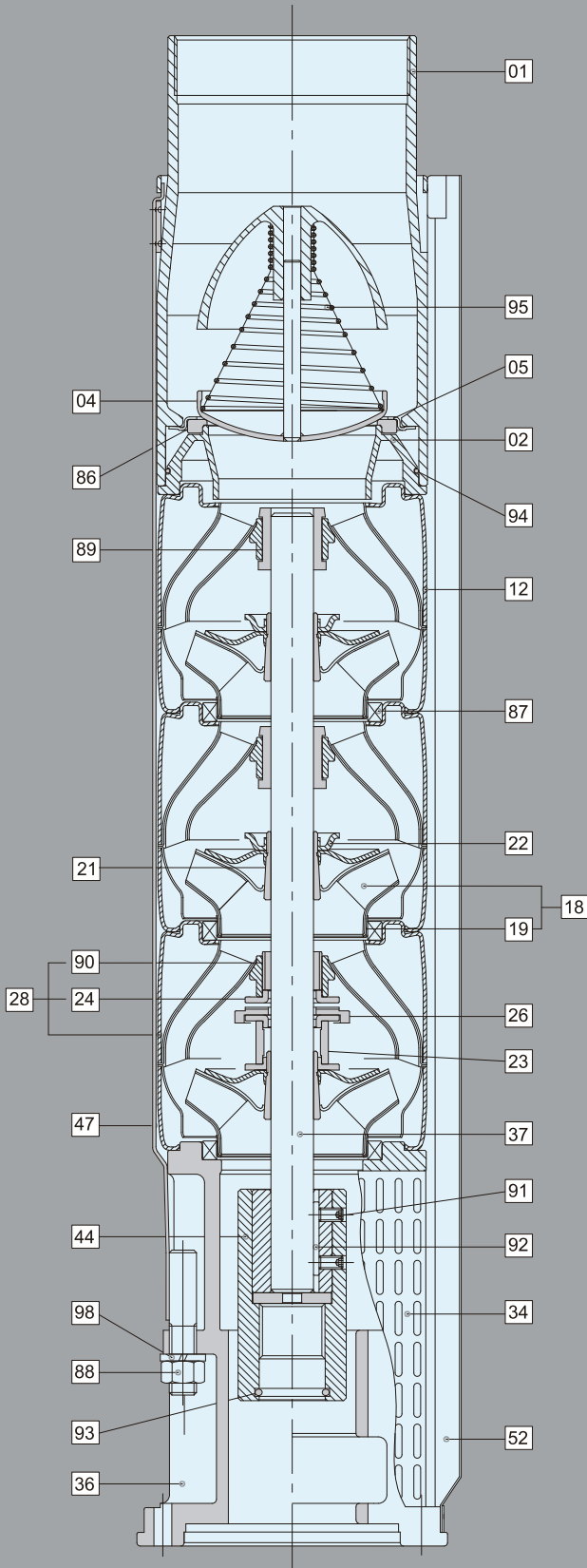


# General Data

## Example: SP500



## Material Specification-8" 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
12	Diffuser	SUS304 / SUS316
18	Impeller	SUS304 / SUS316
19	Ring Of Impeller	SUS304 / SUS316
21	Split Cone	SUS304 / SUS316
22	Split Cone Nut	SUS304 / SUS316
23	Nut For Stop Ring	SUS304 / SUS316
24	Stop Ring	SUS304 / SUS316
26	Spacing Washer For Stop Ring	Carbon+Graphite+PTFE
28	Bottom Diffuser	SUS304 / SUS316
34	Strainer	SUS304 / SUS316
36	Suction Interconnector	SUS304 / SUS316
37	Pump Shaft	SUS431 / SUS316
44	Coupling	SUS304 / SUS316
47	Strap	SUS304 / SUS316
52	Cable Guard	SUS304 / SUS316
86	Valve Seat	NBR
87	Neck Ring	SUS304+NBR / SUS316+NBR
88	Nut	SUS304 / SUS316
89	Bearing	NBR
90	Bearing	US304+NBR / SUS316+NBR
91	Screw	SUS304 / SUS316
92	Key	SUS304 / SUS316
93	O-ring	NBR
94	O-ring	NBR
95	Spring	SUS304 / SUS316
98	Spring Washer	SUS304 / SUS316

\*AISI 316 stainless steel pumps are available on request.

