



SP 4",6",8",10" series

Stainless Steel Submersible Pumps

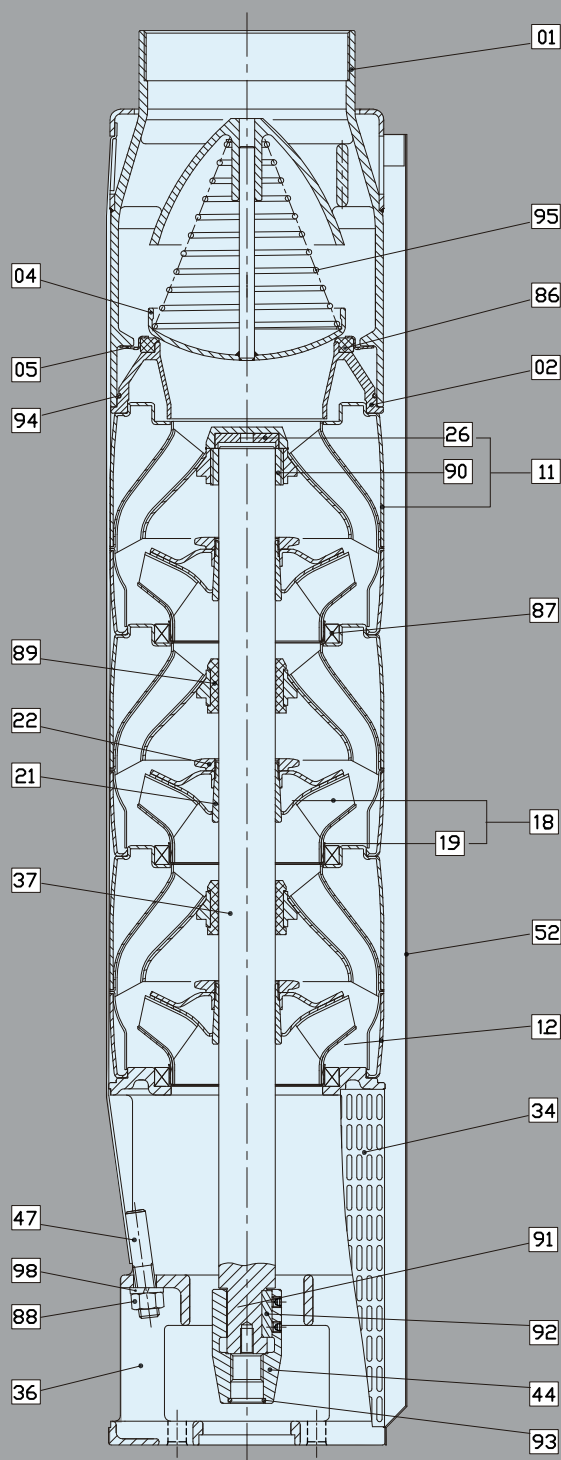
50Hz



STAIRS INDUSTRIAL CO., LTD.

General Data

Example: SP-1100



Material Specification-10" Pumps

Pos.	Components	Standard
01	Discharge	SUS304 / SUS316
02	Lower Valve Seat Retainer	SUS304 / SUS316
04	Valve Cup	SUS304 / SUS316
05	Upper Valve Seat Retainer	SUS304 / SUS316
11	Upper Diffuser	SUS304 / SUS316
+26	Spacing Washer For Stop Ring	Carbon Fiber+MoS2+PTFE
+90	Upper Bearing	SUS304+NBR / SUS316+NBR
12	Diffuser	SUS304 / SUS316
18	Impeller	SUS304 / SUS316
18	Impeller - A	SUS304 / SUS316
+19	Ring Of Impeller	SUS304 / SUS316
21	Split Cone	SUS304 / SUS316
22	Split Cone Nut	SUS304 / SUS316
34	Strainer - one lead	SUS304 / SUS316
34	Strainer - two leads	SUS304 / SUS316
36	Suction Interconnector - 6"	SUS304 / SUS316
36	Suction Interconnector - 8"	SUS304 / SUS316
37	Shaft	SUS431 / SUS316
44	Coupling - 6"	SUS304 / SUS316
44	Coupling - 8"	SUS304 / SUS316
47	Strap	SUS304 / SUS316
52	Cable Guard	SUS304 / SUS316
86	Valve Seat	NBR70
87	Neck Ring	PPS+NBR
88	Nut	SUS304 / SUS316
89	Bearing	NBR70
91	Screw - 6"	SUS304 / SUS316
91	Screw - 8"	SUS304 / SUS316
92	Key - 6"	SUS304 / SUS316
92	Key - 8"	SUS304 / SUS316
93	O-ring - 6"	NBR70
93	O-ring - 8"	NBR70
94	O-ring	NBR70
95	Spring	SUS304 / SUS316
98	Spring Washer	SUS304

*AISI 316 stainless steel pumps are available on request.

10" Stainless Steel Submersible Pumps

Stairs' SP 10" range of submersible pumps are made of corrosion and abrasion resistant stainless steel and have been developed in accordance with state of the art technology, which is also for heavy duty and high volume pumping application. The SP 10" pumps are manufactured to the highest standards of highly efficient hydraulic impeller and diffuser design to reach high energy efficiency, dependable performance, rugged construction and long service life, even in difficult environments.

Applications

- ◆ Potable water supply
- ◆ Agricultural irrigation and livestock watering
- ◆ Municipal and industrial water supply
- ◆ Pressure boosting
- ◆ Mining applications
- ◆ Groundwater lowering
- ◆ Fountain

Pumped Liquids

- ◆ Clean, thin, non-aggressive and non-corrosive liquids without solid particles or fibers.

