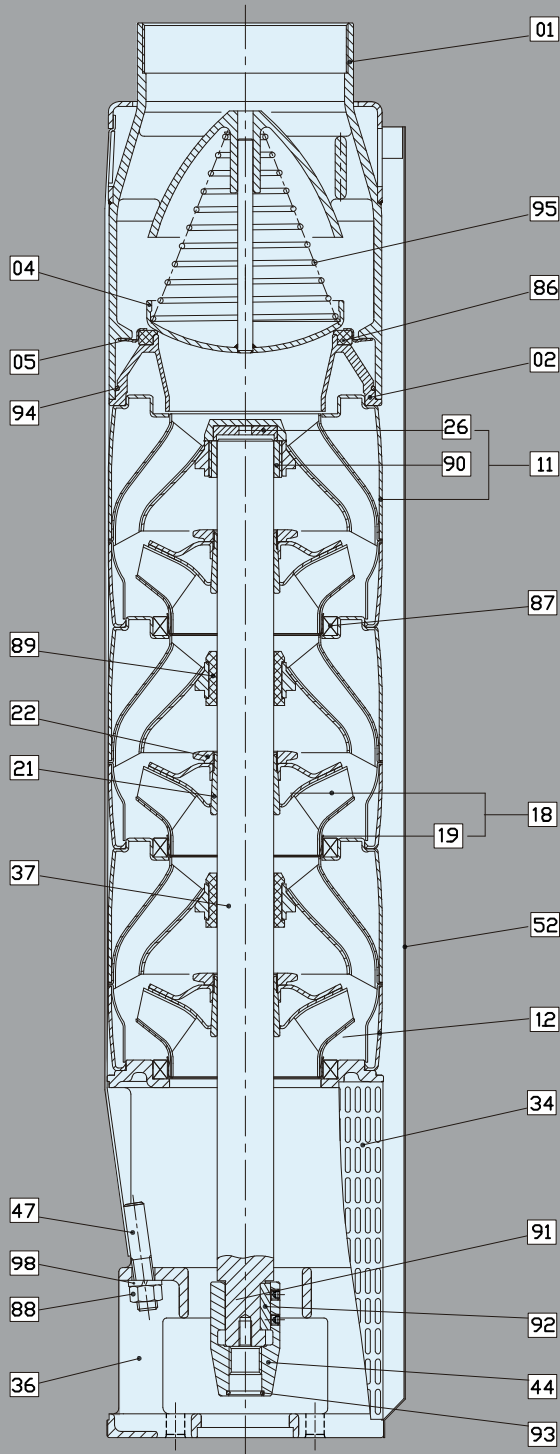


General Data

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

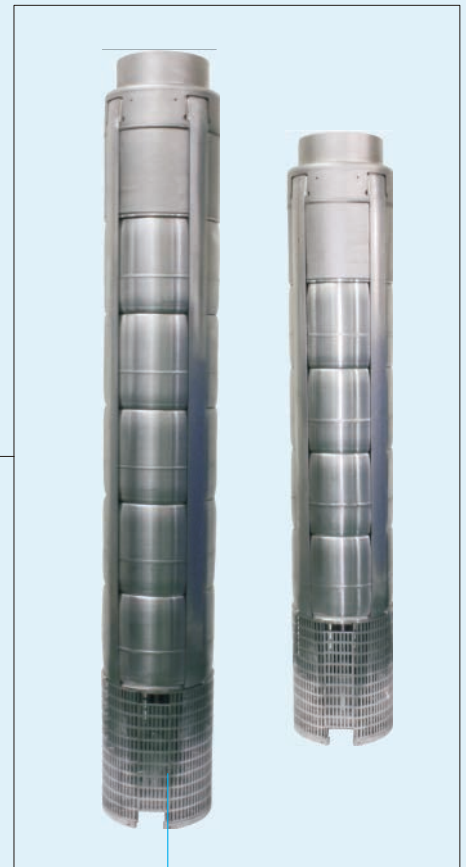
Pumped Liquids

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

Operating Conditions

- ◆ Capacity (m³/h) min 20 max 335
- ◆ Total Head: Max. 547 m
- ◆ Max. ambient temperature (Liquid): 30°C
- ◆ Sand content: Max. 50 g/m³

