



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

Stainless Steel Submersible Pumps

**60Hz**



STAIRS INDUSTRIAL CO., LTD.

# Stairs **SP** Series



## Index

### General Data

Performance Range	2
Material Specification	3
4" Submersible Pumps	7
6" Submersible Pumps	8
8" Submersible Pumps	9
10" Submersible Pumps	10

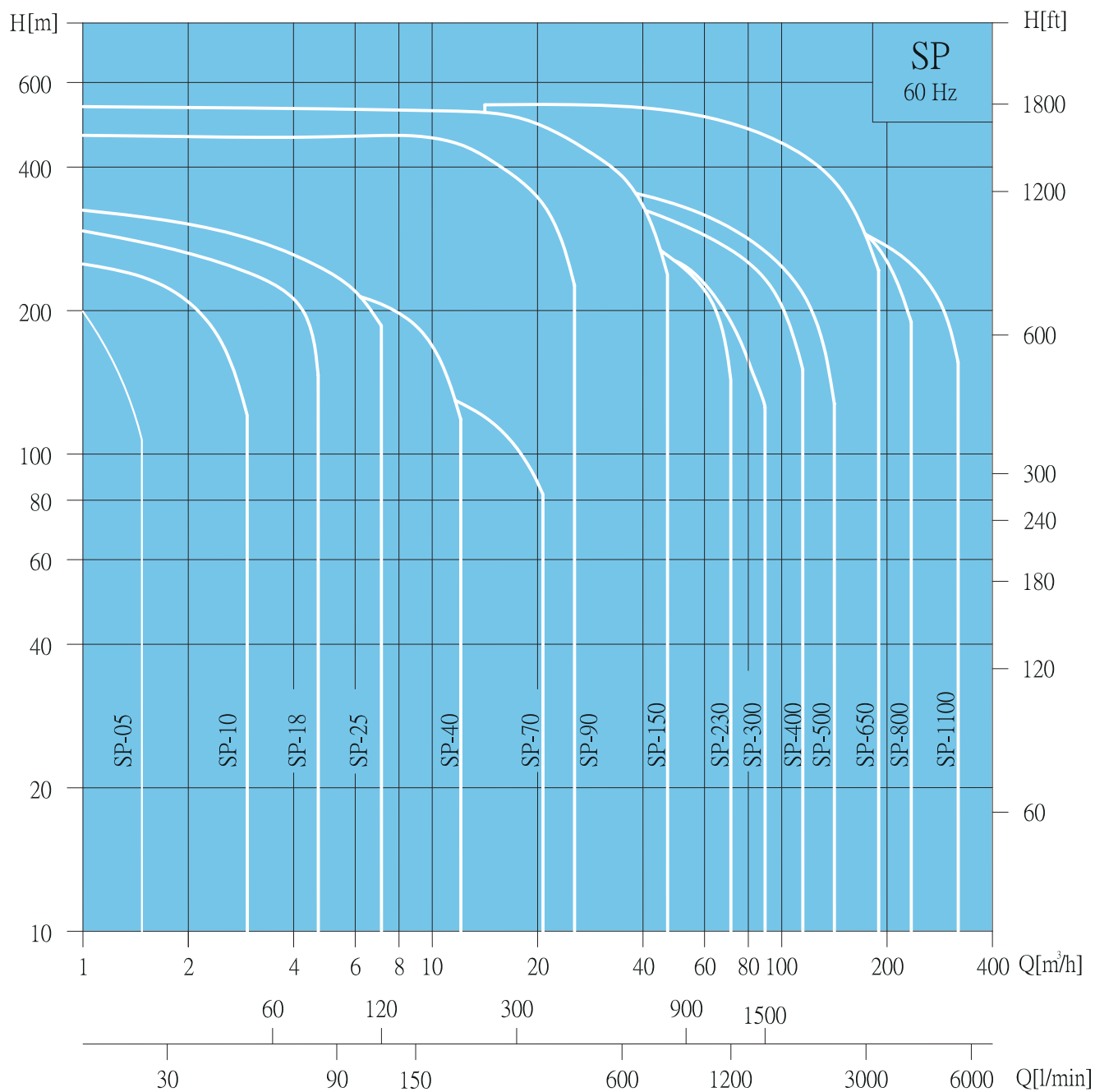
### Performance Curves/Technical Data

Series SP05	11
Series SP10	13
Series SP18	15
Series SP25	17
Series SP40	19
Series SP70	21
Series SP90	23
Series SP150	25
Series SP230	27
Series SP300	29
Series SP400	31
Series SP500	33
Series SP650	37
Series SP800	40
Series SP1100	43

## SP Series 4", 6", 8", 10" Stainless Steel Submersible Pumps

SP4", 6", 8" and 10" submersible pumps are made of corrosion and abrasion resistant stainless steel and have been developed in accordance with state-of-the-art technology. The SP series of pumps are manufactured to the highest standards for energy efficiency, dependable performance, rugged construction and long service life for the most demanding applications.

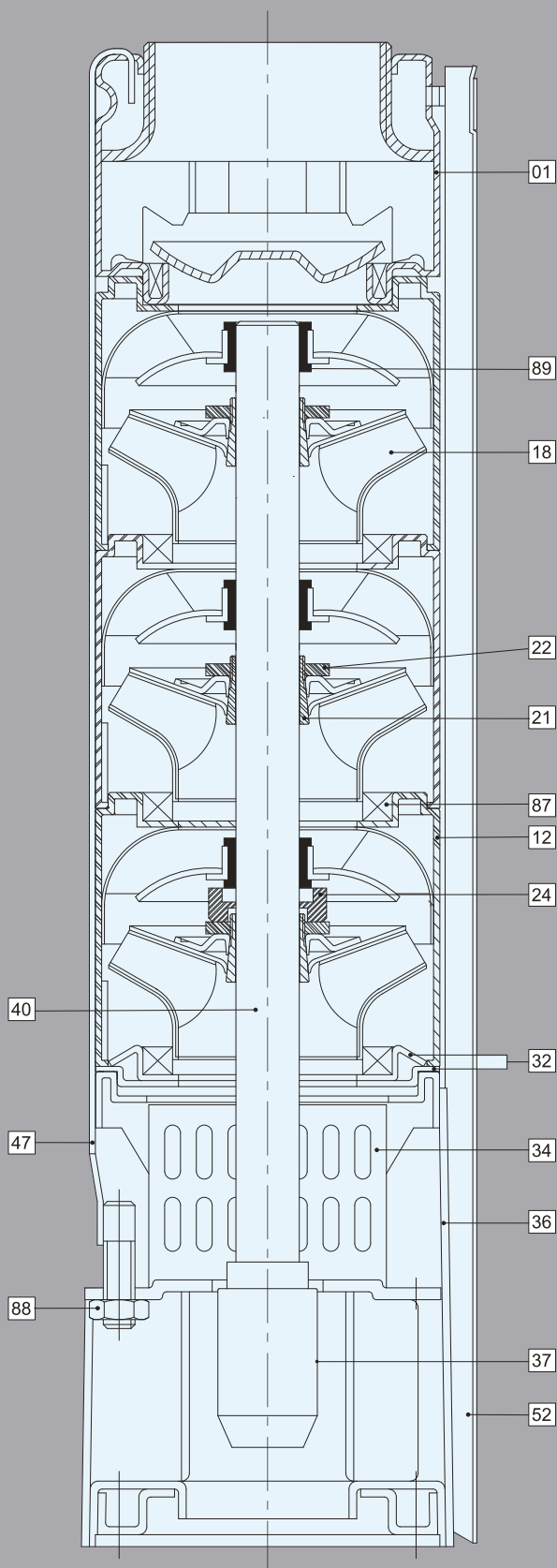
## Performance range



# General Data



## Example: SP-70



## Material Specification-4" Pumps

Pos.	Components	Material	Standard
01	Discharge	Stainless Steel	304
12	Diffuser	Stainless Steel	304
18	Impeller	Stainless Steel	304
21	Split Cone	Stainless Steel	304
22	Split Cone Nut	Stainless Steel	304
24	Stop Ring	Carbon/ Graphite/PTFE	
32	Neck Ring Retainer	Stainless Steel	304
34	Strainer	Stainless Steel	304
36	Suction Interconnector	Stainless Steel	304
40	Pump Shaft	Stainless Steel	431
37	Coupling	Stainless Steel	304
47	Strap	Stainless Steel	304
52	Cable Guard	Stainless Steel	304
87	Neck Ring	SUS304+NBR	
88	Nut	Stainless Steel	304
89	Bearing	NBR	

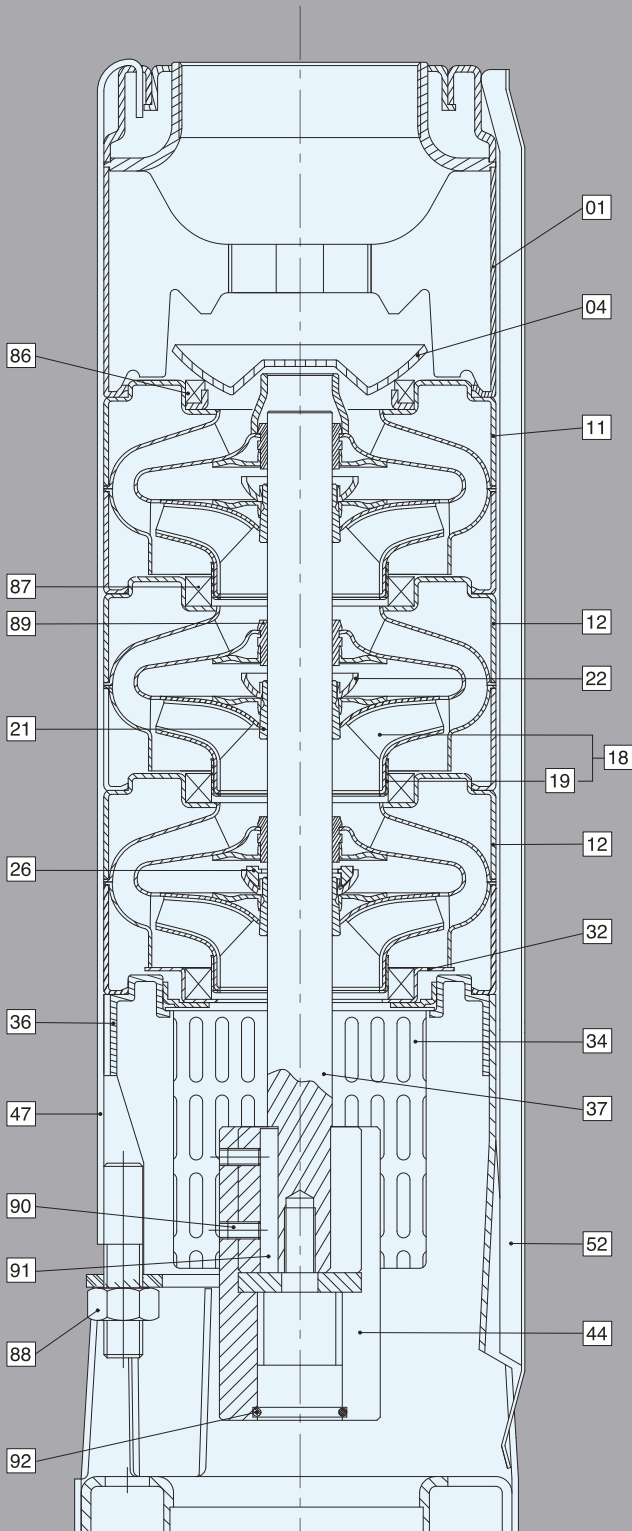
\*AISI 316 stainless steel pumps are available on request.

# General Data



STAIRS PUMPS

## Example: SP-90



## Material Specification-6" Pumps

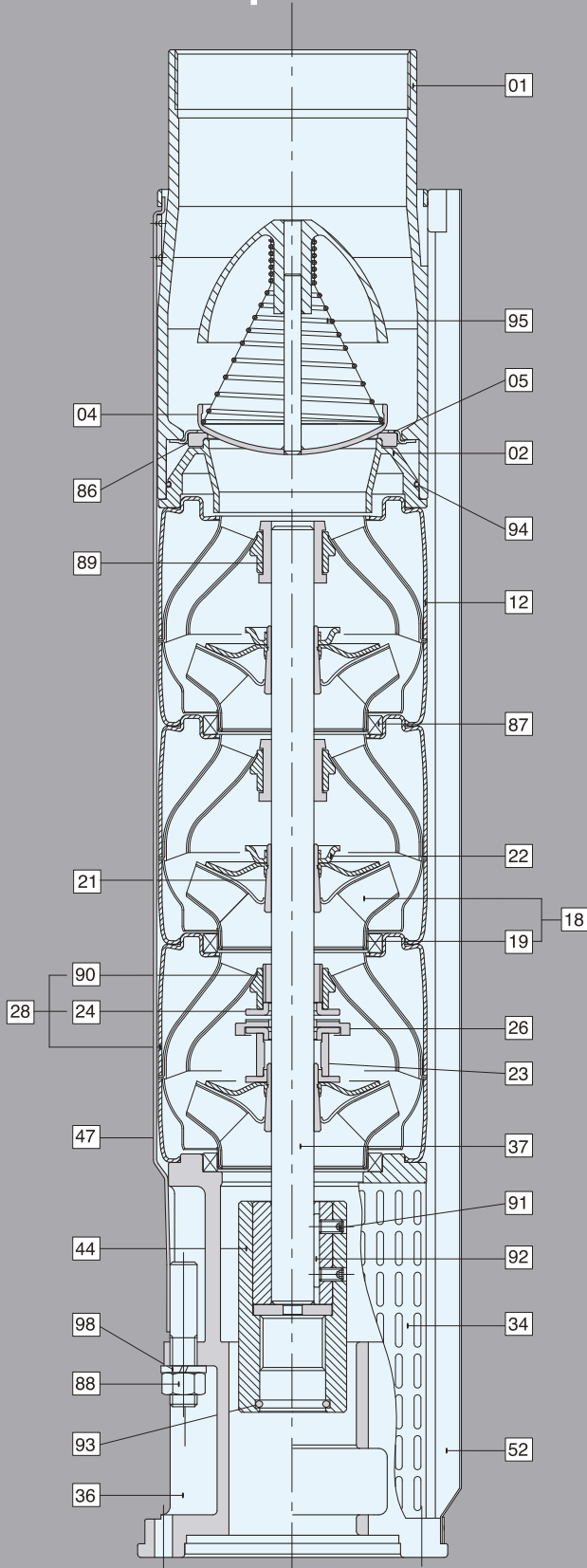
Pos.	Components	Material	Standard
01	Discharge	Stainless Steel	304
04	Valve Cone	Stainless Steel	304
11	Top Diffuser	Stainless Steel	304
12	Diffuser	Stainless Steel	304
18	Impeller	Stainless Steel	304
19	Ring Of Impeller	Stainless Steel	304
21	Split Cone	Stainless Steel	304
22	Split Cone Nut	Stainless Steel	304
26	Spacing Washer For Stop Ring	Carbon/ Graphite/PTFE	
32	Neck Ring Retainer	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	SUS304+NBR	
87	Neck Ring	SUS304+NBR	
88	Nut	Stainless Steel	304
89	Bearing	NBR	
90	Screw	Stainless Steel	304
91	Key	Stainless Steel	304
92	O-ring	NBR	