Operating Conditions

- ◆ Capacity (m³/h) min16 max 280
- ◆ Total Head: Max. 502m
- ◆ Max. ambient temperature (Liquid):40°C
- ◆ Sand content: Max. 50 g/m³

Screen size of each hole: 20 x 4 mm



Model code

SP	650	08
		Number of impeller
		Rated Flow (GPM)
Series name		



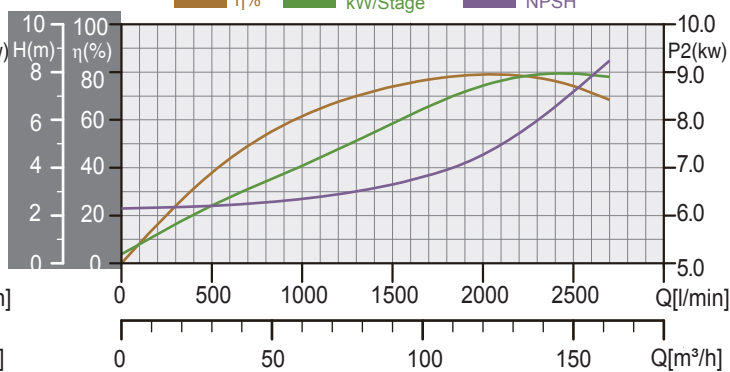
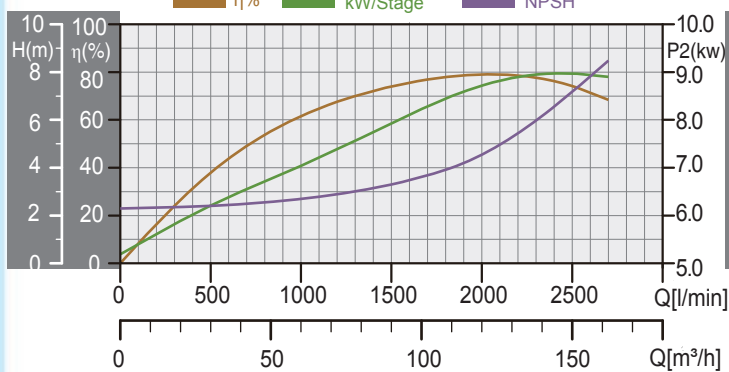
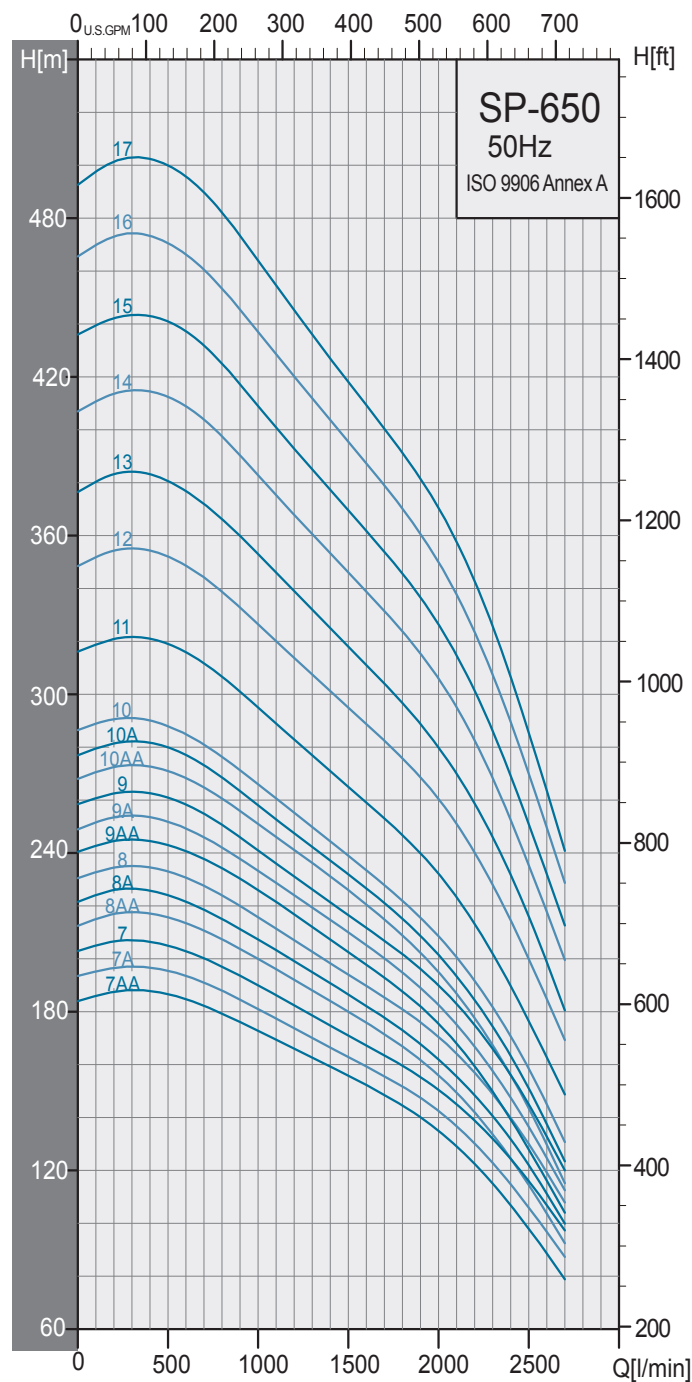
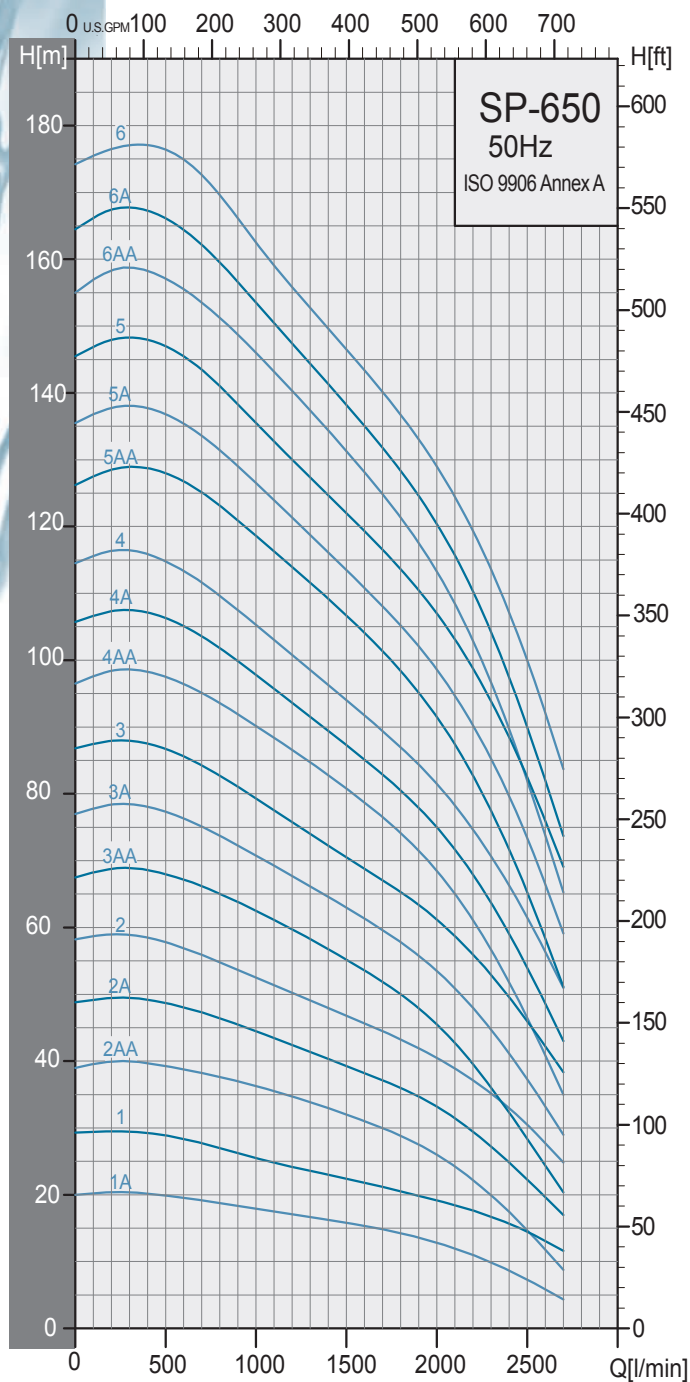
Features

