	33
SJ42-3	1444	840	604	96/143	40/48
SJ42-4	1637	920	717	96/M3	47/58
SJ42-5	1750	920	830	96/143	49/60
SJ42-6	1856	897	959	143	73
SJ42-7	2014	942	1072	143	80
SJ42-8	2165	980	1165	143	89
SJ42-9	2328	1030	1298	143	97
SJ42-10	2441	1030	1411	143	100
SJ42-11	2614	1090	1524	143	109
SJ42-12	2727	1090	1637	143	111
SJ42-13	2910	1160	1750	143	127
SJ42-14	3023	1160	1863	143	129
SJ42-15	3136	1160	1976	143	131
SJ42-16	3331	1242	2089	143	145
SJ42-17	3444	1242	2202	143	147
SJ42-18	3697	1382	2315	143	162
SJ42-19	3810	1382	2428	143	164
SJ42-20	3923	1362	2541	143	167
SJ42-21	4224	1570	2654	143	192
SJ42-22	4337	1570	2767	143	194

SJ60

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

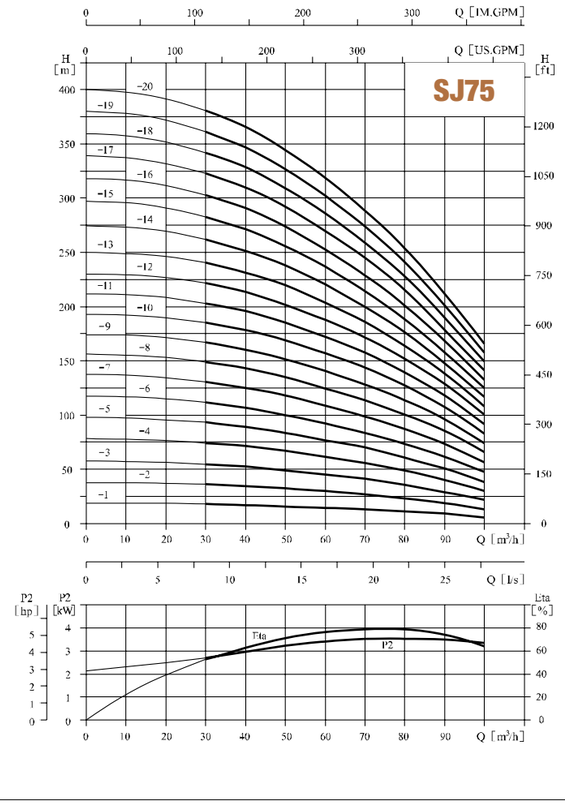
Model	Driving motor (kW)		Q (m³/h)	10	20	30	40	50	60	70	75
	(kW)	(hp)									
SJ60-1	2.2	3		12.5	12	10.5	8.5	7	6	4	–
SJ60-2-2	3.0	4		21	20	18	15.5	13	10.5	6.5	4
SJ60-2	4.0	5.5		26	24.5	22	19	16.5	12.5	9	6
SJ60-3	5.5	7.5		40	37	34	29	25	20	14	10
SJ60-4	7.5	10		54	51	46	40	35	29	21	17
SJ60-5	9.2	12.5		68	65	59	51	45	37	28	21
SJ60-6	11	15		82	79	72	62	54	45	34	26
SJ60-7	13	17.5		96	92	84	73	63	53	39	30
SJ60-8-2	13	17.5		103	99	89	78	67	56	41	31
SJ60-8	15	20		110	105	96	84	73	61	45	35
SJ60-9-2	15	20		117	112	102	89	77	64	47	36
SJ60-9	18.5	25	H (m)	124	121	110	96	85	69	52	40
SJ60-10	18.5	25		137	132	121	106	93	77	58	45
SJ60-11	22	30		152	145	133	117	102	85	64	50
SJ60-12	22	30		165	158	145	127	110	93	70	54
SJ60-13	22	30		181	172	157	139	120	100	75	59
SJ60-14	25	34		194	185	168	148	128	106	80	63
SJ60-15	25	34		207	198	180	159	138	114	85	66
SJ60-16	30	40		222	212	192	170	147	122	91	72
SJ60-17	30	40		235	224	204	181	157	130	98	77
SJ60-18	30	40		251	240	219	194	166	140	105	84
SJ60-19	37	50		264	253	231	204	178	148	112	89
SJ60-20	37	50		277	265	242	214	186	155	118	94
SJ60-21	37	50		291	278	255	226	196	163	123	98

Size and weight

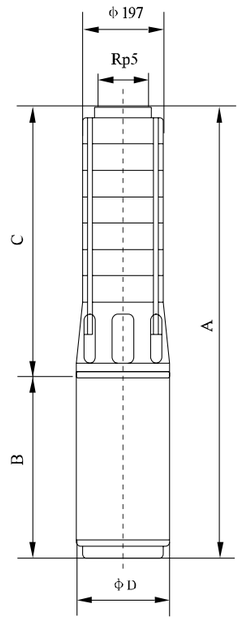
Model	Size (mm)				Weight (kg)
	A	B	C	ΦD	
SJ60-1	878	510	368	96	30
SJ60-2-2	1101	620	481	96	33
SJ60-2	1263	782	481	96/143	35/41
SJ60-3	1434	840	594	96/143	41/49
SJ60-4	1627	920	707	96/143	48/59
SJ60-5	1717	897	820	143	72
SJ60-6	1891	942	949	143	78
SJ60-7	2042	980	1062	143	87
SJ60-8-2	2155	980	1175	143	88
SJ60-8	2205	1030	1175	143	96
SJ60-9-2	2318	1030	1288	143	97
SJ60-9	2378	1090	1288	143	105
SJ60-10	2491	1090	1401	143	107
SJ60-11	2674	1160	1514	143	123
SJ60-12	2787	1160	1627	143	125
SJ60-13	2900	1160	1740	143	127
SJ60-14	3095	1242	1853	143	141
SJ60-15	3208	1242	1966	143	143
SJ60-16	3461	1382	2079	143	158
SJ60-17	3594	1382	2192	143	160
SJ60-18	3687	1382	2305	143	162
SJ60-19	3988	1570	2418	143	188
SJ60-20	4101	1570	2531	143	190
SJ60-21	4214	1570	2644	143	191

