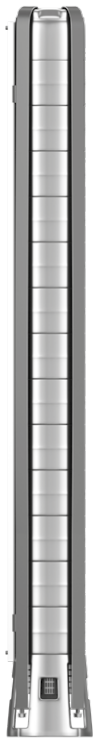
SS7

SUBMERSIBLE PUMPS



SS7

TECHNICAL DATA

Flow rate maximum: up to 110 m^3/h
Head up to: 423 m
Maximum immersion depth: depending on the motor
Type of pumped liquid: clean, free from solid or abrasive substances, non-viscous, non-aggressive, non-crystallized and chemically neutral. The version in AISI 316 stainless steel is also suitable for aggressive solutions and/or salt water
Maximum sand quantity: 50 g/m^3
Liquid temperature range: from 0°C to +50°C (depending on the motor)
Maximum operating pressure: depending on the motor
Flanges, thread: 5”
Pump maximum diameter: 172 mm
Impeller/s material: pressed AISI 304 stainless steel
Protection class: IP 68
Single phase power input: not available
Three phase power input: 3x230 V 50 Hz / 3x400 V 50 Hz
Power cable (m) and plug: depending on the motor (all the motor are without the power plug)
Possible type of installation: fixed in vertical position. Horizontal installation permitted by removing the non-return valve and installing a cooling jacket (check the applicability of the motor for horizontal use in the dedicated section)
Special versions on request: molded AISI 316 stainless steel construction (impellers and pump body) for aggressive water applications, delivery ports with NPT standard

7” semi axial multi-impeller submersible pump in molded AISI 304 or AISI 316 stainless steel, designed for pressurization, lifting water from underground wells, gardening and irrigation in commercial building service and irrigation also in agriculture. Ideal for installation in wells.

CONSTRUCTION FEATURES OF THE PUMP

Diffusers, impellers, supports, delivery and suction made entirely of pressed AISI 304 steel or AISI 316. Impellers balanced and keyed to the shaft with a conical coupling, specially developed to guarantee: easy assembly, avoid malfunctions due to vibrations during rotation and reduce operating noise. Shaft driven by water lubricated bearings. The diffuser geometry facilitates the expulsion of sand particles with the pumped liquid and limits the infiltration of water between the stage. Integrated non-return valve to reduce localized pressure drops. Stainless steel filter applied to the suction mouth to prevent the entry of dissolved solid bodies. Delivery port threaded according to the GAS standard. Different types of impeller are available to guarantee the best efficiency at different flow rates and models up to 22 impellers to cover a wide range of heads.

CONSTRUCTION FEATURES OF THE MOTOR

Coupling with 6” or 8” motors depending on the power required by the hydraulic system:
- 6GF: 6” submersible encapsulated motor
- TR6: 6” submersible rewindable motor
- TR8: 8” submersible rewindable motor