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

# General Data



## Example: SP500



## Material Specification-8" Pumps

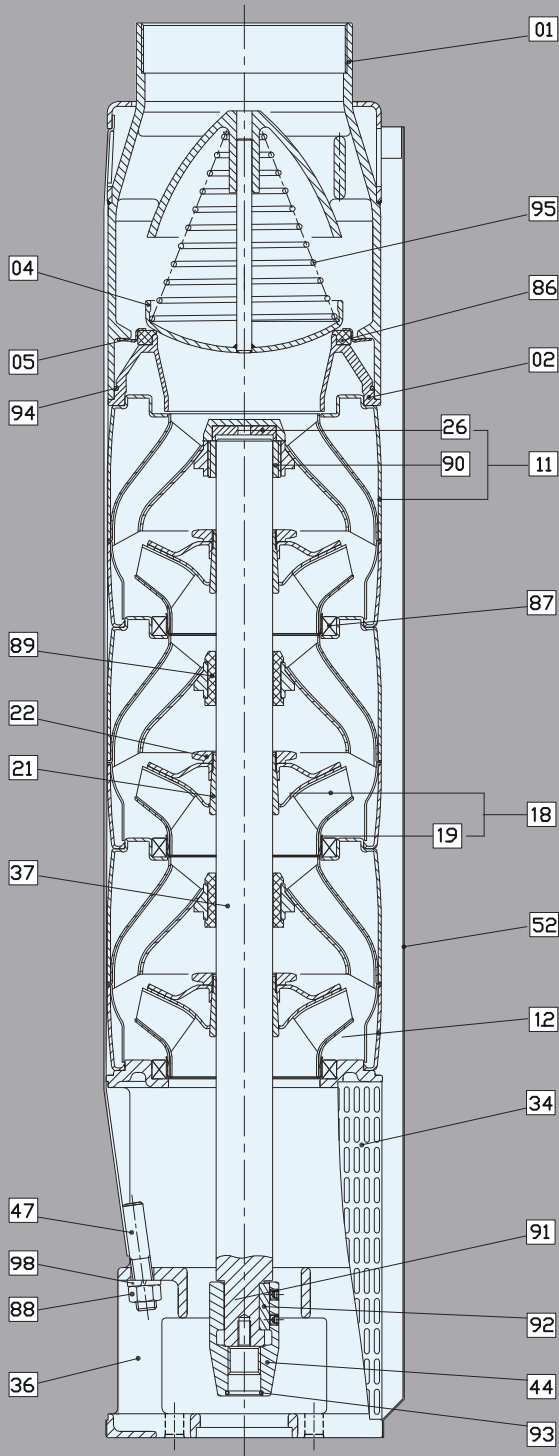
Pos.	Components	Material	Standard
01	Discharge	Stainless Steel	304
02	Lower Valve Seat Retainer	Stainless Steel	304
04	Valve Cup	Stainless Steel	304
05	Upper Valve Seat Retainer	Stainless Steel	304
12	Diffuser	Stainless Steel	304
18	Impeller	Stainless Steel	304
19	Ring Of Impeller	Stainless Steel	304
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.

# 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.

## 4" Stainless Steel Submersible Pumps

Stairs' SP 4" 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. The SP 4" pumps are manufactured to the highest standards for energy efficiency, dependable performance, rugged construction, and long service life.

Capacity ( m<sup>3</sup>/h )    min 0.3            max 21  
Total Head: Max. 290 m

### Applications

- ◆ Potable water supply from deep wells
- ◆ Agricultural-Irrigation, livestock watering, etc.
- ◆ Municipal and industrial
- ◆ Pressure boosting
- ◆ Fountains, etc.

### Pumped Liquids

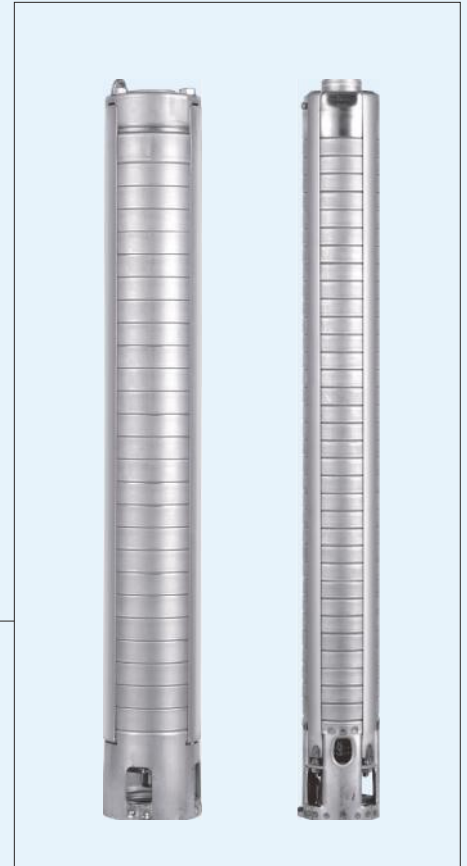
- ◆ Clean, non-corrosive and non-abrasive liquids.

### Operating Conditions

- ◆ Max. ambient temperature ( Liquid): 30°C
- ◆ Sand content: Max. 50 g/m<sup>3</sup>

### Features

- ◆ Stainless steel construction designed and built for years of trouble free operation
- ◆ All metal parts are made of 304 stainless steel, except for the shaft, which is made of 431 stainless steel
- ◆ Heavy duty stainless steel discharge head with built-in check valve for long life and ease of installation
- ◆ Smooth safety hook
- ◆ Mounting specifications are according to NEMA standards
- ◆ High quality shaft bearings providing low friction and high wear resistance
- ◆ Heavy duty stainless steel impellers & diffusers ensuring optimal performance
- ◆ Stainless steel strainer to restrict the entry of sand and other extraneous material





## 6" Stainless Steel Submersible Pumps

Stairs' SP 6" stainless steel submersible pumps are made of high quality 304 or 316 corrosion resistant stainless steel. Shafts are made of high strength 431 stainless steel. The pumps are designed for efficient and dependable performance, and a long and trouble-free life. The pumps are light in weight and ruggedly constructed for heavy duty applications.

Capacity ( m<sup>3</sup>/h)    min 6            max 90  
 Total Head: Max. 535 m

### Applications

- ◆ Potable water supply from deep wells
- ◆ Agricultural-Irrigation and livestock watering
- ◆ Municipal and industrial water supply
- ◆ Pressure boosting
- ◆ Mine de-watering
- ◆ Fountains, etc.

### Pumped Liquids

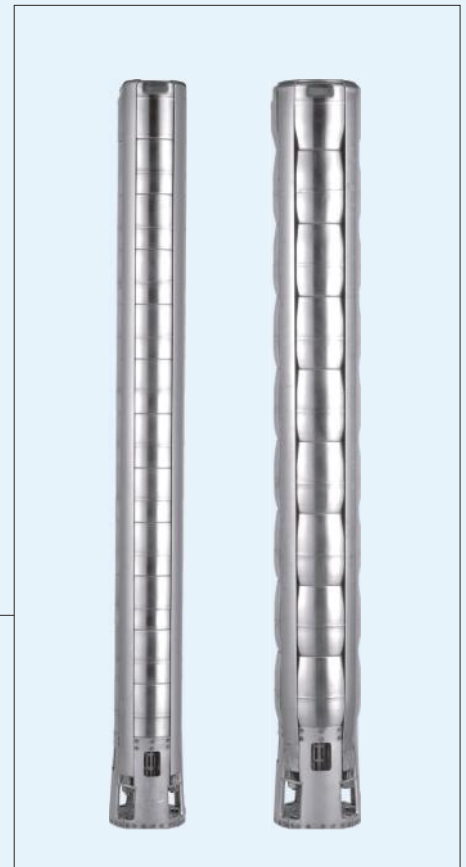
- ◆ Clean, non corrosive and non-abrasive liquids.

### Operating Conditions

- ◆ Max. ambient temperature ( Liquid): 30°C
- ◆ Sand content: Max. 50 g/m<sup>3</sup>

### Features

- ◆ Stainless steel construction designed and built for years of trouble free operation
- ◆ Heavy duty stainless steel discharge head with built-in check valve for long life and ease of installation
- ◆ Mounting specifications are according to NEMA standards
- ◆ High quality shaft bearings providing low friction and high wear resistance
- ◆ Heavy duty stainless steel impellers & diffusers ensuring optimal performance
- ◆ Stainless steel strainer to restrict the entry of sand and other extraneous material



## 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 ( m<sup>3</sup>/h)    min 18    max 150  
Total Head: Max. 390 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/m<sup>3</sup>

### 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



## 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 ( m<sup>3</sup>/h)    min20    max 335

Total Head: Max. 547m

### 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/m<sup>3</sup>

### 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



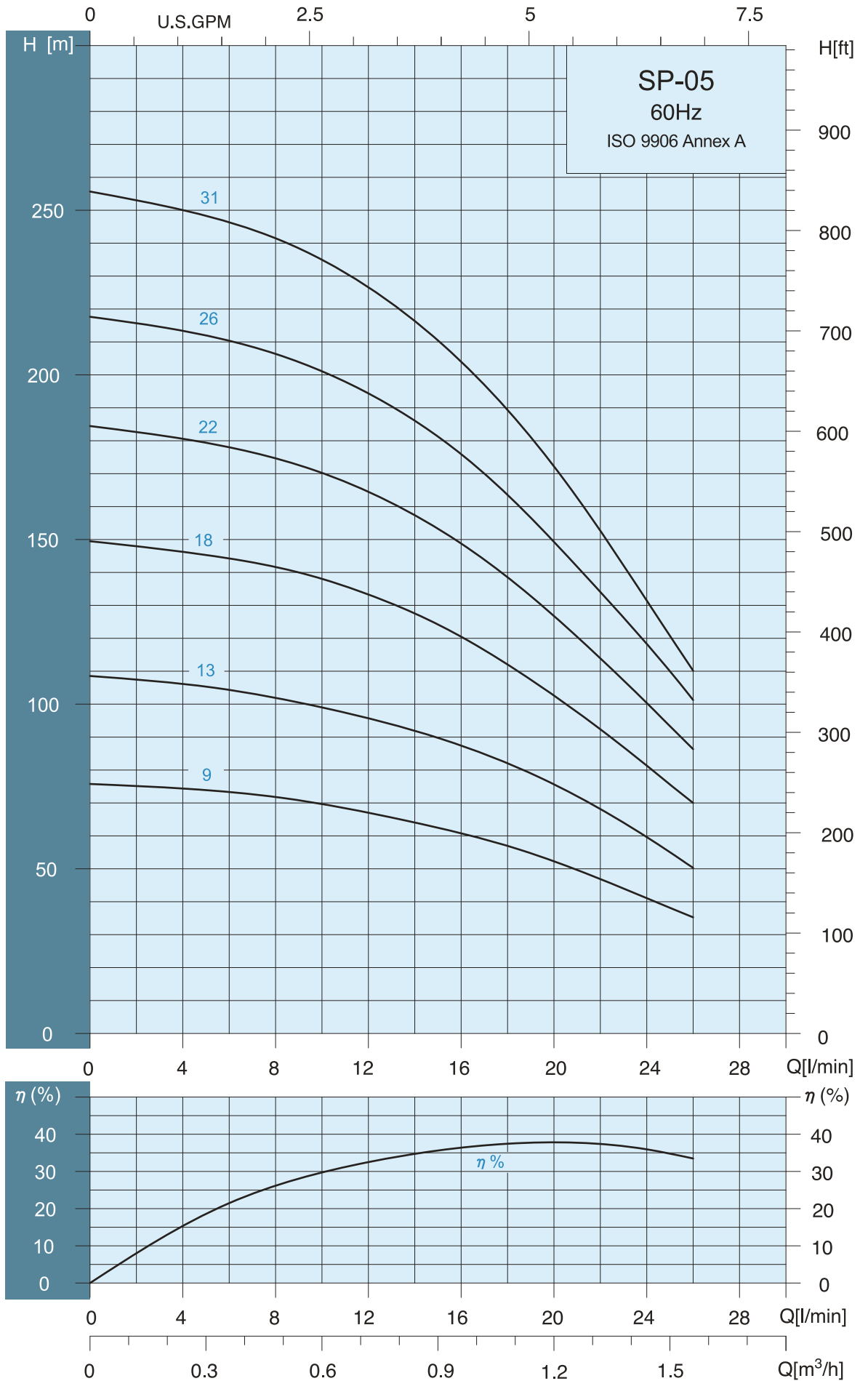
# Stairs SP Series



STAIRS PUMPS

SP 4"

## SP05 Performance Curves

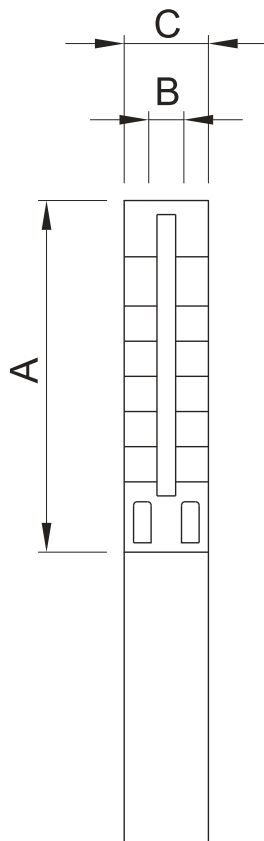




## Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 3450 rpm															
				l/min	5	10	15	20	25	30	35	40	50	60	70	80	90	100	120
				m <sup>3</sup> /h	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	7.2
H =TOTAL HEAD IN METERS																			
SP-0509	9	0.25	0.33	76	74	70	62	52	38										
SP-0513	13	0.37	0.5	108	105	99	90	76	55										
SP-0518	18	0.55	0.75	150	145	138	124	102	75										
SP-0522	22	0.75	1.0	183	179	170	153	127	93										
SP-0526	26	1.10	1.5	218	212	201	181	149	110										
SP-0531	31	1.10	1.5	256	248	235	210	172	121										

\*Higher pressure, longer stages pumps up to 39 stages are available on request.