Screen size of each hole: 20 x 4 mm



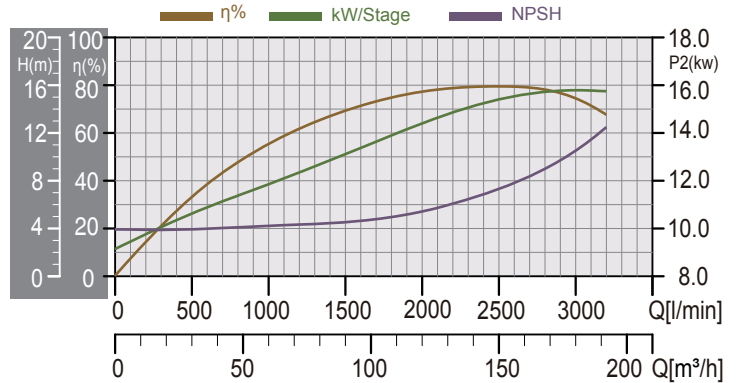
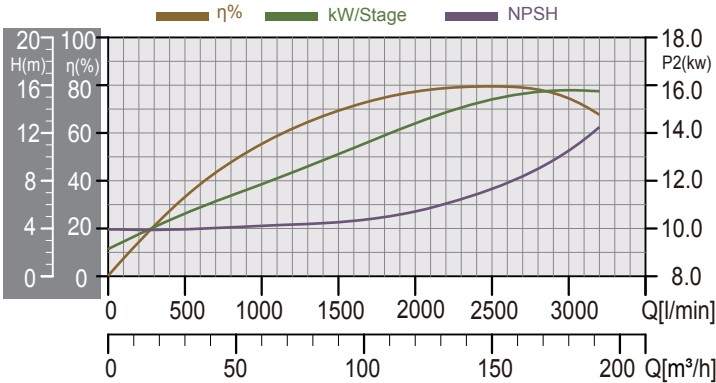
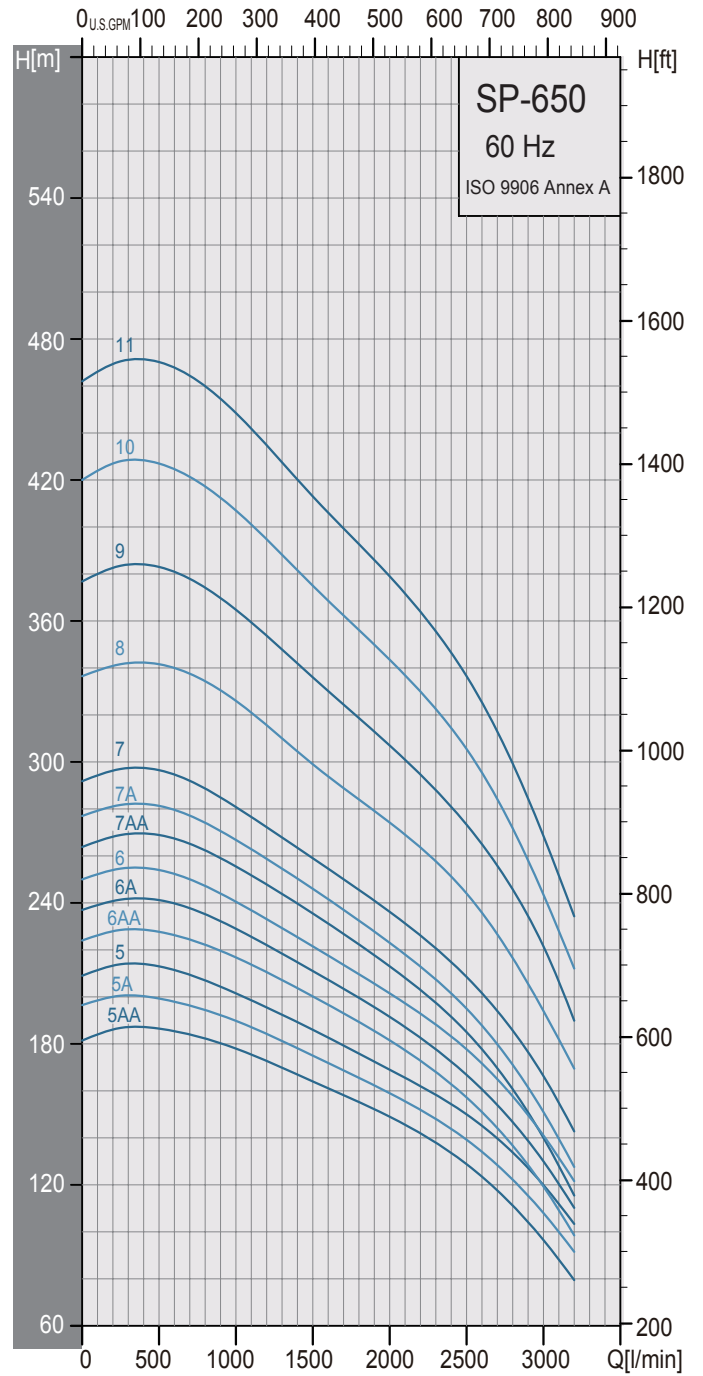
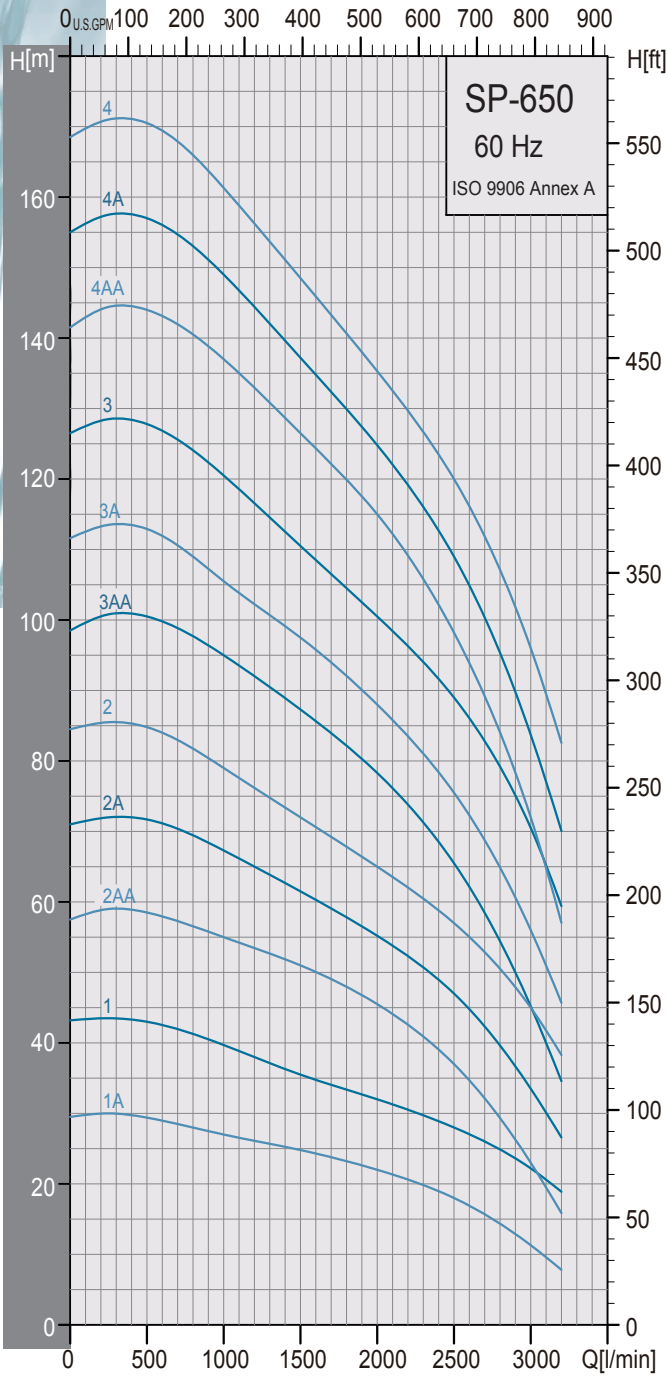
Features