SJ75

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

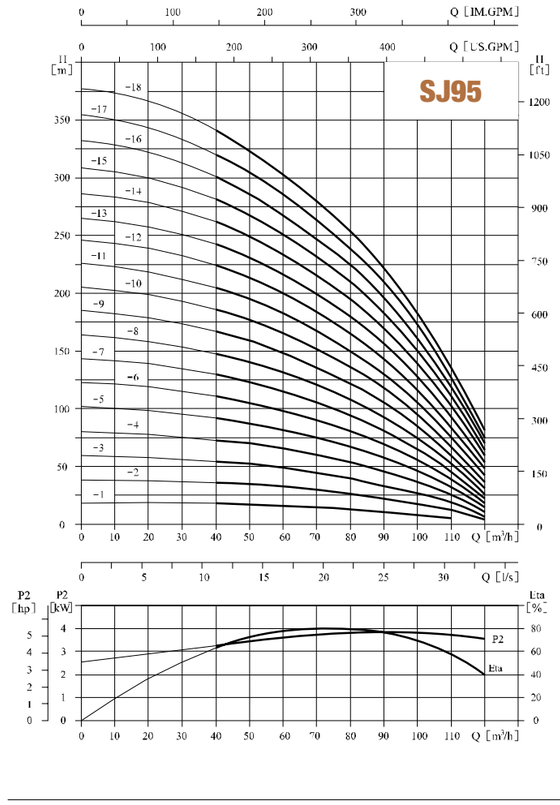
Model	Driving motor (kW)		Q (m³/h)	30	40	50	60	70	75	80	90	100
	(kW)	(hp)										
SJ75-1	4	5.5		18	17	155	14.5	13	12	11	9	5.5
SJ75-2	7.5	10		36.5	34.5	32	30	27	25	23	19	12.5
SJ75-3	11	15		54.5	52.5	49	45	41	38	35.5	29	21.5
SJ75-4	15	20		73.5	71	66.5	61	55.5	52	48	40	30
SJ75-5	18.5	25		92	89	83	76	70	65	60.5	51	38
SJ75-6	22	30		111	107	100	91	64	79	73	62	47
SJ75-7	30	40		130	125	118	107	98	93	67	73	56
SJ75-8	30	40		148	143	135	124	113	107	101	85	65
SJ75-9	37	50		167	161	152	140	128	121	114	96	74
SJ75-10	37	50	H	185	178	169	157	143	135	127	107	83
SJ75-11	45	60	(m)	203	196	185	172	158	148	139	118	92
SJ75-12	45	60		222	214	202	188	172	162	152	129	100
SJ75-13	55	75		241	232	220	204	186	175	164	139	108
SJ75-14	55	75		262	251	238	220	200	188	176	149	116
SJ75-15	55	75		283	271	256	236	214	201	188	159	124
SJ75-16	63	85		303	291	274	253	229	215	202	169	133
SJ75-17	63	85		323	310	292	270	245	229	215	179	142
SJ75-18	75	100		342	329	309	286	259	243	226	190	150
SJ75-19	75	100		361	347	327	302	274	257	241	201	158
SJ75-20	75	100		381	366	345	318	288	271	254	212	167

Size and weight

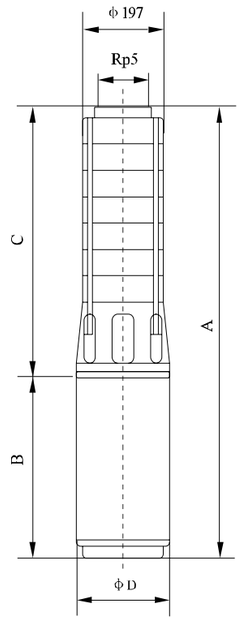
Model	Size (mm)				Weight (kg)
	A	B	C	ΦD	
SJ75-1	1270	782	488	143	56
SJ75-2	1424/1411	810/780	614/631	143/184	78/97
SJ75-3	1660/1577	920/800	740/757	143/184	92/116
SJ75-4	1896/1743	1030/860	866/883	143/184	110/134
SJ75-5	2082/1899	1090/890	992/1009	143/184	122/152
SJ75-6	2278/2075	1160/940	1118/1135	143/184	141/178
SJ75-7	2574/2311	1330/1050	1244/1261	143/184	171/211
SJ75-8	2700/2437	1330/1050	1370/1387	143/184	176/216
SJ75-9	3066/2663	1570/1150	1496/1513	143/184	204/233
SJ75-10	3192/2789	1570/1150	1622/1639	143/184	209/238
SJ75-11	3005	1240	1765	184	256
SJ75-12	3131	1240	1891	184	261
SJ75-13	3387	1370	2017	184	279
SJ75-14	3513	1370	2143	184	285
SJ75-15	3639	1370	2269	184	290
SJ75-16	3885	1490	2395	192	309
SJ75-17	4011	1490	2521	192	315
SJ75-18	4187	1540	2647	192	341
SJ75-19	4313	1540	2773	192	346
SJ75-20	4439	1540	2899	192	351

SJ95

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

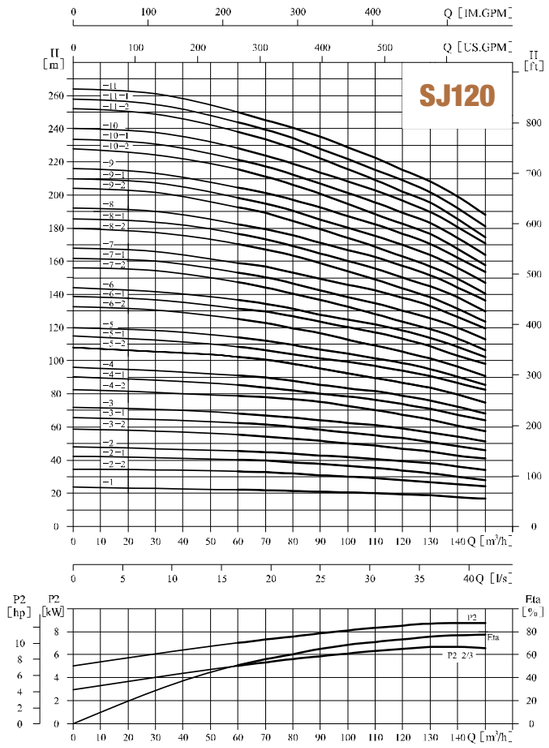
Model	Driving motor (kW)		Q (m³/h)	40	50	60	70	80	90	95	100	110	120
	(kW)	(hp)											
SJ95-1	4	5.5		17.5	16.5	15.5	14	12.5	10.5	9.5	8	5	—
SJ95-2	9.2	12.5		36	34	32	28.5	26	21.5	20	17	12	3.5
SJ95-3	13	17.5		54	52	48.5	44.5	40	33	30	26	19	6
SJ95-4	18.5	25		72	70	65	60	54	45	41	36	25.5	10.5
5J95-5	22	30		91	87	81.5	75	68	57	51.5	46	32	14.5
SJ95-6	25	34		110	104	98	90	81	69	62	55	38	16
SJ95-7	30	40		129	122	115	105	94	81	73	65	45	22
SJ95-8	37	50		148	141	131	120	108	93	84	75	52	26
SJ95-9	37	50	H	167	159	148	135	122	105	95	85	59	31
5J95-10	45	60	(m)	186	177	165	151	136	117	106	95	67	36
SJ95-11	45	60		205	195	182	167	150	130	117	105	75	42
SJ95-12	55	75		224	213	199	183	165	143	129	116	S4	48
SJ95-13	55	75		243	231	216	199	180	156	141	127	93	53
SJ95-14	55	75		262	249	233	215	195	169	153	138	102	59
SJ95-15	63	85		281	268	250	231	210	183	166	149	111	64
SJ95-16	63	85		301	286	267	247	225	197	178	160	119	70
SJ95-17	75	100		321	304	284	263	240	210	190	171	127	75
SJ95-18	75	100		342	323	302	279	255	222	202	182	135	61