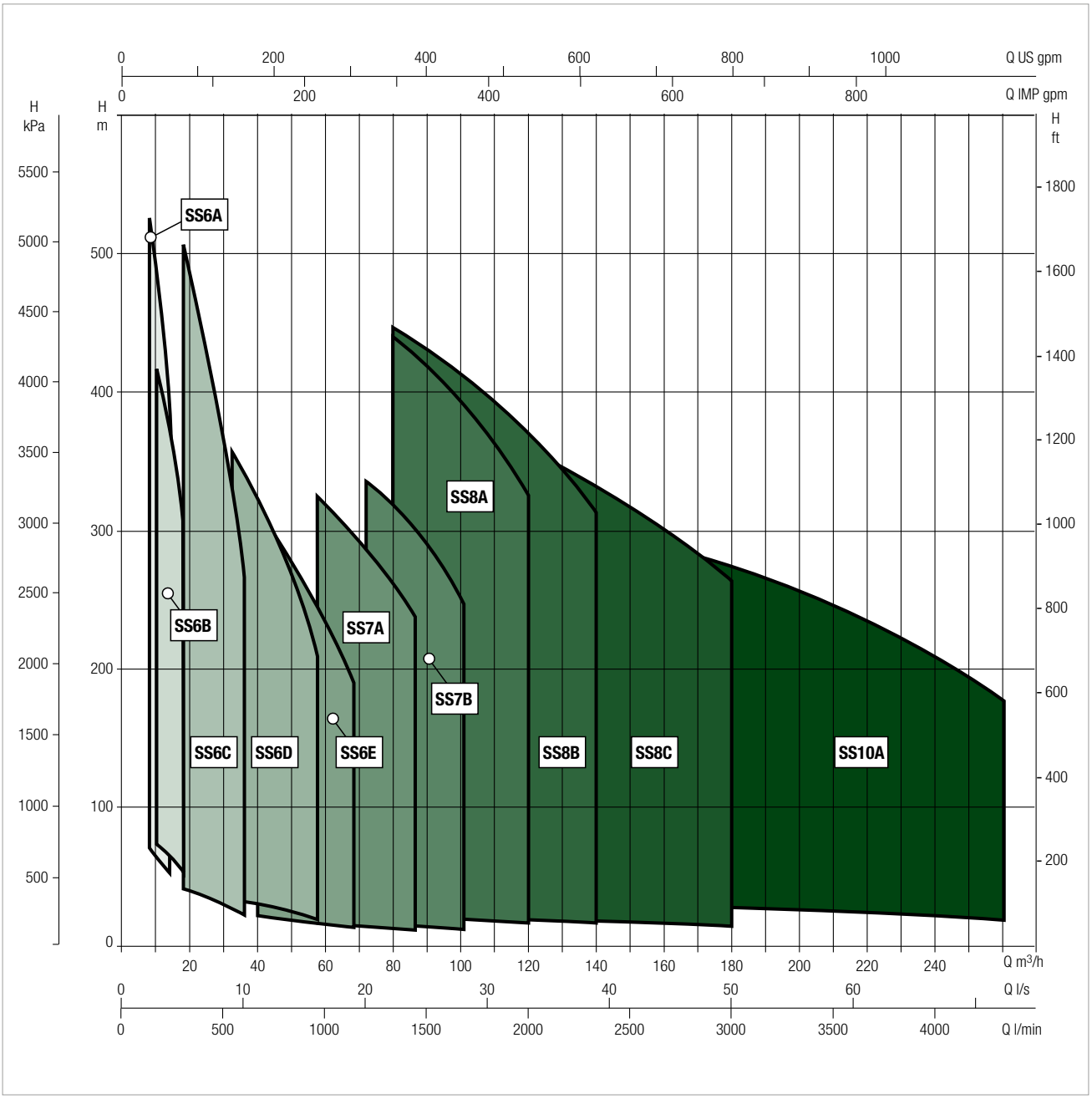
For operation with the variable frequency drive, refer to the specifications of the coupled motor.
For hydraulic systems in AISI 316 stainless steel, we recommend coupling with motors made of AISI 316 or DUPLEX stainless steel (check availability of the selected model).

PERFORMANCE RANGE

The performance curves are based on the kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