- ◆ 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

SP 10"

SP650 Performance Curves



Selection Chart

60Hz

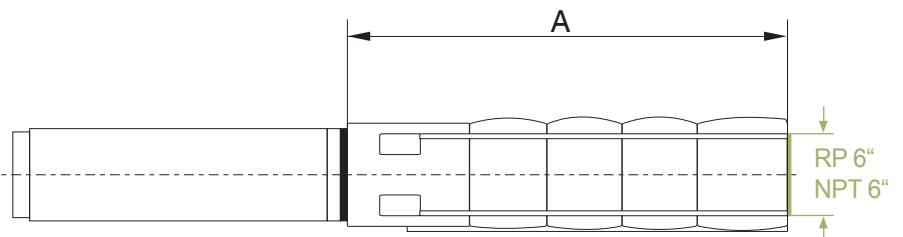
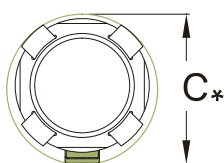
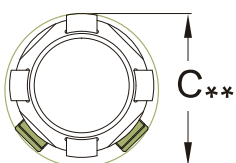
Dimensions and weights

Pump Type	Motor		m ³ /h l/min	Q capacity 3450 rpm											
	P2			48	60	72	84	96	108	120	132	144	156	168	180
	KW	HP		800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
SP650-1-A	11	15	28	27	26	25	24	23	22	21	19	17	14	11	
SP650-1	18.5	25	41	40	38	46	35	34	32	31	29	27	25	22	
SP650-2-AA	22	30	57	55	58	52	50	48	46	43	39	35	29	23	
SP650-2-A	26	35	69	67	65	63	60	58	55	53	49	45	40	34	
SP650-2	30	40	82	79	76	73	71	68	65	63	59	55	51	45	
SP650-3-AA	37	50	98	95	92	89	86	82	78	74	69	62	55	45	
SP650-3-A	37	50	109	107	103	99	96	92	88	83	78	72	65	56	
SP650-3	45	60	124	121	117	113	108	105	101	96	92	86	79	71	
SP650-4-AA	55	75	141	137	133	139	124	120	115	109	102	94	84	72	
SP650-4-A	55	75	153	149	144	140	135	130	125	119	113	105	95	84	
SP650-4	63	85	166	161	151	151	146	141	135	130	123	116	107	96	
SP650-5-AA	75	100	182	178	173	167	161	155	149	142	133	123	111	97	
SP650-5-A	75	100	195	190	185	178	171	165	159	152	143	135	122	108	
SP650-5	75	100	207	202	196	190	183	176	169	162	155	145	134	120	
SP650-6-AA	75	100	223	217	210	204	196	190	182	173	163	151	137	119	
SP650-6-A	93	125	235	229	222	215	208	200	192	183	173	160	147	130	
SP650-6	93	125	247	241	233	225	218	210	202	193	183	171	157	141	
SP650-7-AA	93	125	262	256	248	240	231	222	213	203	192	177	161	140	
SP650-7-A	93	125	274	267	258	250	241	233	223	213	201	188	171	151	
SP650-7	110	150	288	281	273	263	255	246	236	226	215	201	185	166	
SP650-8	132	175	334	326	315	305	294	284	274	263	251	236	217	194	
SP650-9	132	175	374	365	354	342	330	318	307	295	281	265	245	222	
SP650-10	147	200	417	407	395	381	369	356	344	330	315	295	272	244	
SP650-11	170	230	460	449	435	420	406	393	379	364	346	325	299	269	