Size and weight

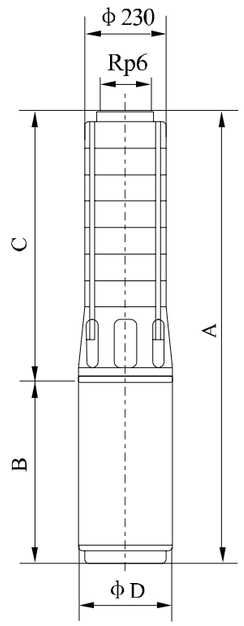
Model	Size (mm)				Weight (kg)
	A	B	C	ΦD	
SJ95-1	1270	782	488	143	57
SJ95-2	1484/1431	870/800	614/631	143/184	83/105
SJ95-3	1720/1617	980/860	740/757	143/184	100/129
SJ95-4	1956/1773	1090/890	866/883	143/184	119/148
5J95-5	2152/1949	1160/940	992/1009	143/184	138/175
SJ95-6	2348/2125	1230/990	1116/1135	143/184	155/188
SJ95-7	2574/2311	1330/1050	1244/1261	143/184	174/213
SJ95-8	2940/2537	1570/1150	1370/1387	143/184	202/231
SJ95-9	3066/2663	1570/1150	1496/1513	143/184	208/237
5J95-10	2879	1240	1639	184	254
SJ95-11	3005	1240	1765	184	260
SJ95-12	3261	1370	1891	184	279
SJ95-13	3387	1370	2017	184	284
SJ95-14	3513	1370	2143	184	290
SJ95-15	3759	1490	2269	192	310
SJ95-16	3885	1490	2395	192	316
SJ95-17	4061	1540	2521	192	342
SJ95-18	4187	1540	2647	192	348

SJ120

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

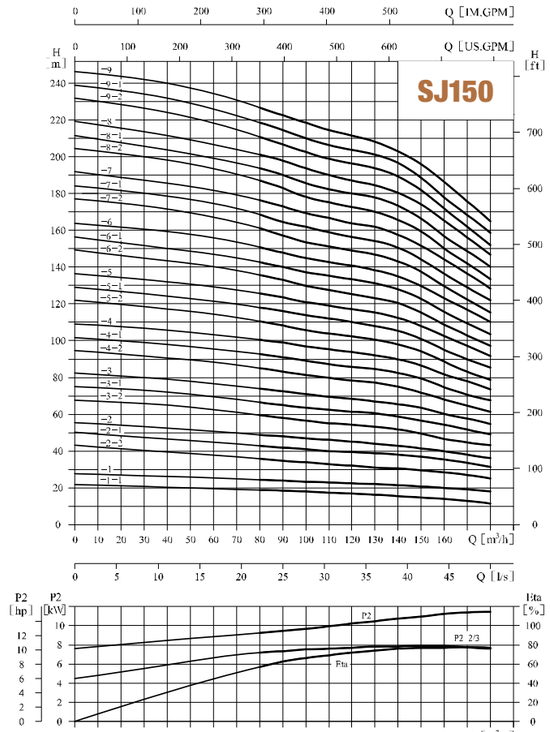
Model	Driving motor (kW)		Q (m³/h)	60	70	80	90	100	110	120	130	140	150
	(kW)	(hp)											
SJ120-1	11	15		22.5	22	21.5	21	20.5	20	19	18.5	17.5	16.5
SJ120-2-2	15	20		33.5	33	32	30	29	28.5	27.5	26.5	24.5	24
SJ120-2-1	18.5	25		40.5	40	38.5	37.5	36	35.5	33.5	32.5	29.5	28
SJ120-2	22	30		45.5	44.5	43.5	42.5	41.5	40.5	39	3S	36	34
SJ120-3-2	25	34		55	54.5	52.5	51	49.5	48.5	46.5	45	42.5	40.5
SJ120-3-1	30	40		62.5	61.5	60	58	56	54	53.5	51	48.5	46
SJ120-3	30	40		66	67	65.5	64	62	61	59	57	54	51
SJ120-4-2	37	50		78.5	77	75	72.5	70.5	69	66.5	65	60.5	57.5
SJ120-4-1	37	50		85	84	82	79.5	77	76	73.5	71	67	64
SJ120-4	37	50		90.5	89.5	87.5	85.5	83	81.5	78.5	76	72	68
SJ120-5-2	45	60		102	100.5	97.5	95	91.5	90	86.5	84	79	74.5
SJ120-5-1	45	60		108.5	106.5	103.5	101	98.5	96.5	94	91	86.5	82
SJ120-5	55	75		113.5	112	109.5	106.5	103.5	101.5	98.5	95	90	85
SJ120-6-2	55	75		125	122.5	119	116.5	112.5	109	104.5	101.5	96	90.5
SJ120-6-1	55	75		131	129.5	125.5	123.5	120	117	113	109	103	96
SJ120-6	63	85	H (m)	136	134.5	131	127.5	124.5	121.5	118	1.14	108	102
SJ120-7-2	63	85		147	144	140.5	136.5	132.5	128	123	119	113	106
SJ120-7-1	63	85		153	150	146.5	142.5	138.5	135	130	125.5	120	112.5
SJ120-7	75	100		159	156.5	153	149	145	142	138	133	126	119.5
SJ120-8-2	75	100		170	167	164.5	158	153	148.5	143	138	131.5	123
SJ120-8-1	75	100		175.5	173	168.5	163.5	159	158.5	150	145	138	129.5
SJ120-8	75	100		181.5	179.5	175	170.5	166	163	157.5	152.5	144	136.5
SJ120-9-2	90	120		192.5	189	184	179.5	174	168.5	162.5	157	149.5	140
SJ120-9-1	90	120		198	195	190.5	185	180	175.5	169.5	164	156	147
SJ120-9	90	120		204	201.5	198	191.5	186.5	182.5	177.5	171.5	162	153.5
SJ120-10-2	90	120		215.5	211	206	200.5	194.5	188.5	182.5	176.5	167.5	157.5
SJ120-10-1	90	120		22L	217	212	206.5	200.5	195.5	189.5	183	174	164
SJ120-10	110	150		227	223.5	219	213	207.5	202.5	197	190.5	180	170.5
SJ120-11-2	110	150		238	233	228	222	215.5	208	202	195.5	185.5	174.5
SJ120-11-1	110	150		243.5	239.5	234	227.5	221.5	215	209	202	192	181
SJ120-11	110	150		250	245.5	241	234.5	228	222.5	216.5	209.5	198.5	187.5

