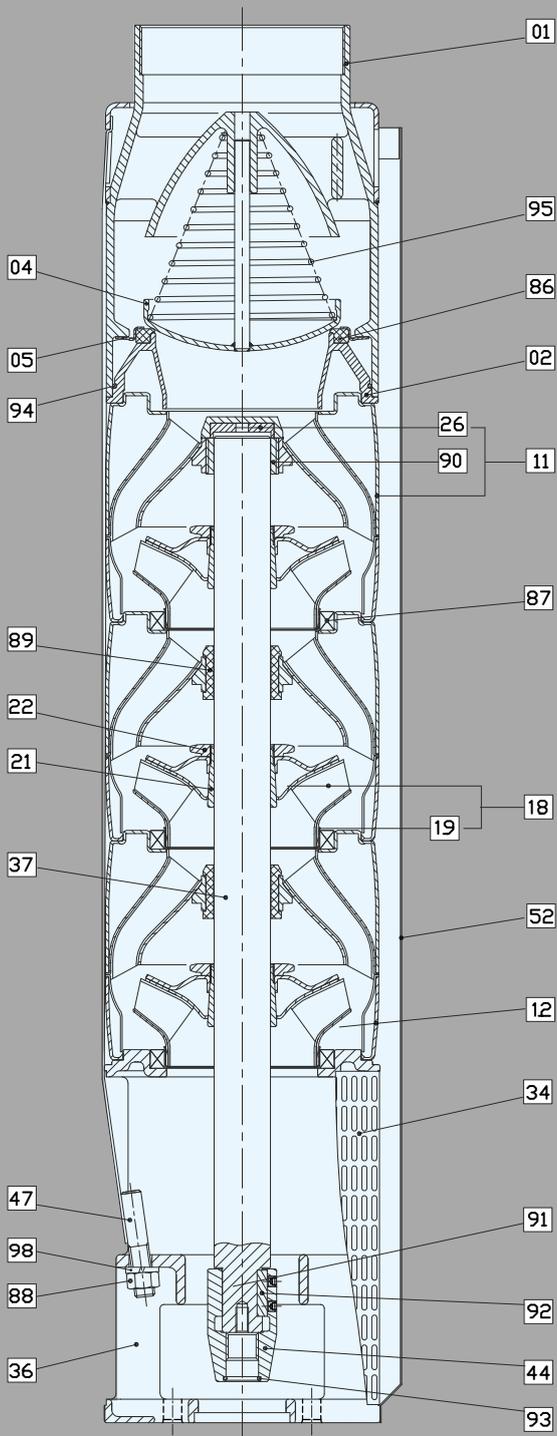


General Data



Example: SP-1100



Material Specification-10" Pumps

Pos.	Components	Material	Standard
01	Discharge	Stainless Steel	304
02	Lower Valve Seat Retainer	Stainless Steel	304
04	Valve Cup	Stainless Steel	304
05	Upper Valve Seat Retainer	Stainless Steel	304
11	Upper Diffuser	Stainless Steel	304
+26	Spacing Washer For Stop Ring	Carbon Fiber +MoS2+PTFE	
+90	Upper Bearing	SUS304+NBR	
12	Diffuser	Stainless Steel	304
18	Impeller	Stainless Steel	304
18	Impeller - A	Stainless Steel	304
+19	Ring Of Impeller	Stainless Steel	304
21	Split Cone	Stainless Steel	304
22	Split Cone Nut	Stainless Steel	304
34	Strainer - one lead	Stainless Steel	304
34	Strainer - two leads	Stainless Steel	304
36	Suction Interconnector - 6"	Stainless Steel	304
36	Suction Interconnector - 8"	Stainless Steel	304
37	Shaft	Stainless Steel	431
44	Coupling - 6"	Stainless Steel	304
44	Coupling - 8"	Stainless Steel	304
47	Strap	Stainless Steel	304
52	Cable Guard	Stainless Steel	304
86	Valve Seat	NBR	70
87	Neck Ring	PPS+NBR	
88	Nut	Stainless Steel	304
89	Bearing	NBR	70
91	Screw - 6"	Stainless Steel	304
91	Screw - 8"	Stainless Steel	304
92	Key - 6"	Stainless Steel	304
92	Key - 8"	Stainless Steel	304
93	O-ring - 6"	NBR	70
93	O-ring - 8"	NBR	70
94	O-ring	NBR	70
95	Spring	Stainless Steel	304
98	Spring Washer	Stainless Steel	304

*AISI 316 stainless steel pumps are available on request.

10" Stainless Steel Submersible Pumps

Stairs' SP10" submersible pumps are designed for heavy duty and high volume pumping applications. Highly efficient hydraulic impeller and diffuser designs reduce energy requirements and provide long and dependable service life, even in difficult environments.

Capacity (m³/h) min 16 max 280
 Total Head: Max. 502m

Applications

- ◆ Municipal water supply and distribution
- ◆ Municipal water treatment
- ◆ Industrial-for cooling, cleaning and production
- ◆ Agriculture-for irrigation, etc.
- ◆ Pressure boosting in high rise buildings, etc.
- ◆ Dewatering in mines
- ◆ Fountains, etc.

Pumped Liquids

- ◆ Clean, non corrosive and non-abrasive liquids.

Operating Conditions

- ◆ Max. ambient temperature (Liquid): 30°C
- ◆ Sand content: Max. 50 g/m³

Features

- ◆ High pump efficiency means lower energy consumption and thus lower operating costs
- ◆ Designed and built to operate under difficult conditions
- ◆ High quality materials and high quality workmanship assures high quality pumps
- ◆ All metal parts are made of 304 stainless steel, except for the shafts, which are made of 431 stainless steel
- ◆ 431 stainless steel pump shafts assure strength with resistance to mechanical wear and corrosion
- ◆ Heavy duty stainless steel discharge head with built-in check valve for long life and ease of installation
- ◆ A high strength stainless steel coupling facilitates a proper pump/motor alignment
- ◆ Mounting specifications are according to NEMA standards