HEAD IN METERS

Pump Type	Motor Dia.	Dimensions (mm)			Net Weight (Kg) Pump
		A	C*	C**	
SP650-1-A	6"	652	211	215	29.2
SP650-1	6"	652	211	215	29.3
SP650-2-AA	6"	807	211	215	35.6
SP650-2-A	6"	807	211	215	35.7
SP650-2	6" 8"	807	211 213	215 219	35.8 42.1
SP650-3-AA	6" 8"	963	211 213	215 219	42.1 46.9
SP650-3-A	6" 8"	963	211 213	215 219	42.2 47.0
SP650-3	6" 8"	963	211 213	215 219	42.3 47.1
SP650-4-AA	8"	1118	213	219	51.9
SP650-4-A	8"	1118	213	219	52.0
SP650-4	8"	1118	213	219	52.1
SP650-5-AA	8"	1274	213	219	56.9
SP650-5-A	8"	1274	213	219	57.0
SP650-5	8"	1274	213	219	57.1
SP650-6-AA	8"	1429	213	219	61.9
SP650-6-A	8"	1429	213	219	62.0
SP650-6	8"	1429	213	219	62.1
SP650-7-AA	8"	1585	213	219	66.9
SP650-7-A	8"	1585	213	219	67.0
SP650-7	8"	1585	213	219	67.1
SP650-8	10"	1870	227	247	83.5
SP650-9	10"	2026	227	247	90.0
SP650-10	10"	2181	227	247	96.5
SP650-11	10"	2337	227	247	103.0