Size and weight

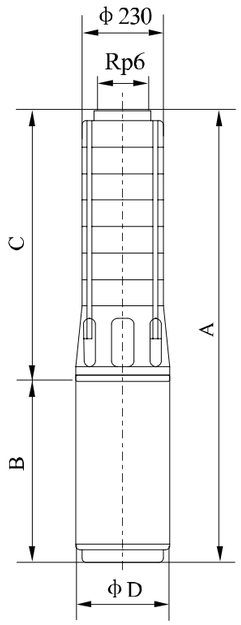
Model	Size (mm)				Weight (kg)
	A	B	C	ΦD	
SJ120-1	1451/1380/–	920/820/–	531/560/–	144/184/–	96/121/–
SJ120-2-2	1721/1580/–	1030/860/–	691/720/–	144/184/–	111/135/–
SJ120-2-1	1781/1610/–	1090/890/–	691/720/–	144/184/–	118/140/–
SJ120-2	1921/1660/–	1230/940/–	691/720/–	144/184/–	127/155/–
SJ120-3-2	2093/1870/–	L242/990/–	851/880/–	144/184/–	142/173/–
SJ120-3-1	2233/1930/2002	1382/1050/1122	851/880/880	144/184/236	148/187/227
SJ120-3	2233/1930/2002	1362/1050/1122	851/880/880	144/184/236	148/187/227
SJ120-4-2	2581/2190/2202	1570/1150/1162	1011/1040/1040	144/184/236	166/210/252
SJ120-4-1	2581/2190/2202	1570/1150/1162	1011/1040/1040	144/184/236	166/210/252
SJ120-4	2581/2190/2202	1570/1150/1162	1011/1040/1040	144/184/236	166/210/252
SJ120-5-2	–/2440/2392	–/1240/1192	–/1200/1200	–/184/236	–/233/262
SJ120-5-1	–/2440/2392	–/1240/1192	–/1200/1200	–/184/236	–/233/282
SJ120-5	–/2570/2472	–/1370/1272	–/1200/1200	–/184/236	–/2S3/215
SJ120-6-2	–/2730/2632	–/1370/1272	–/1360/1360	–/184/236	–/261/323
SJ120-6-1	–/2730/2632	–/1370/1272	–/1360/1360	–/184/236	–/261/323
SJ120-6	–/2650/2692	–/1490/1332	–/1360/1360	–/192/236	–/288/341
SJ120-7-2	–/3010/2852	–/1490/1332	–/1520/1520	–/192/236	–/296/349
SJ120-7-1	–/3010/2852	–/1490/1332	–/1520/15Z0	–/192/236	–/296/349
SJ120-7	–/3060/2942	–/1540/1422	–/1520/1520	–/192/236	–/306/387
SJ120-8-2	–/3220/3102	–/1540/1422	–/1680/1680	–/192/236	–/314/395
SJ120-8-1	–/3220/3102	–/1540/1422	–/1680/1680	–/192/236	–/314/395
SJ120-8	-/3220/3102	–/1540/1422	–/1680/1680	–/192/236	–/314/395
SJ120-9-2	–/3484/3371	–/1644/1531	–/1840/1840	–/192/236	–/342/416
SJ120-9-1	–/3484/3371	–/1644/1531	–/1840/1840	–/192/236	–/342/416
SJ120-9	–/3484/3371	–/1644/1531	–/1840/1840	–/192/236	–/342/416
SJ120-10-2	–/3644/3531	–/1644/1531	–/2000/2000	–/192/236	–/350/424
SJ120-10-1	–/3544/3531	–/1644/1531	–/2000/2000	–/192/236	–/350/424
SJ120-10	–/3764/3641	–/1764/1641	–/2000/2000	–/192/236	–/376/461
SJ120-11-2	–/3924/3801	–/1764/1641	–/2160/2160	–/192/236	–/384/469
SJ120-11-1	–/3924/3801	–/1764/1641	–/2160/2160	–/192/236	–/384/469
SJ120-11	–/3924/3801	–/1764/1641	–/2160/2160	–/192/236	–/384/469

SJ150

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

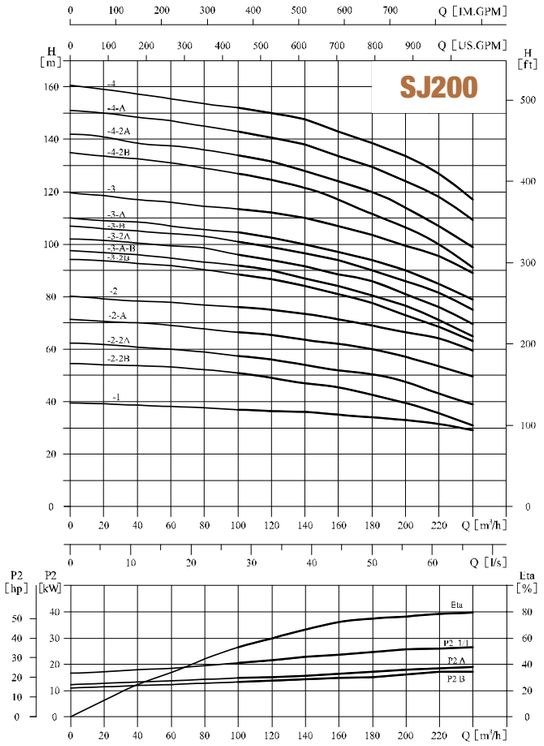
Model	Driving motor (kW)		Q (m³/h)	80	90	100	110	120	130	140	150	160	170	180
	(kW)	(hp)												
SJ150-1-1	9.2	12.5		18.5	18	17.5	17	16.5	16	15	14.5	13.5	13	11.5
SJ150-1	13	17.5		24	23.5	23	22.5	22	21.5	21	20	19.5	19	16
SJ150-2-2	18.5	25		35.5	34	32	31.5	31	29.5	29	28.5	28	27	25
SJ150-2-1	22	30		43	41.5	40	39	38.5	38	37.5	36	35.5	34	31
SJ150-2	25	34		48.5	47.5	46	45	44.5	44	42.5	41	39.5	38	36
SJ150-3-2	30	40		60	57	54.5	54	53.5	53	52.5	49.5	46.5	44.5	43
5J150-3-1	37	50		66.5	64	62.5	61.5	60.5	60	59.5	56.5	54	51.5	49
SJ150-3	37	50		74.5	72.5	70.5	69.5	66	67.5	65.5	63.5	60	57.5	54.5
SJ150-4-2	45	60		85.5	83	80	79	77.5	77	76	73	66,5	63.5	61
SJ150-4-1	45	60		93	90	87.5	86.5	84.5	83.5	83	79.5	73.S	70.5	67
5J150-4	55	75		100.5	98	96	94.5	93	92.5	89.5	86.5	80.5	77.5	73
SJ150-5-2	55	75		111.5	107	104	103	102	101	98	94	66.5	61.5	78.5
SJ150-5-1	55	75	H (m)	118.5	114.5	112	110.5	108.5	107	105.5	101	94	89.5	85
SJ150-5	63	85		126	122.5	120	118	116	115	112.5	108.5	101.5	97	91.5
5J150-6-2	63	85		137	131.5	128	126.5	123	122	120.5	115.5	107	101	97
5J150-6-1	75	100		144	139	136	134	132	131.5	128	122.5	114.5	109	103.5
SJ150-6	75	100		151.5	147	144	141.5	139.5	136	135	130	122	116.5	110
5J150-7-2	75	100		162.5	156	152.5	150.5	146	145	143	138	126	121	115
SJ150-7-1	90	120		169.5	163.5	160.5	158	155	153	150.5	145	135.5	129	121.5
SJ150-7	90	120		177	171.5	168,5	165.5	163.5	162.5	157.5	152.5	143	136.5	128
5J150-8-2	90	120		188	180.5	177	174.5	172	171	165.5	160.5	149	140.5	133.5
SJ150-8-1	110	150		195	188	185	182	180	178.5	173	168.5	156.5	148.5	140
SJ150-8	110	150		202.5	196	193	189.5	187	186	180	175	164	156	146.5
SJ150-9-2	110	150		213.5	205	201.5	198	196	194	188.5	182.5	170.5	160	152
SJ1S0-9-1	110	150		220.5	212.5	209.5	205.5	203	201.5	196	189.5	178	166	158.5
5J150-9	110	150		228	220.5	217.5	213	210	209	203	197	185.5	175.5	165