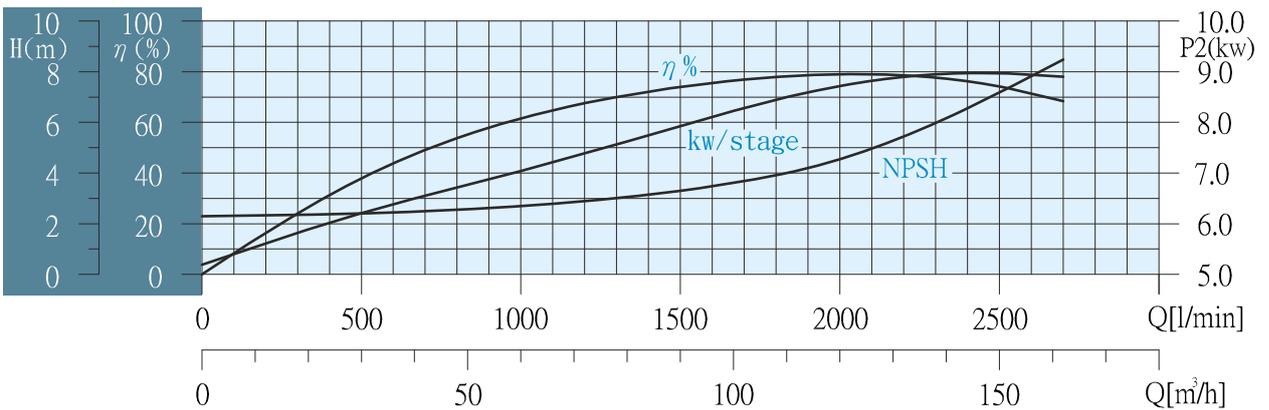
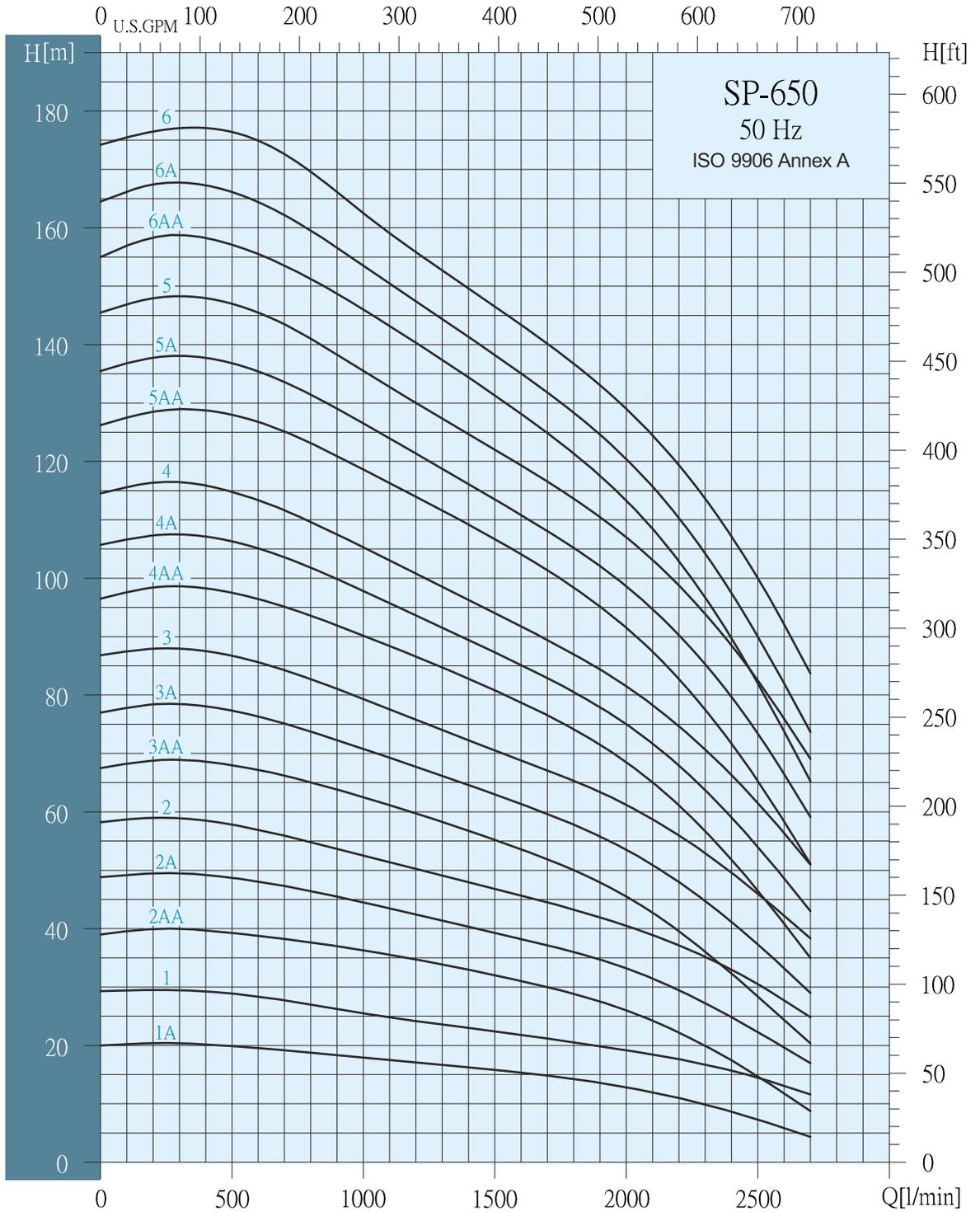
Stairs SP Series

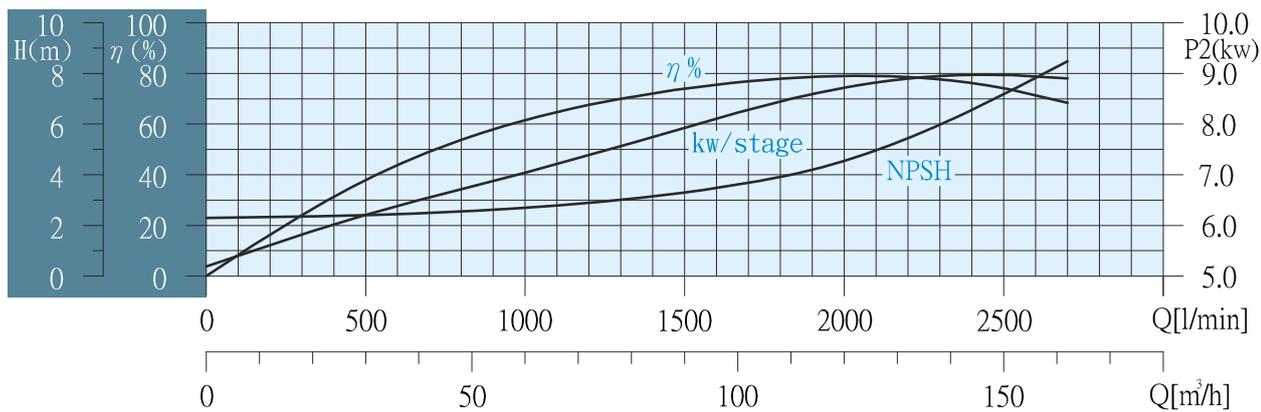
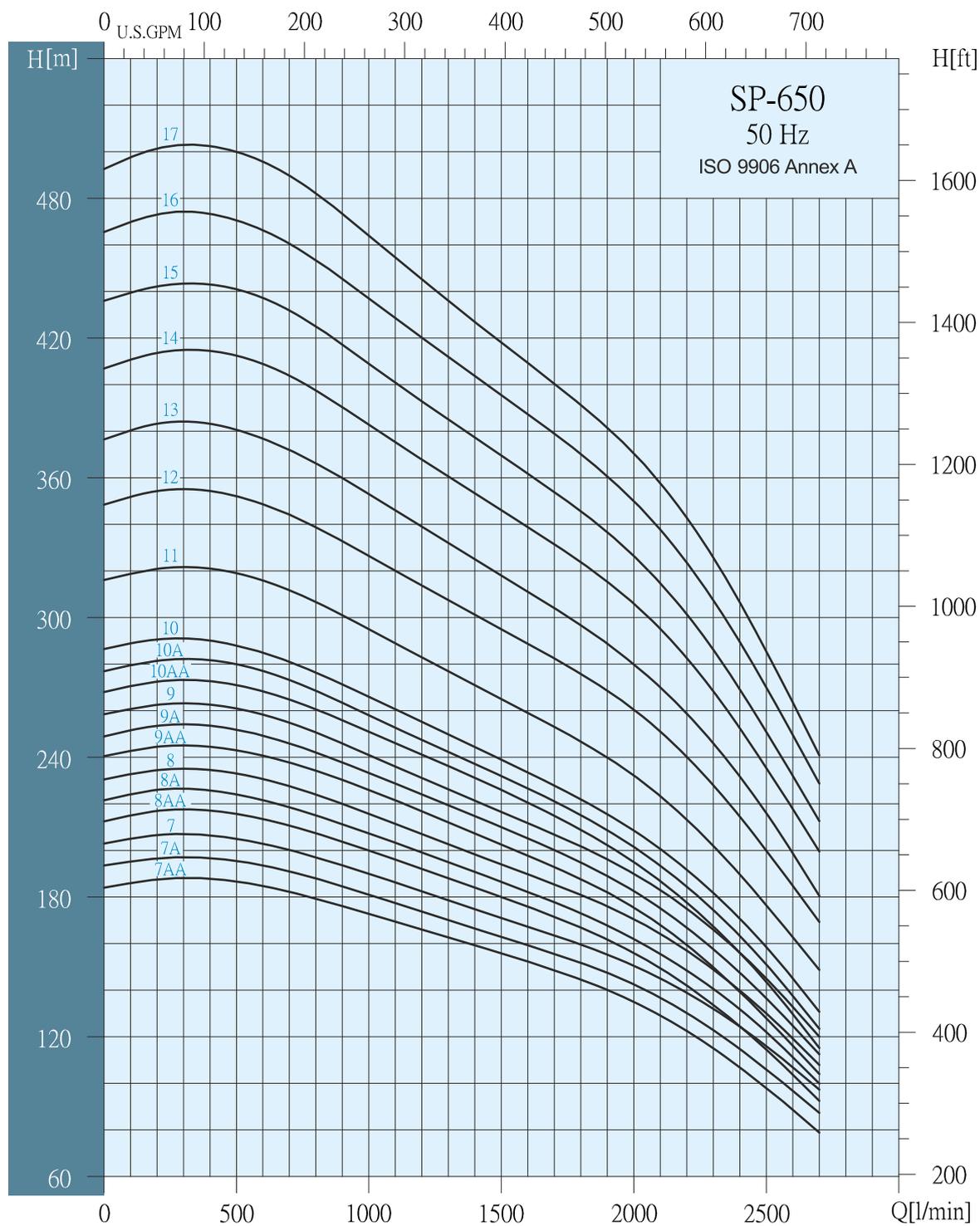