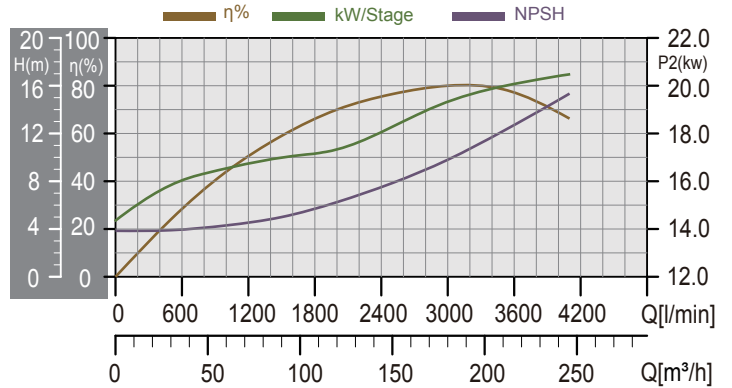
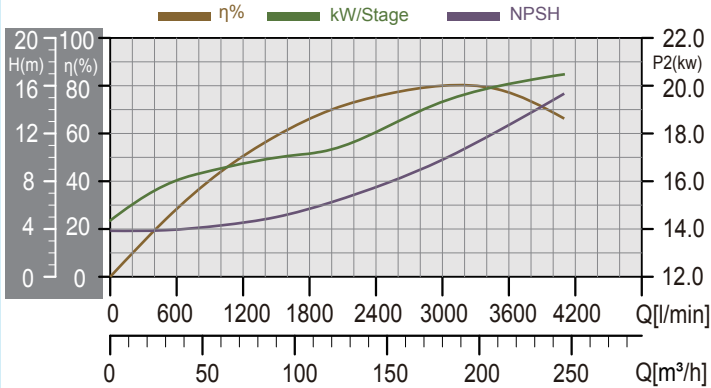
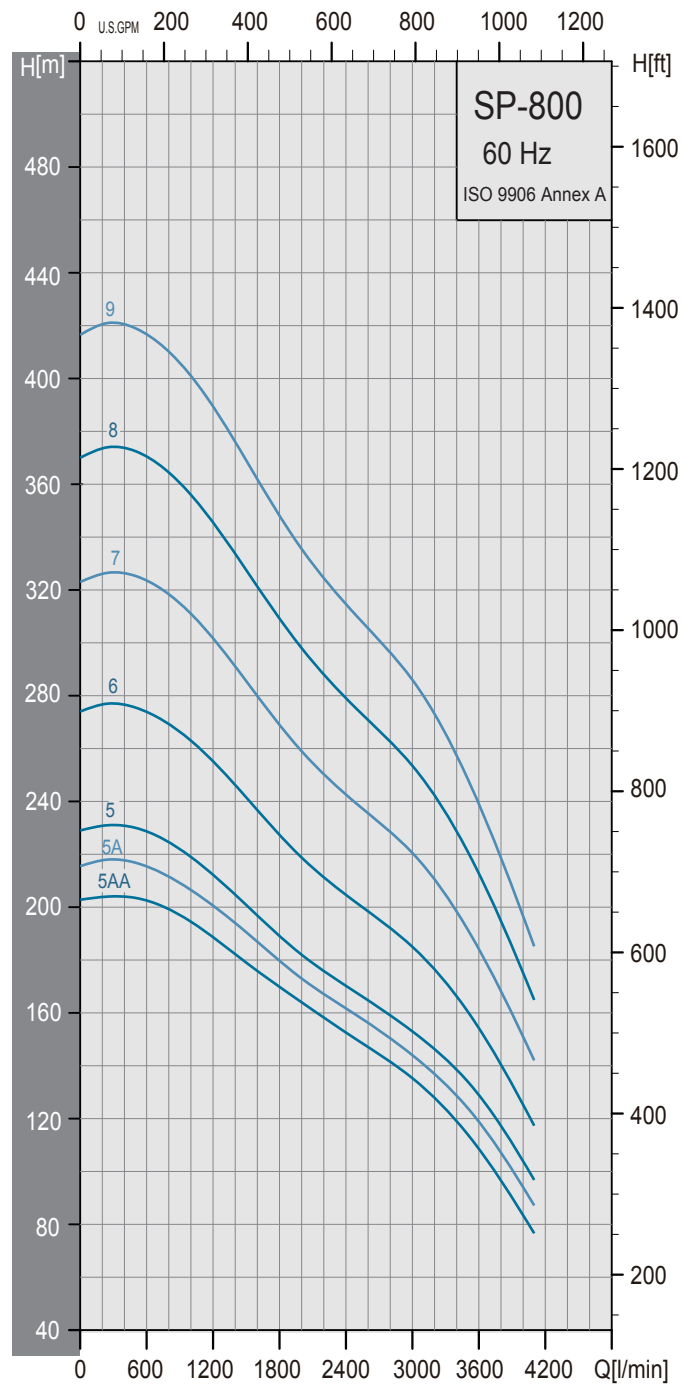
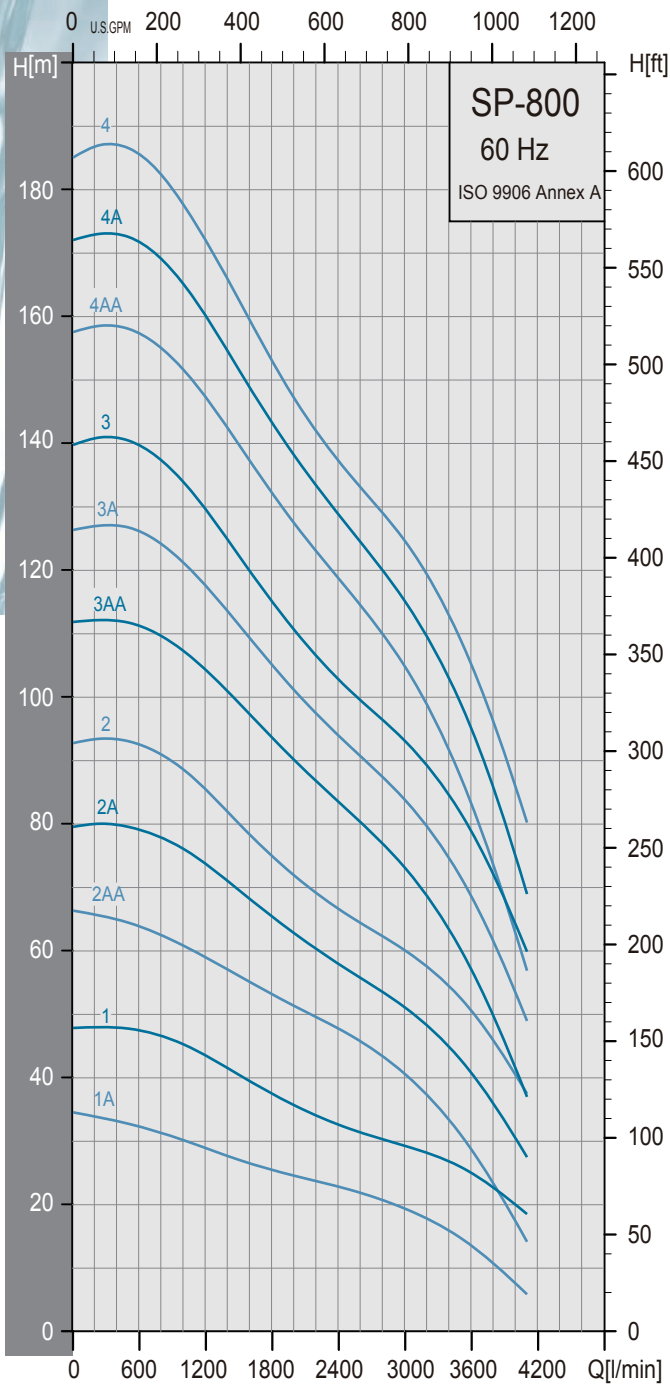
C*: Maximum diameter of pump with one motor cable
 C**: Maximum diameter of pump with two motor cable