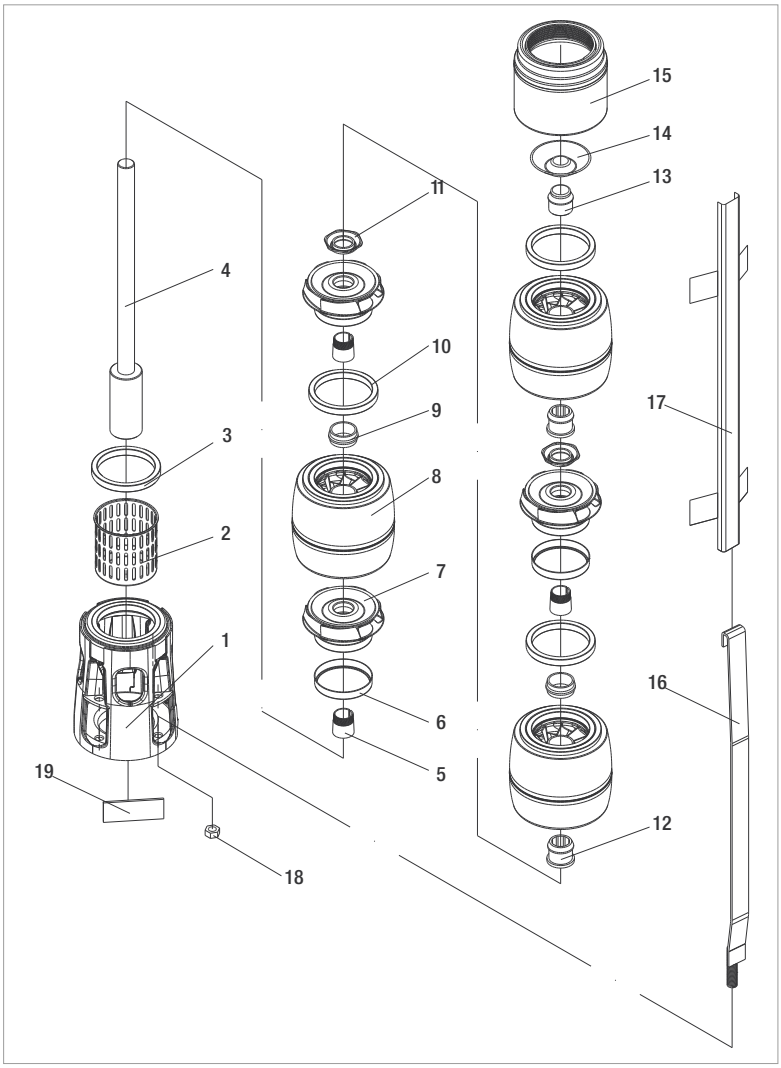
GRAPHIC SELECTION TABLE

50 Hz - 2900 r.p.m.

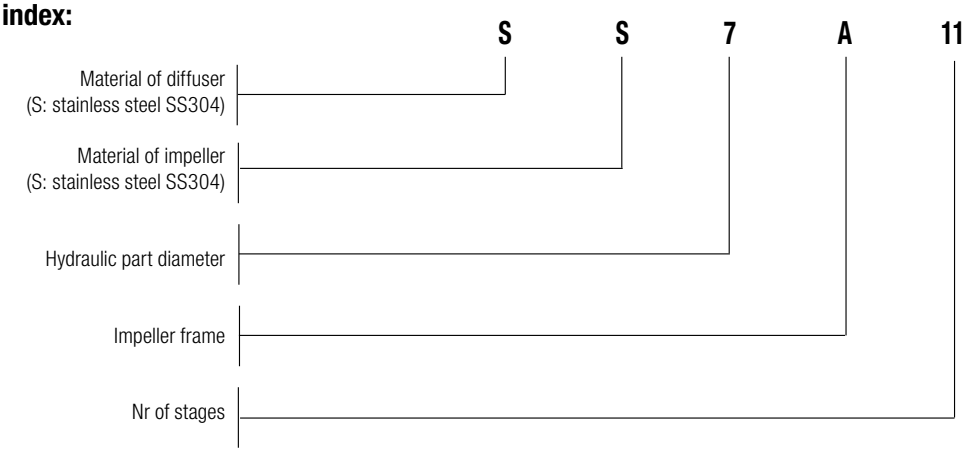


MATERIALS

N.	PARTS	MATERIALS
1	SUCTION CASE	STAINLESS STEEL (AISI 304L)
2	FILTER	STAINLESS STEEL (AISI 304L)
3	SUCTION CASE WEAR RING	BRONZE (ASTM B145-4A)
4	PUMP SHAFT	STAINLESS STEEL (AISI 420)
5	COLLET	STAINLESS STEEL
6	IMPELLER WEAR RING	STAINLESS STEEL (AISI 304)
7	IMPELLER	STAINLESS STEEL (AISI 304L)
8	DIFFUSER	STAINLESS STEEL (AISI 304L)
9	INTERMEDIATE BEARING	RUBBER
10	DIFFUSER WEAR RING	RUBBER
11	NUT FOR STOP RING	STAINLESS STEEL (AISI 304L)
12	BEARING	RUBBER
13	SHAFT STOPPER	BRONZE (ASTM B145-4A)
14	VALVE	STAINLESS STEEL (AISI 304)
15	DISCHARGE CASE	STAINLESS STEEL (AISI 304)
16	TIE ROD	STAINLESS STEEL (AISI 304L)
17	CABLE GUARD	STAINLESS STEEL (AISI 304)
18	TIE ROD NUT	STAINLESS STEEL (AISI 303)
19	NAME PLATE	STAINLESS STEEL (AISI 304)



– Denomination index:
(example)