# General Data

## 8" Stainless Steel Submersible Pumps

Stairs' SP 8" 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 8" 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 ( m<sup>3</sup>/h) min 18 max 150
- ◆ Total Head: Max. 433 m
- ◆ Max. ambient temperature ( Liquid): 30°C
- ◆ Sand content: Max. 50 g/m<sup>3</sup>

Screen size of each hole: 20 x 4 mm



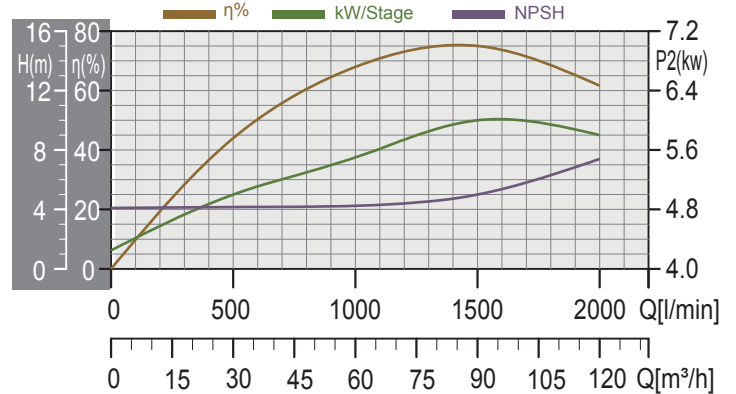
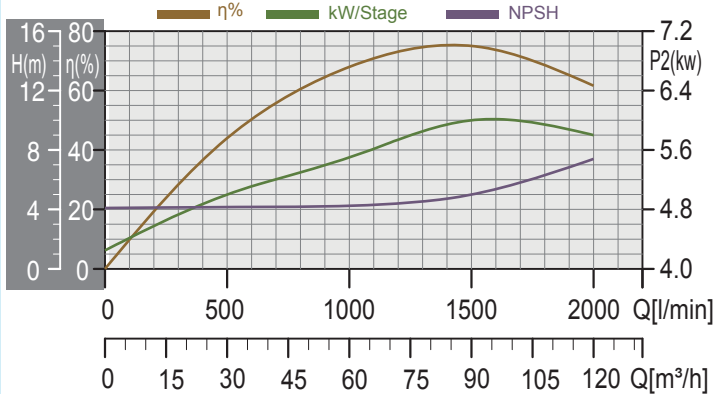
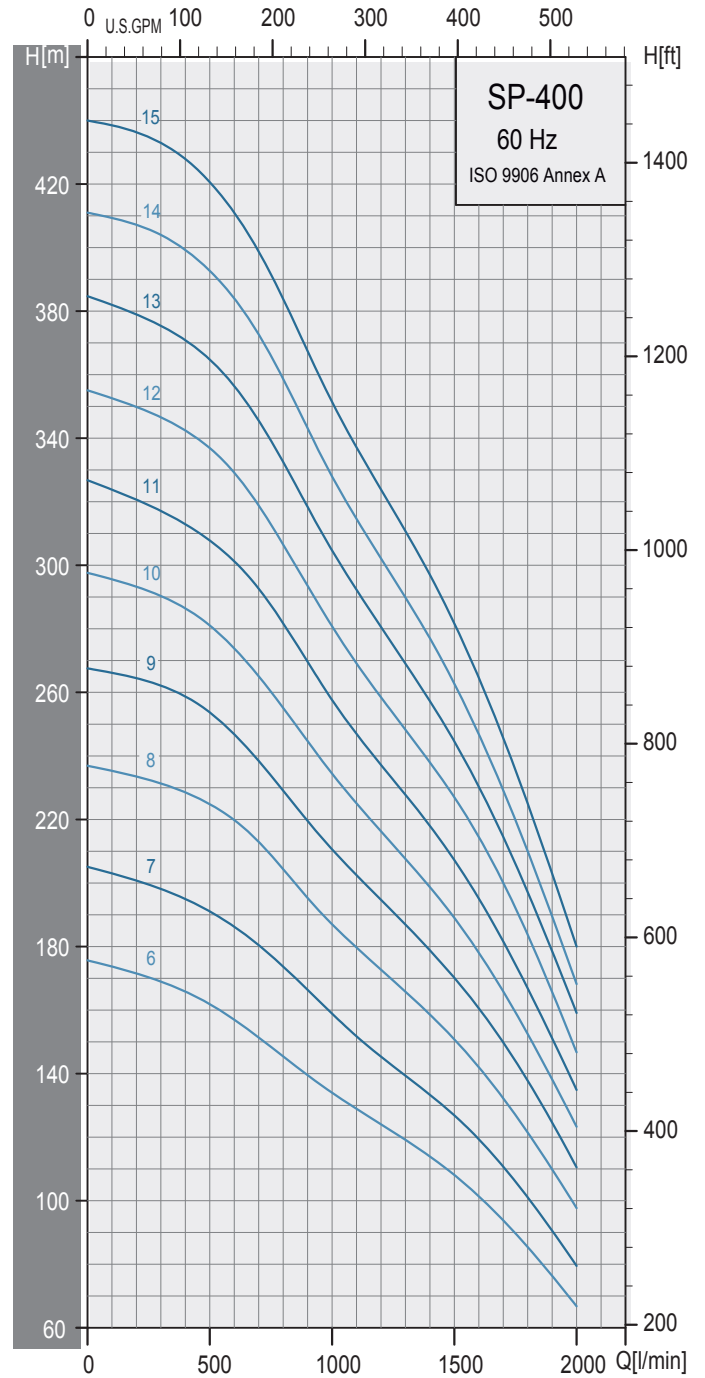
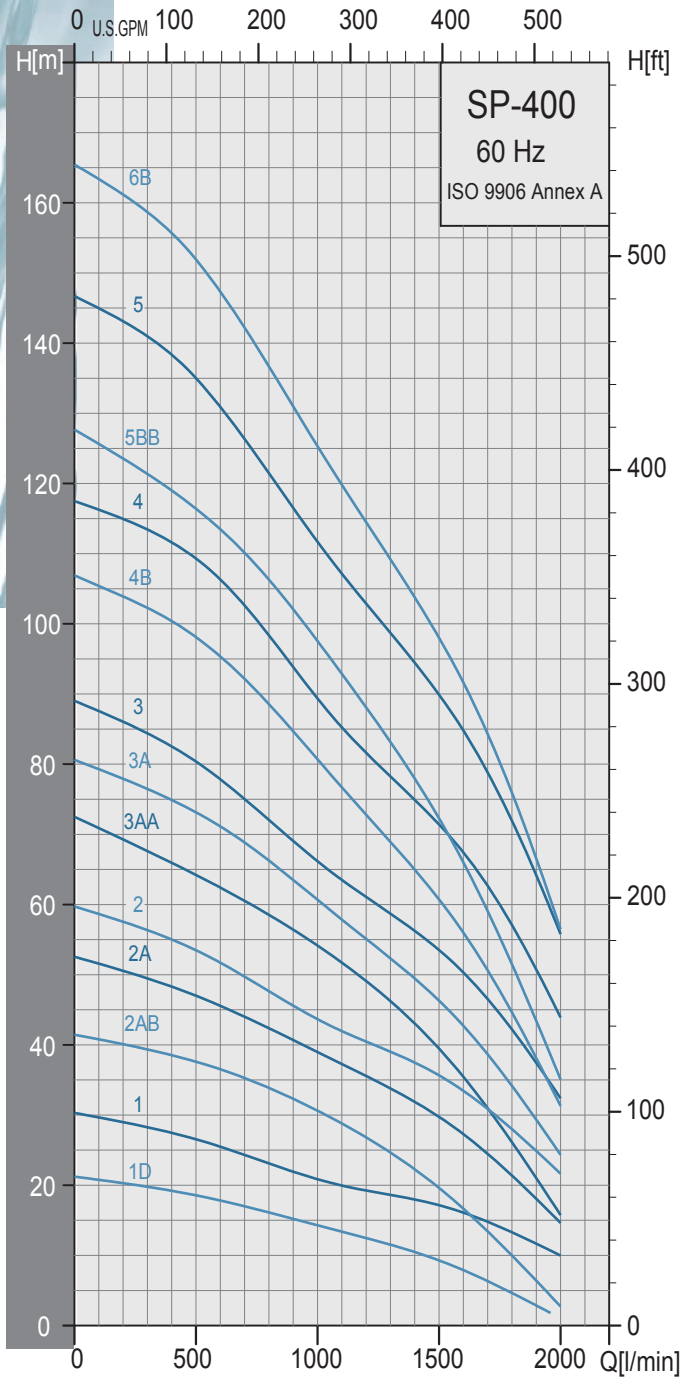
### Features