- ◆ Stainless steel construction designed and built for years of trouble free operation
- ◆ Designed and built to operate in difficult conditions.
- ◆ All metal parts are made of 304 or 316 stainless steel, except for the shafts, which are made of 431 or 316 stainless steel.
- ◆ Heavy duty stainless steel discharge head with built-in check valve for preventing back flow in connection with pump stoppage and the risk of destructive water hammer is reduced to a minimum.
- ◆ High quality shaft bearings provide low friction and high wear resistance.
- ◆ The stop ring prevents damage to the pump during transport and in case of up-thrust in connection with start-up. The stop ring, which is designed as a thrust bearing, limits axial movements of the pump shaft.
- ◆ Stainless steel strainer to restrict the entry of sand and other extraneous material.

Stairs SP Series

SP10"

SP650 Performance Curves



Selection Chart

50Hz

Dimensions and weights

Pump Type	Motor		Q capacity 2850 rpm													
	P2 KW	HP	m³/h l/min	30 500	42 700	54 900	66 1100	78 1300	90 1500	102 1700	114 1900	126 2100	138 2300	150 2500	162 2700	
SP650-1-A	7.5	10	HEAD IN METERS	20	19	18	18	17	16	15	14	12	10	7	4	
SP650-1	11	15		29	28	26	25	24	22	22	20	18	17	15	12	
SP650-2-AA	13	17.5		39	38	37	36	34	32	30	28	24	20	15	9	
SP650-2-A	18.5	25		49	48	46	44	41	39	38	35	32	28	22	17	
SP650-2	22	30		58	56	54	52	49	47	44	42	39	35	31	25	
SP650-3-AA	22	30		68	66	64	61	58	55	52	48	43	36	29	20	
SP650-3-A	26	35		77	75	73	69	66	63	60	56	51	45	37	29	
SP650-3	30	40		87	89	81	78	74	71	68	63	58	53	46	39	
SP650-4-AA	37	50		98	95	92	88	85	81	77	72	65	67	47	35	
SP650-4-A	37	50		106	104	100	96	92	87	83	78	72	64	54	43	
SP650-4	37	50		115	112	108	103	98	94	89	84	78	71	62	51	
SP650-5-AA	45	60		128	125	121	116	112	107	101	95	87	78	65	51	
SP650-5-A	45	60		137	133	129	124	119	114	108	102	95	85	73	59	
SP650-5	55	75		147	144	138	133	128	122	117	111	103	94	83	69	
SP650-6-AA	55	75		157	154	149	143	138	131	125	118	108	97	82	65	
SP650-6-A	55	75		166	162	156	151	144	138	132	125	116	104	90	74	
SP650-6	63	85		176	173	166	159	153	147	140	133	124	114	100	84	
SP650-7-AA	63	85	187	183	176	170	163	156	148	140	129	115	98	79		
SP650-7-A	63	85	196	191	185	178	170	163	155	148	137	123	106	83		
SP650-7	75	100	205	200	194	186	178	171	164	155	145	132	116	98		
SP650-8-AA	75	100	216	211	204	196	188	180	172	162	149	134	115	93		
SP650-8-A	75	100	224	218	212	204	195	187	178	168	156	141	122	100		
SP650-8	75	100	233	227	220	212	203	194	186	176	165	149	130	108		
SP650-9-AA	93	125	243	238	230	221	212	203	193	182	168	150	128	104		
SP650-9-A	93	125	252	245	237	228	219	210	200	189	175	158	137	113		
SP650-9	93	125	261	255	246	236	226	217	207	196	183	166	145	120		
SP650-10-AA	93	125	271	265	256	246	236	226	215	203	186	167	144	115		
SP650-10-A	93	125	280	273	264	253	243	232	221	209	193	175	151	123		
SP650-10	93	125	288	281	271	261	250	239	227	215	201	182	159	131		
SP650-11	110	150	319	312	301	289	277	265	254	240	223	202	177	149		
SP650-12	132	175	352	345	333	320	308	295	283	269	251	228	200	169		
SP650-13	132	175	381	372	360	346	332	318	304	289	270	246	216	180		
SP650-14	147	200	413	404	390	375	361	346	332	316	295	269	236	200		
SP650-15	147	200	441	431	417	401	385	370	354	336	315	286	251	213		
SP650-16	170	230	471	460	445	428	412	396	379	361	338	308	270	229		
SP650-17	170	230	500	490	473	455	436	418	406	382	358	325	286	241		