STAIRS PUMPS

SP10"

SP650 Performance Curves





Stairs SP Series



STAIRS PUMPS

SP10"

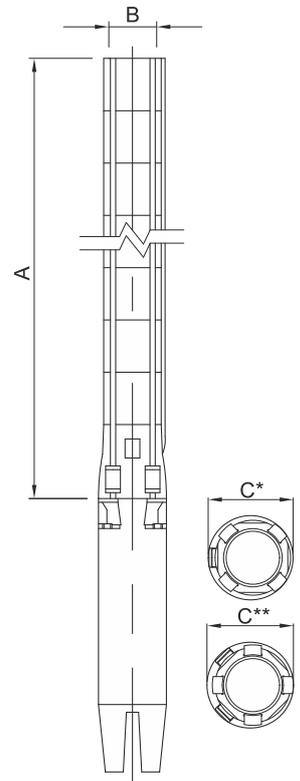
SP650

Selection Chart

Pump Type	Motor		Max.current		m ³ /h l/min	Q capacity 2900 rpm											
	P2		Amp			30	42	54	66	78	90	102	114	126	138	150	162
	KW	HP	220V	380V		500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700
SP 650-1-A	7.5	10	28.5	16.5	HEAD IN METERS	20	19	18	18	17	16	15	14	12	10	7	4
SP 650-1	11	15	41.8	24.2		29	28	26	25	24	22	22	20	18	17	15	12
SP 650-2-AA	13	17.5	50	29		39	38	37	36	34	32	30	28	24	20	15	9
SP 650-2-A	18.5	25	69	40		49	48	46	44	41	39	38	35	32	28	22	17
SP 650-2	22	30	81	47		58	56	54	52	49	47	44	42	39	35	31	25
SP 650-3-AA	22	30	81	47		68	66	64	61	58	55	52	48	43	36	29	20
SP 650-3-A	26	35	96	56		77	75	73	69	66	63	60	56	51	45	37	29
SP 650-3	30	40	111	64		87	89	81	78	74	71	68	63	58	53	46	39
SP 650-4-AA	37	50	138	80		98	95	92	88	85	81	77	72	65	67	47	35
SP 650-4-A	37	50	138	80		106	104	100	96	92	87	83	78	72	64	54	43
SP 650-4	37	50	138	80		115	112	108	103	98	94	89	84	78	71	62	51
SP 650-5-AA	45	60	154	89		128	125	121	116	112	107	101	95	87	78	65	51
SP 650-5-A	45	60	154	89		137	133	129	124	119	114	108	102	95	85	73	59
SP 650-5	55	75	192	111		147	144	138	133	128	122	117	111	103	94	83	69
SP 650-6-AA	55	75	192	111		157	154	149	143	138	131	125	118	108	97	82	65
SP 650-6-A	55	75	192	111		166	162	156	151	144	138	132	125	116	104	90	74
SP 650-6	63	85	240	139		176	173	166	159	153	147	140	133	124	114	100	84
SP 650-7-AA	63	85	240	139		187	183	176	170	163	156	148	140	129	115	98	79
SP 650-7-A	63	85	240	139		196	191	185	178	170	163	155	148	137	123	106	83
SP 650-7	75	100	256	148		205	200	194	186	178	171	164	155	145	132	116	98
SP 650-8-AA	75	100	256	148		216	211	204	196	188	180	172	162	149	134	115	93
SP 650-8-A	75	100	256	148		224	218	212	204	195	187	178	168	156	141	122	100
SP 650-8	75	100	256	148		233	227	220	212	203	194	186	176	165	149	130	108
SP 650-9-AA	93	125	335	194		243	238	230	221	212	203	193	182	168	150	128	104
SP 650-9-A	93	125	335	194		252	245	237	228	219	210	200	189	175	158	137	113
SP 650-9	93	125	335	194		261	255	246	236	226	217	207	196	183	166	145	120
SP 650-10-AA	93	125	335	194		271	265	256	246	236	226	215	203	186	167	144	115
SP 650-10-A	93	125	335	194		280	273	264	253	243	232	221	209	193	175	151	123
SP 650-10	93	125	335	194		288	281	271	261	250	239	227	215	201	182	159	131
SP 650-11	110	150	390	226		319	312	301	289	277	265	254	240	223	202	177	149
SP 650-12	132	175				352	345	333	320	308	295	283	269	251	228	200	169
SP 650-13	132	175				381	372	360	346	332	318	304	289	270	246	216	180
SP 650-14	147	200				413	404	390	375	361	346	332	316	295	269	236	200
SP 650-15	147	200				441	431	417	401	385	370	354	336	315	286	251	213
SP 650-16	170	230			471	460	445	428	412	396	379	361	338	308	270	229	
SP 650-17	170	230			500	490	473	455	436	418	406	382	358	325	286	241	

