

General Data

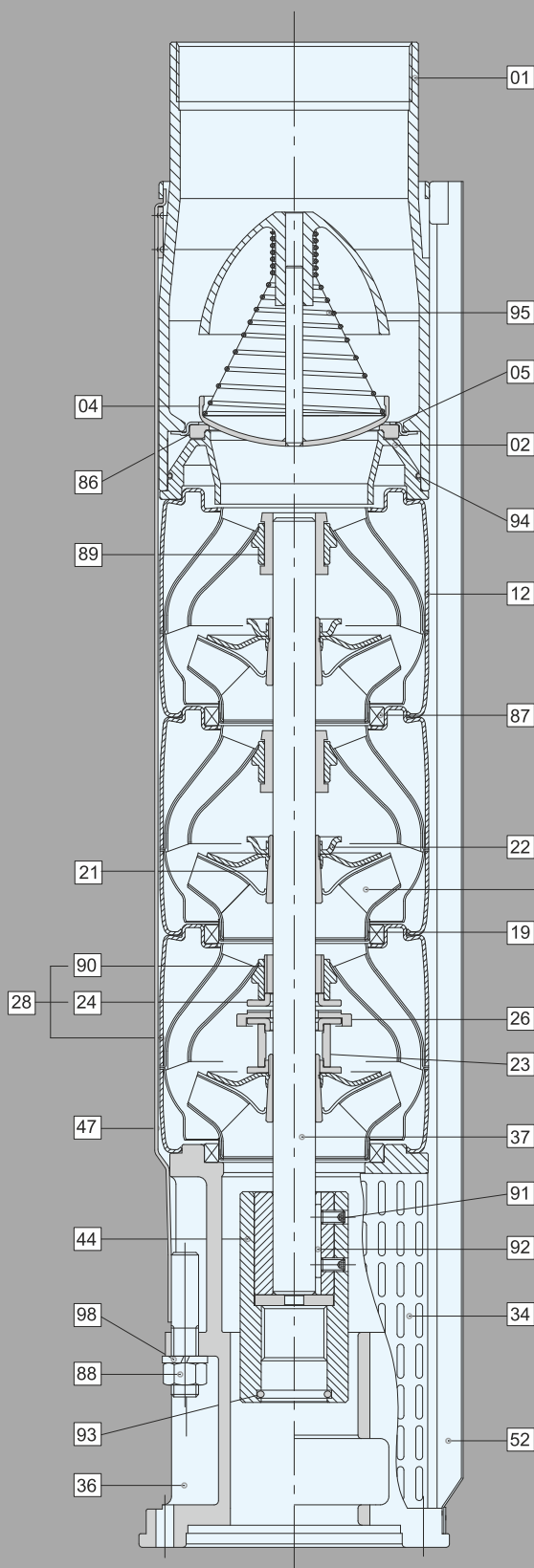


Example: SP500

Material Specification-8" 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
12	Diffuser	Stainless Steel	304
18	Impeller	Stainless Steel	304
19	Ring Of Impeller	Stainless Steel	304
21	Split Cone	Stainless Steel	304
22	Split Cone Nut	Stainless Steel	304
23	Nut For Stop Ring	Stainless Steel	304
24	Stop Ring	Stainless Steel	304
26	Spacing Washer For Stop Ring	Carbon/ Graphite/PTFE	
28	Bottom Diffuser	Stainless Steel	304
34	Strainer	Stainless Steel	304
36	Suction Interconnector	Stainless Steel	304
37	Pump Shaft	Stainless Steel	431
44	Coupling	Stainless Steel	304
47	Strap	Stainless Steel	304
52	Cable Guard	Stainless Steel	304
86	Valve Seat	NBR	
87	Neck Ring	SUS304+NBR	
88	Nut	Stainless Steel	304
89	Bearing	NBR	
90	Bearing	NBR+SUS304	
91	Screw	Stainless Steel	304
92	Key	Stainless Steel	304
93	O-ring	NBR	
94	O-ring	NBR	
95	Spring	Stainless Steel	304
98	Spring Washer	Stainless Steel	304

*AISI 316 stainless steel pumps are available on request.