SS7A

SUBMERSIBLE PUMPS

PERFORMANCE 50 HZ - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA												STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m³h	0	20	30	40	50	60	70	80	90	100	115	
	kW	HP	Q=l/min	0	333,3	500	666,6	833,3	1000	1166,6	1333,3	1500	1666,6	1916,6	
SS7A 01	4	5,5	H (mt)	19	19	18	17	16	15	14	12	11	8	-	6"
SS7A 02	7,5	10		38	37	36	34	32	30	28	25	21	17	-	6"
SS7A 03	11	15		58	56	54	51	49	45	42	37	32	25	-	6"
SS7A 04	15	20		77	74	72	69	65	61	56	50	42	33	-	6"
SS7A 05	18,5	25		96	93	90	86	81	76	69	62	53	41	-	6"
SS7A 06	22	30		115	111	108	103	97	91	83	74	63	50	-	6"
SS7A 07	26	35		135	130	126	120	114	106	97	87	74	58	-	6"
SS7A 08	30	40		154	149	144	137	130	121	111	99	84	66	-	6"
SS7A 09	37	50		173	167	161	154	146	136	125	111	95	75	-	6"
SS7A 10	37	50		192	186	179	172	162	152	139	124	105	83	-	6"
SS7A 11	45	60		211	204	197	189	179	167	153	136	116	91	-	8"
SS7A 12	45	60		231	223	215	206	195	182	167	149	127	99	-	8"
SS7A 13	55	75		250	241	233	223	211	197	181	161	137	108	-	8"
SS7A 14	55	75		269	260	251	240	227	212	195	173	148	116	-	8"
SS7A 15	55	75		288	278	269	257	244	227	208	186	158	124	-	8"
SS7A 16	63	85		307	297	287	275	260	243	222	198	169	133	-	8"
SS7A 17	75	100		327	316	305	292	276	258	236	210	179	141	-	8"
SS7A 18	75	100		346	334	323	309	292	273	250	223	190	149	-	8"
SS7A 19	75	100		365	353	341	326	309	288	264	235	200	158	-	8"
SS7A 20	75	100		384	371	359	343	325	303	278	248	211	166	-	8"
SS7A 21	75	100		404	390	377	360	341	318	292	260	221	174	-	8"
SS7A 22	92	125		423	408	395	378	357	334	306	272	232	182	-	8"

SS7A

SUBMERSIBLE PUMPS

ELECTRICAL DATA AND DIMENSIONS

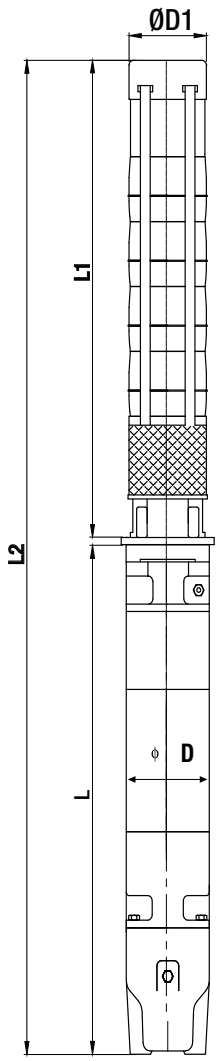
MODEL	MOTOR *	ELECTRICAL DATA				HORIZONTAL INSTALLATION	L2 mm	L mm	L1 mm	D mm	D1 mm	TOTAL WEIGHT kg
		P2 NOMINAL		In A	OPERATING BY INVERTER							
		kW	HP									
SS7A 01	**6GF**	4	5,5	10,6	●	●	1172	601	571	141	172	67
SS7A 02	**6GF**	7,5	10	18	●	●	1360	661	699	141	172	77
	TR6	7,5	10	18	O	●	1516	817	699	144	172	83
SS7A 03	**6GF**	11	15	25,5	●	●	1558	731	827	141	172	89
	TR6	11	15	25	O	●	1704	877	827	144	172	94
SS7A 04	**6GF**	15	20	33,4	●	●	1741	786	955	141	172	99
	TR6	15	20	32	O	●	1932	977	955	144	172	115
SS7A 05	**6GF**	18,5	25	41	●	●	1944	861	1083	141	172	111
	TR6	18,5	25	39	O	●	2120	1037	1083	144	172	122
SS7A 06	**6GF**	22	30	47	●	●	2132	921	1211	141	172	120,3
	TR6	22	30	49	O	●	2278	1067	1211	144	172	141
SS7A 07	**6GF**	26	35	57	●	●	2319	980	1339	141	172	128
	TR6	26	35	58	O	●	2476	1137	1339	144	172	155
SS7A 08	**6GF**	30	40	61,5	●	●	2518	1051	1467	141	172	143
	TR6	30	40	65	O	●	2659	1192	1467	144	172	164
SS7A 09	**6GF**	37	50	79,3	●	●	2776	1181	1595	141	172	160
	TR6	37	50	80	O	●	2887	1292	1595	144	172	171
SS7A 10	**6GF**	37	50	79,3	●	●	2904	1181	1723	141	172	164
	TR6	37	50	80	O	●	3015	1292	1723	144	172	175
SS7A 11	**TR8**	45	60	92	O	●	3121	1270	1851	192	172	243
SS7A 12	**TR8**	45	60	92	O	●	3249	1270	1979	192	172	247
SS7A 13	**TR8**	55	75	109	O	●	3457	1350	2107	192	172	266
SS7A 14	**TR8**	55	75	109	O	●	3585	1350	2235	192	172	270
SS7A 15	**TR8**	55	75	109	O	●	3713	1350	2363	192	172	274
SS7A 16	**TR8**	63	85	126	O	●	3981	1490	2491	192	172	304
SS7A 17	**TR8**	75	100	145	O	●	4209	1590	2619	192	172	326
SS7A 18	**TR8**	75	100	145	O	●	4337	1590	2747	192	172	330
SS7A 19	**TR8**	75	100	145	O	●	4465	1590	2875	192	172	334
SS7A 20	**TR8**	75	100	145	O	●	4593	1590	3003	192	172	338
SS7A 21	**TR8**	75	100	145	O	●	4721	1590	3131	192	172	342
SS7A 22	**TR8**	92	125	177	O	●	5089	1830	3259	192	172	392