Dimensions And Weights

Pump Type	motor Dia.	Dimensions(mm)						Net Weight(Kg)
		B6" Connection (RP,NPT)			B 6" Flange			
		A	C*	C**	A	C*	C**	
SP 650-1-A	6"	652	211	218	652	222	226	29.2
SP 650-1	6"	652	211	218	652	222	226	29.3
SP 650-2-AA	6"	807	211	218	807	222	226	35.6
SP 650-2-A	6"	807	211	218	807	222	226	35.7
SP 650-2	6"	807	211	218	807	222	226	35.8
SP 650-3-AA	6"	963	211	218	963	222	226	42.1
SP 650-3-A	6"	963	211	218	963	222	226	42.2
SP 650-3	6"	963	211	218	963	222	226	42.3
SP 650-3	8"	963	213	218	963	223	226	47.1
SP 650-4-AA	6"	1118	211	218	1118	222	226	48.6
SP 650-4-AA	8"	1118	213	218	1118	223	226	51.9
SP 650-4-A	6"	1118	211	218	1118	222	226	48.7
SP 650-4-A	8"	1118	213	218	1118	223	226	52.0
SP 650-4	6"	1118	211	218	1118	222	226	48.8
SP 650-4	8"	1118	213	218	1118	223	226	52.1
SP 650-5-AA	6"	1274	211	218	1274	222	226	55.1
SP 650-5-AA	8"	1274	213	218	1274	223	226	56.9
SP 650-5-A	6"	1274	211	218	1274	222	226	55.2
SP 650-5-A	8"	1274	213	218	1274	223	226	57.0
SP 650-5	8"	1274	213	218	1274	223	226	57.1
SP 650-6-AA	8"	1429	213	218	1429	223	226	61.9
SP 650-6-A	8"	1429	213	218	1429	223	226	62.0
SP 650-6	8"	1429	218	227	1429	229	232	62.1
SP 650-7-AA	8"	1585	218	227	1585	229	232	66.9
SP 650-7-A	8"	1585	218	227	1585	229	232	67.0
SP 650-7	8"	1585	218	227	1585	229	232	67.1
SP 650-8-AA	8"	1740	218	227				71.9
SP 650-8-A	8"	1740	218	227				72.0
SP 650-8	8"	1740	218	227				72.1
SP 650-9-AA	8"	1896	218	227				76.9
SP 650-9-A	8"	1896	218	227				77.0
SP 650-9	8"	1896	218	227				77.1
SP 650-10-AA	8"	2051	218	227				81.9
SP 650-10-A	8"	2051	218	227				82.0
SP 650-10	8"	2051	218	227				82.1
SP 650-11	8"	2207	218	227				87.1
SP 650-12	10"	2492	227	247				109.5
SP 650-13	10"	2648	227	247				116.0
SP 650-14	10"	2803	227	247				122.5
SP 650-15	10"	2959	227	247				129.0
SP 650-16	10"	3114	227	247				135.5
SP 650-17	10"	3270	227	247				142.0

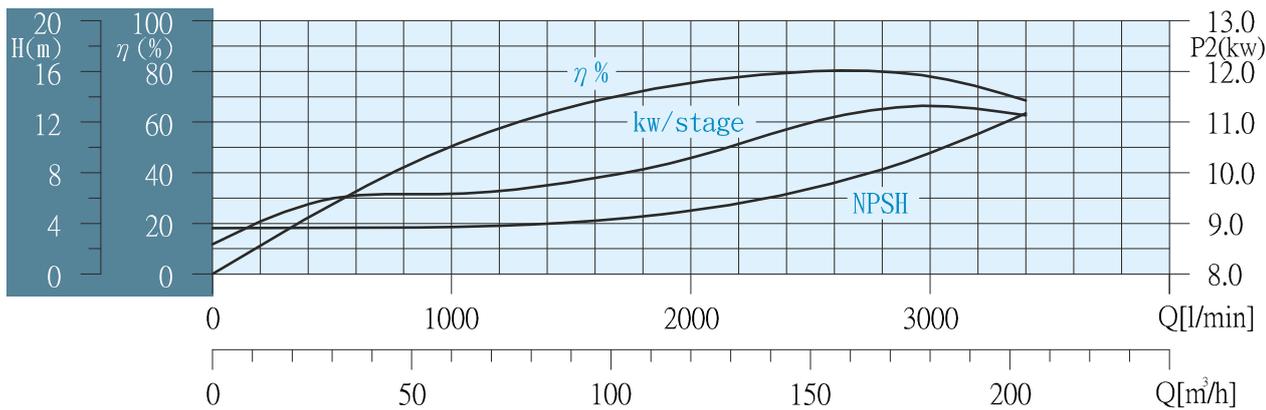
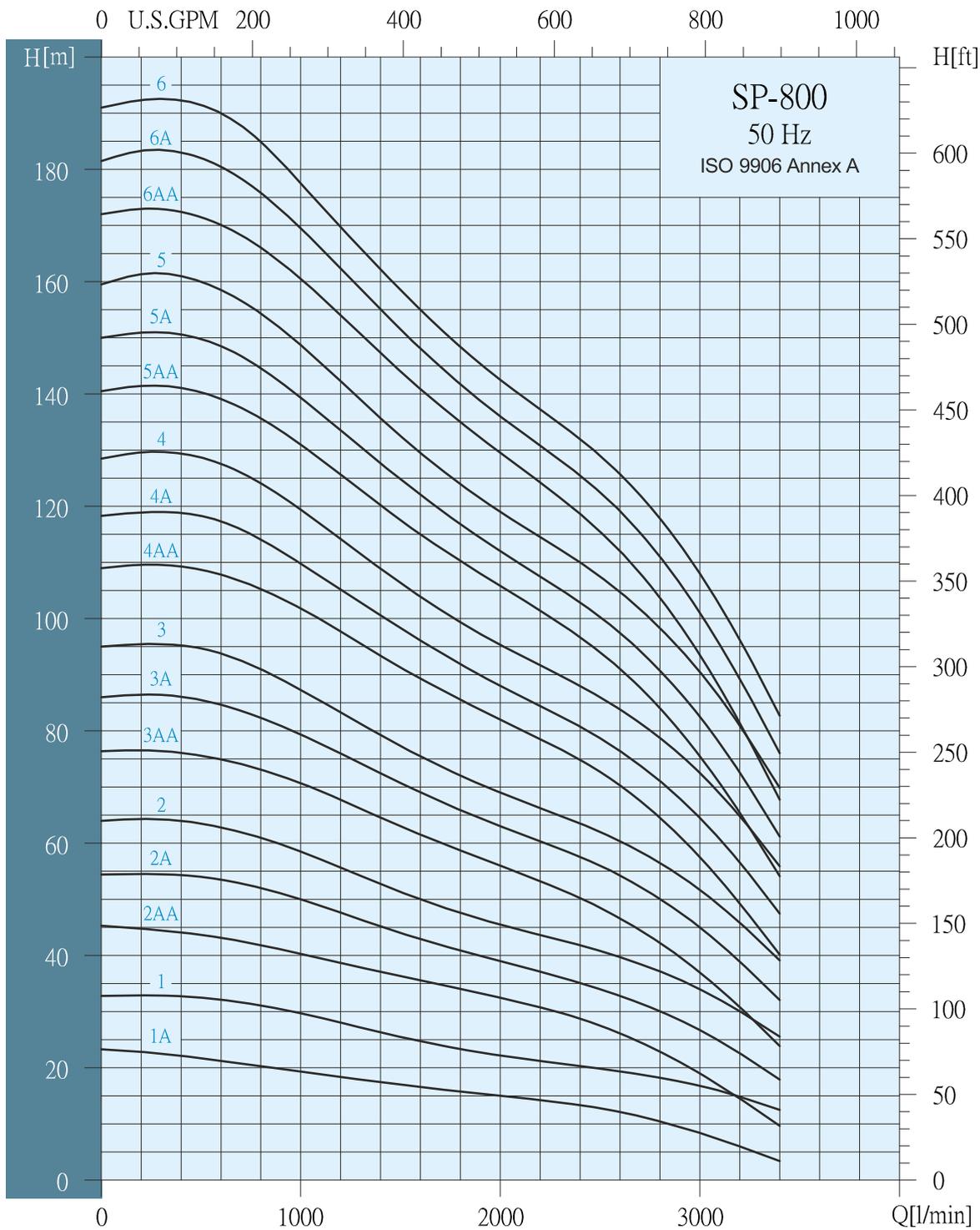