Size and weight

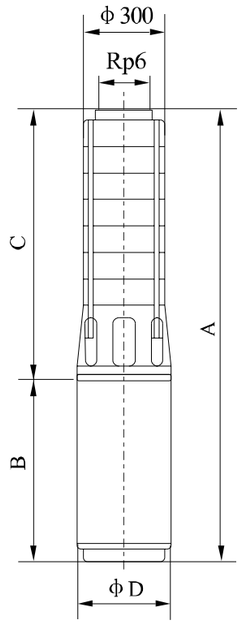
Model	Size (mm)				Weight (kg)
	A	B	C	ΦD	
SJ150-1-1	1428/1360/–	897/800/–	531/560/–	144/148/–	92/117/–
SJ150-1	1561/1420/–	1030/860/–	531/560/–	144/148/–	100/124/–
SJ150-2-2	1781/1610/–	1090/890/–	691/720/–	144/148/–	119/141/–
SJ150-2-1	1851/1660/–	1160/940/–	691/720/–	144/148/–	128/156/–
SJ150-2	1933/1710/–	1242/990/–	691/720/–	144/148/236	135/166/–
SJ150-3-2	2233/1930/2002	1382/1050/U22	851/380/880	144/184/236	149/188/228
5J150-3-1	2421/2030/2042	1570/1150/1162	851/880/880	144/184/236	158/202/246
SJ150-3	2421/2030/2042	1570/1150/1162	851/380/880	144/134/236	158/202/246
SJ150-4-2	–/2280/2232	–/1240/1192	–/1040/1040	–/184/236	–/225/274
SJ150-4-1	–/2280/2232	–/1240/1192	–/1040/1040	–/184/236	–/225/274
5J150-4	–/2410/2312	–/1370/1272	–/1040/1040	–/1S4/236	–/245/307
SJ150-5-2	–/2570/2472	–/1370/1272	–/1200/1200	–/184/236	–/253/315
SJ150-5-1	–/2571/2472	–/1370/1272	–/1200/1200	–/184/236	–/253/315
SJ150-5	–/2690/2532	–/1490/1332	–/1200/1200	–/192/236	–/280/333
5J150-6-2	–/2850/2692	–/1490/1332	–/1360/1360	–/192/236	–/288/341
5J150-6-1	–/2900/2782	–/1540/1422	–/1360/1360	–/192/236	–/298/379
SJ150-6	–/2900/2782	–/1540/1422	–/l 360/1360	–/192/236	–/298/379
5J150-7-2	–/3060/2942	–/1540/1422	–/1520/1520	–/192/236	–/306/387
SJ150-7-1	–/3164/3051	–/1644/1531	–/1520/1520	–/192/236	–/326/400
SJ150-7	–/3164/3051	–/1644/1531	–/1520/1S20	–/192/236	–/326/400
5J150-8-2	–/3324/3211	–/1644/1531	–/1680/1680	–/192/236	–/334/408
SJ150-8-1	–/3444/3321	–/1764/1641	–/1680/1680	–/192/236	–/360/426
SJ150-8	–/3444/3321	–/1764/1641	–/1680/1680	–/192/236	–/360/426
SJ150-9-2	–/3604/3481	–/1764/1641	–/1840/1840	–/192/236	–/369/435
SJ1S0-9-1	–/3604/3481	–/1764/1641	–/1840/1840	–/192/236	–/369/435
5J150-9	–/3604/3481	–/1764/1641	–/1840/1840	–/192/236	–/369/435

SJ200

Performance curve ISO9906 Annex A 2850rpm



Installation sketch



Performance table

Model	Driving motor (kW)		Q (m³/h)	100	120	140	160	180	200	220	240
	(kW)	(hp)									
SJ200-1	30	40	H (m)	37	36.5	36	35	34	33	31.5	29
SJ200-2-2B	37	50		51	49	47	45.5	42.5	39.5	35.5	31
SJ200-2-2A	45	60		57.5	56	54	52	50.5	47.5	43	39
SJ200-Z-A	55	75		66.5	65.5	63.5	62	60	57	53.5	49.5
SJ200-Z	55	75		76	75	73.5	71.5	69	66.5	64	59.5
SJ200-3-2B	75	100		68.5	87	84	81	78	72.5	68.5	63
SJ200-3-A-B	75	100		92	90	87	84	80.5	76.5	71	65
SJ200-3-2A	75	100		96	94	91.5	88.5	86	81	76	69.5
SJ200-3-B	75	100		101	99	96.5	94	90	86	81.5	109.5
SJ200-3-A	75	100		104.5	102.5	100	97	94	90	85	75
SJ200-3	90	120		113.5	112	110	107	103.5	99.5	95.5	79
SJ200-4-2B	90	120		127	124.5	121.5	117	111.5	106.5	100	89
SJ200-4-2A	110	150		134	131.5	127.5	124	120	114	107	91
SJ200-4-A	110	150		143	140.5	138	133.5	129.5	124	118	99
SJ200-4	110	150		152	150	147.5	143	136.5	133.5	127	117

Size and weight

Model	Size (mm)				Weight (kg)
	A	B	C	ΦD	
SJ17-1	708	380	328	96	17
SJ17-2	828	440	388	96	21
SJ17-3	959	510	449	96	28
SJ17-4	1019	510	509	96	29
SJ17-S	1190	620	570	96	32
SJ17-6	1412	782	630	96/143	35/41
SJ17-7	1441	782	691	96/143	36/42
SJ17-8	1591	S40	751	96/143	41/49
SJ17-9	1652	840	812	96/143	42/50
SJ17-10	1712	840	872	96/143	43/51
SJ17-11	1853	920	933	96/143	49/60
SJ17-12	1913	920	993	96/143	50/61
SJ17-13	1974	920	1054	96/143	51/62
SJ17-14	2027	897	1130	143	75
SJ17-15	2088	897	1191	143	76

HY04

4” Rewindable Oil filled Submersible motors

4” Rewindable Oil Filled Submersible Motors

Motors designed to work in 4” or wider wells. The use of very high quality Made in Italy materials and our strict tests together with consolidated know how ensure high mechanical resistance and high performing electric features.

All parts in contact with water are in AISI 304 stainless steel.The power cable with removable connector ensures perfect water-tightness.

Product features

External sleeve and bottom:
Made in AISI 304 stainless steel. More specifically, sleeve is made of AISI 304L (Low carbon) to avoid possible corrosions on the welding.

Upper Bracket:
Cast iron with cataphoresis treatment and protected with an AISI 304 stainless steel cover. Sleeve clamping is ensured by 4 inserts in low power motors and 6 inserts in motors bigger than 3Hp.

Mechanical Seal:
Graphite/ceramic in the standard version; SIC-SIC version available upon request.

Ball Bearings:
Duly oversized to ensure a long lasting motor.

Stator:
With 24 slots, specifically developed to achieve maximum electrical yield. Airtight sealed and immerged in selected mineral white and highly refined oil, suitable to be used in drinking water (F.D.A., Food and Drug Administration, approved)

Removable Power Cable-Connector:
It ensures perfect sealing in the most critical conditions and it aids maintenance operations. More specifically, the connector prevents oil from rising in the conductors up to the joint, thus enabling immersion at greater depths. The power cable complies with all major standards on the use in drinking water (KTW, ACS, WRAS).

Shaft:
Carbon-steel alloys in the rotor area, to foster electrical features. AISI 304 stainless steel projection. DUPLEX, a special type of stainless steel, replaces AISI 304 in motors bigger than 3Hp. This steel combines excellent resistance to corrosion and high mechanical resistance, which is necessary where static torque becomes really important.

100% tested:
All motors are tested at the end of the line. An extremely effective seal check is also carried out on all motors.