- ◆ 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.
- ◆ NEMA standard of bracket mounting.
- ◆ 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 8"

## SP400 Performance Curves



# Selection Chart

# 60Hz

Pump Type	Motor		m³/h l/min	Q capacity 3450 rpm											
	P2			18	24	30	36	42	48	60	72	84	96	108	120
	KW	HP		300	400	500	600	700	800	1000	1200	1400	1600	1800	2000
SP 400-1	5.5	7.5		28	27	26	25	24	23	21	19	18	16	13	10
SP 400-2-AB	7.5	10		39	38	37	36	35	34	31	27	22	17	10	3
SP 400-2-A	9.3	12.5		49	48	47	46	44	42	39	36	32	27	21	15
SP 400-2	11	15		56	55	54	52	50	47	44	40	37	33	28	22
SP 400-3-AA	13	17.5		68	66	64	62	60	58	54	49	43	35	26	16
SP 400-3-A	15	20		76	75	73	71	66	66	61	55	50	43	34	25
SP 400-3	18.5	25		84	83	80	78	75	72	66	61	56	50	42	33
SP 400-4-B	18.5	25		102	100	98	95	92	88	80	73	65	56	45	32
SP 400-4	22	30		113	112	109	106	103	98	89	82	75	68	57	44
SP 400-5-BB	22	30		122	119	116	114	110	106	97	88	78	66	51	35
SP 400-5	26	35		141	138	135	131	126	121	112	103	95	85	72	56
SP 400-6-B	30	40		158	156	152	147	142	136	125	115	104	92	76	57
SP 400-6	37	50		169	166	162	157	151	146	134	124	114	101	86	67
SP 400-7	37	50		198	195	191	186	180	174	159	146	133	120	101	80
SP 400-8	45	60		231	228	225	220	213	204	187	172	159	141	121	98
SP 400-9	55	75		262	259	254	247	238	229	210	195	179	160	138	110
SP 400-10	55	75		290	287	281	274	265	255	235	217	199	178	152	123
SP 400-11	63	85		317	313	308	301	293	282	258	237	218	196	168	135
SP 400-12	63	85		347	342	337	330	319	307	280	259	23	215	183	147
SP 400-13	75	100		375	370	365	357	346	332	305	280	258	230	198	160
SP 400-14	92	125		404	399	393	384	373	359	328	302	277	247	210	168
SP 400-15	92	125		433	428	421	411	399	384	351	324	297	264	225	180