Stairs SP Series



SP10"

SP800 Performance Curves



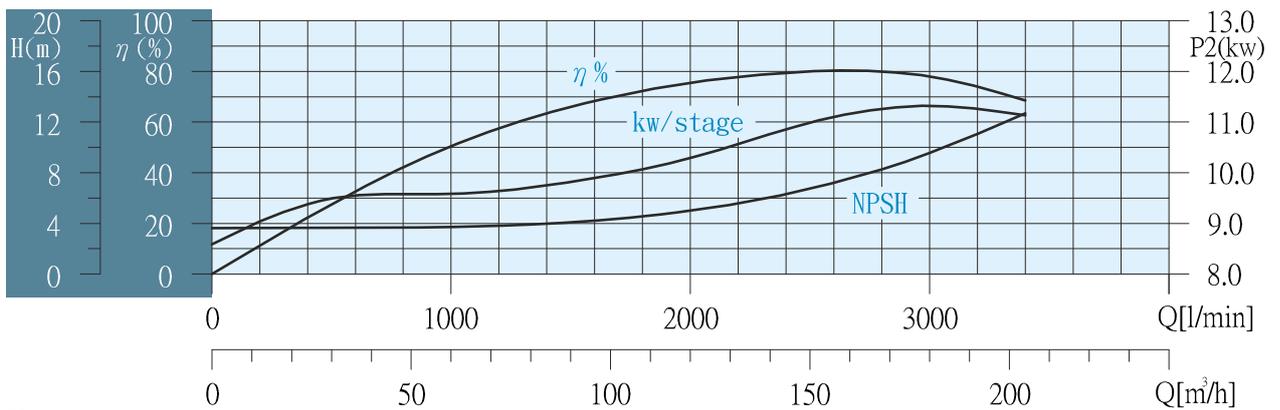
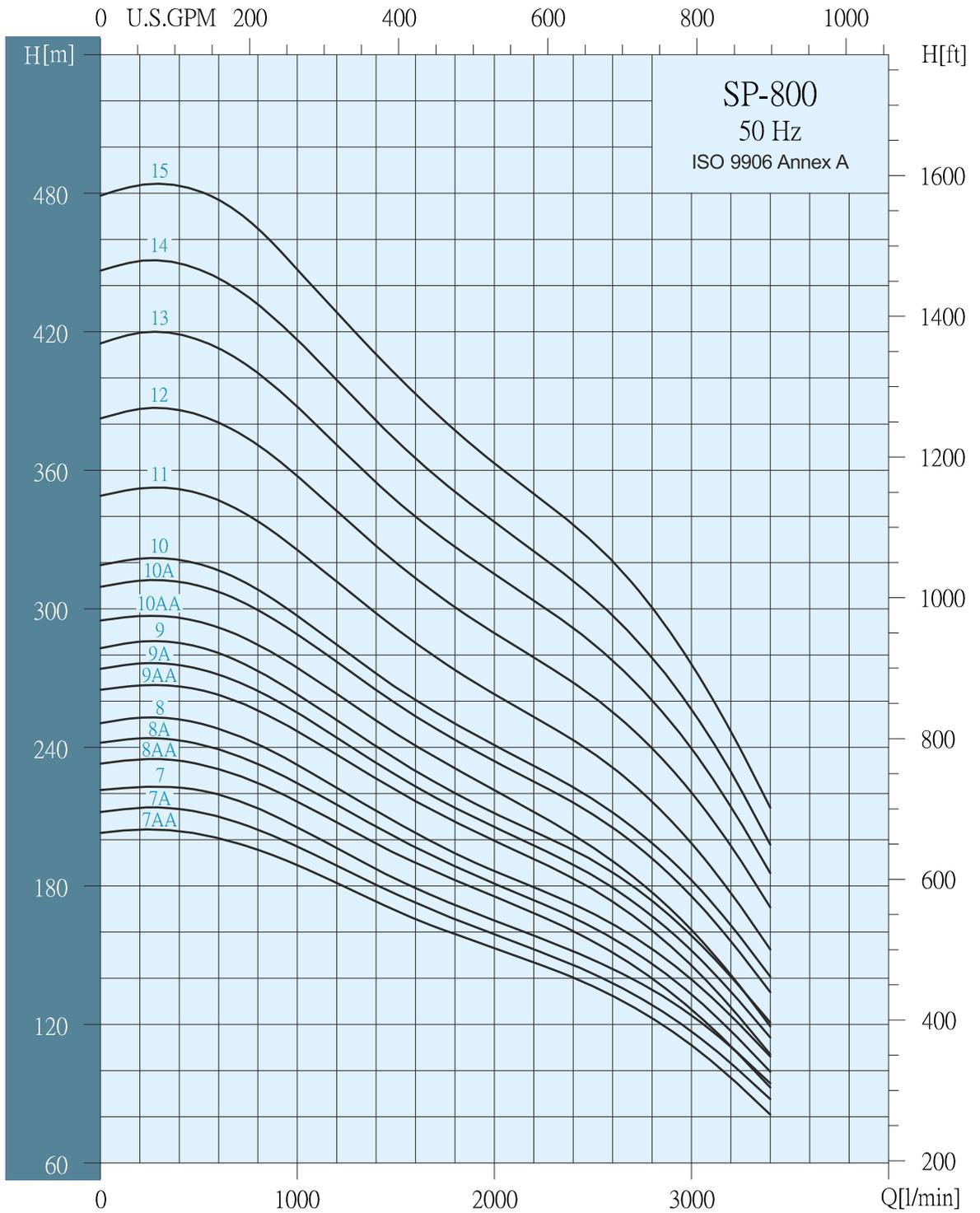
Stairs SP Series



STAIRS PUMPS

SP10"

SP800 Performance Curves



SP10"