Single phase submersible motors 50Hz 230v oil filled

Type	P_2 [Hp]	P_2 [kW]	Voltage [V]	Ph	I_n [A]	I_{avv} [A]	rpm	φ cos	η [%]	Capacitor [µF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Length [m]
HYO4-037S230	0,5	0,37	230	1	3,6	12	2810	0,87	52	20	2000	311,3	6,45	4 x 1,5	1,7
HYO4-055S230	0,75	0,55	230	1	4,7	16,5	2810	0,88	57	25	2000	331,3	7,2	4 x 1,5	1,7
HYO4-075S230	1	0,75	230	1	5,9	18,9	2825	0,9	62	35	2000	356,3	8,45	4 x 1,5	1,7
HYO4-110S230	1,5	1,1	230	1	8,3	26,2	2840	0,91	64	40	2000	386,3	10,2	4 x 1,5	1,7
HYO4-150S230	2	1,5	230	1	10,7	35	2845	0,93	66	60	2000	436,3	11,65	4 x 1,5	1,7
HYO4-220S230	3	2,2	230	1	15,2	47	2820	0,93	67	80	2000	481,3	14,9	4 x 1,5	1,7
HYO4-370S230	5	3,7	230	1	24,5	95	2810	0,95	73	10+315/400	5000	699,5	24,15	4 x 2	2,7

Three phase submersible motors 50Hz 230v oil filled

Type	P_2 [Hp]	P_2 [kW]	Voltage [V]	Ph	I_n [A]	I_{avv} [A]	rpm	φ cos	η [%]	Capacitor [µF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Length [m]
HYO4-037T230	0,5	0,37	230	3	2,2	8,9	2855	0,75	57	-	2000	311,3	6,45	4 x 1,5	1,7
HYO4-055T230	0,75	0,55	230	3	3,4	13,5	2830	0,70	62	-	2000	331,3	7,2	4 x 1,5	1,7
HYO4-075T230	1	0,75	230	3	4,1	15,5	2820	0,74	62	-	2000	356,3	8,45	4 x 1,5	1,7
HYO4-110T230	1,5	1,1	230	3	5,9	25	2825	0,68	68	-	2000	371,3	9,35	4 x 1,5	1,7
HYO4-150T230	2	1,5	230	3	8,2	27,5	2830	0,64	70	-	2000	386,3	10,2	4 x 1,5	1,7
HYO4-220T230	3	2,2	230	3	10,6	39,5	2815	0,70	72	-	2000	436,3	11,65	4 x 1,5	1,7
HYO4-300T230	4	3	230	3	12,8	39,5	2830	0,81	75	-	3000	481,3	14,9	4 x 1,5	1,7
HYO4-400T230	5,5	4	230	3	15,6	86	2840	0,83	76	-	5000	609,5	20,05	4 x 2	2,7
HYO4-550T230	7,5	5,5	230	3	22,7	109	2825	0,78	79	-	5000	699,5	24,65	4 x 2	2,7

Three phase submersible motors 50Hz 400v oil filled

Type	P_2 [Hp]	P_2 [kW]	Voltage [V]	Ph	I_n [A]	I_{avv} [A]	rpm	φ cos	η [%]	Capacitor [µF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Length [m]
HYO4-037T400	0,5	0,37	400	3	1,8	5,8	2850	0,54	58	-	2000	311,3	6,45	4 x 1,5	1,7
HYO4-055T400	0,75	0,55	400	3	2	8	2835	0,65	63	-	2000	331,3	7,2	4 x 1,5	1,7
HYO4-075T400	1	0,75	400	3	2,5	9,4	2825	0,77	63	-	2000	356,3	8,45	4 x 1,5	1,7
HYO4-110T400	1,5	1,1	400	3	3,4	15,5	2825	0,69	68	-	2000	371,3	9,35	4 x 1,5	1,7
HYO4-150T400	2	1,5	400	3	4,8	18	2835	0,63	71	-	2000	386,3	10,2	4 x 1,5	1,7
HYO4-220T400	3	2,2	400	3	6,1	39,5	2810	0,69	72	-	2000	436,3	11,65	4 x 1,5	1,7
HYO4-300T400	4	3	400	3	7,1	39,5	2835	0,69	75	-	3000	481,3	14,9	4 x 1,5	1,7
HYO4-400T400	5,5	4	400	3	9,2	49,5	2845	0,83	76	-	5000	609,5	20,05	4 x 2	2,7
HYO4-550T400	7,5	5,5	400	3	11,7	64	2835	0,86	79	-	5000	699,5	24,65	4 x 2	2,7
HYO4-750T400	10	7,5	400	3	16,4	88	2840	0,81	81	-	5000	799,5	28,95	4 x 2	2,7

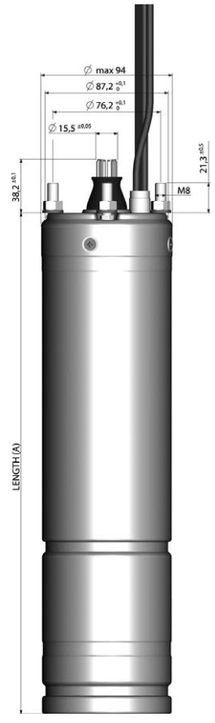
Technical Specifications

Motor/Pump Flange	4” Nema Standard
Degree of protection	IP 68
Insulation Class	F
Voltage tolerance	- 10% / + 10%
Pumped liquid temperature	0°C - 35°C 32°F - 95°F
Min. Cooling Flow	0,1 m/s 0,328 ft/s
Max. Starts / Hour	30
Mounting	Vertical And/Or Horizontal
Max. Immersion Depth	200M
Thrust Load **From 0,5 to 3 Hp** **From 3 to 4 Hp** **From 5,5 to 10 Hp**	 2000N 3000N 5000N

Single Phase Version: Psc Type (Permanent Split Capacitor)

Rewindable Motor Version

Cables, Voltage, Thrust Loads […] Special Versions Available.



HYA4

4” Water cooled Submersible motors Canned type

4” Water cooled submersible motors, canned type

Motors designed to work in 4” or wider wells. The use of very high quality Made in Italy materials and our strict tests together with consolidated know how ensure high mechanical resistance and high performing electrical features.
All parts in contact with water are in AISI 304 stainless steel which ensures resistance to corrosion even in the most extreme conditions of use.

Product features

SStator:
With 24 slots, speci cally developed to achieve maximum electrical performance. Airtight sealed and resin encapsulated. A solution which ensures excellent heat exchange and extremely high mechanical resistance with high pressure, something typical of very deep immersions.

Removable Power Cable-Connector:
It ensures perfect sealing in the most critical conditions and it aids maintenance operations. The power cable complies with all major standards on the use in drinking water (KTW, ACS, WRAS).

Filling Liquid:
Mixture of water and propylene glycol to ensure adequate lubrication of the thrust bearing system together with the ability to lower the freezing point when stored in very cold places.

Restore Liquid Valve:
It allows water in to restore internal level.

Shaft:
Carbon-steel alloys in the rotor area, to foster electrical features. AISI 304 stainless steel projection. DUPLEX, a special type of stainless steel, replaces AISI 304 in motors bigger than 3Hp. This steel combines excellent resistance to corrosion and high mechanical resistance, which is necessary where static torque becomes really important.

Thrust Bearing System:
Kingsbury-type with stainless steel thrust bearing runners oscillating on a self-aligning system. A speci c runner lapping process makes this system extremely reliable and ef cient.

100% Tested:
All motors are tested at the end of the line.