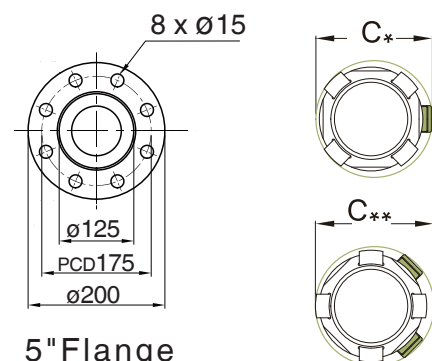
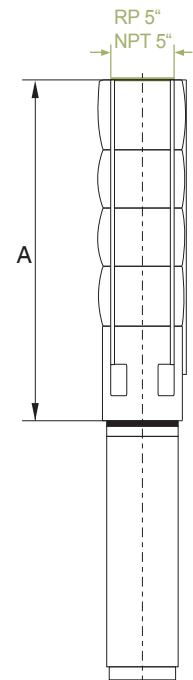
HEAD IN METERS

\*Higher pressure , longer stages pumps up to 15 stages are available on request.

## Dimensions and weights

Pump Type	Motor Dia.	Dimensions (mm)						Net Weight (Kg)
		5"Connection(RP,NPT)			5"Flange			
		A	C*	C**	A	C*	C**	
SP 400-1	6"	618	178	186	618	200	200	25.1
SP 400-2-AB	6"	746	178	186	746	200	200	28.7
SP 400-2-A	6"	746	178	186	746	200	200	28.7
SP 400-2	6"	746	178	186	746	200	200	28.7
SP 400-3-AA	6"	874	178	186	874	200	200	32.3
SP 400-3-A	6"	874	178	186	874	200	200	32.3
SP 400-3	6"	874	178	186	874	200	200	32.3
SP 400-4-B	6"	1003	178	186	1003	200	200	35.9
SP 400-4	6"	1003	178	186	1003	200	200	35.9
SP 400-5-BB	6"	1131	178	186	1131	200	200	39.5
SP 400-5	6"	1131	178	186	1131	200	200	39.5
SP 400-6-B	6"	1259	178	186	1259	200	200	43.0
SP 400-6	6"	1259	178	186	1259	200	200	43.0
SP 400-7	6"	1387	178	186	1387	200	200	46.6
SP 400-8	8"	1527	200	204	1527	205	205	51.6
SP 400-9	8"	655	200	204	655	205	205	55.2
SP 400-10	8"	1783	200	204	1783	205	205	58.8
SP 400-11	8"	1911	200	204	1911	205	205	62.4
SP 400-12	8"	2039	200	204	2039	205	205	66.0
SP 400-13	8"	2168	200	204	2168	205	205	69.6
SP 400-14	8"	2296	200	204				73.2
SP 400-15	8"	2424	200	204				76.8

C\* : Maximum diameter of pump with one moter cable.  
 C\*\* : Maximum diameter of pump with two moter cable.