8" Stainless Steel Submersible Pumps

Stairs' SP 8" 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 12 max 120

Total Head: Max. 412 m

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

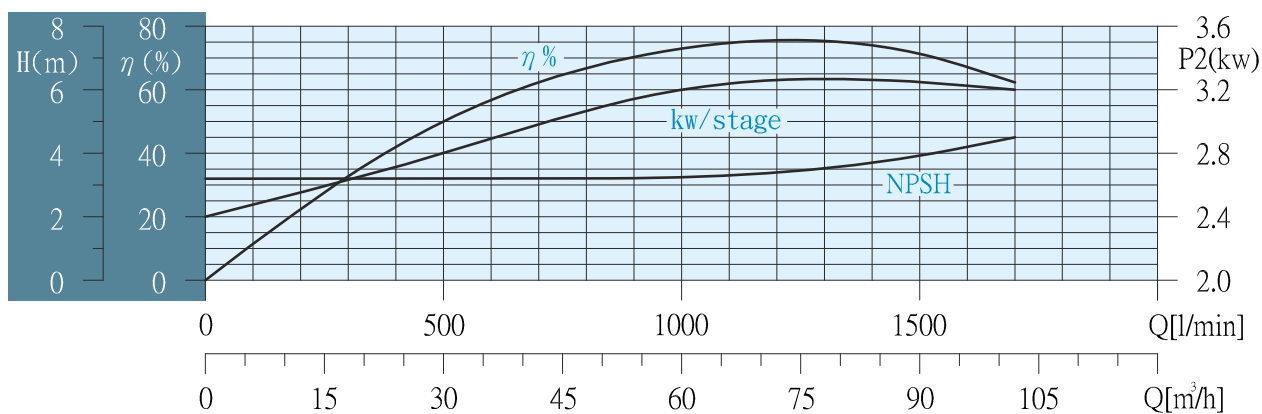
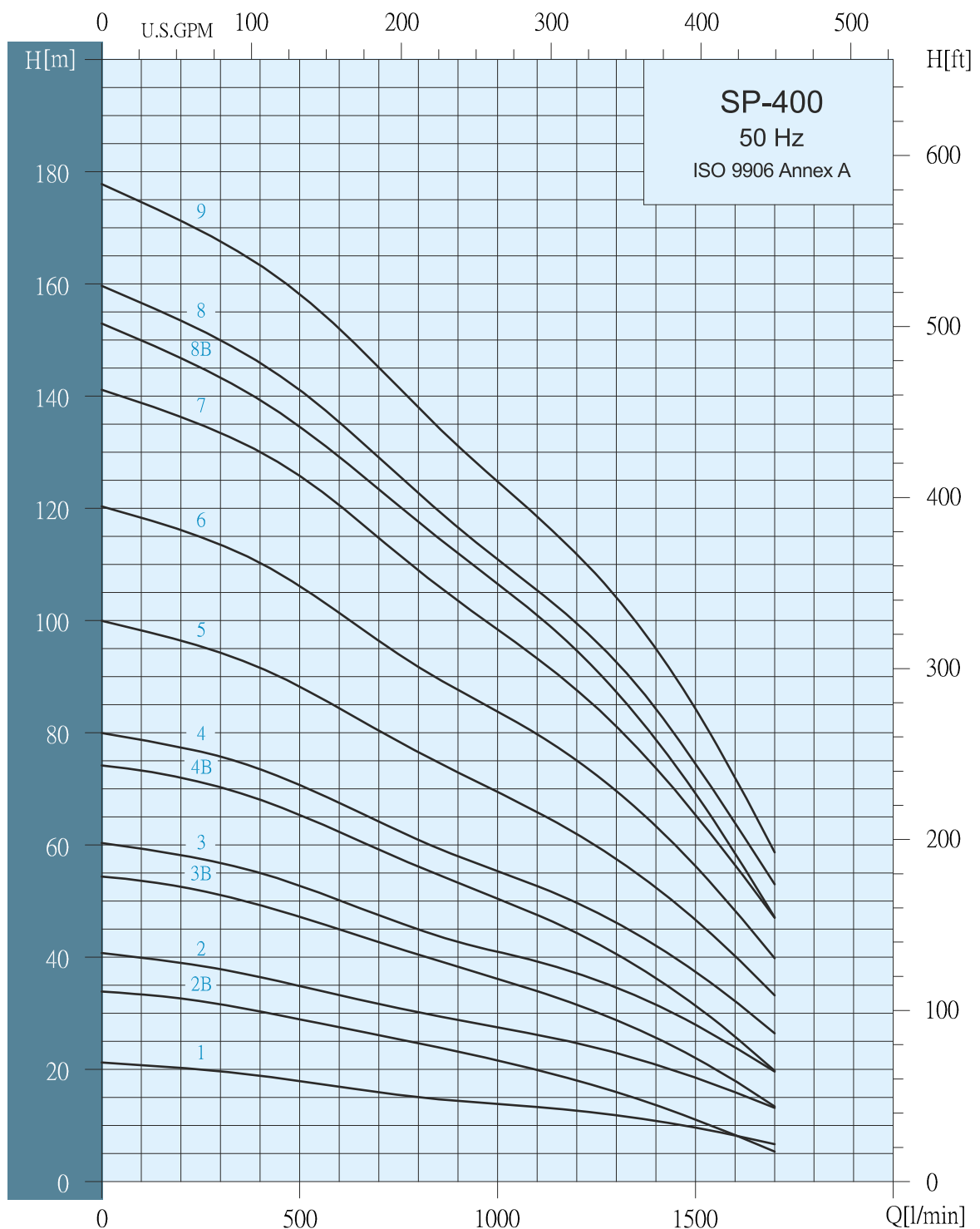