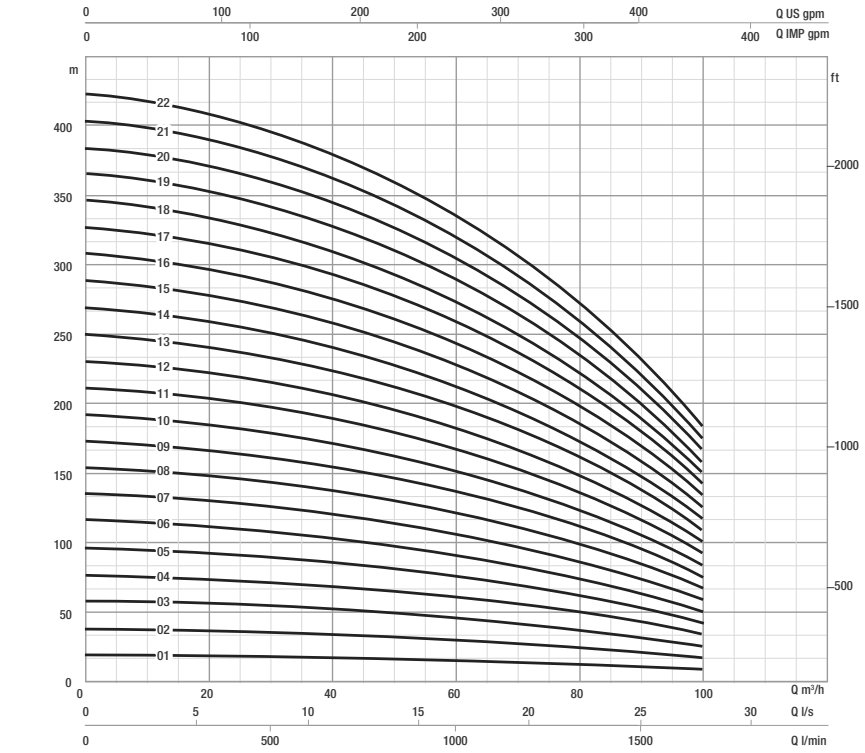
*** 6GF motor:** 6" encapsulated water-gycol-filled motor with stator immersed in thermosetting insulating resin
TR motor: 6-8" water-filled rewindable motor.