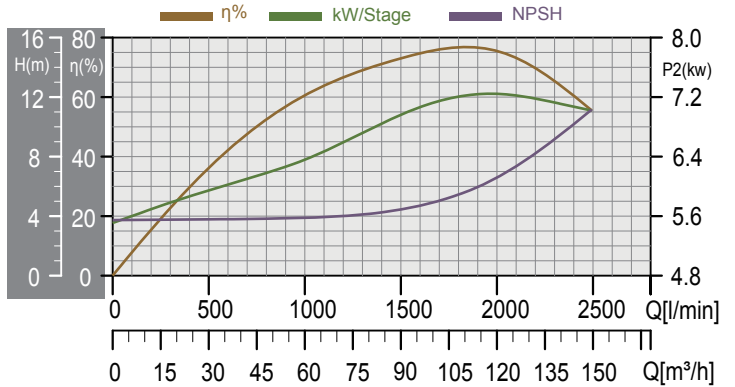
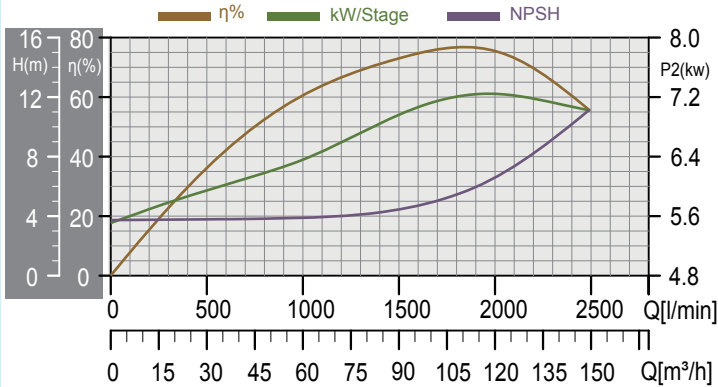