HEAD IN METERS

Pump Type	Motor Dia.	Dimensions (mm)			Net Weight (Kg)
		A	C*	C**	
SP650-1-A	6"	652	211	218	29.2
SP650-1	6"	652	211	218	29.3
SP650-2-AA	6"	807	211	218	35.6
SP650-2-A	6"	807	211	218	35.7
SP650-2	6"	807	211	218	35.8
SP650-3-AA	6"	963	211	218	42.1
SP650-3-A	6"	963	211	218	42.2
SP650-3	6"	963	211	218	42.3
SP650-4-AA	6"	1118	211	218	48.6
SP650-4-A	6"	1118	211	218	48.7
SP650-4	6"	1118	211	218	48.8
SP650-5-AA	6"	1274	211	218	55.1
SP650-5-A	6"	1274	211	218	55.2
SP650-5	8"	1274	213	218	57.0
SP650-6-AA	8"	1429	213	218	61.9
SP650-6-A	8"	1429	213	218	62.0
SP650-6	8"	1429	218	227	62.1
SP650-7-AA	8"	1585	218	227	66.9
SP650-7-A	8"	1585	218	227	67.0
SP650-7	8"	1585	218	227	67.1
SP650-8-AA	8"	1740	218	227	71.9
SP650-8-A	8"	1740	218	227	72.0
SP650-8	8"	1740	218	227	72.1
SP650-9-AA	8"	1896	218	227	76.9
SP650-9-A	8"	1896	218	227	77.0
SP650-9	8"	1896	218	227	77.1
SP650-10-AA	8"	2051	218	227	81.9
SP650-10-A	8"	2051	218	227	82.0
SP650-10	8"	2051	218	227	82.1
SP650-11	8"	2207	218	227	87.1
SP650-12	10"	2492	227	247	109.5
SP650-13	10"	2648	227	247	116.0
SP650-14	10"	2803	227	247	122.5
SP650-15	10"	2959	227	247	129.0
SP650-16	10"	3114	227	247	135.5
SP650-17	10"	3270	227	247	142.0