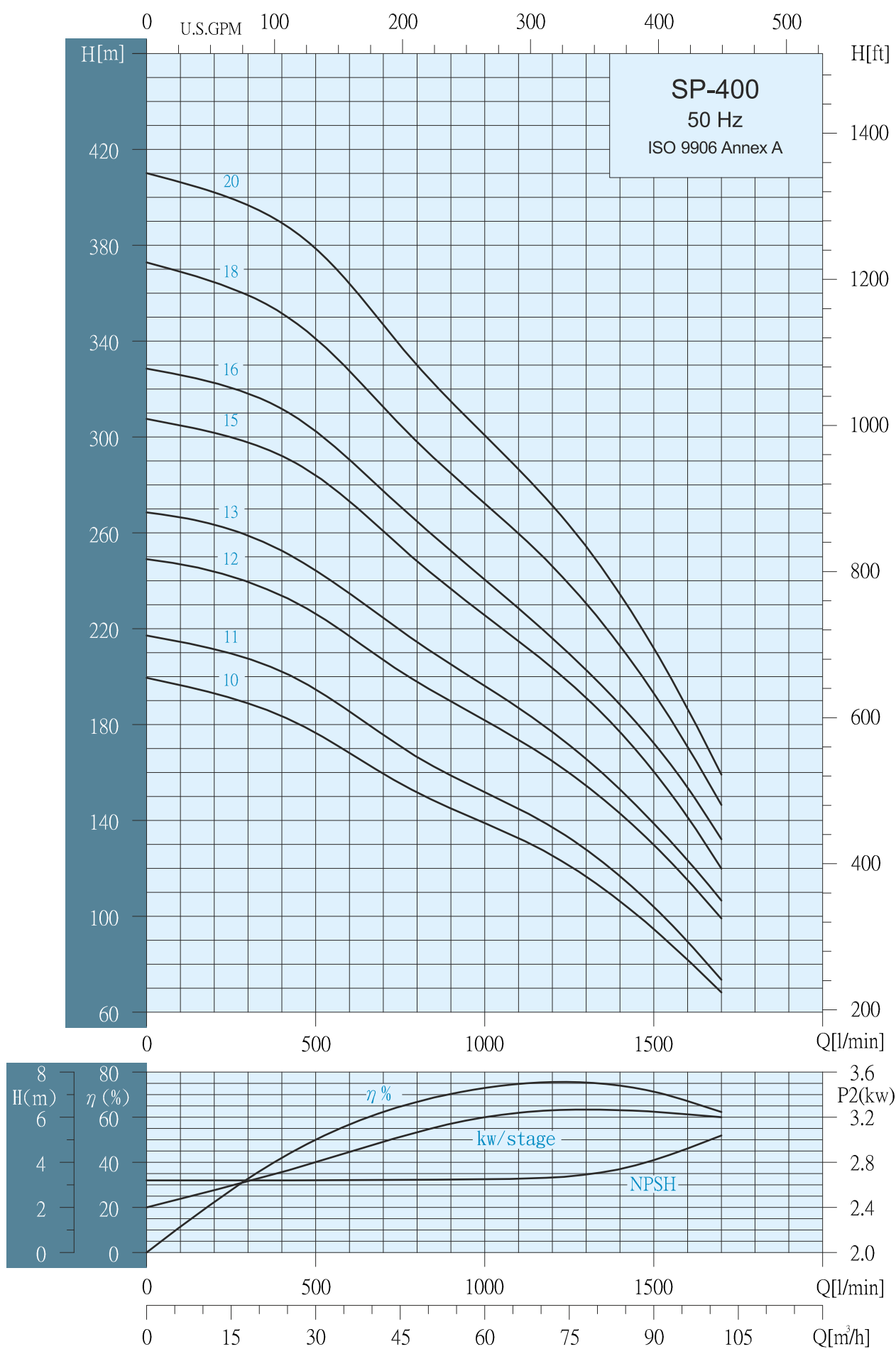
Stairs SP Series



SP 8"