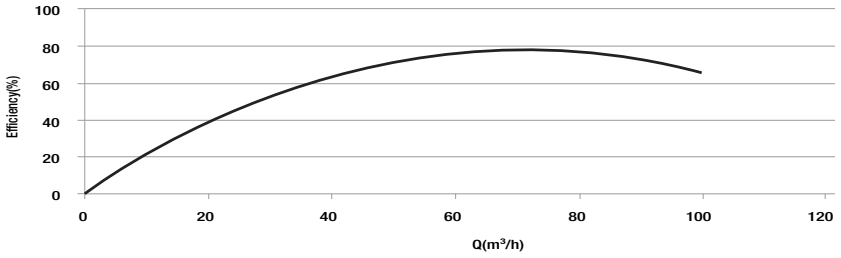
●	Allowed
O	Only PE2 + PA version

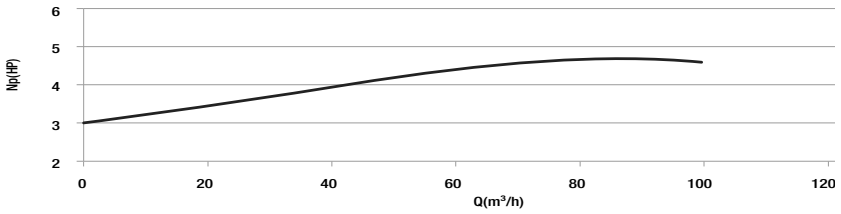
SS7A

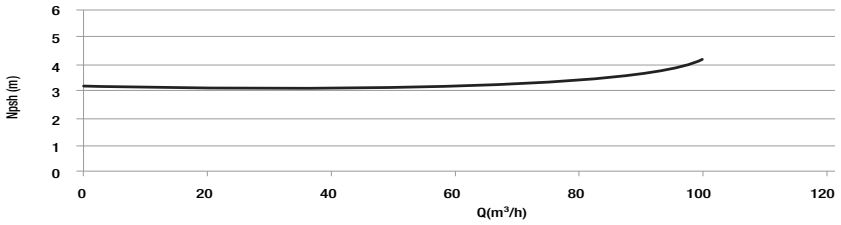
SUBMERSIBLE PUMPS











Performance 50 Hz - 2 poles. The performance curves are based on the kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

SS7B

SUBMERSIBLE PUMPS

PERFORMANCE 50 HZ - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA												STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m³h	0	20	30	40	50	60	70	80	90	100	115	
	kW	HP	Q=l/min	0	333,3	500	666,6	833,3	1000	1166,6	1333,3	1500	1666,6	1916,6	
SS7B 01	5,5	7,5	H (mt)	21	21	-	20	20	19	18	17	16	14	11	6"
SS7B 02	11	15		43	43	-	41	39	38	36	34	32	28	21	6"
SS7B 03	15	20		64	64	-	61	59	56	54	51	47	43	32	6"
SS7B 04	22	30		85	86	-	81	78	75	72	68	63	57	43	6"
SS7B 05	30	40		106	107	-	101	98	94	90	85	79	71	54	6"
SS7B 06	37	50		128	128	-	122	117	113	108	102	95	85	64	6"
SS7B 07	37	50		149	150	-	142	137	132	126	119	111	100	75	6"
SS7B 08	45	60		170	171	-	162	156	150	144	136	126	114	86	8"
SS7B 09	45	60		192	193	-	183	176	169	162	153	142	128	96	8"
SS7B 10	55	75		213	214	-	203	196	188	180	170	158	142	107	8"
SS7B 11	63	85		234	235	-	223	215	207	197	187	174	157	118	8"
SS7B 12	75	100		256	257	-	243	235	225	215	204	190	171	128	8"
SS7B 13	75	100		277	278	-	264	254	244	233	221	206	185	139	8"
SS7B 14	75	100		298	300	-	284	274	263	251	238	221	199	150	8"
SS7B 15	92	125		319	321	-	304	293	282	269	255	237	214	161	8"
SS7B 16	92	125		341	342	-	325	313	301	287	272	253	228	171	8"
SS7B 17	92	125		362	364	-	345	332	319	305	289	269	242	182	8"
SS7B 18	110	150		383	385	-	365	352	338	323	306	285	256	193	8"
SS7B 19	110	150		405	407	-	385	372	357	341	323	300	271	203	8"
SS7B 20	110	150		426	428	-	406	391	376	359	340	316	285	214	8"