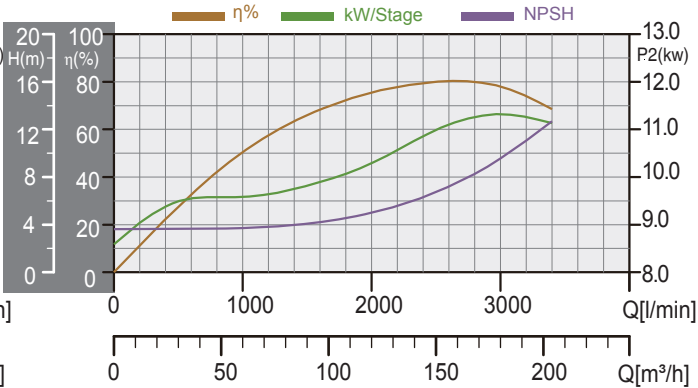
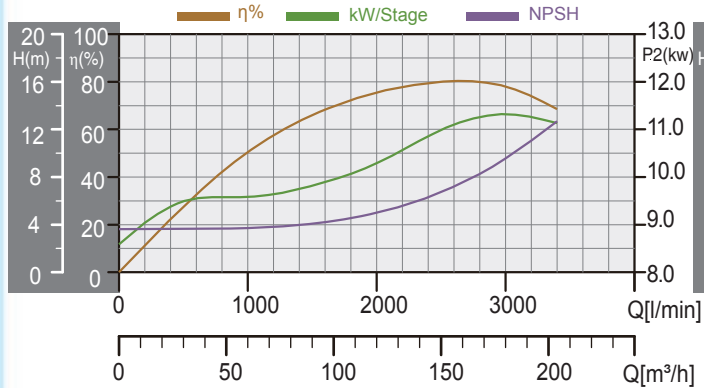
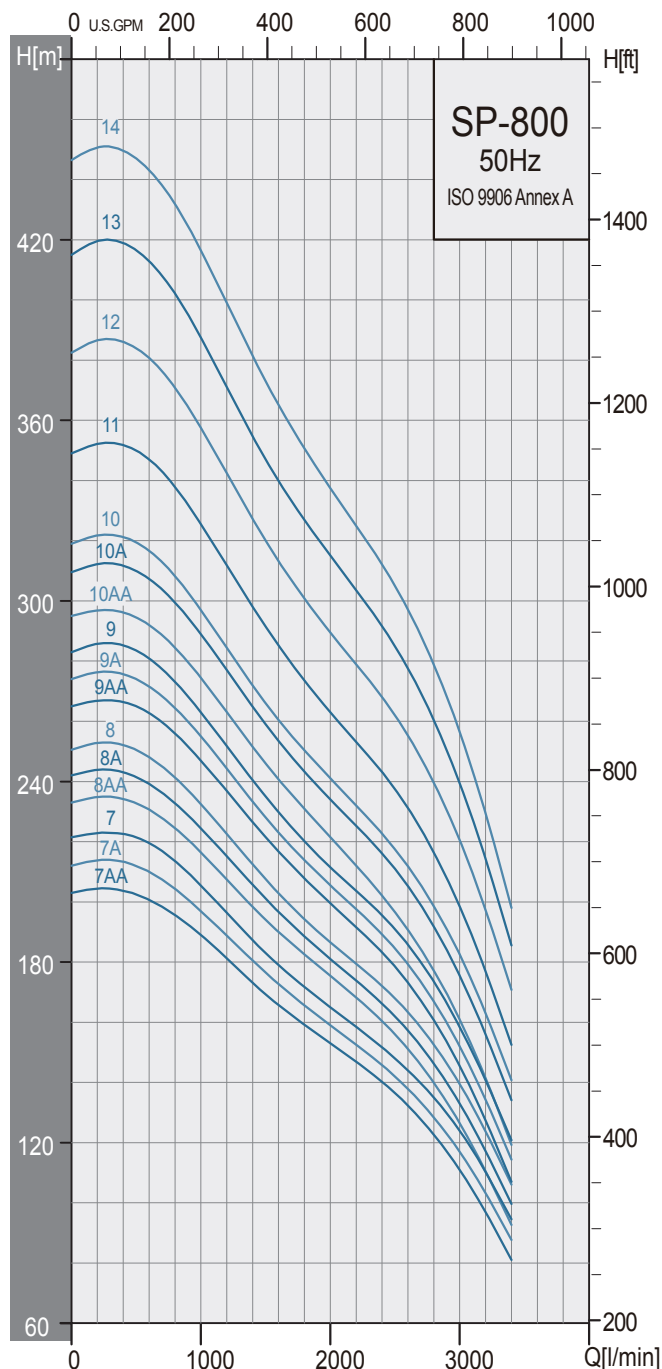
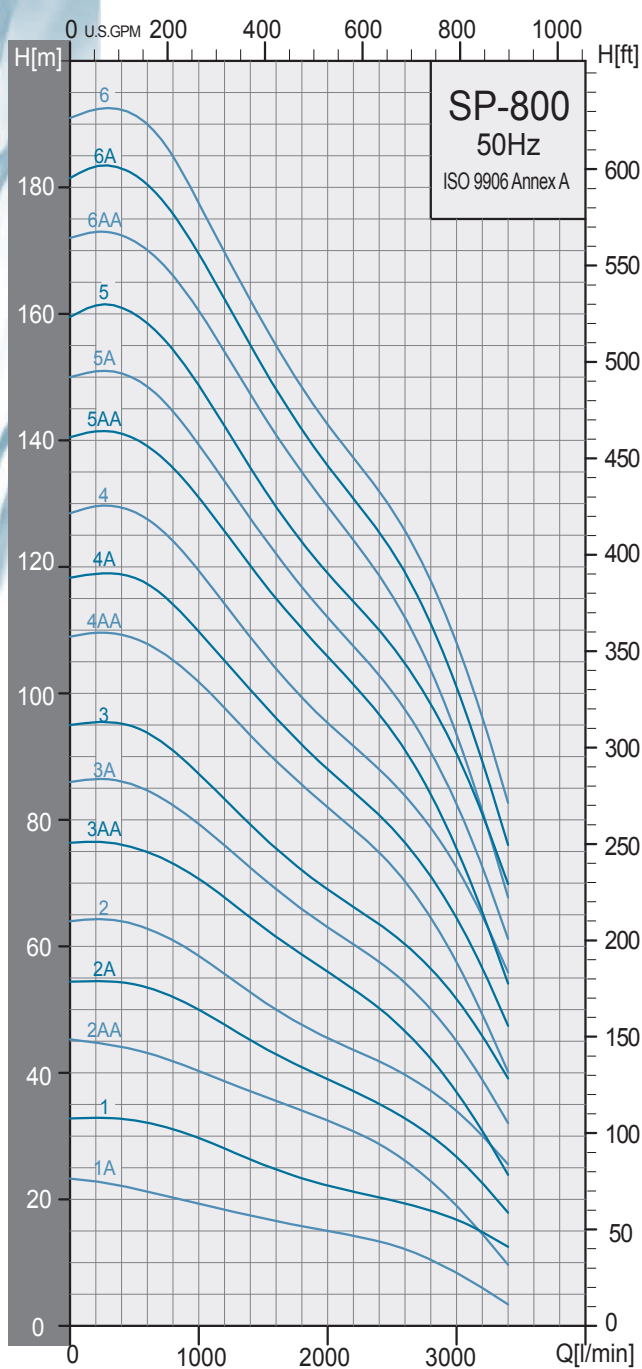
C*: Maximum diameter of pump with one motor cable
C**: Maximum diameter of pump with two motor cable



Stairs SP Series

SP10"