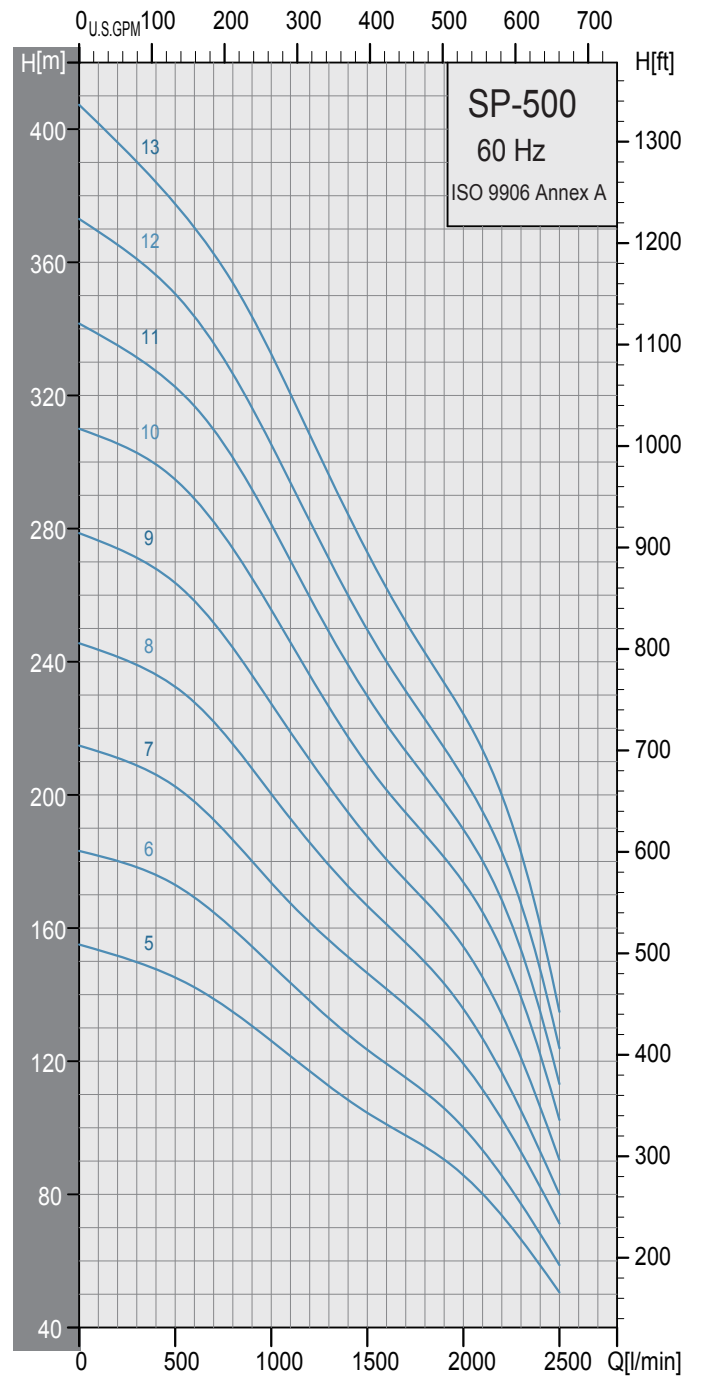
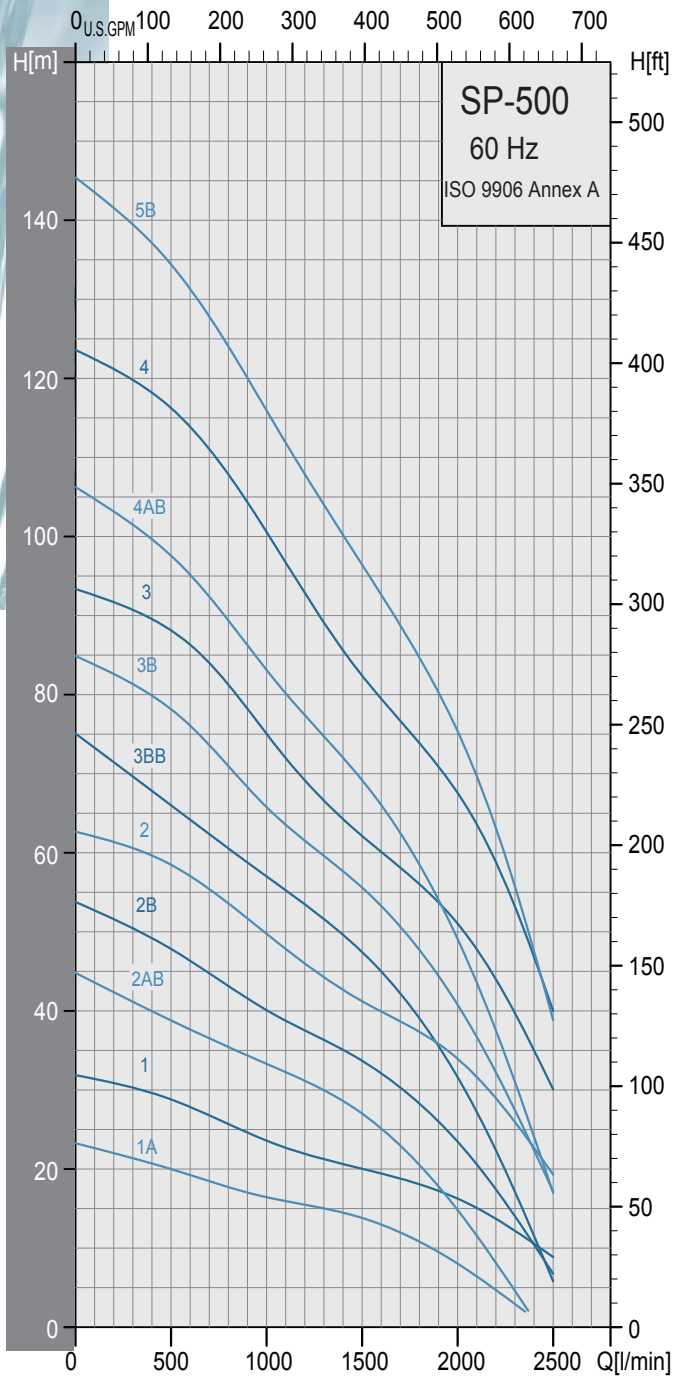