SS7B

SUBMERSIBLE PUMPS

ELECTRICAL DATA AND DIMENSIONS

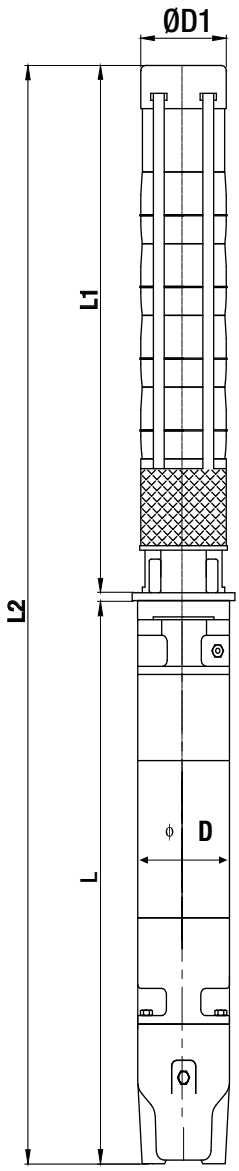
MODEL	MOTOR *	ELECTRICAL DATA				HORIZONTAL INSTALLATION	L2 mm	L mm	L1 mm	D mm	D1 mm	TOTAL WEIGHT kg
		P2 NOMINAL		In A	OPERATING BY INVERTER							
		kW	HP									
SS7B 01	6GF	5,5	7,5	14	●	●	1202	631	571	141	172	70
	TR6	5,5	7,5	13	○	●	1358	787	571	144	172	76
SS7B 02	6GF	11	15	25,5	●	●	1430	731	699	141	172	85
	TR6	11	15	25	○	●	1576	877	699	144	172	90
SS7B 03	6GF	15	20	33,4	●	●	1613	786	827	141	172	95
	TR6	15	20	32	○	●	1804	977	827	144	172	111
SS7B 04	6GF	22	30	47	●	●	1876	921	955	141	172	112,3
	TR6	22	30	49	○	●	2022	1067	955	144	172	133
SS7B 05	6GF	30	40	61,5	●	●	2134	1051	1083	141	172	131
	TR6	30	40	65	○	●	2275	1192	1083	144	172	152
SS7B 06	6GF	37	50	79,3	●	●	2392	1181	1211	141	172	148
	TR6	37	50	80	○	●	2503	1292	1211	144	172	159
SS7B 07	6GF	37	50	79,3	●	●	2520	1181	1339	141	172	152
	TR6	37	50	80	○	●	2631	1292	1339	144	172	163
SS7B 08	TR8	45	60	92	○	●	2737	1270	1467	192	172	231
SS7B 09	TR8	45	60	92	○	●	2865	1270	1595	192	172	235
SS7B 10	TR8	55	75	109	○	●	3073	1350	1723	192	172	254
SS7B 11	TR8	63	85	126	○	●	3341	1490	1851	192	172	284
SS7B 12	TR8	75	100	145	○	●	3569	1590	1979	192	172	307
SS7B 13	TR8	75	100	145	○	●	3697	1590	2107	192	172	311
SS7B 14	TR8	75	100	145	○	●	3825	1590	2235	192	172	315
SS7B 15	TR8	92	125	177	○	●	4193	1830	2363	192	172	365
SS7B 16	TR8	92	125	177	○	●	4321	1830	2491	192	172	369
SS7B 17	TR8	92	125	177	○	●	4449	1830	2619	192	172	373
SS7B 18	TR8	110	150	213	○	●	4807	2060	2747	192	172	427
SS7B 19	TR8	110	150	213	○	●	4935	2060	2875	192	172	431
SS7B 20	TR8	110	150	213	○	●	5063	2060	3003	192	172	435