SP800 Performance Curves



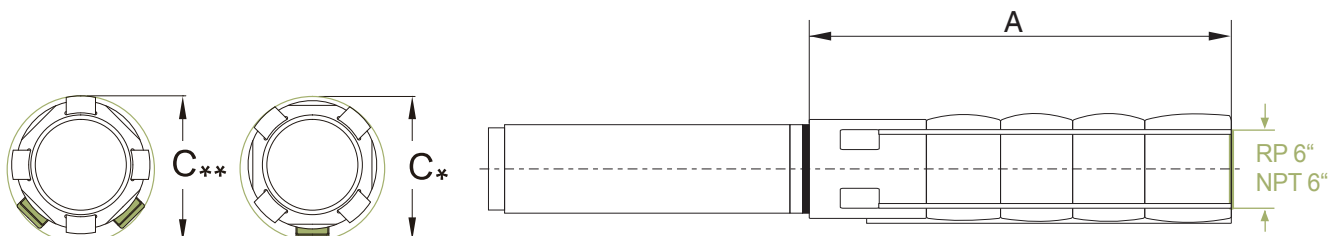
Selection Chart

50Hz

Dimensions and weights

Pump Type	Motor		Q capacity 2850 rpm											Net Weight (Kg) Pump
	P2		m³/h l/min	36	54	72	90	108	126	144	162	180	198	
	KW	HP		600	900	1200	1500	1800	2100	2400	2700	3000	3300	
SP 800-1-A	9.2	12.5	HEAD IN METERS	21	20	18	17	16	15	13	12	8	5	30.40
SP 800-1	13	17.5		32	31	28	25	24	22	20	19	17	14	30.40
SP 800-2-AA	18.5	25		43	41	39	36	34	32	29	25	19	12	36.74
SP 800-2-A	22	30		53	51	48	44	41	38	35	32	27	20	36.82
SP 800-2	26	35		63	60	56	51	48	45	42	38	34	28	36.82
SP 800-3-AA	30	40		75	72	68	63	59	55	50	45	37	28	43.16
SP 800-3-A	37	50		85	81	76	71	66	62	58	52	45	36	43.24
SP 800-3	37	50		94	89	83	78	72	68	64	59	52	43	43.24
SP 800-4-AA	45	60		108	104	98	91	85	80	75	68	57	45	50.90
SP 800-4-A	45	60		117	112	105	98	92	86	81	74	65	52	50.98
SP 800-4	55	75		128	122	114	106	99	94	88	81	73	61	50.98
SP 800-5-AA	55	75		139	134	126	118	110	104	97	88	75	60	57.32
SP 800-5-A	55	75		148	142	134	125	117	110	103	94	82	67	57.40
SP 800-5	63	85		158	152	142	132	124	117	110	102	90	76	57.40
SP 800-6-AA	63	85		170	163	154	144	135	127	119	108	93	75	63.74
SP 800-6-A	75	100		180	173	162	152	142	133	125	115	101	83	63.82
SP 800-6	75	100		190	182	170	158	148	140	132	122	108	90	63.82
SP 800-7-AA	75	100		200	193	181	169	159	150	140	128	111	89	70.16
SP 800-7-A	92	125		210	201	188	177	166	156	146	134	117	96	70.24
SP 800-7	92	125		220	210	196	183	172	162	152	140	124	102	70.24
SP 800-8-AA	92	125		230	220	208	194	183	172	160	146	126	102	76.58
SP 800-8-A	92	125		239	229	215	201	189	177	167	152	133	108	76.66
SP 800-8	92	125		248	237	222	208	194	183	172	158	140	115	76.66
SP 800-9-AA	110	150		263	252	237	222	208	196	183	167	146	117	83.00
SP 800-9-A	110	150		272	260	244	228	214	202	189	174	152	124	83.08
SP 800-9	110	150		281	268	252	235	220	207	196	180	159	131	83.08
SP 800-10-AA	110	150		292	280	263	246	231	217	202	184	161	131	89.42
SP 800-10-A	132	175		307	295	277	259	244	230	216	199	176	145	102.62
SP 800-10	132	175		317	303	284	266	250	236	223	205	182	152	102.62
SP 800-11	132	175		347	332	312	292	274	258	243	224	199	165	109.04
SP 800-12	147	200		380	365	342	320	301	285	268	248	221	184	115.46
SP 800-13	170	230		413	395	371	347	327	309	292	269	240	200	121.88
SP 800-14	170	230		443	425	399	373	350	332	312	288	257	213	128.30

C*: Maximum diameter of pump with one motor cable
C**: Maximum diameter of pump with two motor cable
- : On Request