5" Flange

# Stairs SP Series

SP 8"

## SP500 Performance Curves



# Selection Chart

60Hz

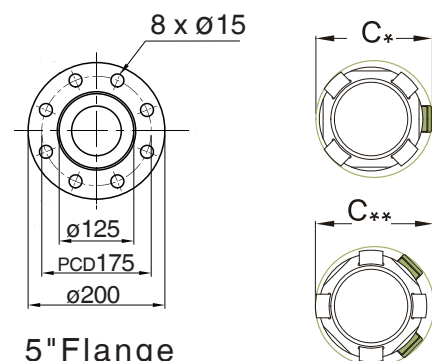
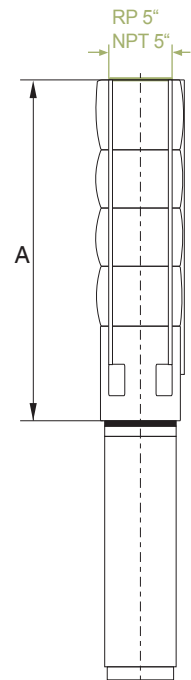
Pump Type	Motor		m³/h l/min	Q capacity 3450 rpm											
	P2			18	30	42	54	66	78	90	102	114	126	138	150
	KW	HP		300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500
SP 500 - 1-A	5.5	7.5	21	20	18	17	16	15	14	12	9	6	3		
SP 500 - 1	7.5	10	30	29	26	25	23	21	20	19	17	15	12	9	
SP 500 - 2-AB	9.3	12.5	41	39	36	34	32	30	27	23	18	12	5		
SP 500 - 2-B	11	15	50	48	45	42	39	36	34	30	26	20	14	7	
SP 500 - 2	13	17.5	60	58	55	51	48	44	41	38	36	32	26	19	
SP 500 - 3-BB	15	20	70	66	62	59	55	51	47	42	35	27	17	6	
SP 500 - 3-B	18.5	25	81	78	74	68	64	60	55	51	45	37	27	17	
SP 500 - 3	22	30	91	88	84	78	72	66	62	58	54	48	40	30	
SP 500 - 4-AB	22	30	102	97	92	86	80	75	69	63	54	44	31	17	
SP 500 - 4	26	35	120	116	111	105	97	89	82	77	71	64	53	40	
SP 500 - 5-B	30	40	140	135	128	120	112	104	96	89	80	70	55	39	
SP 500 - 5	37	50	150	145	139	130	121	112	105	98	90	80	67	50	
SP 500 - 6	37	50	178	172	165	154	143	132	123	115	106	93	77	59	
SP 500 - 7	45	60	209	202	192	180	167	156	147	137	126	111	92	71	
SP 500 - 8	55	75	239	232	221	208	192	179	167	156	143	127	105	80	
SP 500 - 9	63	85	271	263	251	236	220	201	188	174	161	145	120	90	
SP 500 - 10	63	85	302	295	281	265	246	227	210	194	180	165	140	103	
SP 500 - 11	75	100	331	322	310	291	270	250	230	213	198	180	153	114	
SP 500 - 12	93	125	360	350	336	316	294	270	250	231	214	195	168	124	
SP 500 - 13	93	125	390	378	362	344	320	296	272	252	233	213	182	136	

HEAD IN METERS

## Dimensions and weights

Pump Type	Motor Dia.	Dimensions (mm)						Net Weight (Kg) Pump
		5" Connection (RP, NPT)			5" Flange			
		A	C*	C**	A	C*	C**	
SP 500 - 1-A	6"	618	179	183	618	200	200	25.1
SP 500 - 1	6"	618	179	183	618	200	200	25.1
SP 500 - 2-AB	6"	746	179	183	746	200	200	28.7
SP 500 - 2-B	6"	746	179	183	746	200	200	28.7
SP 500 - 2	6"	746	179	183	746	200	200	28.7
SP 500 - 3-BB	6"	874	179	183	874	200	200	32.3
SP 500 - 3-B	6"	874	179	183	874	200	200	32.3
SP 500 - 3	6"	874	179	183	874	200	200	32.3
SP 500 - 4-AB	6"	1003	179	183	1003	200	200	35.9
SP 500 - 4	6"	1003	179	183	1003	200	200	35.9
SP 500 - 5-B	6"	1131	179	183	1131	200	200	39.5
SP 500 - 5	6"	1131	179	183	1131	200	200	39.5
SP 500 - 6	6"	1259	179	183	1259	200	200	43
SP 500 - 7	8"	1398	205	205	1398	200	202	48
SP 500 - 8	8"	1527	205	205	1527	200	202	51.6
SP 500 - 9	8"	1655	205	205	1655	200	202	55.2
SP 500 - 10	8"	1783	205	205	1783	200	202	58.8
SP 500 - 11	8"	1911	205	205	1911			62.4
SP 500 - 12	8"	2039	205	205	2039			66
SP 500 - 13	8"	2168	205	205	2168			69.6

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



5" Flange