Single phase submersible motors 50hz 230v water cooled

Type	P2 [Hp]	P2 [kW]	Voltage [V]	Ph	In [A]	Iavv [A]	rpm	φ cos	η [%]	Capacitor [µF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Length [m]
HYO4-037S230	0,5	0,37	230	1	3,5	12,5	2860	0,87	52	20	2000	237	6,8	4 x 1,5	1,7
HYO4-055S230	0,75	0,55	230	1	4,8	17,2	2855	0,88	57	25	2000	257	7,9	4 x 1,5	1,7
HYO4-075S230	1	0,75	230	1	5,7	19,7	2840	0,9	62	35	2000	272	9,1	4 x 1,5	1,7
HYO4-110S230	1,5	1,1	230	1	8,2	27,2	2845	0,91	64	40	2000	297	11,2	4 x 1,5	1,7
HYO4-150S230	2	1,5	230	1	10,5	36,4	2840	0,93	66	50	3000	332	13,4	4 x 1,5	1,7
HYO4-220S230	3	2,2	230	1	15,2	48,9	2840	0,93	67	70	3000	387	14,2	4 x 1,5	1,7
HYO4-370S230	5	3,7	230	1	25	98,8	2845	0,95	73	00	6500	634	27,8	4 x 2	2,7

Single phase submersible motors 50hz 230v water cooled

Type	P2 [Hp]	P2 [kW]	Voltage [V]	Ph	In [A]	Iavv [A]	rpm	φ cos	η [%]	Capacitor [µF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Length [m]
HYA4-037T230	0,5	0,37	230	3	2,3	9,3	2855	0,57	71	-	2000	212	6,45	4 x 1,5	1,7
HYA4-055T230	0,75	0,55	230	3	2,8	14,0	2855	0,65	76	-	2000	237	7,2	4 x 1,5	1,7
HYA4-075T230	1	0,75	230	3	3,4	16,1	2850	0,72	77	-	2000	257	8,45	4 x 1,5	1,7
HYA4-110T230	1,5	1,1	230	3	5	26,0	2820	0,77	72	-	2000	272	9,35	4 x 1,5	1,7
HYA4-150T230	2	1,5	230	3	6,6	28,6	2835	0,80	71	-	3000	297	10,2	4 x 1,5	1,7
HYA4-220T230	3	2,2	230	3	9,8	41,1	2835	0,80	70	-	3000	332	11,65	4 x 1,5	1,7
HYA4-300T230	4	3	230	3	13	78,5	2855	0,79	73	-	3000	387	14,9	4 x 1,5	1,7
HYA4-400T230	5,5	4	230	3	17,2	89,4	2845	0,76	77	-	6500	574	20,05	4 x 2	2,7
HYA4-550T230	7,5	5,5	230	3	24,5	113,4	2850	0,76	74	-	6500	634	24,65	4 x 2	2,7

Single phase submersible motors 50hz 400v water cooled

Type	P2 [Hp]	P2 [kW]	Voltage [V]	Ph	In [A]	Iavv [A]	rpm	φ cos	η [%]	Capacitor [µF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Length [m]
HYA4-037T400	0,5	0,37	400	3	1,4	6,0	2850	0,54	70	-	2000	212	5,8	4 x 1,5	1,7
HYA4-055T400	0,75	0,55	400	3	1,7	8,3	2855	0,62	75	-	2000	237	6,8	4 x 1,5	1,7
HYA4-075T400	1	0,75	400	3	2,1	9,8	2825	0,76	68	-	2000	257	7,9	4 x 1,5	1,7
HYA4-110T400	1,5	1,1	400	3	3,2	16,1	2825	0,68	73	-	2000	272	9,1	4 x 1,5	1,7
HYA4-150T400	2	1,5	400	3	4,1	18,7	2840	0,75	71	-	3000	297	11,2	4 x 1,5	1,7
HYA4-220T400	3	2,2	400	3	5,9	28,1	2830	0,78	69	-	3000	332	13,4	4 x 1,5	1,7
HYA4-300T400	4	3	400	3	7,9	48,4	2850	0,76	72	-	3000	387	18,9	4 x 1,5	1,7
HYA4-400T400	5,5	4	400	3	10,1	51,5	2850	0,74	77	-	6500	574	23,4	4 x 2	2,7
HYA4-550T400	7,5	5,5	400	3	13,9	66,6	2850	0,77	74	-	6500	634	27,8	4 x 2	2,7
HYA4-750T400	10	7,5	400	3	16,9	91,5	2845	0,76	74	-	6500	734	31,4	4 x 2	2,7

Technical Specifications

Motor/Pump Flange	4” Nema Standard
Degree of protection	IP 68
Insulation Class	F
Voltage tolerance	- 10% / + 10%
Pumped liquid temperature	0°C - 35°C 32°F - 95°F
Min. Cooling Flow	0,1 m/s 0,328 ft/s
Max. Starts / Hour	30
Mounting	Vertical And/Or Horizontal
Max. Immersion Depth	300M
Thrust Load **From 0,5 to 3 Hp** **From 3 to 4 Hp** **From 5,5 to 10 Hp**	 2000N 3000N 5000N
Single Phase Version: Psc Type (Permanent Split Capacitor)	
Rewindable Motor Version	
Cables, Voltage, Thrust Loads […] Special Versions Available.	

HY06

6” Rewindable oil Filled submersible Motors

6” Rewindable Oil Filled Submersible Motors

Motors designed to work in 6” or wider wells. The use of very high quality Made in Italy materials and our strict tests together with consolidated know how ensure high mechanical resistance and high performing electric features.

All parts in contact with water are in AISI 304 stainless steel. The power cable with removable connector ensures perfect water-tightness. Designed to be easily repairable.

Product features

External Sleeve And Bottom:
Made in AISI 304 stainless steel. More specifically, the sleeve is in 304L (Low Carbon) to avoid possible corrosions on the welding.

Upper Support:
Cast iron with cataphoresis treatment. Sleeve clamping is ensured for the whole series by 8 inserts.

Mechanical Seal:
Graphite/ceramic in the standard version; SIC-SIC version available upon request.

Ball Bearings:
Duly oversized to ensure a long lasting motor.

Stator:
Specifically developed to achieve maximum electricalyield. Airtight sealed and immerged in selected mineral white and highly refined oil, suitable to be used in drinking water (F.D.A., Food and Drug Administration, approved).

Removable Power Cable-Connector:
It ensures perfect sealing in the most critical conditions and it aids maintenance operations. More specifically, the connector prevents oil from rising in the conductors up to the joint, thus enabling immersion at greater depths. The power cable complies with all major standards on the use in drinking water (KTW, ACS, WRAS).

Shaft:
Carbon-steel alloys in the rotor area, to foster electrical features. DUPLEX stainless steel projection. This steel combines excellent resistance to corrosion and high mechanical resistance, which is necessary where static torque becomes really important.

100% Tested:
All motors are tested at the end of the line. An extremely effective seal check is also carried out on all motors.