Stairs SP Series

SP10"

SP800 Performance Curves



Selection Chart

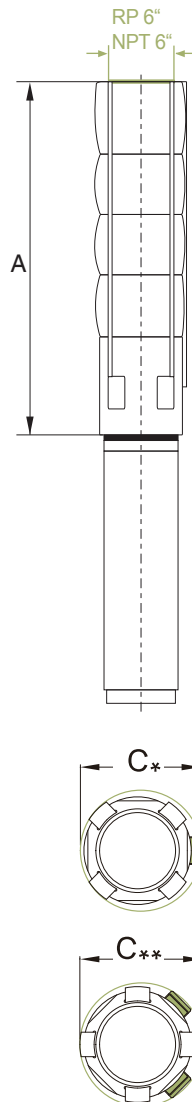
60Hz

Pump Type	Motor		Q capacity 3450 rpm												
	P2		m³/h l/min	36	54	72	90	108	126	144	162	180	198	216	234
	KW	HP		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900
SP 800-1-A	15	20	HEAD IN METERS	32	31	29	27	26	24	23	21	19	17	13	9
SP 800-1	22	30		47	46	44	40	37	35	33	31	29	28	25	21
SP 800-2-AA	26	35		64	62	59	56	53	50	48	45	41	35	28	20
SP 800-2-A	37	50		79	77	74	70	65	62	58	55	51	47	41	33
SP 800-2	37	50		93	90	85	80	75	70	67	63	60	56	50	43
SP 800-3-AA	45	60		111	108	104	99	93	88	83	78	73	66	57	46
SP 800-3-A	55	75		126	122	118	111	105	99	94	89	84	77	68	57
SP 800-3	55	75		140	136	130	123	115	108	103	98	93	87	79	68
SP 800-4-AA	63	85		157	153	147	140	132	125	119	112	105	96	83	68
SP 800-4-A	75	100		172	167	160	152	143	136	129	122	115	107	95	80
SP 800-4	75	100		186	180	172	163	153	145	138	131	125	117	105	91
SP 800-5-AA	93	125		202	197	188	179	170	161	153	144	135	124	108	90
SP 800-5-A	93	125		216	209	201	191	180	170	162	153	144	133	119	101
SP 800-5	93	125		228	222	212	201	189	178	170	162	153	143	129	111
SP 800-6	110	150		274	267	255	242	227	215	205	195	185	172	154	133
SP 800-7	132	175		323	315	302	286	269	255	242	232	221	205	184	160
SP 800-8	147	200		370	361	346	328	309	293	279	267	254	235	213	185
SP 800-9	170	230		417	406	389	369	348	330	314	301	286	266	239	208

Dimensions and weights

Pump Type	Motor Dia.	Dimensions (mm)			Net Weight (Kg)
		6" Connection (RP, NPT)			
		A	C*	C**	
SP 800-1-A	6"	652	211	215	30.4
SP 800-1	6"	652	211	215	30.4
SP 800-2-AA	6"	807	211	215	36.7
SP 800-2-A	6"	807	211	215	36.8
SP 800-2	6"	807	211	215	36.8
SP 800-3-AA	8"	963	213	219	44.5
SP 800-3-A	8"	963	213	219	44.6
SP 800-3	8"	963	213	219	44.6
SP 800-4-AA	8"	1118	213	219	50.9
SP 800-4-A	8"	1118	213	219	51.0
SP 800-4	8"	1118	213	219	51.0
SP 800-5-AA	8"	1274	213	219	57.3
SP 800-5-A	8"	1274	213	219	57.4
SP 800-5	8"	1274	213	219	57.4
SP 800-6	8"	1429	213	219	63.8
SP 800-7	10"	1715	227	247	83.4
SP 800-8	10"	1870	227	247	89.8
SP 800-9	10"	2026	227	247	96.2