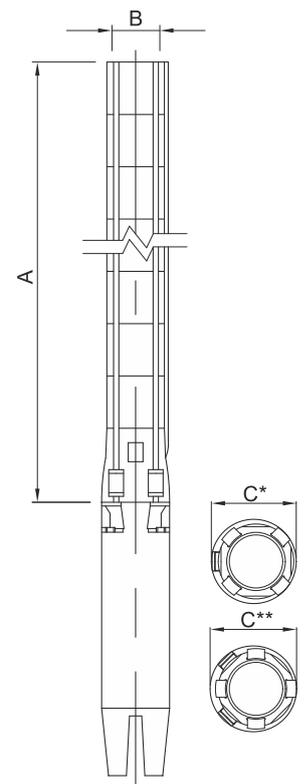
SP800

Selection Chart

Pump Type	Motor		Max.current		m³/h l/min	Q capacity 2900 rpm									
	P2		Amp			36	54	72	90	108	126	144	162	180	198
	KW	HP	220V	380V		600	900	1200	1500	1800	2100	2400	2700	3000	3300
SP 800-1-A	9.3	12.5	36	20.9	HEAD IN METERS	21	20	18	17	16	15	13	12	8	5
SP 800-1	13	17.5	50	29		32	31	28	25	24	22	20	19	17	14
SP 800-2-AA	18.5	25	69	40		43	41	39	36	34	32	29	25	19	12
SP 800-2-A	22	30	81	47		53	51	48	44	41	38	35	32	27	20
SP 800-2	26	35	96	56		63	60	56	51	48	45	42	38	34	28
SP 800-3-AA	30	40	111	64		75	72	68	63	59	55	50	45	37	28
SP 800-3-A	37	50	138	80		85	81	76	71	66	62	58	52	45	36
SP 800-3	37	50	138	80		94	89	83	78	72	68	64	59	52	43
SP 800-4-AA	45	60	154	89		108	104	98	91	85	80	75	68	57	45
SP 800-4-A	45	60	154	89		117	112	105	98	92	86	81	74	65	52
SP 800-4	55	75	192	111		128	122	114	106	99	94	88	81	73	61
SP 800-5-AA	55	75	192	111		139	134	126	118	110	104	97	88	75	60
SP 800-5-A	55	75	192	111		148	142	134	125	117	110	103	94	82	67
SP 800-5	63	85	240	139		158	152	142	132	124	117	110	102	90	76
SP 800-6-AA	63	85	240	139		170	163	154	144	135	127	119	108	93	75
SP 800-6-A	75	100	256	148		180	173	162	152	142	133	125	115	101	83
SP 800-6	75	100	256	148		190	182	170	158	148	140	132	122	108	90
SP 800-7-AA	75	100	256	148		200	193	181	169	159	150	140	128	111	89
SP 800-7-A	93	125	335	194		210	201	188	177	166	156	146	134	117	96
SP 800-7	93	125	335	194		220	210	196	183	172	162	152	140	124	102
SP 800-8-AA	93	125	335	194		230	220	208	194	183	172	160	146	126	102
SP 800-8-A	93	125	335	194		239	229	215	201	189	177	167	152	133	108
SP 800-8	93	125	335	194		248	237	222	208	194	183	172	158	140	115
SP 800-9-AA	110	150	390	226		263	252	237	222	208	196	183	167	146	117
SP 800-9-A	110	150	390	226		272	260	244	228	214	202	189	174	152	124
SP 800-9	110	150	390	226		281	268	252	235	220	207	196	180	159	131
SP 800-10-AA	110	150	390	226		292	280	263	246	231	217	202	184	161	131
SP 800-10-A	132	175				307	295	277	259	244	230	216	199	176	145
SP 800-10	132	175				317	303	284	266	250	236	223	205	182	152
SP 800-11	132	175				347	332	312	292	274	258	243	224	199	165
SP 800-12	147	200			380	365	342	320	301	285	268	248	221	184	
SP 800-13	170	230			413	395	371	347	327	309	292	269	240	200	
SP 800-14	170	230			443	425	399	373	350	332	312	288	257	213	
SP 800-15	190	255			477	456	428	402	377	356	336	311	276	231	

Dimensions And Weights

Pump Type	motor Dia.	Dimensions(mm)						Net Weight(Kg)
		B6" Connection (RP,NPT)			B 6" Flange			
		A	C*	C**	A	C*	C**	
SP 800-1-A	6"	652	211	218	652	222	226	30.4
SP 800-1	6"	652	211	218	652	222	226	30.4
SP 800-2-AA	6"	807	211	218	807	222	226	36.7
SP 800-2-A	6"	807	211	218	807	222	226	36.8
SP 800-2	6"	807	211	218	807	222	226	36.8
SP 800-3-AA	6"	963	211	218	963	222	226	43.2
SP 800-3-A	6"	963	211	218	963	222	226	43.2
SP 800-3	6"	963	211	218	963	222	226	43.2
SP 800-4-AA	8"	1118	218	227	1118	229	232	50.9
SP 800-4-A	8"	1118	218	227	1118	229	232	51.0
SP 800-4	8"	1118	218	227	1118	229	232	51.0
SP 800-5-AA	8"	1274	218	227	1274	229	232	57.3
SP 800-5-A	8"	1274	218	227	1274	229	232	57.4
SP 800-5	8"	1274	218	227	1274	229	232	57.4
SP 800-6-AA	8"	1429	218	227	1429	229	232	63.7
SP 800-6-A	8"	1429	218	227	1429	229	232	63.8
SP 800-6	8"	1429	218	227	1429	229	232	63.8
SP 800-7-AA	8"	1585	218	227				70.2
SP 800-7-A	8"	1585	218	227				70.2
SP 800-7	8"	1585	218	227				70.2
SP 800-8-AA	8"	1740	218	227				76.6
SP 800-8-A	8"	1740	218	227				76.7
SP 800-8	8"	1740	218	227				76.7
SP 800-9-AA	8"	1896	218	227				83.0
SP 800-9-A	8"	1896	218	227				83.1
SP 800-9	8"	1896	218	227				83.1
SP 800-10-AA	8"	2051	218	227				89.4
SP 800-10-A	10"	2181	227	247				102.6
SP 800-10	10"	2181	227	247				102.6
SP 800-11	10"	2337	227	247				109.0
SP 800-12	10"	2492	227	247				115.5
SP 800-13	10"	2648	227	247				121.9
SP 800-14	10"	2803	227	247				128.3
SP 800-15	12"							