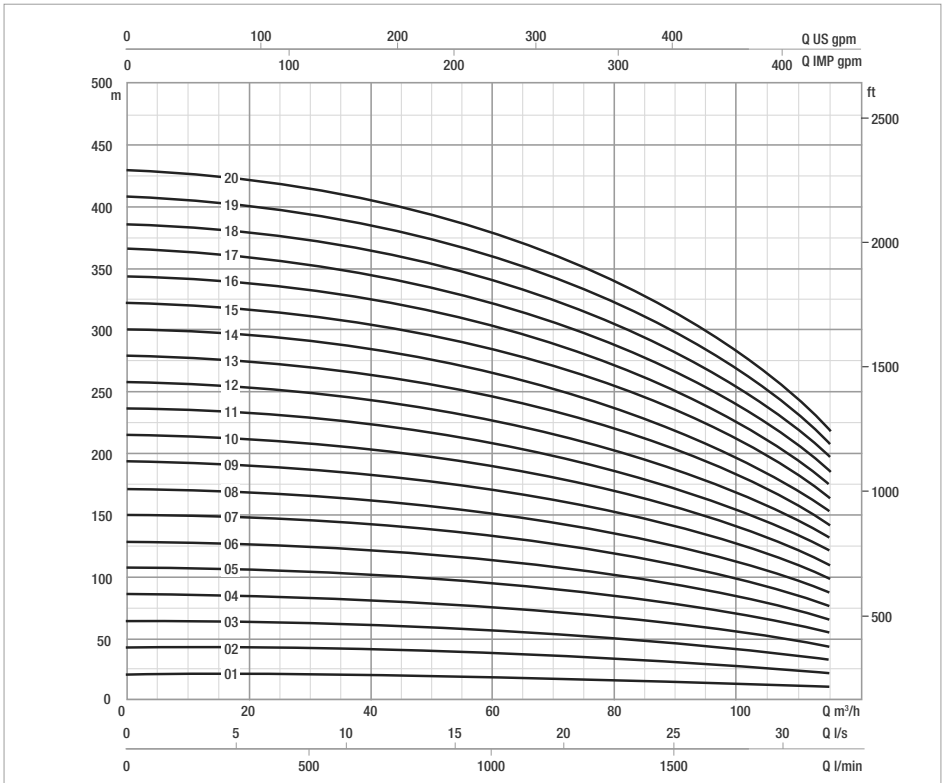
*** 6GF motor:** 6" encapsulated water-gycol-filled motor with stator immersed in thermosetting insulating resin
TR motor: 6-8" water-filled rewindable motor.

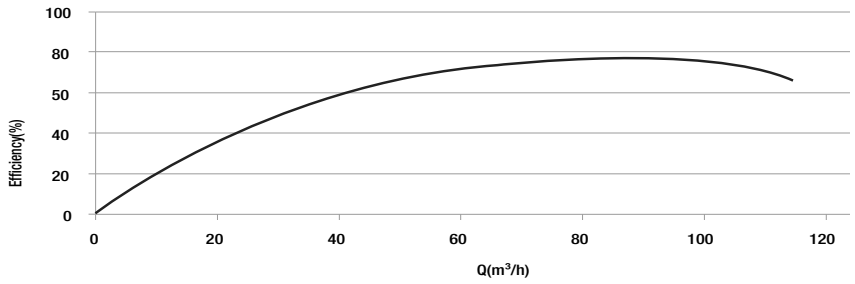
●	Allowed
○	Only PE2 + PA version

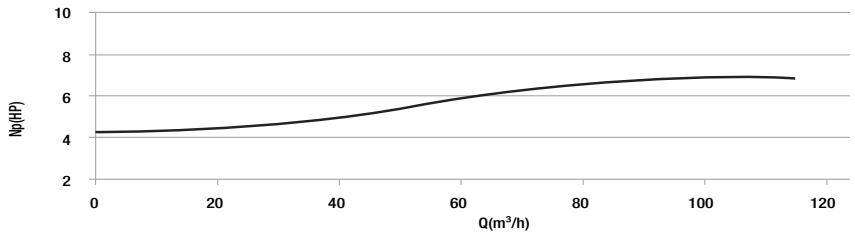
SS7B

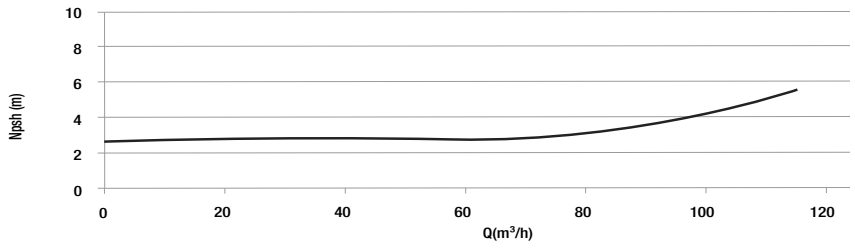
SUBMERSIBLE PUMPS











Performance 50 Hz - 2 poles. The performance curves are based on the kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.