## Dimensions And Weights

Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C	Pump
SP-0509	356	RP/NPT 1 1/4"	98	2.9
SP-0513	440		98	3.6
SP-0518	545		98	4.4
SP-0522	629		98	5.1
SP-0526	713		98	5.8
SP-0531	841		98	8.8

C = Maximum diameter of pump inclusive of cable guard and motor

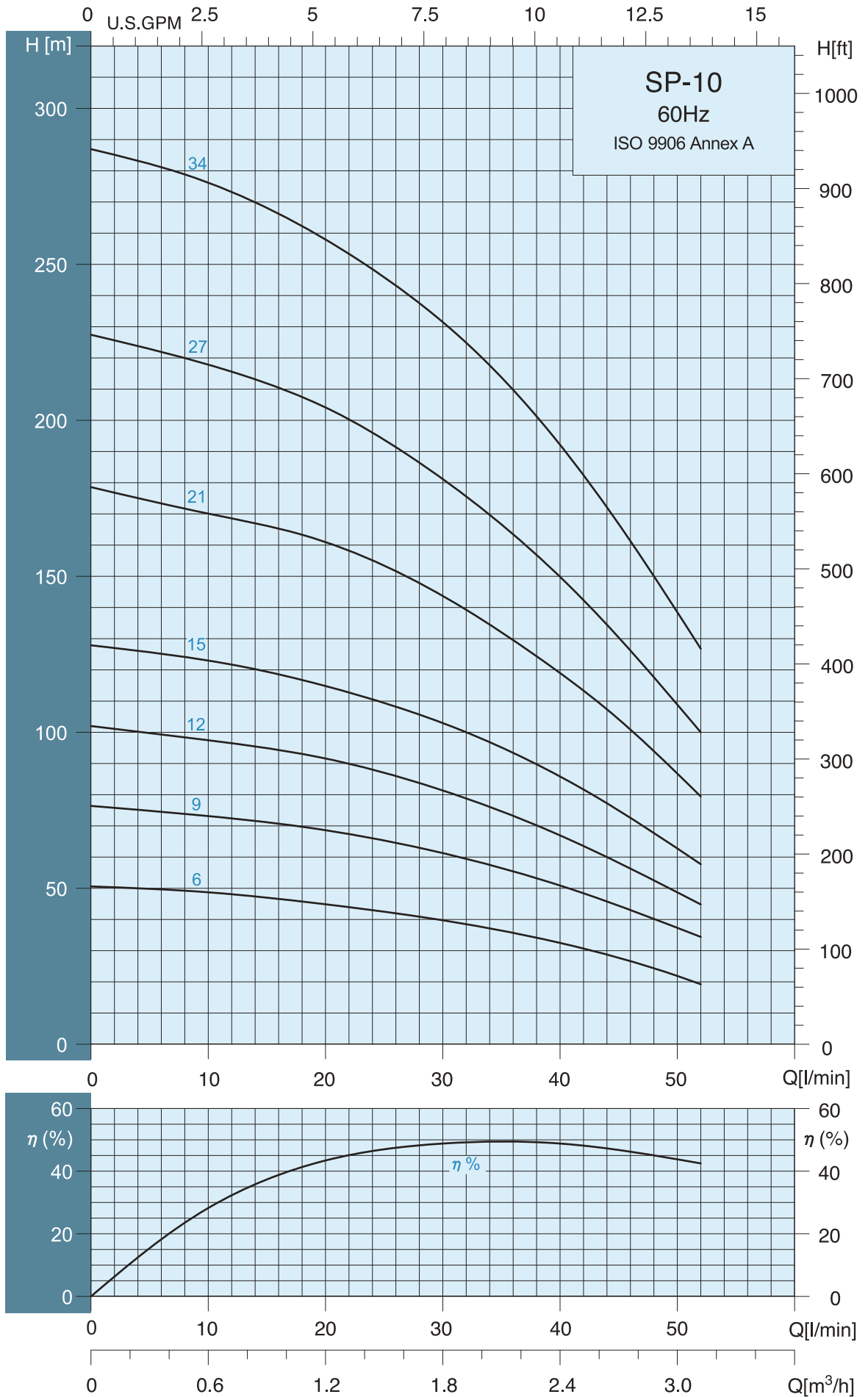
# Stairs SP Series



STAIRS PUMPS

SP 4"

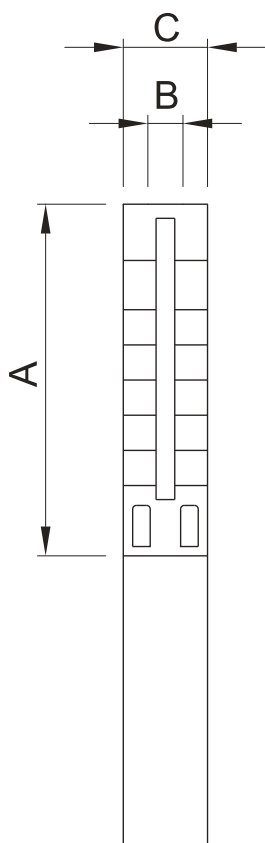
## SP10 Performance Curves



## Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 3450 rpm																
				l/min	0	5	10	15	20	25	30	35	40	50	60	70	80	90	100	120
				m <sup>3</sup> /h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	7.2
				H =TOTAL HEAD IN METERS																
SP-1006	6	0.25	0.33	51				45	42	40	36	32	21							
SP-1009	9	0.37	0.5	77				69	65	61	56	51	37							
SP-1012	12	0.55	0.75	102				92	87	81	75	67	49							
SP-1015	15	0.75	1.0	128				115	109	103	95	86	63							
SP-1021	21	1.10	1.5	179				160	153	144	132	119	87							
SP-1027	27	1.5	2.0	227				204	194	181	167	150	109							
SP-1034	34	2.2	3.0	287				258	246	231	214	192	138							

\*Higher pressure, longer stages pumps up to 58 stages are available on request.



## Dimensions And Weights

Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C	Pump
SP-1006	293	RP/NPT 1 1/4"	98	2.4
SP-1009	356		98	3.0
SP-1012	419		98	3.6
SP-1015	482		98	4.2
SP-1021	608		98	5.3
SP-1027	734		98	6.4
SP-1034	904		98	10.0

Maximum diameter of pump inclusive of cable guard and motor

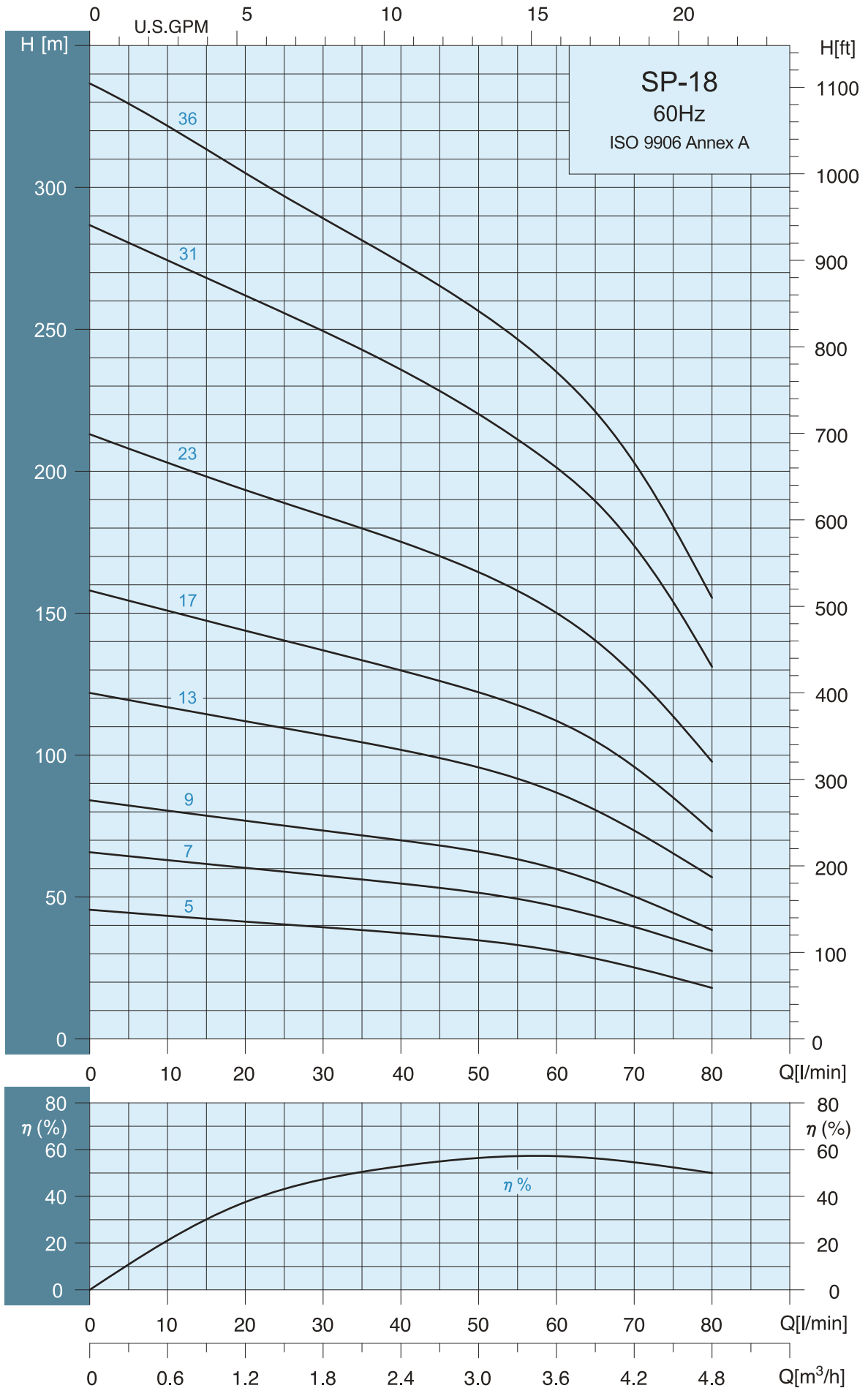
# Stairs SP Series



STAIRS PUMPS

SP 4"

## SP18 Performance Curves

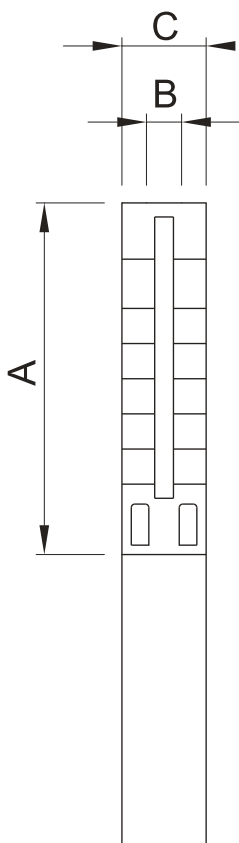




## Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 3450 rpm																
				l/min	0	15	20	25	30	35	40	50	60	70	80	90	100	120	140	160
				m <sup>3</sup> /h	0	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6
				H =TOTAL HEAD IN METERS																
SP-1805	5	0.37	0.5	46						38	37	35	31	25	18					
SP-1807	7	0.55	0.75	66						56	55	51	47	39	31					
SP-1809	9	0.75	1.0	84						72	70	66	60	50	38					
SP-1813	13	1.10	1.5	122						105	102	96	87	73	57					
SP-1817	17	1.5	2.0	158						133	130	122	112	96	73					
SP-1823	23	2.2	3.0	213						180	175	164	150	128	98					
SP-1831	31	3.0	4.0	286						243	236	220	201	174	131					
SP-1836	36	3.7	5.0	337						281	274	256	235	203	155					

\*Higher pressure, longer stages pumps up to 75 stages are available on request.



## Dimensions And Weights

Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C	Pump
SP-1805	272	RP/NPT 1 1/4"	98	2.3
SP-1807	314		98	2.6
SP-1809	356		98	3.0
SP-1813	440		98	3.8
SP-1817	524		98	4.5
SP-1823	650		98	5.7
SP-1831	841		98	9.2
SP-1836	946		98	10.5

= Maximum diameter of pump inclusive of cable guard and motor

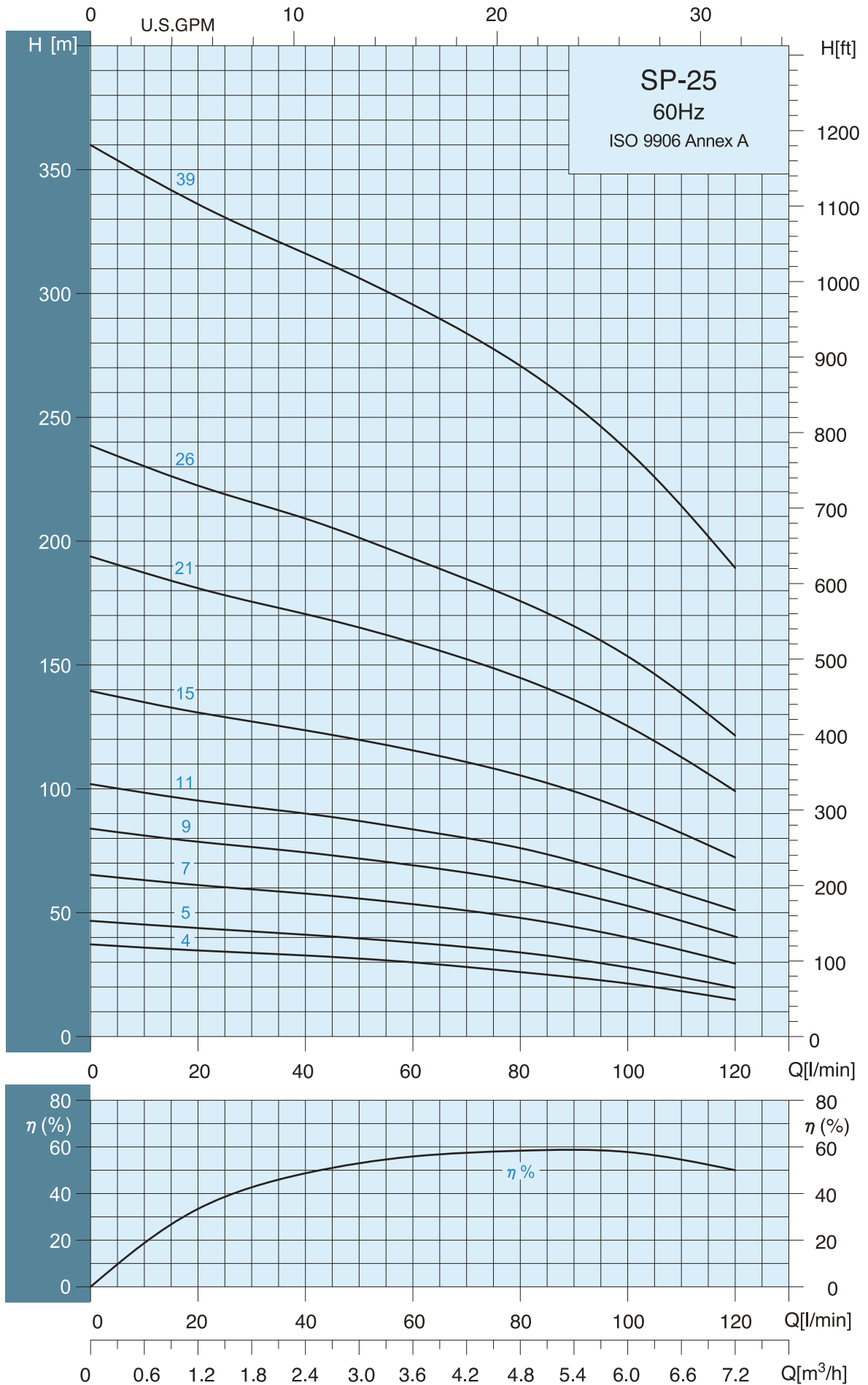
# Stairs SP Series



STAIRS PUMPS

SP 4"

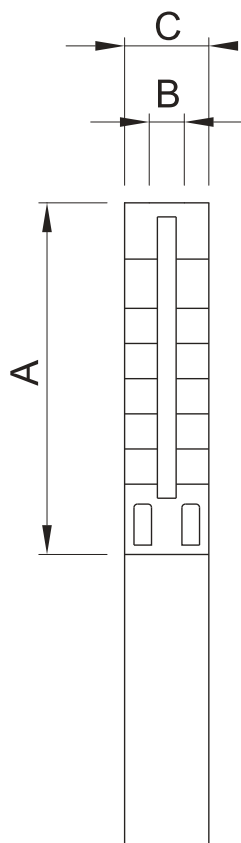
## SP25 Performance Curves



## Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 3450 rpm																
				l/min	25	30	35	40	50	60	70	80	90	100	120	140	160	180	200	250
				m <sup>3</sup> /h	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	15
				H =TOTAL HEAD IN METERS																
SP-2504	4	0.37	0.5	37						30	28	26	24	23	15					
SP-2505	5	0.55	0.75	47						38	36	34	31	28	20					
SP-2507	7	0.75	1.0	65						53	51	48	44	40	29					
SP-2509	9	1.10	1.5	84						69	66	63	58	53	40					
SP-2511	11	1.5	2.0	102						84	80	76	71	65	51					
SP-2515	15	2.2	3.0	140						116	111	105	99	91	72					
SP-2521	21	3.0	4.0	194						159	152	145	136	125	99					
SP-2526	26	3.7	5.0	237						193	185	176	166	153	122					
SP-2539	39	5.5	7.5	360						295	284	271	255	237	189					

\*Higher pressure, longer stages pumps up to 52 stages are available on request.