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

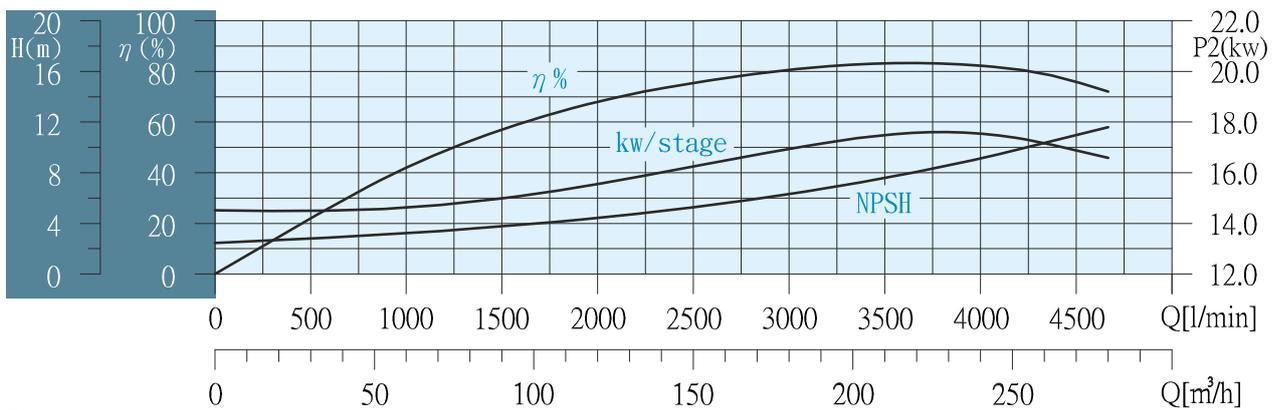
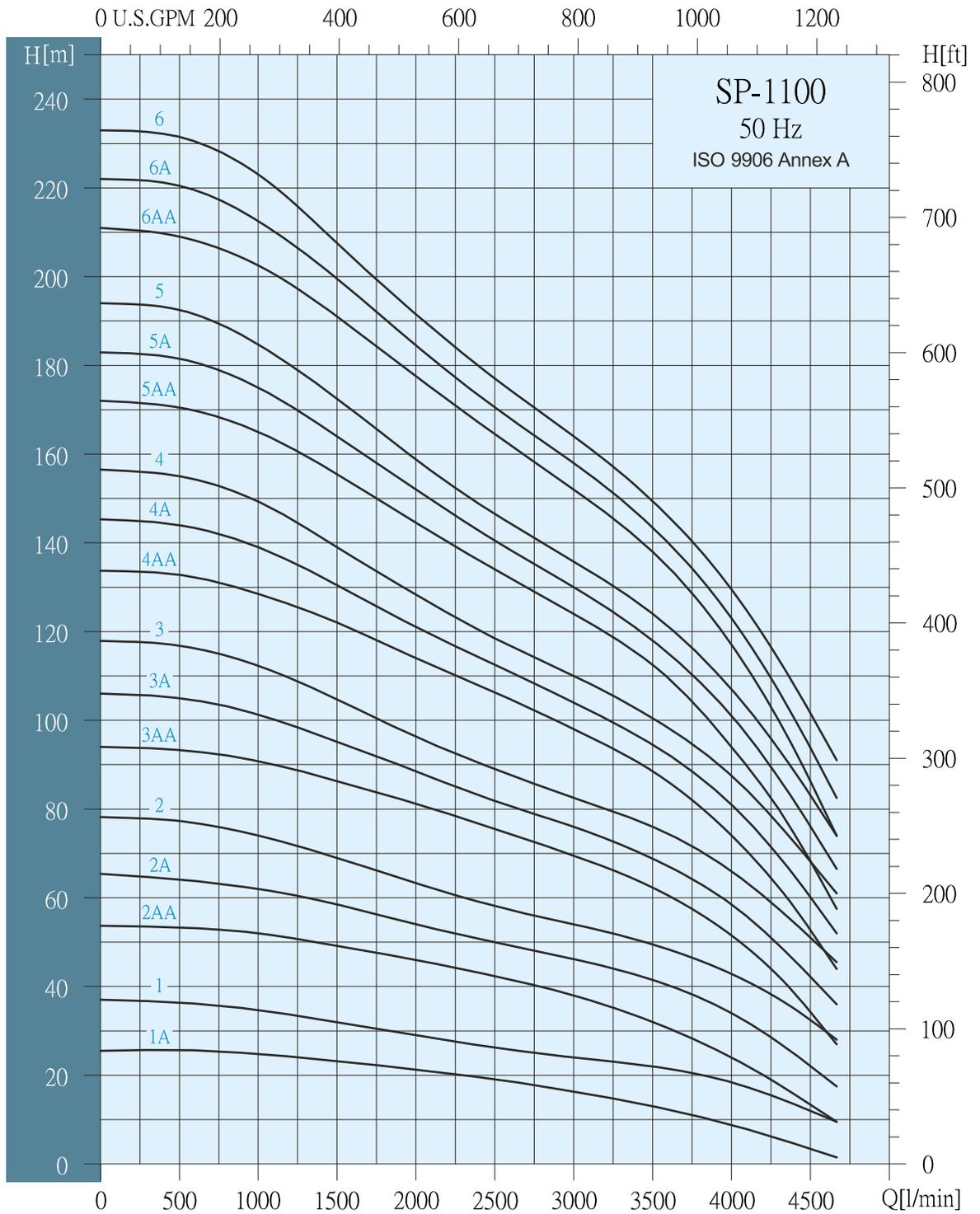
Stairs SP Series