SP400 Performance Curves





SP 8"

SP400 Performance Curves

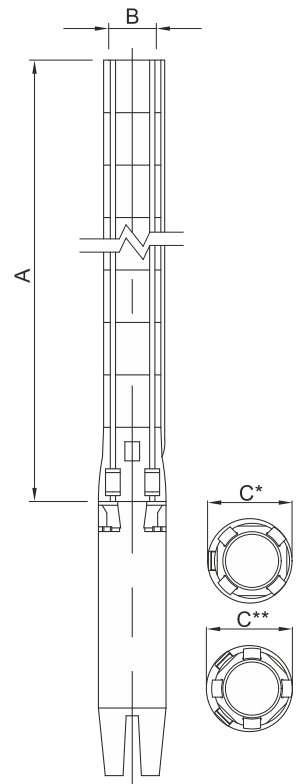
Selection Chart

Pump Type	Motor		Max.current		Q capacity 2900 rpm												
	P2		Amp		m³/h	12	18	24	30	36	42	48	54	66	78	90	102
	KW	HP	220V	380V	l/min	200	300	400	500	600	700	800	900	1100	1300	1500	1700
SP 400-1	5.5	7.5	21.9	12.7	HEAD IN METERS	20	19.5	19	18	17	16	15	14	13	12	9	7
SP 400-2-B	5.5	7.5	21.9	12.7		33	32	30	28	27	26	25	23	20	16	11	6
SP 400-2	7.5	10	28.5	16.5		38	37	36	35	33	32	30	28	26	23	18	13
SP 400-3-B	9.3	12.5	36	20.9		53	51	49	47	45	43	40	38	34	28	22	13
SP 400-3	11	15	41.8	24.2		58	57	55	53	50	47	45	43	39	35	28	20
SP 400-4-B	13	17.5	50	29		72	70	68	65	62	59	56	53	47	40	31	20
SP 400-4	15	20	55	32		77	76	74	71	67	64	61	58	53	46	37	27
SP 400-5	18.5	25	69	40		96	94	92	88	84	80	76	73	66	57	46	33
SP 400-6	22	30	81	47		116	113	110	106	101	96	92	88	80	70	56	40
SP 400-7	26	35	96	56		136	133	130	126	120	115	109	104	93	81	65	47
SP 400-8-B	26	35	96	56		147	143	139	134	129	123	117	112	101	87	69	47
SP 400-8	30	40	111	64		153	150	146	141	135	129	123	117	105	93	75	53
SP 400-9	30	40	111	64		171	167	163	158	152	145	138	131	118	104	84	58
SP 400-10	37	50	138	80		193	188	183	177	168	160	152	145	132	117	94	68
SP 400-11	37	50	138	80		211	207	202	195	186	176	167	159	145	128	104	74
SP 400-12	45	60	154	89		244	240	234	227	217	207	198	190	173	154	130	99
SP 400-13	55	75	192	111		263	259	252	244	235	224	214	205	187	166	139	107
SP 400-15	55	75	192	111		302	298	292	284	273	260	248	237	215	191	160	120
SP 400-16	63	85	240	139		322	318	312	302	290	278	265	252	228	202	172	132
SP 400-18	63	85	240	139		365	359	352	341	328	312	298	285	260	230	193	147
SP 400-20	75	100	256	148	402	397	389	379	364	347	330	315	287	254	212	159	

*Higher pressure, longer stages pumps up to 22 stages are available on request.