## Dimensions And Weights

Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C	Pump
SP-2504	251	RP/NPT 1 1/2"	98	2.0
SP-2505	272		98	2.2
SP-2507	314		98	2.6
SP-2509	356		98	3.0
SP-2511	398		98	3.4
SP-2515	482		98	4.1
SP-2521	608		98	5.3
SP-2526	713		98	6.2
SP-2539	994		98	11.1

Maximum diameter of pump inclusive of cable guard and motor

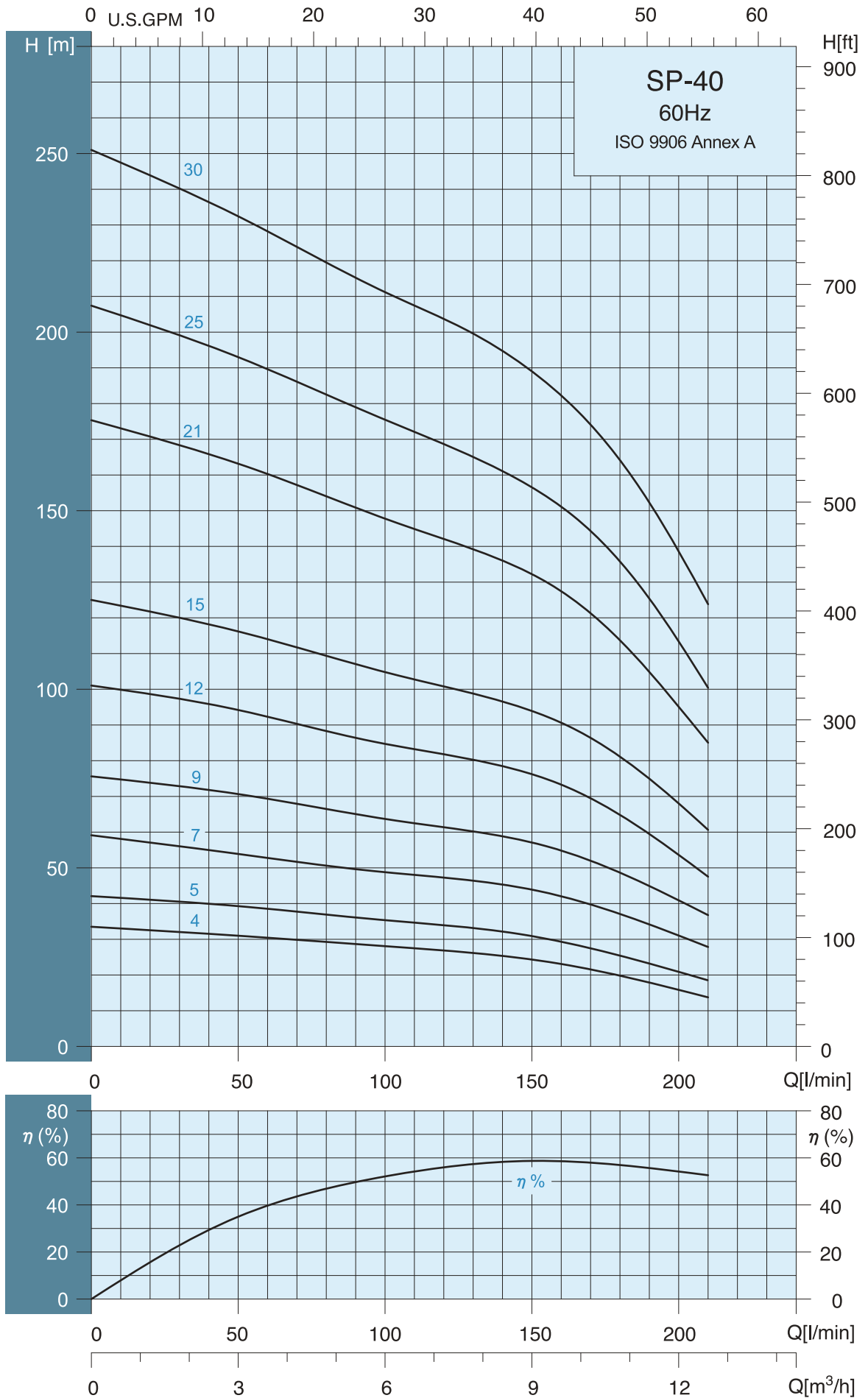
# Stairs SP Series



STAIRS PUMPS

SP 4"

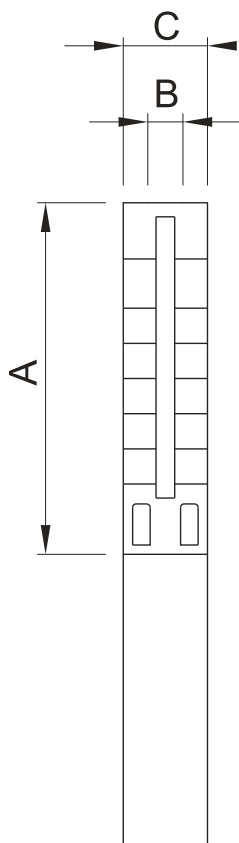
## SP40 Performance Curves



## Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 3450 rpm																
				l/min	35	40	50	60	70	80	90	100	120	140	160	180	200	250	300	350
				m <sup>3</sup> /h	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	15	18	21
H =TOTAL HEAD IN METERS																				
SP-4004	4	0.75	1.0	33						29	28	27	26	25	23	20	16			
SP-4005	5	1.10	1.5	42						37	36	35	34	32	29	25	21			
SP-4007	7	1.5	2.0	59						51	50	49	47	45	42	37	31			
SP-4009	9	2.2	3.0	76						66	65	64	61	59	55	49	41			
SP-4012	12	3.0	4.0	101						88	86	85	82	78	73	65	54			
SP-4015	15	3.7	5.0	125						109	107	105	101	97	91	81	68			
SP-4021	21	5.5	7.5	175						154	151	148	142	136	127	114	95			
SP-4025	25	5.5	7.5	207						183	179	175	169	161	151	136	113			
SP-4030	30	7.5	10	251						220	215	211	204	195	182	164	139			

\*Higher pressure, longer stages pumps up to 66 stages are available on request.



## Dimensions And Weights

Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C	Pump
SP-4004	370	RP/NPT 2"	98	3.8
SP-4005	412		98	4.3
SP-4007	496		98	5.3
SP-4009	580		98	6.3
SP-4012	706		98	7.8
SP-4015	832		98	9.3
SP-4021	1084		98	12.3
SP-4025	1252		98	14.3
SP-4030	1459		98	16.8

m diameter of pump inclusive of cable guard and motor

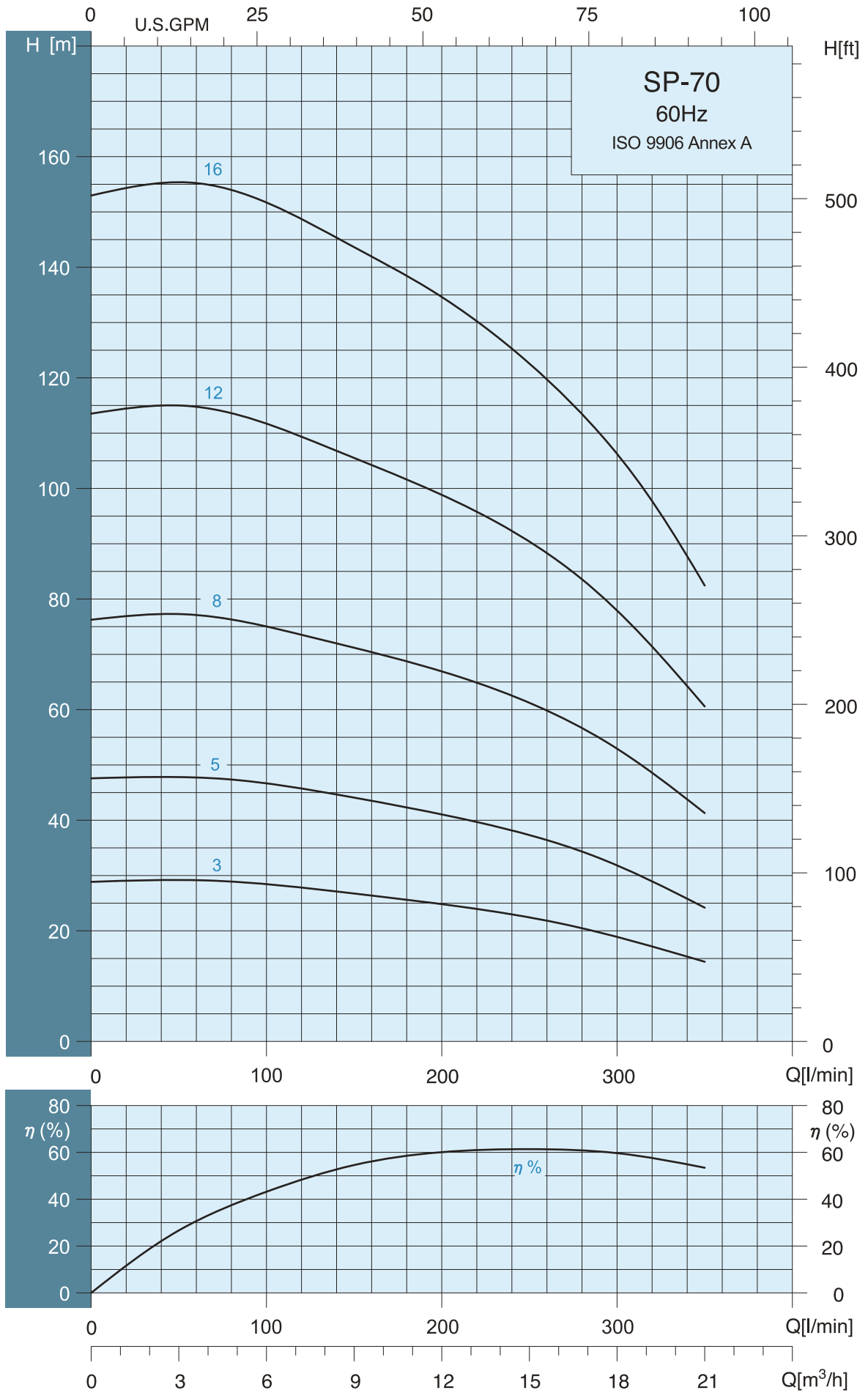
# Stairs SP Series



STAIRS PUMPS

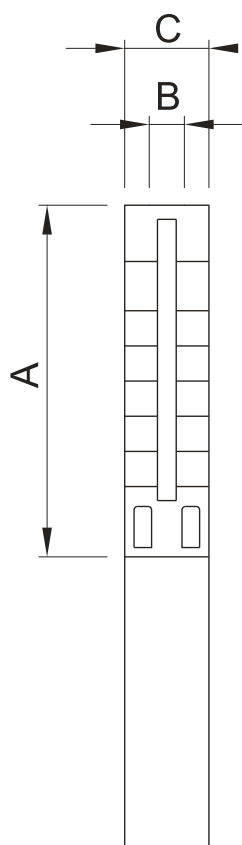
SP 4"

## SP70 Performance Curves



## Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 3450 rpm																
				l/min	70	80	90	100	120	140	160	180	200	250	300	350	380	420	460	500
				m <sup>3</sup> /h	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	15	18	21	23	25	28	30
H = TOTAL HEAD IN METERS																				
SP-7003	3	1.5	2.0	29						28	27	26	25	22	19	14				
SP-7005	5	2.2	3.0	48						45	44	42	41	37	32	24				
SP-7008	8	3.7	5.0	76						72	70	69	67	61	53	41				
SP-7012	12	5.5	7.5	114						107	104	102	99	90	78	61				
SP-7016	16	7.5	10	153						145	142	138	135	123	106	82				



## Dimensions And Weights

Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C	Pump
SP-7003	375	RP/NPT 2"	98	3.7
SP-7005	505		98	5.0
SP-7008	700		98	7.0
SP-7012	960		98	9.5
SP-7016	1220		98	12.1