Three phase submersible motors 50Hz 400v oil filled

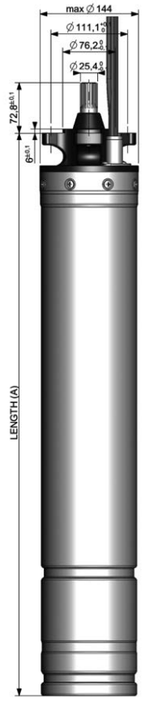
Type	Voltage [V]	P_2 [Hp]	P_2 [kW]	Ph	I_n [A]	I_{avv} [A]	rpm	cos	[%]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Length [m]
HYO6-400T400 DOL **HYO6-400T400 DS**	400 400/690	5,5	4	3	9,1	47	2840	0,86	74	10000	595	34	4 x 4	3
HYO6-550T400 DOL **HYO6-550T400 DS**	400 400/690	7,5	5,5	3	12,8	66	2840	0,84	74	10000	625	41	4 x 4	3
HYO6-750T400 DOL **HYO6-750T400 DS**	400 400/690	10	7,5	3	16,8	81	2850	0,83	78	10000	660	46	4 x 4	3
HYO6-920T400 DOL **HYO6-920T400 DS**	400 400/690	12,5	9,2	3	21,2	98	2880	0,77	81	10000	700	48	4 x 4	3
HYO6-1100T400 DOL **HYO6-1100T400 DS**	400 400/690	15	11	3	22,9	123	2850	0,82	85	10000	765	52	4 x 4	3
HYO6-1300T400 DOL **HYO6-1300T400 DS**	400 400/690	17,5	13	3	27,6	141	2860	0,80	84	10000	820	57	4 x 4	3
HYO6-1500T400 DOL **HYO6-1500T400 DS**	400 400/690	20	15	3	30,7	158	2840	0,86	82	10000	820	58	4 x 4	3
HYO6-1850T400 DOL **HYO6-1850T400 DS**	400 400/690	25	18,5	3	38,0	231	2850	0,84	84	20000	883	64	4 x 8	4
HYO6-2200T400 DOL **HYO6-2200T400 DS**	400 400/690	30	22	3	45,5	258	2850	0,83	84	20000	953	71	4 x 8	4
HYO6-2600T400 DOL **HYO6-2600T400 DS**	400 400/690	35	26	3	52,0	296	2850	0,85	85	20000	1018	79	4 x 8	4
HYO6-3000T400 DOL **HYO6-3000T400 DS**	400 400/690	40	30	3	61,5	348	2860	0,83	85	20000	1098	87	4 x 8	4
HYO6-3700T400 DOL **HYO6-3700T400 DS**	400 400/690	50	37	3	76,0	396	2840	0,84	84	20000	1233	99	4 x 8	4

D. O. L. VERSION

人–△ VERSION

Technical Specifications

Motor/Pump Flange	6” Nema Standard
Degree of protection	IP 68
Insulation Class	F
Voltage tolerance	- 10% / + 10%
Pumped liquid temperature	0°C - 35°C 32°F - 95°F
Min. Cooling Flow	0,1 m/s 0,328 ft/s
Max. Starts / Hour	30
Mounting	Vertical And/Or Horizontal
Max. Immersion Depth	300M
Thrust Load **From 5,5 HP to 20 HP** **From 25 HP to 50 HP**	 10.000N 20.000N
Rewindable motor	
Cables, Voltage, Thrust Loads […] **Special Versions Available.**	



HYA6

6” Rewindable water Cooled submersible Motors

6” Rewindable Water Cooled Submersible Motors

Motors designed to work in 6” or wider wells. The use of very high quality Made in Italy materials and our strict tests together with consolidated know how ensure high mechanical resistance and high performing electric features. Designed to be easily repairable.

Product features

Stator:
Specifically developed to achieve maximum electrical yield. Covered by an AISI 304 stainless steel sleeve. Windings are asynchronous-type and are made of cooper wire with PVC insulation, or copper wire with PE2+PA insulation, which is “inverter resistant” and suggested for high temperatures and voltage surges.

Power cable:
It ensures perfect sealing in the most critical conditions. Cable is EPR-type and complies with all major standards on the use in drinking water (KTW, ACS, WRAS).

Filling Liquid:
Mixture of water and propylene glycol to ensure adequate lubrication of the thrust bearing system together with the ability to lower the freezing point when stored in very cold places.

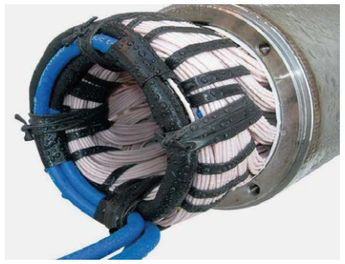
Upper And Lower Support:
GS400 spheroidal cast iron with cataphoresis treatment, which gives great resistance to water impacts and corrosion.

Mechanical Seal:
SIC-SIC, silicon-silicon carbide.

Shaft:
Completely in AISI 420 stainless steel, without welding. It is ground along the entire axis thus giving the rotor such a concentricity to ensure perfect linearity. A shaft free from vibration is obtained thanks to balancing. Led by wear-resistant graphite bushing bearings.

Thrust Bearing System:
Bidirectional Michell-type, with pads in treated steel and supported by a disk in resin compound fibres and self lubricating additives, totally ecological.

100% Tested:
All motors are tested at the end of the line.



Electrical Data - 50Hz

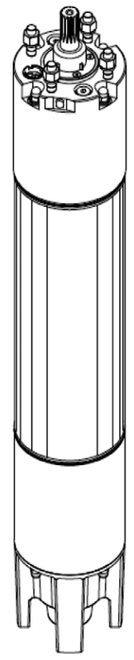
Type	P [Hp]	P [kW]	I_n [A]		Starting		cos	[%]	rpm	Thrust load [N]	Len-gth [mm]	Wei-ght [kg]	Cable section [mm²]				Cable Length [m]	T_{max}	
					Direct	Δ / Y							Direct		Δ / Y			H_2O	PE2 + I PA
			230 V	400 V	I_a / I_n	I_a / I_n							230V	400V	230/400 V	400/690V		PVC	
HYA6-400	5,5	4	16	9,5	5,2	1,3	0,83	79,5	2880	18000	640	41	4 x 3	4 x 3	4 x 6	4 x 6	3,5	30°C 86°F	55°C 131°F
HYA6-550	7,5	5,5	21,5	12,5	4,9	1,6	0,87	78	2850		670	44							
HYA6-750	10	7,5	29,5	17	5,35	1,7	0,86	78,5	2850		700	46							
HYA6-920	12,5	9,2	36	21,5	5,05	1,7	0,86	78	2830		740	50							
HYA6-1100	15	11	42,5	24,5	5	1,6	0,87	79	2840		770	54							
HYA6-1300	17,5	13	51	29	5	1,6	0,86	80	2840		840	61							
HYA6-1500	20	15	60	34	5,05	1,6	0,86	81	2830		840	62	6 x 3						
HYA6-1850	25	18,5	69,5	40	4,85	1,6	0,86	82	2845	25000	900	68							
HYA6-2200	30	22	83	48	4,6	1,5	0,86	83	2845		970	75	10 x 3	6 x 3	6 x 6				
HYA6-2600	35	26	95	55	4,9	1,6	0,87	82,5	2830		1040	82							
HYA6-3000	40	30	113,5	65,5	5,15	1,7	0,85	83	2840		1100	89		10 x 3	10 x 6	6 x 6			
HYA6-3700	50	37	138,5	80	4,75	1,5	0,85	83	2840		1240	103	-					25°C 77°F	45°C 113°F
HYA6-4500	60	45	167	96,5	5,05	1,6	0,85	83	2840		1370	116	-			10 x 6		-	

Technical Specifications

Motor/Pump Flange	6” Nema Standard
Degree of protection	IP 68
Insulation Class	PVC: Y PE2 + PA: B
Voltage tolerance	- 10% / + 6%
Pumped liquid temperature	Refer to electrical data sheet
Min. Cooling Flow	0,15 m/s 0,492 ft/s
Max. Starts / Hour	10
Mounting	Vertical And/Or Horizontal
Max. Immersion Depth	350M
Thrust Load **From 5,5 to 20 HP** **From 25 to 60 HP**	 18.000N 25.000N

Rewindable motor

Special cables/Voltage/Thrust Loads, Y/Δ Starting, Pt100 Temperature sensor [...] Available Upon Request.



Notes

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Be pumping partners

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201744-CTL-SJ-EN
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