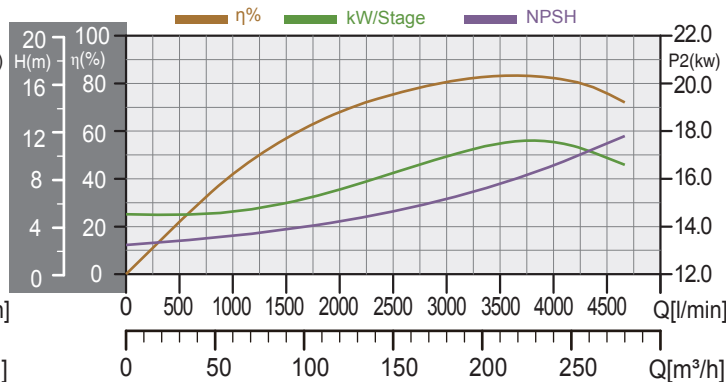
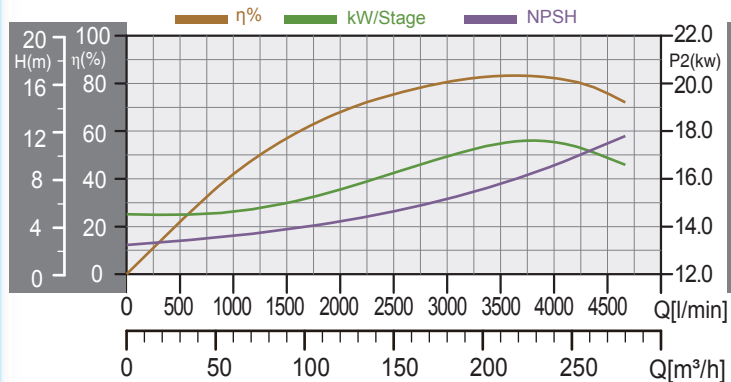
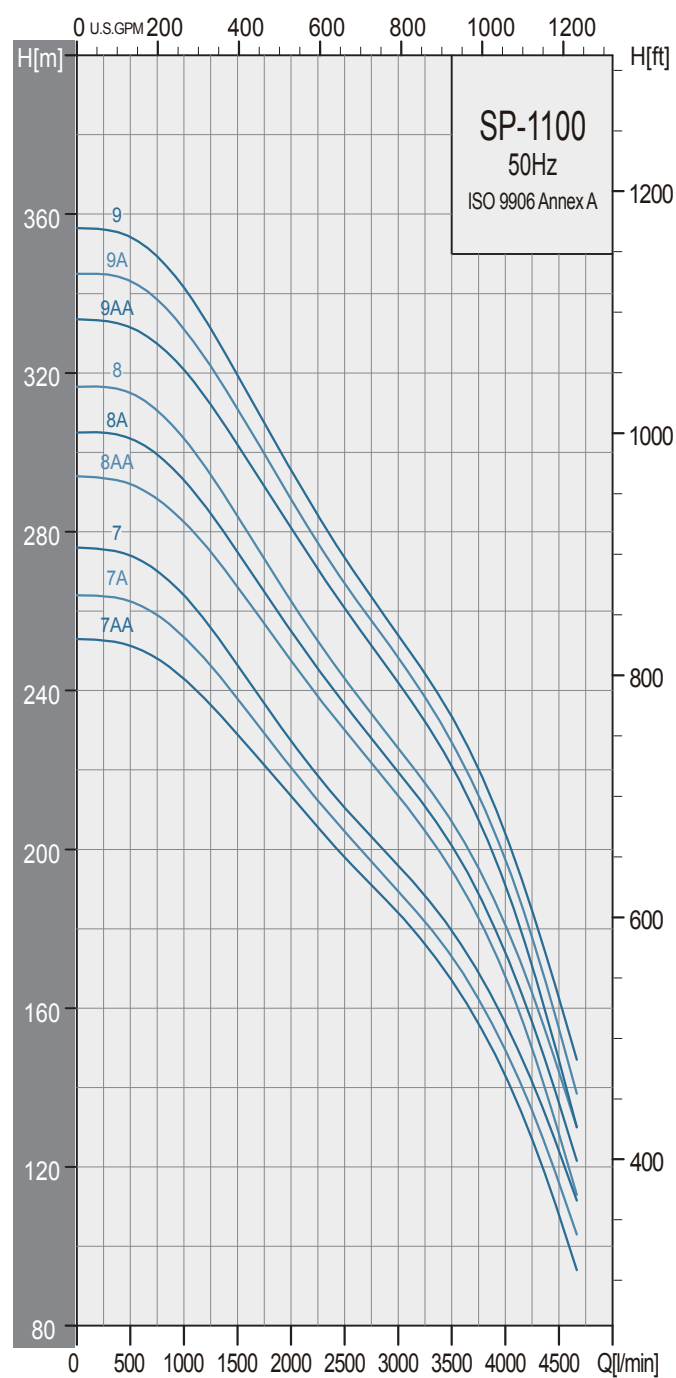
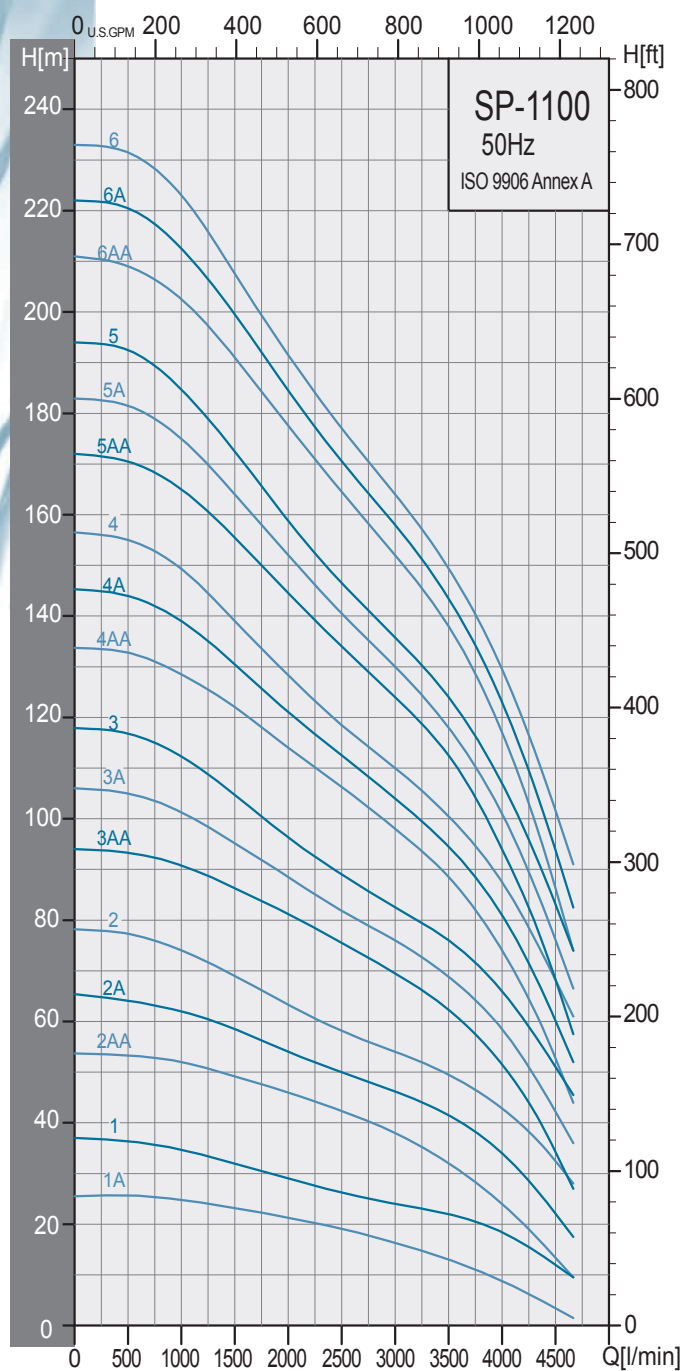