C = Maximum diameter of pump inclusive of cable guard and motor

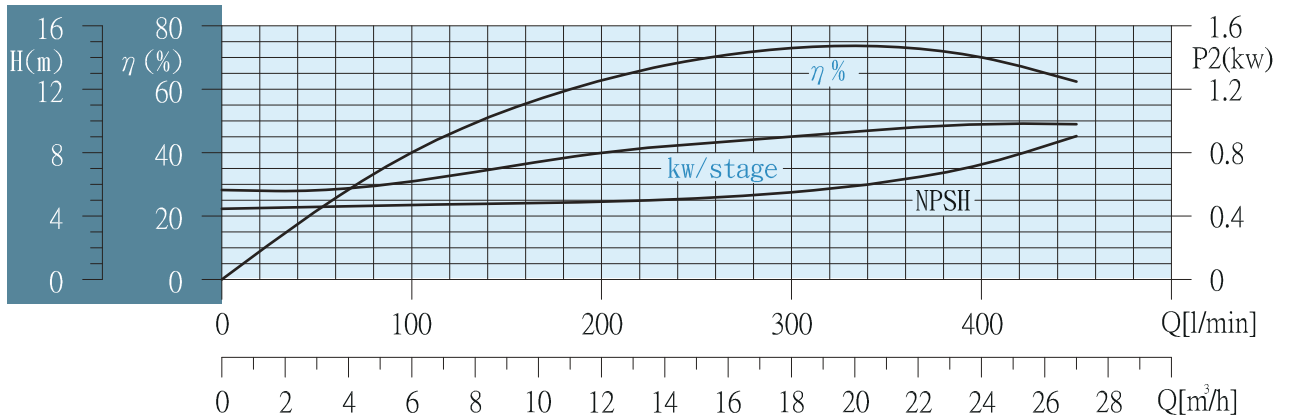
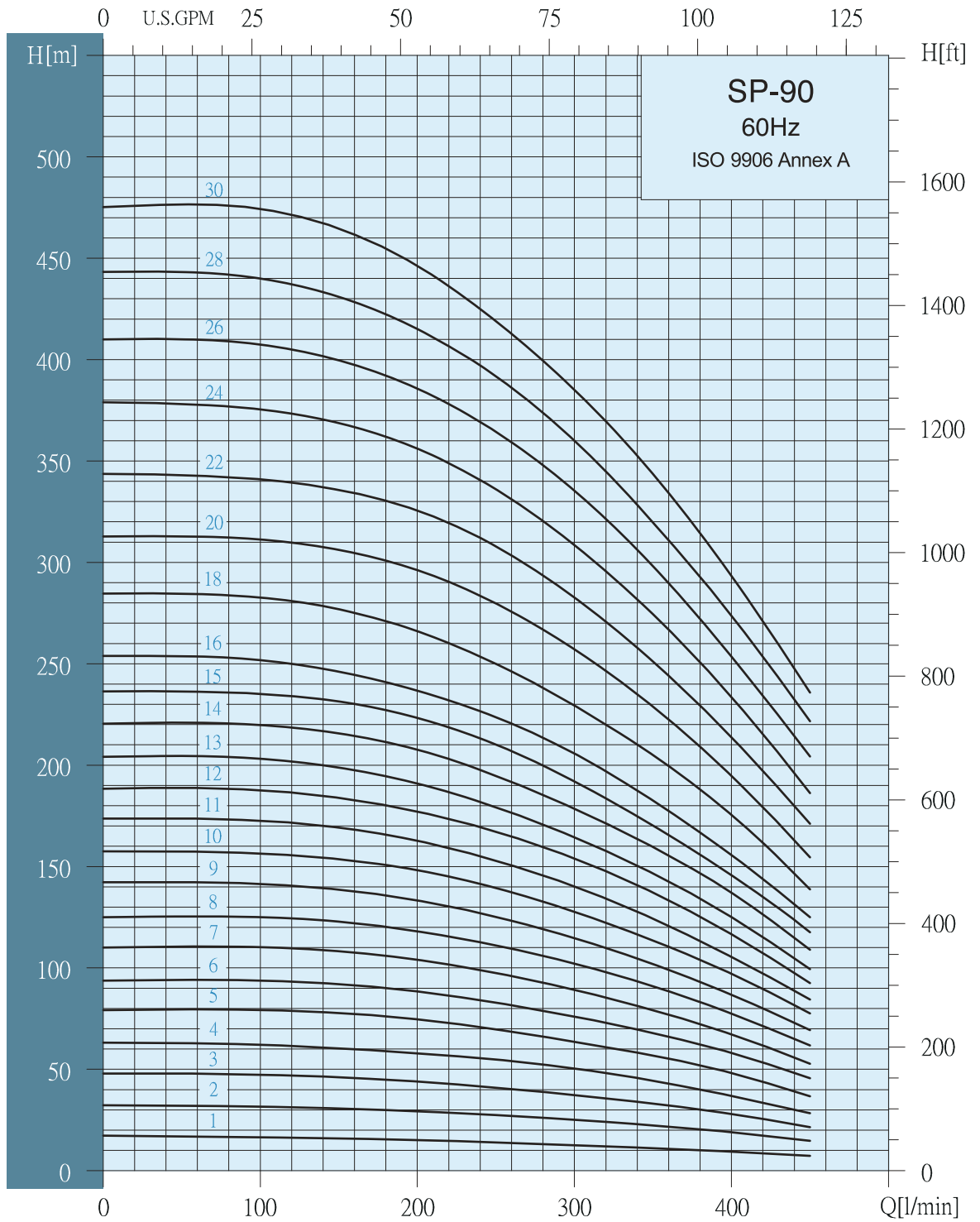
# Stairs SP Series



STAIRS PUMPS

SP 6"

## SP90 Performance Curves



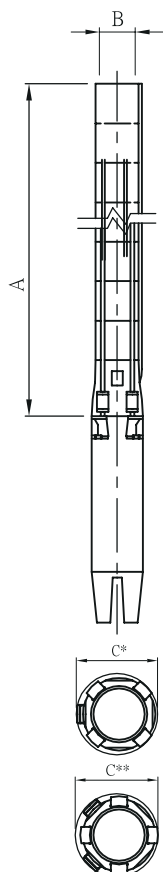


## Selection Chart

Pump Type	Motor		Max.current		m³/h l/min	Q capacity 3450 rpm							
	P2		Amp			6	9	12	15	18	21	24	27
	KW	HP	230V	380V		100	150	200	250	300	350	400	450
SP 90-1	1.1	1.5	5.9	3.6	HEAD IN METERS	17	15	14	13	12	11	9	8
SP 90-2	2.2	3	10.9	6.6		32	31	29	28	25	23	19	16
SP 90-3	3	4	14.1	8.5		48	47	44	41	38	33	28	22
SP 90-4	3.7	5	17.8	10.7		62	60	58	55	50	45	37	28
SP 90-5	5.5	7.5	24.6	14.9		79	78	75	70	63	57	48	37
SP 90-6	5.5	7.5	24.6	14.9		93	92	88	83	76	68	58	46
SP 90-7	7.5	10	32.2	19.5		110	108	103	98	89	79	68	53
SP 90-8	7.5	10	32.2	19.5		125	122	118	112	102	91	78	62
SP 90-9	7.5	10	32.3	19.5		141	138	133	125	115	102	88	70
SP 90-10	9.3	12.5	42.3	25.6		157	154	148	140	128	115	98	78
SP 90-11	9.3	12.5	42.3	25.6		172	169	162	153	140	125	106	84
SP 90-12	11	15	47.4	28.6		188	184	177	167	154	138	117	93
SP 90-13	11	15	47.4	28.6		203	199	190	179	165	147	125	100
SP 90-14	13	17.5	55	33.3		220	216	208	195	179	160	138	110
SP 90-15	13	17.5	55	33.3		235	231	223	210	192	170	146	119
SP 90-16	15	20	60.6	36.6		252	247	237	224	206	184	156	126
SP 90-18	15	20	60.6	36.6		283	277	266	250	230	205	176	140
SP 90-20	18.5	25	75	45		311	307	297	280	258	229	195	155
SP 90-22	18.5	25	75	45		341	336	325	308	282	251	214	170
SP 90-24	22	30	90.4	54.7		376	369	357	336	309	275	233	186
SP 90-26	22	30	90.4	54.7		408	400	386	365	336	298	253	205
SP 90-28	26	35	106.6	64.5		440	431	415	392	360	320	273	220
SP 90-30	26	35	106.6	64.5		473	465	446	420	385	343	293	236

\*Higher pressure, longer stages pumps up to 50 stages are available on request.

## Dimensions And Weights



Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C*	Pump
SP 90-1	343	RP 2 1/2" NPT 3"	131	5.0
SP 90-2	403		131	6.4
SP 90-3	464		131	7.9
SP 90-4	524		131	9.3
SP 90-5	585		131	10.8
SP 90-6	645		131	12.2
SP 90-7	706		142	13.7
SP 90-8	766		142	15.1
SP 90-9	827		142	16.6
SP 90-10	887		142	18.0
SP 90-11	948		142	19.5
SP 90-12	1008		142	20.9
SP 90-13	1069		142	22.4
SP 90-14	1129		142	23.8
SP 90-15	1190		142	25.3
SP 90-16	1250		142	26.7
SP 90-18	1371		142	29.6
SP 90-20	1492		142	32.5
SP 90-22	1613		142	35.4
SP 90-24	1734		142	38.3
SP 90-26	1855		142	41.2
SP 90-28	1976		142	44.1
SP 90-30	2097		142	47.0

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

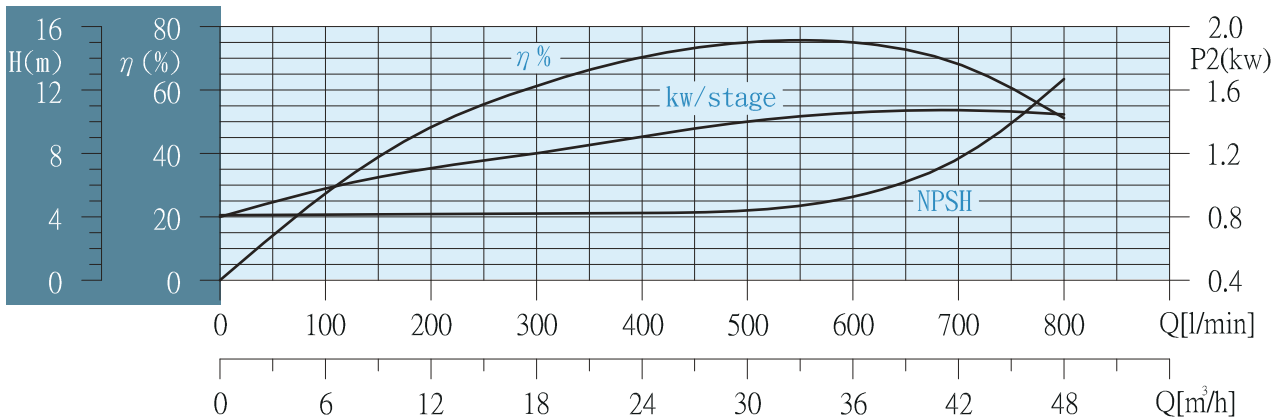
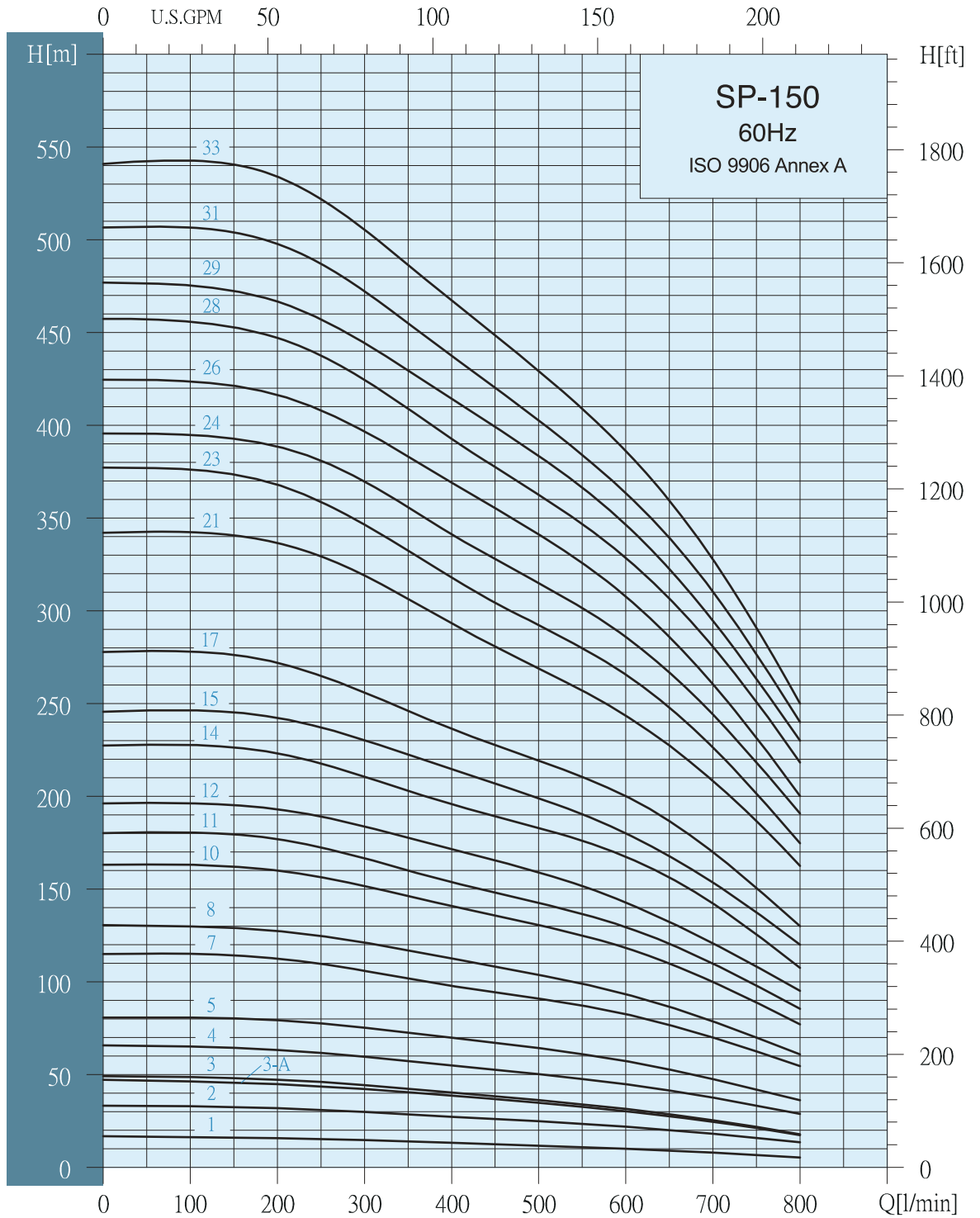
# Stairs SP Series



STAIRS PUMPS

SP 6"

## SP150 Performance Curves

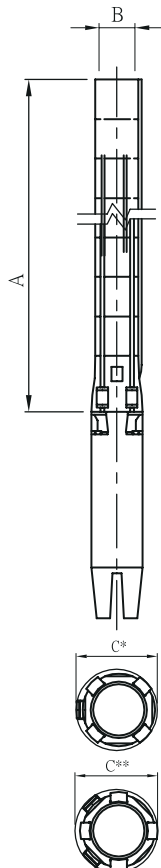


## Selection Chart

Pump Type	Motor		Max.current		Q capacity 3450 rpm													
	P2		Amp		m <sup>3</sup> /h l/min	12	15	18	21	24	27	30	33	36	39	42	45	48
	KW	HP	230V	380V		200	250	300	350	400	450	500	550	600	650	700	750	800
SP150-1	1.5	2	8.1	4.9	HEAD IN METERS	16	15.5	15	14	13.5	13	12	11	10	9	8	6	5
SP150-2	3	4	14.1	8.5		32	31	29	28	27	26	24	23	22	20	18	16	13
SP150-3-A	3.7	5	15.4	8.9		44	43	42	40	38	36	34	32	30	27	24	21	17
SP150-3	4	5.5	19.7	11.9		47	46	45	42	40	38	36	34	32	29	26	22	18
SP150-4	5.5	7.5	24.6	14.9		63	62	59	57	55	53	50	47	45	41	37	34	28
SP150-5	7.5	10	32.2	19.5		79	77	75	72	70	67	64	61	58	53	47	42	36
SP150-7	9.3	12.5	42.3	25.6		113	110	106	102	98	94	91	87	82	77	70	63	55
SP150-8	11	15	47.4	28.6		128	125	121	117	113	108	104	99	93	87	78	70	61
SP150-10	13	17.5	55	33.3		160	156	152	146	141	136	130	125	118	110	100	88	77
SP150-11	15	20	60.6	36.6		177	172	167	160	154	148	143	137	129	120	110	97	86
SP150-12	18.5	25	75	45		193	189	184	178	172	166	158	152	143	133	120	108	95
SP150-14	18.5	25	75	45		223	217	210	204	196	189	183	176	167	156	142	126	107
SP150-15	22	30	90.4	54.7		242	237	230	223	215	207	198	190	180	167	154	137	120
SP150-17	22	30	90.4	54.7		272	265	256	246	236	227	219	210	200	187	170	150	130
SP150-21	30	40	124	75		337	329	318	306	293	280	269	257	244	227	208	186	162
SP150-23	30	40	124	75		367	358	346	333	318	305	292	280	266	248	226	201	175
SP150-24	37	50	154	93		388	381	370	356	342	328	315	302	286	267	244	218	190
SP150-26	37	50	154	93		416	408	396	383	369	356	341	326	308	286	260	231	200
SP150-28	37	50	154	93		447	438	424	409	393	377	363	347	328	306	280	250	218
SP150-29	45	60	182	110		466	457	445	429	414	399	383	367	346	322	295	263	230
SP150-31	45	60	182	110		497	487	472	455	437	420	403	384	363	340	310	276	240
SP150-33	45	60	182	110		535	522	505	486	467	449	429	409	386	360	327	290	250

\*Higher pressure, longer stages pumps up to 39 stages are available on request.