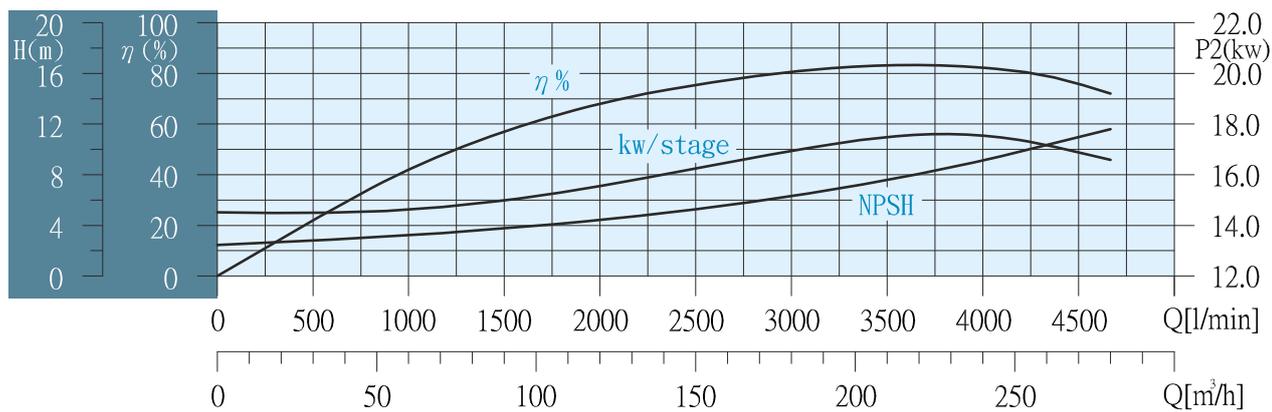
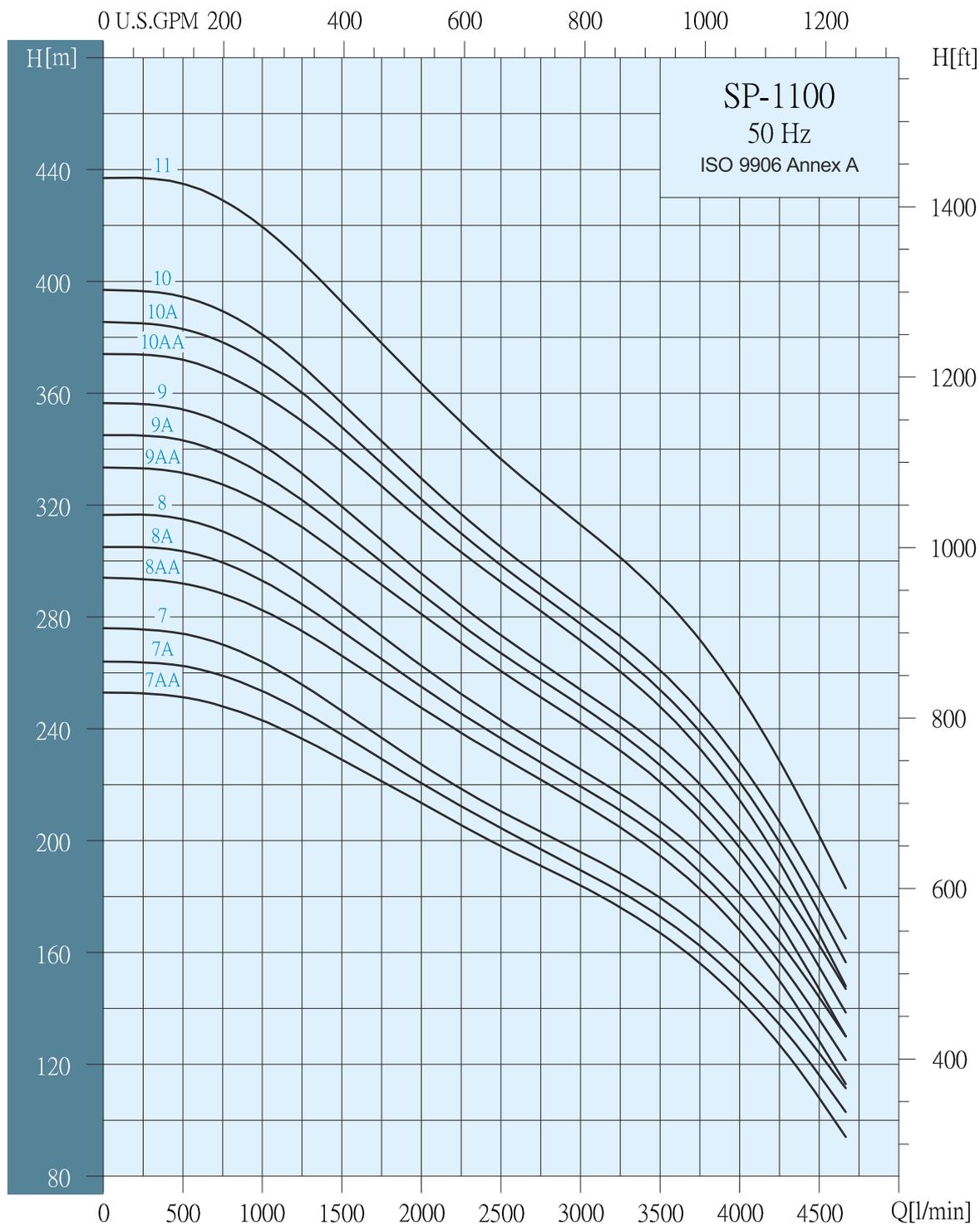


STAIRS PUMPS

SP10"

SP1100







SP10"

SP1100

Selection Chart

Pump Type	Motor		Max.current		m ³ /h l/min	Q capacity 2900 rpm										
	P2		Amp			30	45	60	75	90	120	150	180	210	240	270
	KW	HP	220V	380V		500	750	1000	1250	1500	2000	2500	3000	3500	4000	4500
SP 1100-1-A	15	20	55	32	HEAD IN METERS	26	25.5	25	24	23	21	19	16	13	9	4
SP 1100-1	18.5	25	69	40		36.5	36	35	33	32	29	26	24	22	18	12
SP 1100-2-AA	30	40	111	64		53	52.5	52	50	49	46	42	38	32	24	14
SP 1100-2-A	37	50	138	80		64	63	62	60	58	54	50	46	41	34	22
SP 1100-2	45	60	154	89		77	76	74	71	69	63	58	54	49	42	32
SP 1100-3-AA	55	75	192	111		93	92	90	88	86	81	75	69	62	51	34
SP 1100-3-A	55	75	192	111		105	103	101	98	95	88	82	76	69	58	42
SP 1100-3	63	85	240	139		117	115	112	108	104	96	89	82	76	66	51
SP 1100-4-AA	75	100	256	148		133	131	128	125	122	114	106	98	88	74	53
SP 1100-4-A	75	100	256	148		144	142	139	135	130	121	112	104	94	81	60
SP 1100-4	75	100	256	148		155	152	149	144	139	128	118	110	100	87	68
SP 1100-5-AA	93	125	335	194		170	168	165	160	155	144	134	124	112	94	68
SP 1100-5-A	93	125	335	194		181	179	175	170	164	152	140	130	118	101	76
SP 1100-5	93	125	335	194		192	189	184	179	172	159	146	135	124	107	83
SP 1100-6-AA	110	150	390	226		209	206	202	197	191	178	164	152	138	117	86
SP 1100-6-A	110	150	390	226		220	217	212	206	199	184	170	158	143	123	93
SP 1100-6	110	150	390	226		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	
SP 1100-10-AA	190	255			372	367	359	350	339	314	292	271	248	214	166	
SP 1100-10-A	190	255			383	378	370	360	347	322	296	277	254	221	174	
SP 1100-10	190	255			394	389	381	369	356	329	305	283	261	228	182	
SP 1100-11	220				435	429	419	407	392	363	336	313	288	252	201	

Dimensions And Weights

Pump Type	motor Dia.	Dimensions(mm)			Net Weight(Kg)
		B6" Connection (RP,NPT)			
		A	C*	C**	
SP 1100-1-A	6"	771.7	237	241	46.1
SP 1100-1	6"	771.7	237	241	46.1
SP 1100-2-AA	6"	947.7	237	241	56.1
SP 1100-2-A	6"	947.7	237	241	56.1
SP 1100-2	8"	947.7	237	241	55.8
SP 1100-3-AA	8"	1123.7	237	241	65.6
SP 1100-3-A	8"	1123.7	237	241	65.6
SP 1100-3	8"	1123.7	237	241	65.6
SP 1100-4-AA	8"	1299.7	237	241	75.4
SP 1100-4-A	8"	1299.7	237	241	75.4
SP 1100-4	8"	1299.7	237	241	75.4
SP 1100-5-AA	8"	1475.7	237	241	85.8
SP 1100-5-A	8"	1475.7	237	241	85.8
SP 1100-5	8"	1475.7	237	241	85.8
SP 1100-6-AA	8"	1651.7	237	241	96.2
SP 1100-6-A	8"	1651.7	237	241	96.2
SP 1100-6	8"	1651.7	237	241	96.2
SP 1100-7-AA	10"	1827.7	262	274	111.2
SP 1100-7-A	10"	1827.7	262	274	111.2
SP 1100-7	10"	1827.7	262	274	111.2
SP 1100-8-AA	10"	2003.7	262	274	121.5
SP 1100-8-A	10"	2003.7	262	274	121.5
SP 1100-8	10"	2003.7	262	274	121.5
SP 1100-9-AA	10"	2179.7	262	274	131.7
SP 1100-9-A	10"	2179.7	262	274	131.7
SP 1100-9	10"	2179.7	262	274	131.7
SP 1100-10-AA	12"				
SP 1100-10-A	12"				
SP 1100-10	12"				
SP 1100-11	12"				