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

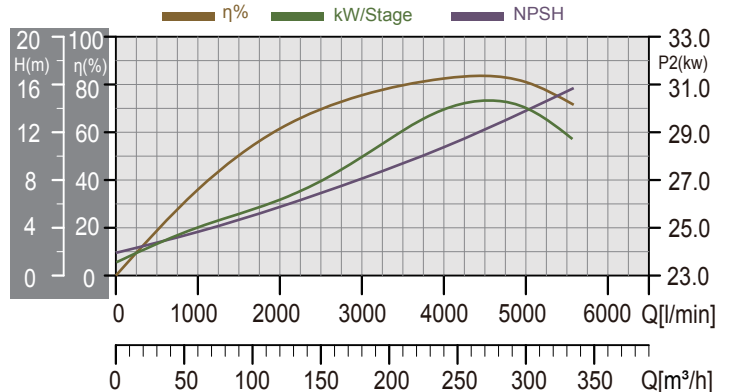
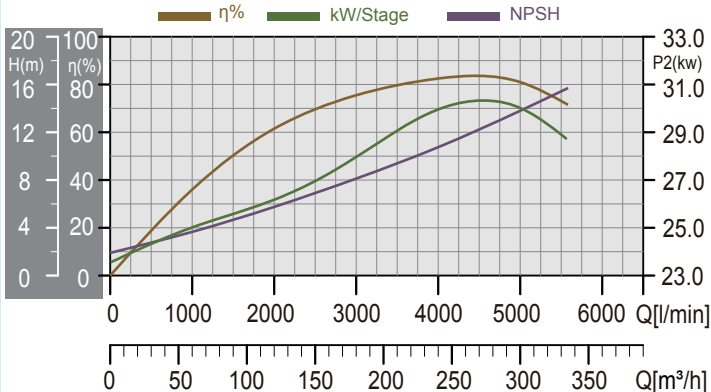
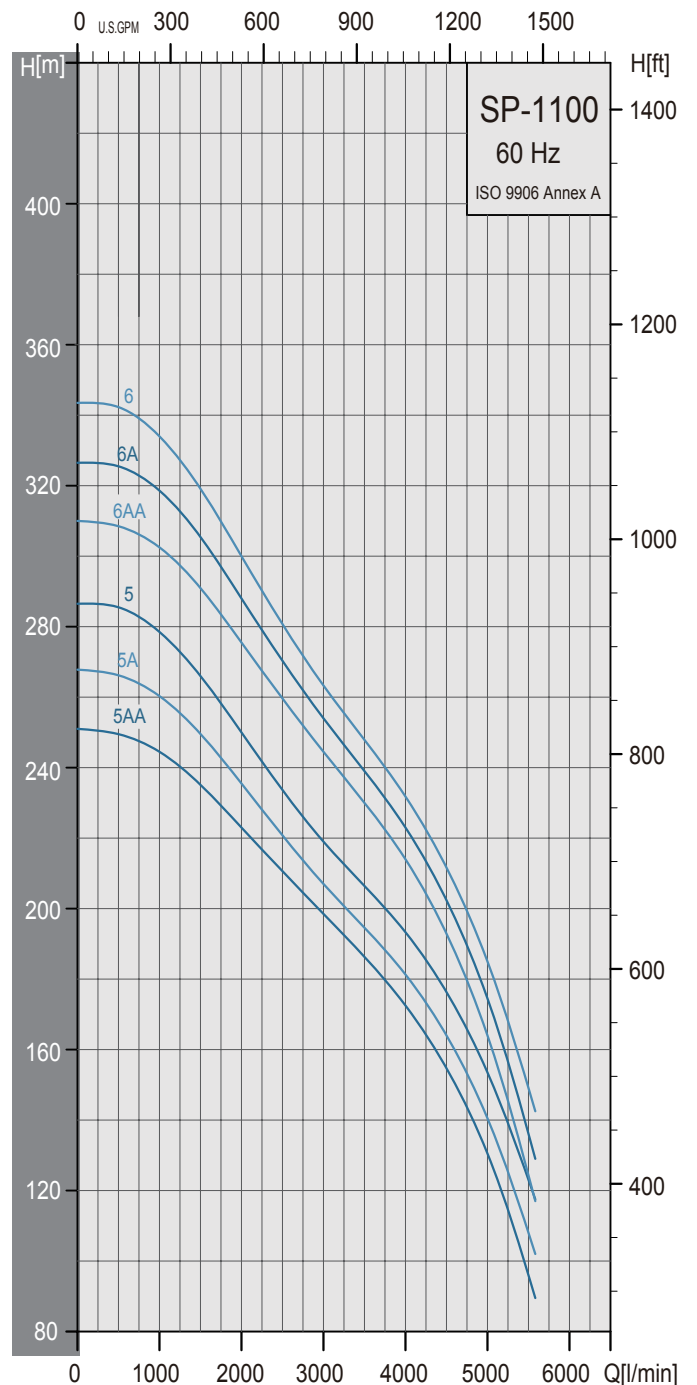
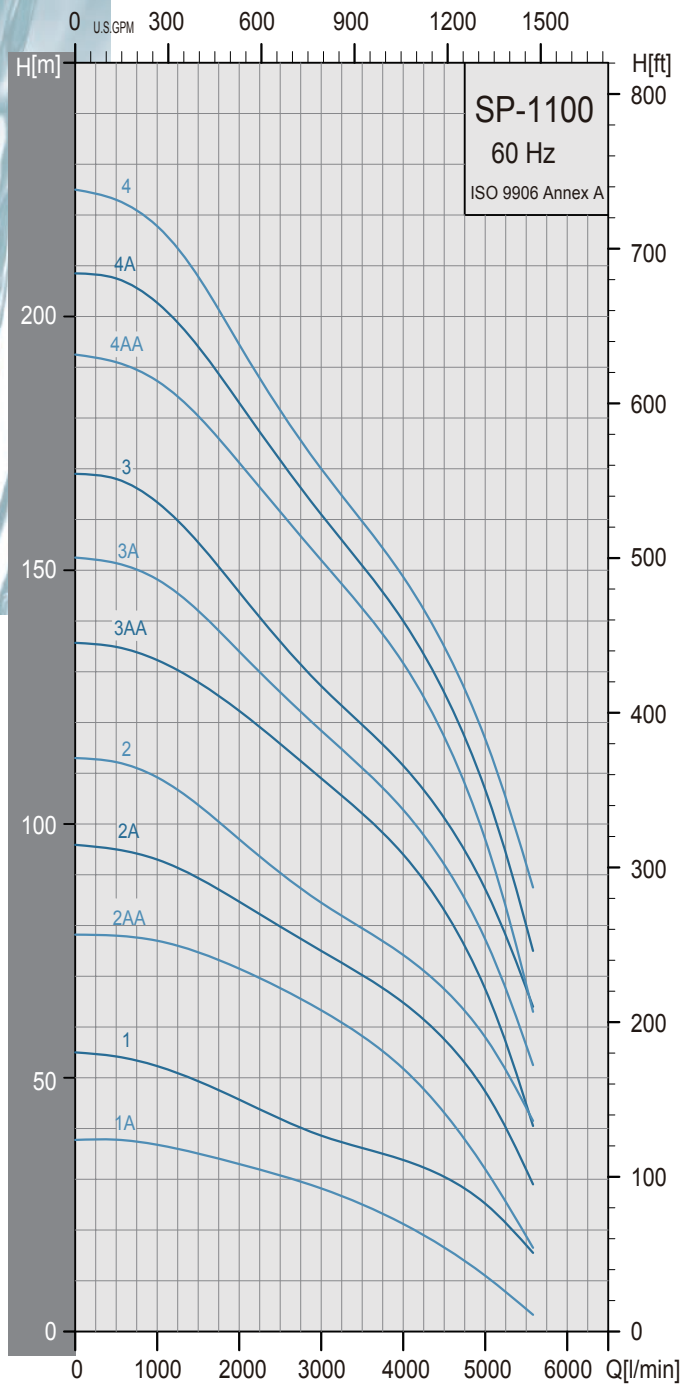