## Dimensions And Weights



Pump Type	Dimensions(mm)				Net Weight(Kg) Pump
	A	B	C*	C**	
SP150-1	366	NPT/ RP3"	131		6.7
SP150-2	462		131		8.4
SP150-3-A	558		131		10.1
SP150-3	558		131		10.1
SP150-4	654		131		11.8
SP150-5	750		142	142	13.5
SP150-7	942		142	142	16.9
SP150-8	1038		142	142	18.6
SP150-10	1230		142	142	22.0
SP150-11	1326		142	142	23.6
SP150-12	1422		142	142	25.3
SP150-14	1614		142	142	28.7
SP150-15	1710		142	142	30.4
SP150-17	1902		142	142	33.8
SP150-21	2286		142	142	40.6
SP150-23	2478		142	142	44.0
SP150-24	2574		142	142	45.6
SP150-26	2766		142	142	49.0
SP150-28	2958		142	142	52.4
SP150-29	3054		142	142	54.1
SP150-31	3246		142	142	57.5
SP150-33	3438		142	142	60.9

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

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

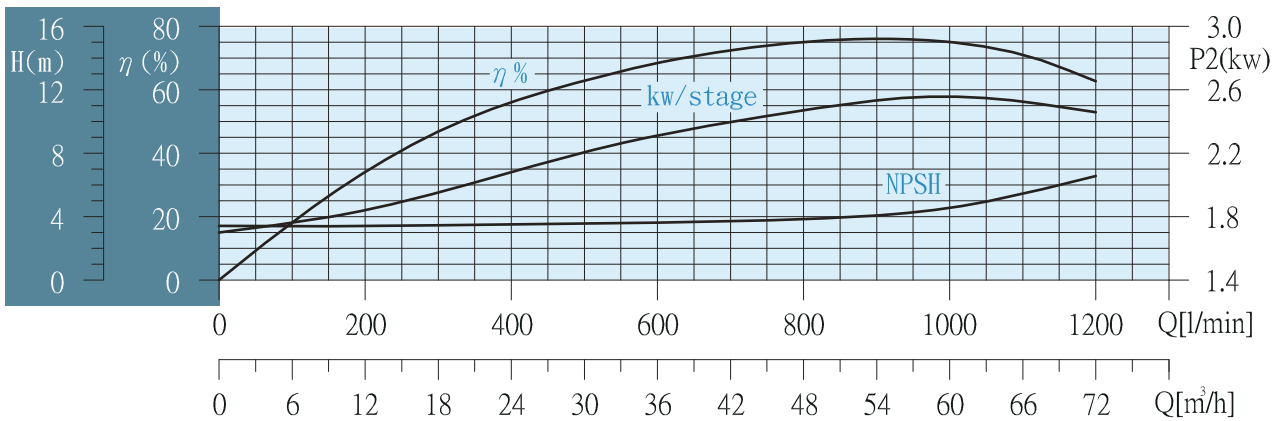
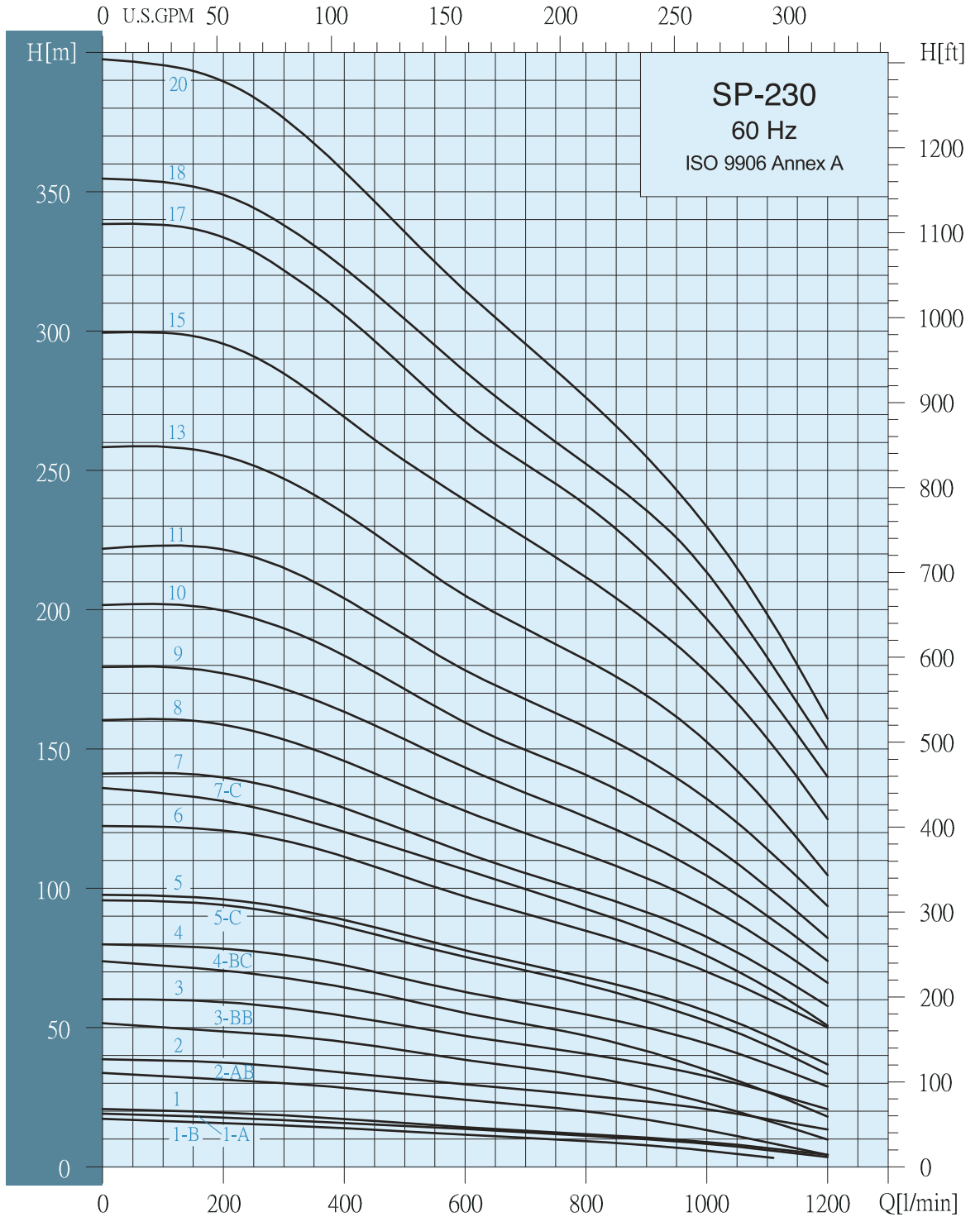
# Stairs SP Series



STAIRS PUMPS

SP 6"

## SP230 Performance Curves

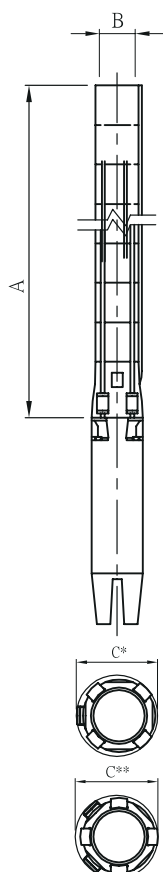


## Selection Chart

Pump Type	Motor		Max.current		Q capacity 3450 rpm													
	P2		Amp		m³/h l/min	18	21	24	27	30	33	36	42	48	54	60	66	72
	KW	HP	230V	380V		300	350	400	450	500	550	600	700	800	900	1000	1100	1200
SP230-1-B	1.5	2	8.1	4.9	HEAD IN METERS	15	14.5	14	13	12.5	12	11	10	9	8	6	3	
SP230-1-A	2.2	3	10.9	6.6		17	16.5	16	15.5	15	14.5	14	13	11	10	8	6	3
SP230-1	3	4	14.1	8.5		18	17.5	17	16.5	16	15	14	13	12	11	8	6	4
SP230-2-AB	3.7	5	17.8	10.7		30	29	28	27	26	25	24	22	20	17	13	8	4
SP230-2	5.5	7.5	24.6	14.9		36	35	34	33	32	31	29	27	26	24	21	17	13
SP230-3-BB	5.5	7.5	24.6	14.9		47	46	45	43	42	40	38	35	32	28	23	16	10
SP230-3	7.5	10	32.2	19.5		57	56	54	53	51	48	47	44	40	37	33	27	21
SP230-4-BC	7.5	10	32.2	19.5		68	67	64	62	60	58	55	51	47	41	35	27	18
SP230-4	9.3	12.5	42.3	25.6		76	74	72	70	67	65	63	58	55	50	44	37	28
SP230-5-C	11	15	47.4	28.6		91	88	85	83	81	78	75	70	65	59	52	43	34
SP230-5	13	17.5	55	33.3		93	91	88	86	83	81	77	73	68	63	56	47	37
SP230-6	15	20	60.6	36.6		117	114	112	108	104	100	97	91	85	77	70	60	50
SP230-7C	15	20	60.6	36.6		126	123	120	117	114	110	107	99	93	85	76	65	51
SP230-7	18.5	25	75	45		136	133	128	125	121	117	113	106	98	92	83	71	57
SP230-8	18.5	25	75	45		153	150	146	141	137	132	127	120	113	104	94	80	66
SP230-9	22	30	90.4	54.7		172	167	163	158	154	148	143	135	126	116	105	90	74
SP230-10	22	30	90.4	54.7		194	188	184	177	172	165	159	150	141	130	117	100	83
SP230-13	30	40	124	75		247	242	235	227	220	213	205	193	182	168	153	130	105
SP230-15	37	50	154	93		285	277	269	261	254	246	239	226	212	196	177	154	125
SP230-17	37	50	154	93		322	315	306	296	287	277	267	252	237	219	197	170	140
SP230-18	45	60	182	110	337	331	323	314	305	295	286	268	252	236	214	183	150	
SP230-20	45	60	182	110	376	367	357	346	335	325	315	295	276	255	230	198	161	

\*Higher pressure, longer stages pumps up to 24 stages are available on request.

## Dimensions And Weights



Pump Type	Dimensions(mm)				Net Weight(Kg)
	A	B	C*	C**	Pump
SP230-1-B	383	NPT/ RP 3"OR4"	146	148	6.9
SP230-1-A	383		146	148	6.9
SP230-1	383		146	148	6.9
SP230-2-AB	496		146	148	9.2
SP230-2	496		146	148	9.2
SP230-3-BB	609		146	148	11.5
SP230-3	609		149	152	11.5
SP230-4-BC	722		149	152	13.7
SP230-4	722		149	152	13.7
SP230-5-C	835		149	152	16.0
SP230-5	835		149	152	16.0
SP230-6	948		149	152	18.3
SP230-7-C	1061		149	152	20.6
SP230-7	1061		149	152	20.6
SP230-8	1174		149	152	22.9
SP230-9	1287		149	152	25.1
SP230-10	1400		149	152	27.4
SP230-13	1739		149	152	34.3
SP230-15	1965		149	152	38.8
SP230-17	2191		149	152	43.4
SP230-18	2304	149	152	45.7	
SP230-20	2530	149	152	50.2	