Stairs SP Series

SP10"

SP1100

Performance Curves



Selection Chart

50Hz Dimensions and weights

Pump Type	Motor		Q capacity 2850 rpm											
	P2		m³/h l/min	30	45	60	75	90	120	150	180	210	240	270
	KW	HP		500	750	1000	1250	1500	2000	2500	3000	3500	4000	4500
SP 1100-1-A	15	20	HEAD IN METERS	26	25.5	25	24	23	21	19	16	13	9	4
SP 1100-1	18.5	25		36.5	36	35	33	32	29	26	24	22	18	12
SP 1100-2-AA	30	40		53	52.5	52	50	49	46	42	38	32	24	14
SP 1100-2-A	37	50		64	63	62	60	58	54	50	46	41	34	22
SP 1100-2	45	60		77	76	74	71	69	63	58	54	49	42	32
SP 1100-3-AA	55	75		93	92	90	88	86	81	75	69	62	51	34
SP 1100-3-A	55	75		105	103	101	98	95	88	82	76	69	58	42
SP 1100-3	63	85		117	115	112	108	104	96	89	82	76	66	51
SP 1100-4-AA	75	100		133	131	128	125	122	114	106	98	88	74	53
SP 1100-4-A	75	100		144	142	139	135	130	121	112	104	94	81	60
SP 1100-4	75	100		155	152	149	144	139	128	118	110	100	87	68
SP 1100-5-AA	93	125		170	168	165	160	155	144	134	124	112	94	68
SP 1100-5-A	93	125		181	179	175	170	164	152	140	130	118	101	76
SP 1100-5	93	125		192	189	184	179	172	159	146	135	124	107	83
SP 1100-6-AA	110	150		209	206	202	197	191	178	164	152	138	117	86
SP 1100-6-A	110	150		220	217	212	206	199	184	170	158	143	123	93
SP 1100-6	110	150		231	228	223	216	207	191	177	164	149	129	101
SP 1100-7-AA	132	175		251	248	243	236	229	213	198	184	167	143	108
SP 1100-7-A	132	175		262	259	253	246	238	220	204	189	173	149	116
SP 1100-7	132	175		274	270	264	255	246	227	210	196	180	156	124
SP 1100-8-AA	147	200		292	288	282	274	266	247	230	213	195	168	128
SP 1100-8-A	147	200		303	299	293	284	275	255	236	219	201	174	136
SP 1100-8	147	200		315	310	303	294	284	262	243	225	207	181	144
SP 1100-9-AA	170	230		331	327	320	312	302	281	260	242	221	191	146
SP 1100-9-A	170	230		343	338	331	321	311	288	267	248	227	197	155
SP 1100-9	170	230		354	349	341	331	319	295	273	254	233	204	162

Pump Type	Motor Dia.	Dimensions (mm)			Net Weight (Kg) Pump
		A	C*	C**	
SP 1100-1-A	6"	772	237	241	46.1
SP 1100-1	6"	772	237	241	46.1
SP 1100-2-AA	6"	948	237	241	56.1
SP 1100-2-A	6"	948	237	241	56.1
SP 1100-2	8"	948	237	241	55.8
SP 1100-3-AA	8"	1124	237	241	65.6
SP 1100-3-A	8"	1124	237	241	65.6
SP 1100-3	8"	1124	237	241	65.6
SP 1100-4-AA	8"	1300	237	241	75.4
SP 1100-4-A	8"	1300	237	241	75.4
SP 1100-4	8"	1300	237	241	75.4
SP 1100-5-AA	8"	1476	237	241	85.8
SP 1100-5-A	8"	1476	237	241	85.8
SP 1100-5	8"	1476	237	241	85.8
SP 1100-6-AA	8"	1652	237	241	96.2
SP 1100-6-A	8"	1652	237	241	96.2
SP 1100-6	8"	1652	237	241	96.2
SP 1100-7-AA	10"	1828	262	274	111.2
SP 1100-7-A	10"	1828	262	274	111.2
SP 1100-7	10"	1828	262	274	111.2
SP 1100-8-AA	10"	2004	262	274	121.5
SP 1100-8-A	10"	2004	262	274	121.5
SP 1100-8	10"	2004	262	274	121.5
SP 1100-9-AA	10"	2180	262	274	131.7
SP 1100-9-A	10"	2180	262	274	131.7
SP 1100-9	10"	2180	262	274	131.7

C*: Maximum diameter of pump with one motor cable
C**: Maximum diameter of pump with two motor cable
- : On Request





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