Dimensions And Weights

Pump Type	Dimensions(mm)						Net Weight(Kg)
	B 5" Connection (RP,NPT)			B 5" Flange			
	A	C*	C**	A	C*	C**	Pump
SP 400-1	618	178	186	618	200	200	25.1
SP 400-2-B	746	178	186	746	200	200	28.7
SP 400-2	746	178	186	746	200	200	28.7
SP 400-3-B	874	178	186	874	200	200	32.3
SP 400-3	874	178	186	874	200	200	32.3
SP 400-4-B	1003	178	186	1003	200	200	35.9
SP 400-4	1003	178	186	1003	200	200	35.9
SP 400-5	1131	178	186	1131	200	200	35.9
SP 400-6	1259	178	186	1259	200	200	43.0
SP 400-7	1387	178	186	1387	200	200	46.6
SP 400-8-B	1515	178	186	1515	200	200	50.2
SP 400-8	1515	178	186	1515	200	200	50.2
SP 400-9	1644	178	186	1644	200	200	53.8
SP 400-10	1772	178	186	1772	200	200	57.4
SP 400-11	1900	178	186	1900	200	200	61.0
SP 400-12	2039	200	204	2039	209	209	66.0
SP 400-13	2168	200	204	2168	209	209	69.6
SP 400-15	2424	200	204				76.8
SP 400-16	2552	200	204				80.4
SP 400-18	2809	200	204				87.6
SP 400-20	3065	200	204				94.8



C*: Maximum diameter of pump with one motor cable

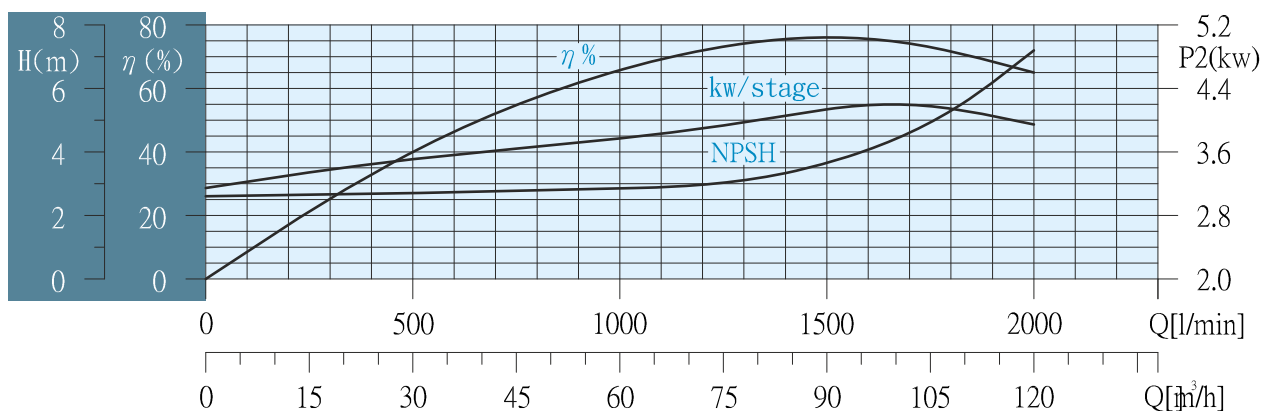
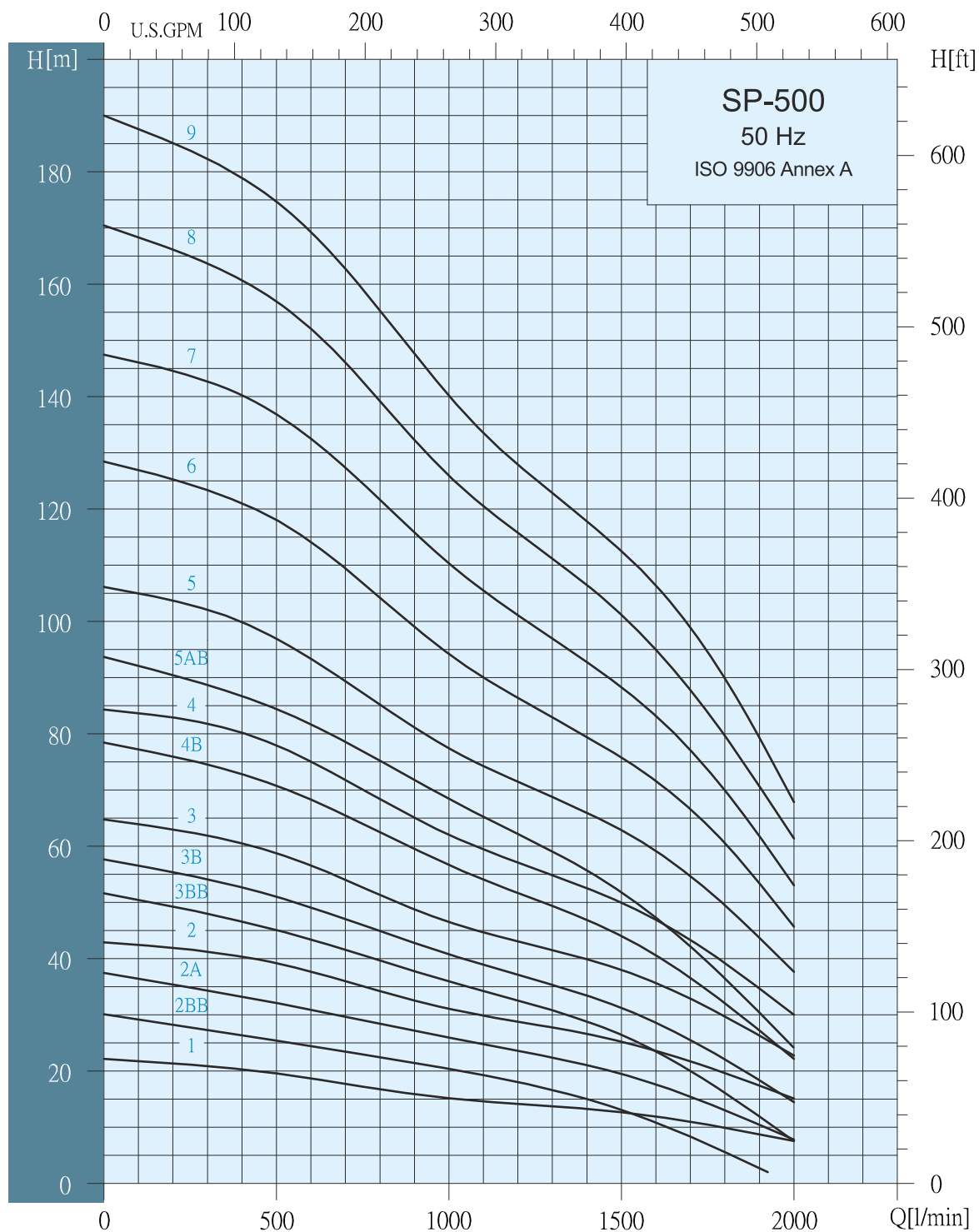
C**: Maximum diameter of pump with two motor cable