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

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

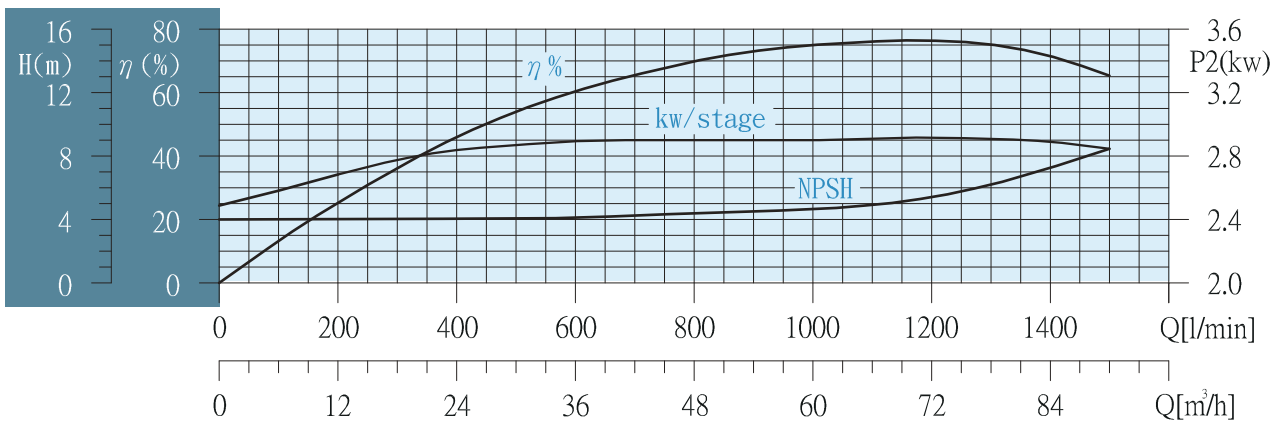
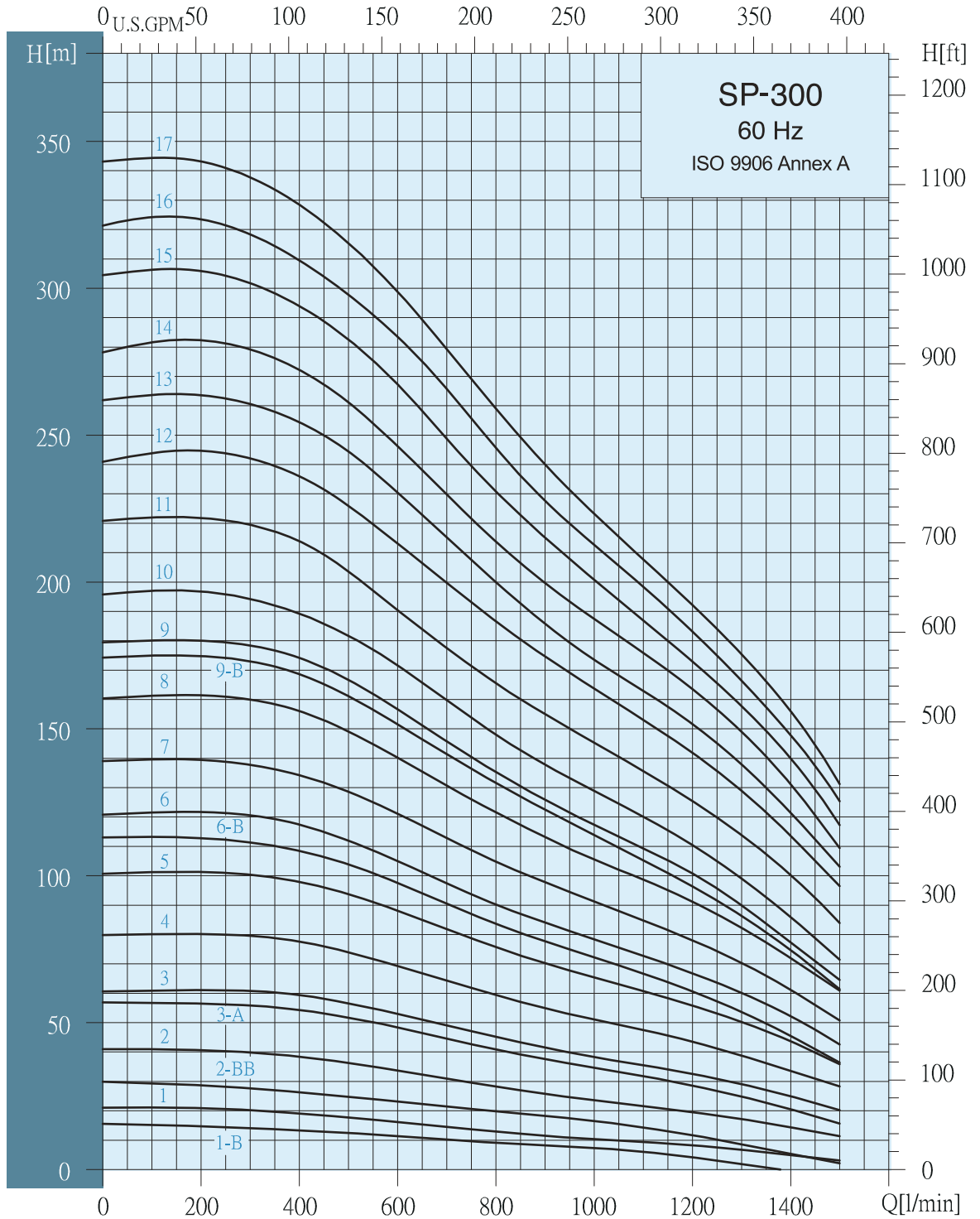
# Stairs SP Series



STAIRS PUMPS

SP 6"

## SP300 Performance Curves

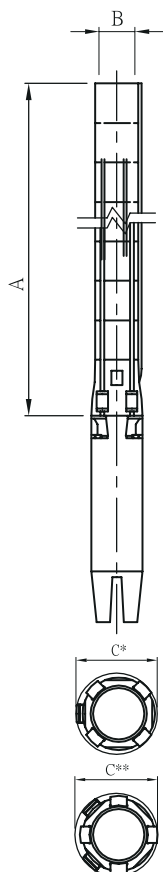


## Selection Chart

Pump Type	Motor		Max.current		Q capacity 3450 rpm													
	P2		Amp		m³/h	24	27	30	36	42	48	54	60	66	72	78	84	90
	KW	HP	230V	380V	l/min	400	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500
SP300-1-B	2.2	3	10.9	6.3	HEAD IN METERS	14	13	12	11	10	9	8	7	6	4	2	0	0
SP300-1	3.7	5	17.8	10.7		19	18	17	16	14	13	11	10	9	8	7	4	3
SP300-2-BB	3.7	5	17.8	10.7		26	25	24	23	22	20	18	17	14	12	8	5	2
SP300-2	5.5	7.5	24.6	14.9		38	37	36	34	31	28	26	24	22	19	17	15	11
SP300-3-A	7.5	10	32.2	19.5		54	53	52	48	44	41	38	35	32	28	25	21	16
SP300-3	9.3	12.5	42.3	25.6		59	58	57	53	49	46	42	38	36	33	29	25	20
SP300-4	11	15	47.4	28.6		77	76	74	69	65	59	55	51	47	44	39	34	28
SP300-5	13	17.5	55	33.3		98	96	94	88	82	76	70	66	61	56	50	44	36
SP300-6-B	15	20	60.6	36.6		108	106	104	97	90	84	77	72	66	60	54	46	37
SP300-6	18.5	25	75	45		117	115	112	105	97	90	84	78	73	67	60	52	43
SP300-7	18.5	25	75	45		134	132	129	121	113	106	98	91	85	78	70	61	51
SP300-8	22	30	90.4	54.7		156	153	149	140	131	122	113	106	98	91	83	72	61
SP300-9-B	22	30	90.4	54.7		168	165	161	152	142	132	123	114	105	96	86	75	62
SP300-9	26	35	106.6	64.5		174	171	167	157	146	136	126	117	109	101	90	77	65
SP300-10	26	35	106.6	64.5		189	186	182	172	160	148	138	129	120	110	99	86	72
SP300-11	30	40	124	75		214	209	204	190	177	166	155	146	136	126	114	100	84
SP300-12	37	50	154	93		236	232	226	213	200	187	175	164	153	142	129	114	97
SP300-13	37	50	154	93	255	250	245	230	215	200	186	174	163	152	138	121	104	
SP300-14	37	50	154	93	272	267	261	246	230	214	200	187	176	163	149	131	109	
SP300-15	45	60	182	110	294	289	283	267	249	230	215	200	187	173	158	140	118	
SP300-16	45	60	182	110	309	304	297	283	266	246	228	212	198	183	166	148	126	
SP300-17	45	60	182	110	328	322	316	299	279	259	240	223	208	192	175	157	131	

\*Higher pressure, longer stages pumps up to 21 stages are available on request.

## Dimensions And Weights



Pump Type	Dimensions(mm)				Net Weight(Kg)
	A	B	C*	C**	Pump
SP300-1-B	383	NPT/ RP 3"OR4"	146	148	6.9
SP300-1	383		146	148	6.9
SP300-2-BB	496		146	148	9.2
SP300-2	496		146	148	9.2
SP300-3-A	609		149	152	11.5
SP300-3	609		149	152	11.5
SP300-4	722		149	152	13.7
SP300-5	835		149	152	16.0
SP300-6-B	948		149	152	18.3
SP300-6	948		149	152	18.3
SP300-7	1061		149	152	20.6
SP300-8	1174		149	152	22.9
SP300-9-B	1287		149	152	25.1
SP300-9	1287		149	152	25.1
SP300-10	1400		149	152	27.4
SP300-11	1513		149	152	29.7
SP300-12	1626		149	152	32.0
SP300-13	1739	149	152	34.3	
SP300-14	1852	149	152	36.5	
SP300-15	1965	149	152	38.8	
SP300-16	2078	149	152	41.1	
SP300-17	2191	149	152	43.4	

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

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

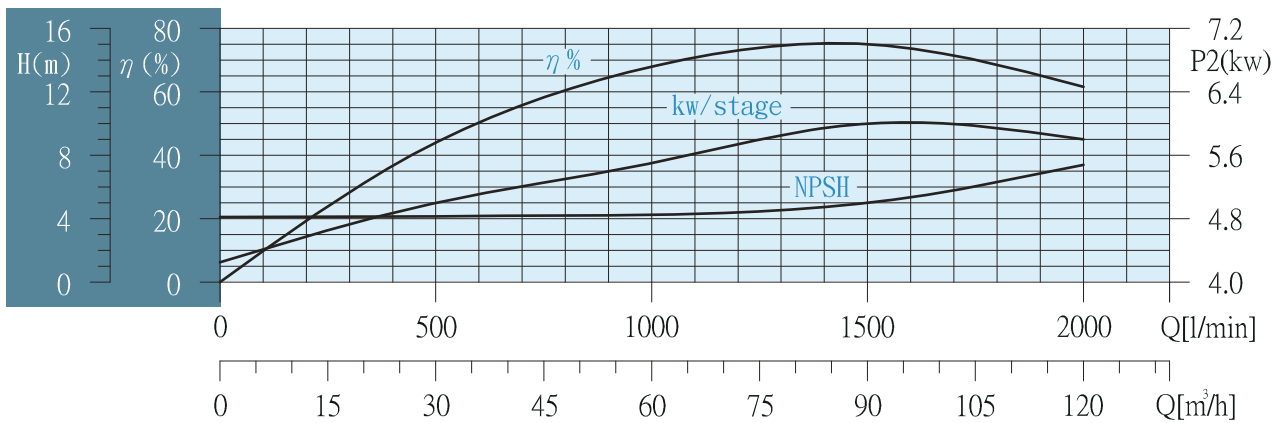
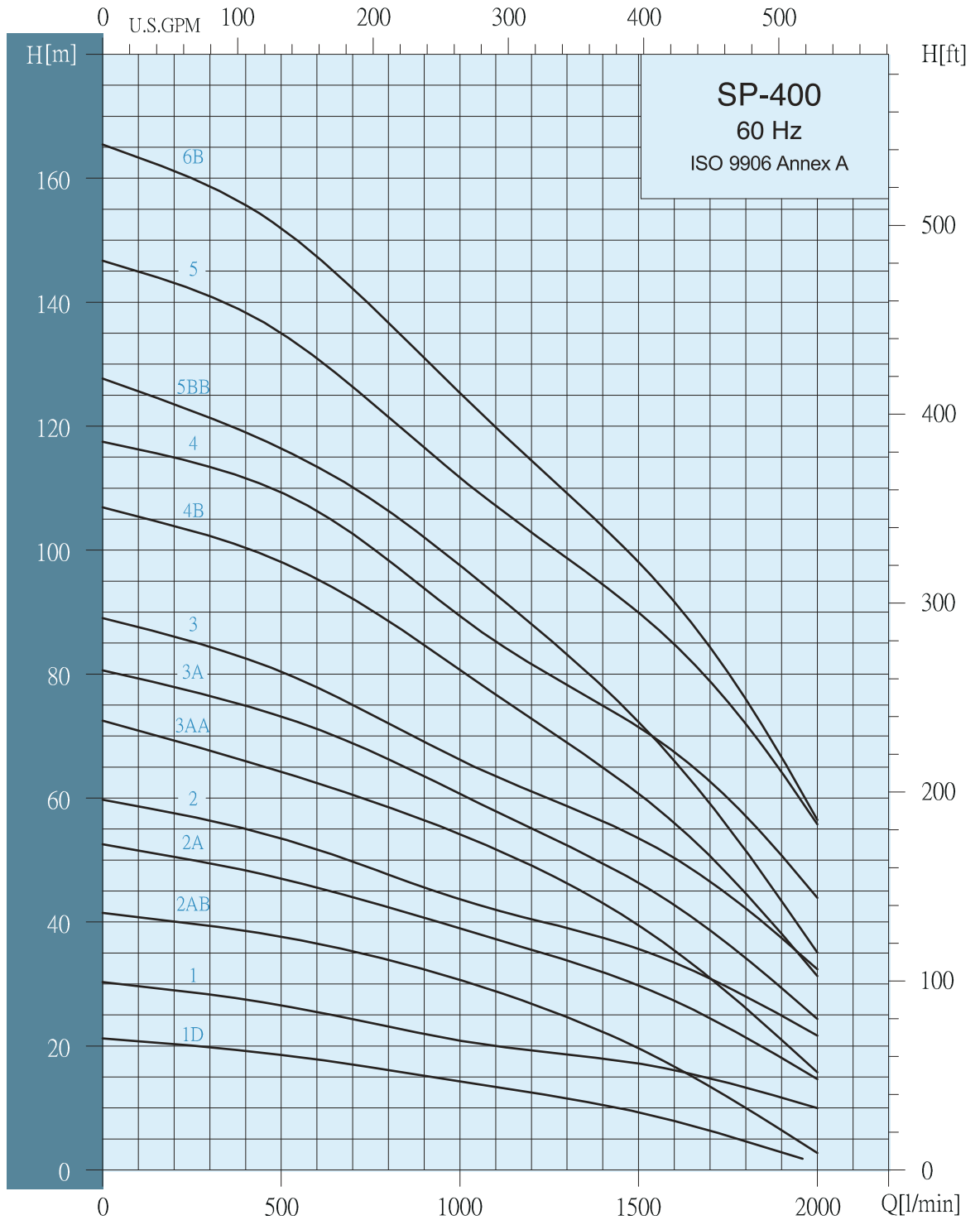
# Stairs SP Series