Stairs SP Series

SP10"

SP1100

Performance Curves



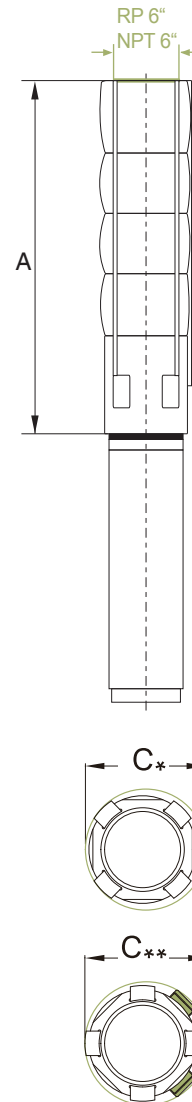
Selection Chart

60Hz

Pump Type	Motor		m³/h l/min	Q capacity 3450 rpm										
	P2			30	60	90	120	150	180	210	240	270	300	330
	KW	HP		500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500
SP 1100-1-A	22	30	HEAD IN METERS	38	37	35	33	31	28	25	21	16	11	5
SP 1100-1	30	40		54	52	49	46	42	38	36	34	30	25	17
SP 1100-2-AA	45	60		78	77	74	71	67	63	58	52	43	32	19
SP 1100-2-A	55	75		95	93	89	85	80	75	70	65	57	47	33
SP 1100-2	63	85		112	109	103	97	90	84	79	74	67	58	45
SP 1100-3-AA	75	100		135	132	128	122	116	109	102	94	83	67	46
SP 1100-3-A	93	125		151	148	142	134	126	118	111	103	92	77	57
SP 1100-3	93	125		168	163	155	146	321	127	119	111	101	87	69
SP 1100-4-AA	110	150		191	187	180	171	161	152	142	131	117	97	70
SP 1100-4-A	110	150		207	202	194	183	171	161	151	140	126	107	81
SP 1100-4	110	150		223	218	208	194	181	170	159	148	135	117	93
SP 1100-5-AA	132	175		249	244	235	223	210	198	186	172	154	130	98
SP 1100-5-A	132	175		266	260	249	235	221	207	194	181	164	140	110
SP 1100-5	147	200		285	278	266	250	233	219	206	193	176	153	125
SP 1100-6-AA	170	230		308	302	291	275	260	244	230	214	192	164	126
SP 1100-6-A	170	230		325	318	305	288	270	254	239	223	202	174	138
SP 1100-6	170	230		342	334	319	300	281	263	248	232	211	185	151

Dimensions and weights

Pump Type	Motor Dia.	Dimensions (mm)			Net Weight (Kg)
		6" Connection (RP, NPT)			
		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	8"	948	237	241	55.8
SP 1100-2-A	8"	948	237	241	55.8
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	10"	1476	262	274	90.8
SP 1100-5-A	10"	1476	262	274	90.8
SP 1100-5	10"	1476	262	274	90.8
SP 1100-6-AA	10"	1652	262	274	101.0
SP 1100-6-A	10"	1652	262	274	101.0
SP 1100-6	10"	1652	262	274	101.0



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