Stairs SP Series



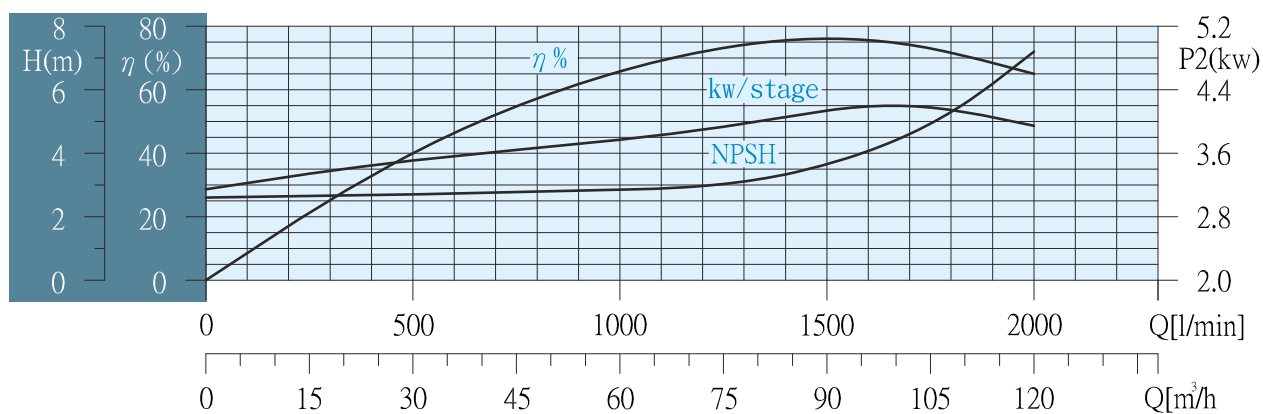
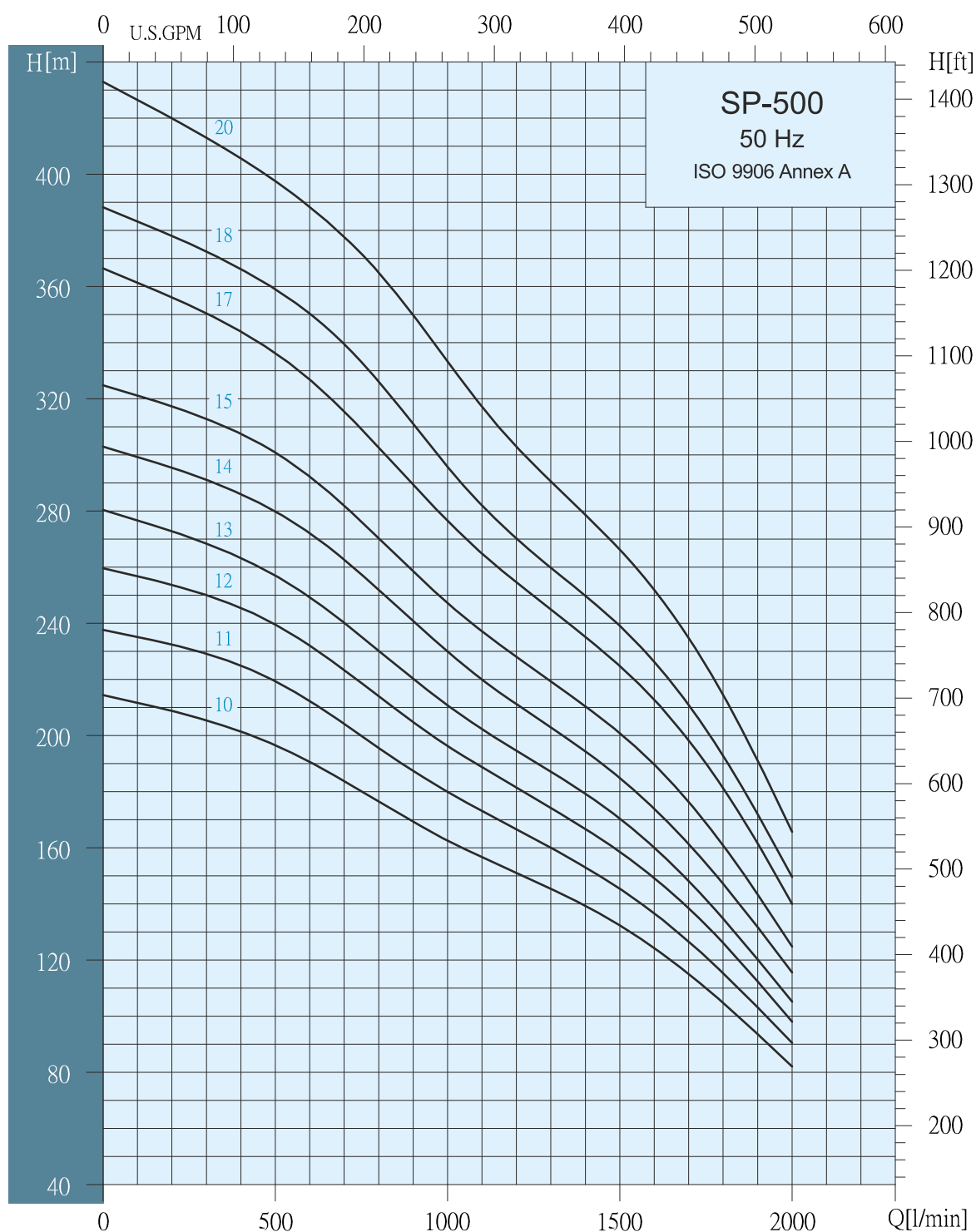
SP 8"

SP500 Performance Curves





STAIRS PUMPS



SP 8"

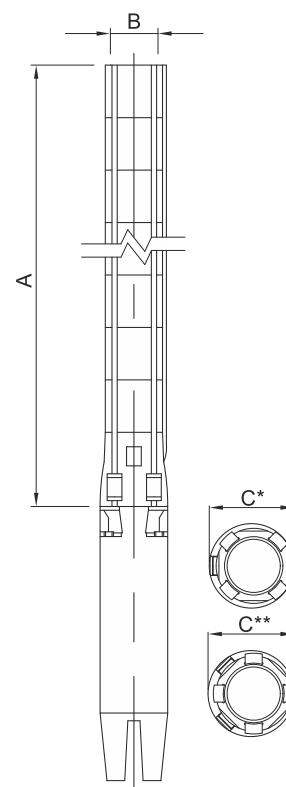
SP500

Selection Chart

Pump Type	Motor		Max.current		Q capacity 2900 rpm												
	P2		Amp		m³/h l/min	18	24	30	36	42	48	60	72	84	96	108	120
	KW	HP	220V	380V		300	400	500	600	700	800	1000	1200	1400	1600	1800	2000
SP 500-1	5.5	7.5	21.9	12.7	HEAD IN METERS	21	20	19	18	17.5	17	15	14	13	12	10	8
SP 500-2-BB	5.5	7.5	21.9	12.7		27	26	25	24	23	22	20	18	15	11	5	0
SP 500-2-A	7.5	10	28.5	16.5		34	33	32	31	30	28	26	24	21	17	13	8
SP 500-2	9.3	12.5	36	20.9		41	40	39	37	36	34	31	29	26	23	20	15
SP 500-3-BB	9.3	12.5	36	20.9		48	46	45	43	41	40	36	33	28	23	16	8
SP 500-3-B	11	15	41.8	24.2		54	53	51	49	47	45	41	37	33	28	22	15
SP 500-3	13	17.5	50	29		62	60	59	57	54	51	47	43	40	35	30	23
SP 500-4-B	15	20	55	32		74	73	71	68	65	62	56	52	47	40	32	22
SP 500-4	18.5	25	69	40		82	80	78	75	72	68	62	57	53	47	39	30
SP 500-5-AB	18.5	25	69	40		89	87	84	82	78	75	68	62	55	47	36	25
SP 500-5	22	30	81	47		102	100	97	94	90	85	77	72	66	59	50	38
SP 500-6	26	35	96	56		123	121	118	114	110	104	94	86	79	72	60	46
SP 500-7	30	40	111	64		143	140	137	132	127	121	110	101	93	83	70	53
SP 500-8	37	50	138	80		164	160	157	152	146	139	126	116	106	95	80	62
SP 500-9	37	50	138	80		182	179	175	169	163	155	140	128	118	106	90	68
SP 500-10	45	60	154	89		206	201	197	190	183	177	162	150	140	124	105	82
SP 500-11	55	75	192	111		230	225	220	212	204	196	180	167	152	137	116	90
SP 500-12	55	75	192	111		250	245	240	231	222	214	197	181	167	150	126	99
SP 500-13	55	75	192	111		268	263	258	250	240	230	210	195	180	160	135	106
SP 500-14	63	85	240	139		291	286	280	271	261	251	230	210	194	174	147	116
SP 500-15	75	100	256	148		312	308	300	292	281	270	248	228	210	190	160	126
SP 500-17	75	100	256	148		350	344	336	327	316	302	277	255	235	212	180	140
SP 500-18	93	125	335	194		372	366	360	350	340	326	296	270	250	227	192	150
SP 500-20	93	125	335	194		412	406	397	388	378	365	333	302	279	251	214	166

Dimensions And Weights

Pump Type	Dimensions(mm)						Net Weight(Kg)
	B 5" Connection (RP,NPT)			B 5" Flange			
	A	C*	C**	A	C*	C**	Pump
SP 500-1	618	178	186	618	200	200	25.1
SP 500-2-BB	746	178	186	746	200	200	28.7
SP 500-2-A	746	178	186	746	200	200	28.7
SP 500-2	746	178	186	746	200	200	28.7
SP 500-3-BB	874	178	186	874	200	200	32.3
SP 500-3-B	874	178	186	874	200	200	32.3
SP 500-3	874	178	186	874	200	200	32.3
SP 500-4-B	1003	178	186	1003	200	200	35.9
SP 500-4	1003	178	186	1003	200	200	35.9
SP 500-5-AB	1131	178	186	1131	200	200	39.5
SP 500-5	1131	178	186	1131	200	200	39.5
SP 500-6	1259	178	186	1259	200	200	43.0
SP 500-7	1387	178	186	1387	200	200	46.6
SP 500-8	1515	178	186	1515	200	200	50.2
SP 500-9	1644	178	186	1644	200	200	53.8
SP 500-10	1783	196	204	1783	205	205	58.8
SP 500-11	1911	196	204	1911	205	205	62.4
SP 500-12	2039	196	204	2039	205	205	66.0
SP 500-13	2168	196	204	2168	205	205	69.6
SP 500-14	2296	196	204	2296	205	205	73.2
SP 500-15	2424	196	204				76.7
SP 500-17	2680	196	204				84.0
SP 500-18	2809	196	204				87.6
SP 500-20	3065	196	204				94.8



C*: Maximum diameter of pump with one motor cable

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