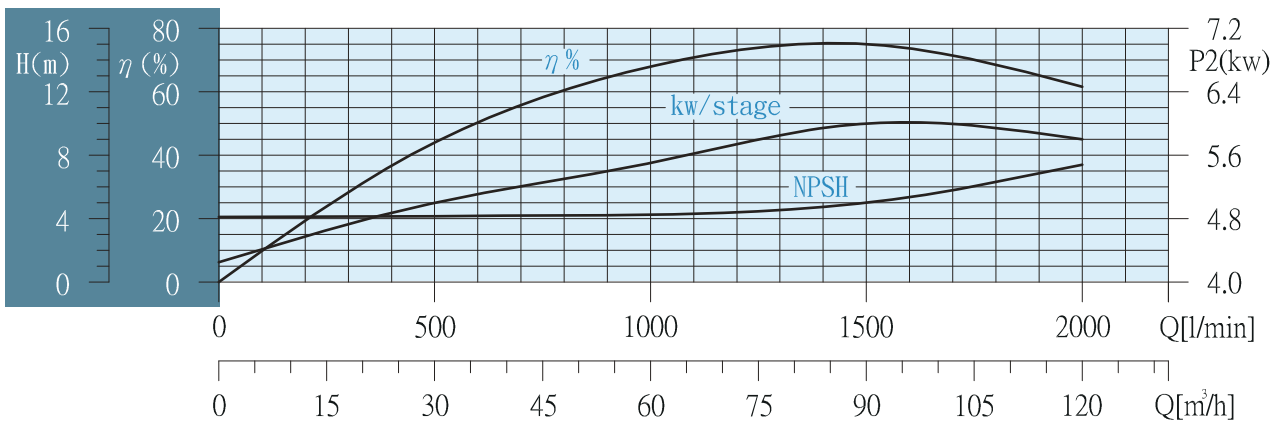
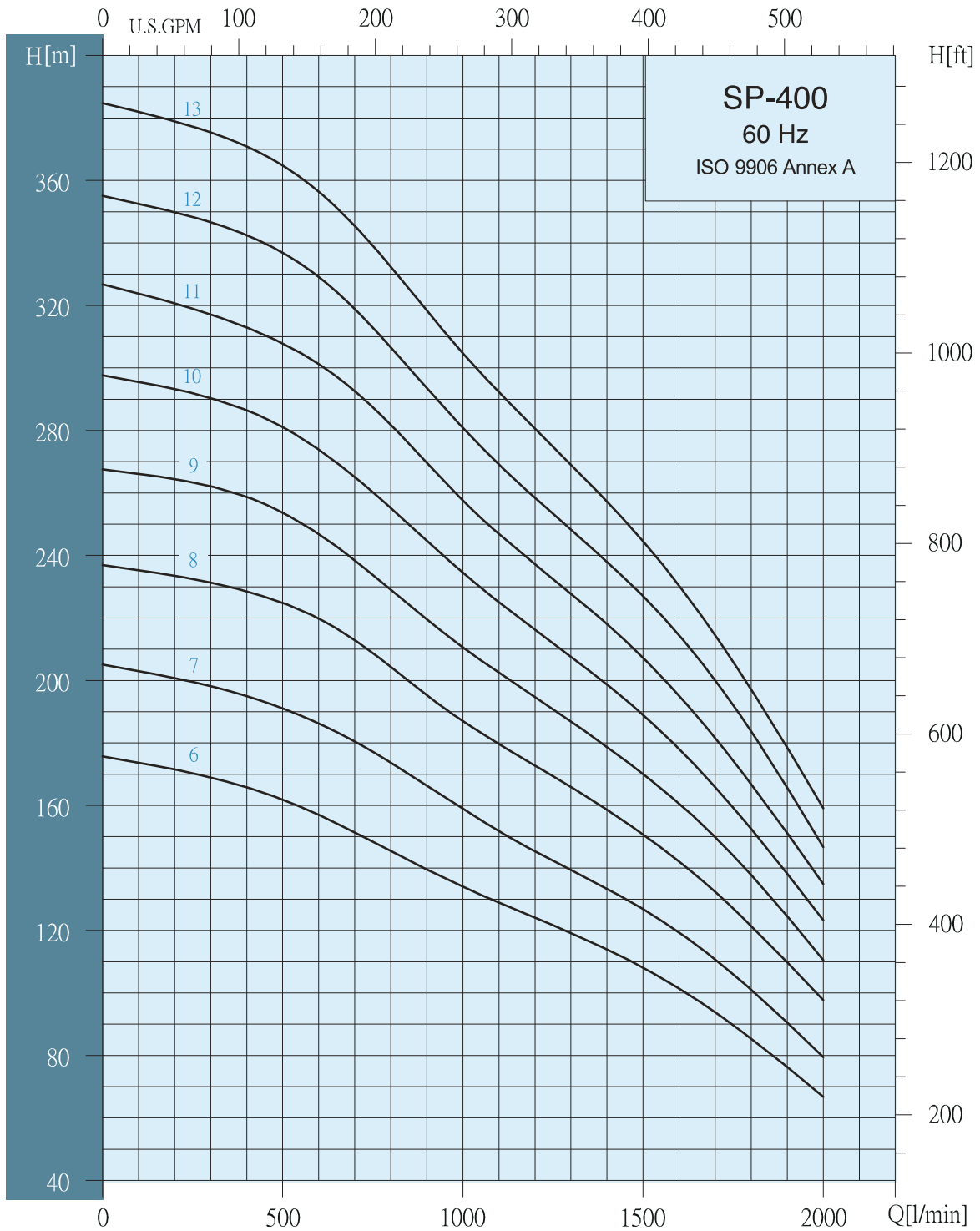
STAIRS PUMPS

SP 8"

## SP400 Performance Curves







# Stairs SP Series



STAIRS PUMPS

SP 8"

SP400

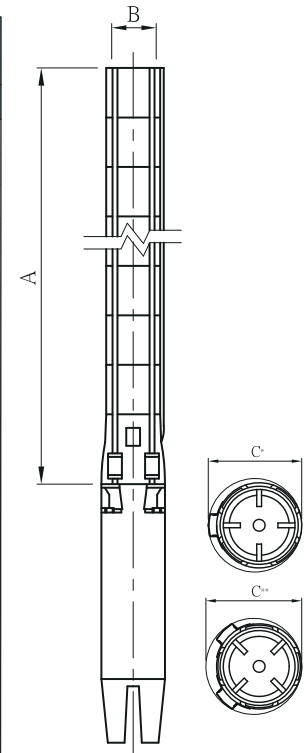
## Selection Chart

Pump Type	Motor		Max.current		m³/h l/min	Q capacity 3450 rpm											
	P2		Amp			18	24	30	36	42	48	60	72	84	96	108	120
	KW	HP	230V	380V		300	400	500	600	700	800	1000	1200	1400	1600	1800	2000
SP 400-1	5.5	7.5	24.6	15	HEAD IN METERS	28	27	26	25	24	23	21	19	18	16	13	10
SP 400-2-AB	7.5	10	32.2	19.5		39	38	37	36	35	34	31	27	22	17	10	3
SP 400-2-A	9.3	12.5	42.3	25.6		49	48	47	46	44	42	39	36	32	27	21	15
SP 400-2	11	15	47.4	28.6		56	55	54	52	50	47	44	40	37	33	28	22
SP 400-3-AA	13	17.5	55	33.3		68	66	64	62	60	58	54	49	43	35	26	16
SP 400-3-A	15	20	60.6	36.6		76	75	73	71	69	66	61	55	50	43	34	25
SP 400-3	18.5	25	75	45		84	83	80	78	75	72	66	61	56	50	42	33
SP 400-4-B	18.5	25	75	45		102	100	98	95	92	88	80	73	65	56	45	32
SP 400-4	22	30	90.4	54.7		113	112	109	106	103	98	89	82	75	68	57	44
SP 400-5-BB	22	30	90.4	54.7		122	119	116	114	110	106	97	88	78	66	51	35
SP 400-5	26	35	106.6	64.5		141	138	135	131	126	121	112	103	95	85	72	56
SP 400-6-B	30	40	124	75		158	156	152	147	142	136	125	115	104	92	76	57
SP 400-6	37	50	154	93		169	166	162	157	151	146	134	124	114	101	86	67
SP 400-7	37	50	154	93	198	195	191	186	180	174	159	146	133	120	101	80	
SP 400-8	45	60	172	104	231	228	225	220	213	204	187	172	159	141	121	98	
SP 400-9	55	75	214	130	262	259	254	247	238	229	210	195	179	160	138	110	
SP 400-10	55	75	214	130	290	287	281	274	265	255	235	217	199	178	152	123	
SP 400-11	63	85	266	161	317	313	308	301	293	282	258	237	218	196	168	135	
SP 400-12	63	85	266	161	347	342	337	330	319	307	280	259	238	215	183	147	
SP 400-13	75	100	284	172	375	370	365	357	346	332	305	280	258	230	198	160	

\*Higher pressure, longer stages pumps up to 15 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-AB	746	178	186	746	200	200	28.7
SP 400-2-A	746	178	186	746	200	200	28.7
SP 400-2	746	178	186	746	200	200	28.7
SP 400-3-AA	874	178	186	874	200	200	32.3
SP 400-3-A	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-BB	1131	178	186	1131	200	200	39.5
SP 400-5	1131	178	186	1131	200	200	39.5
SP 400-6-B	1259	178	186	1259	200	200	43.0
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	1527	200	204	1527	205	205	51.6
SP 400-9	1655	200	204	1655	205	205	55.2
SP 400-10	1783	200	204	1783	205	205	58.8
SP 400-11	1911	200	204	1911	205	205	62.4
SP 400-12	2039	200	204	2039	205	205	66.0
SP 400-13	2168	200	204	2168	205	205	69.6



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

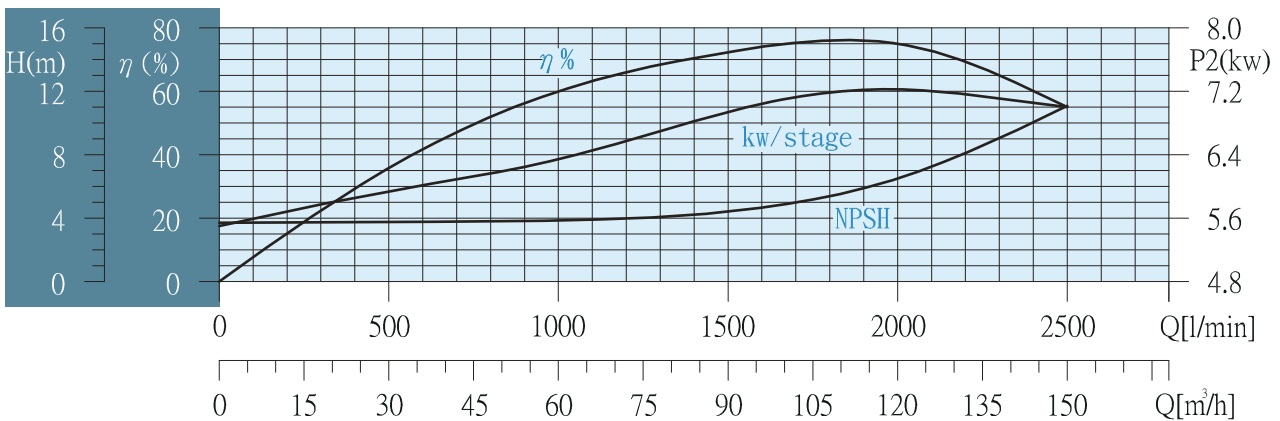
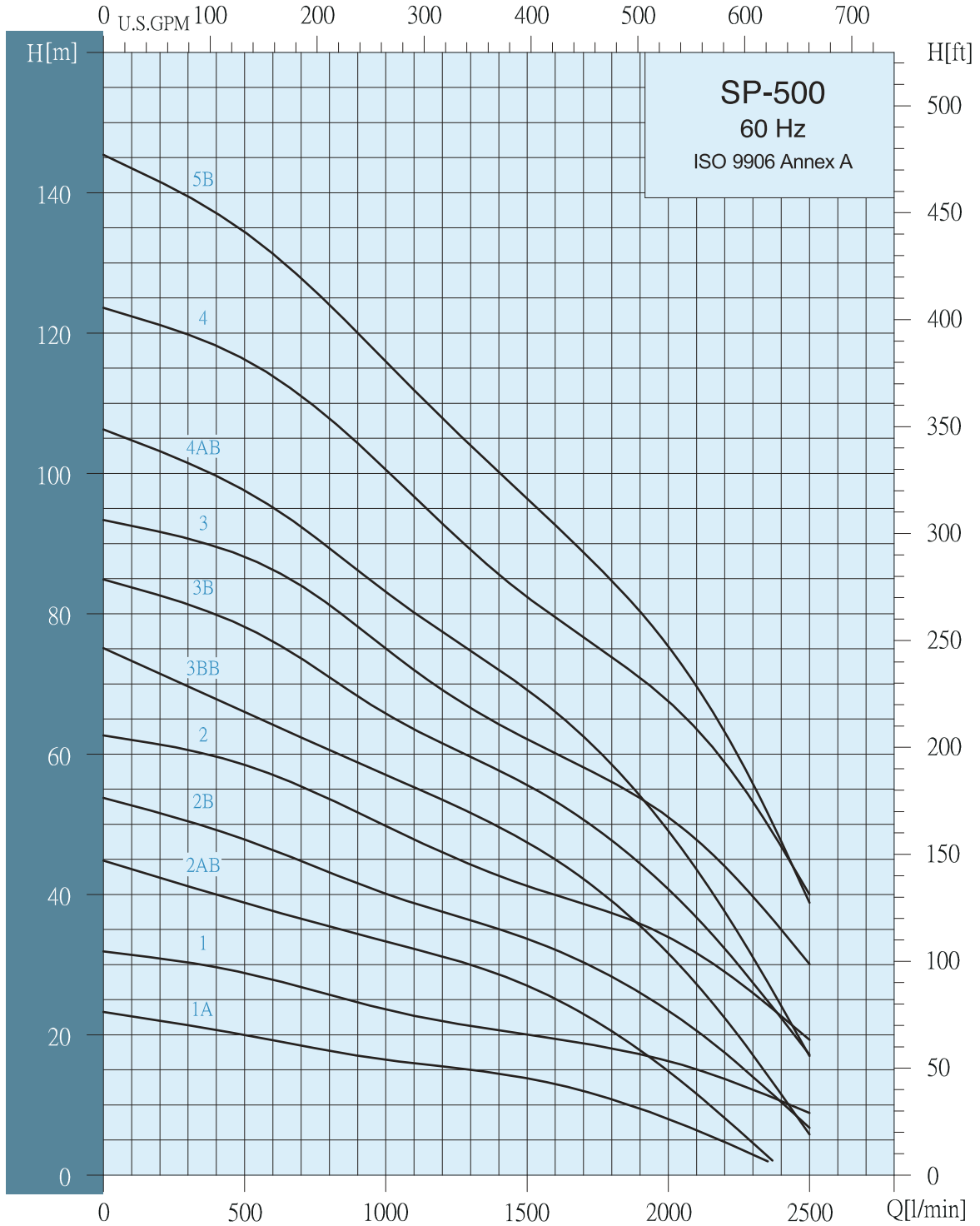
# Stairs SP Series



STAIRS PUMPS

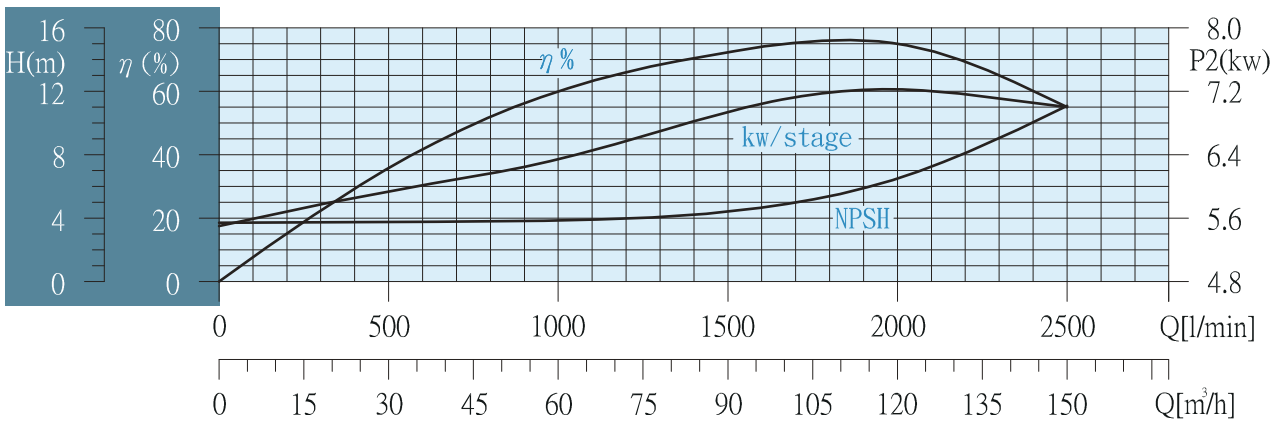
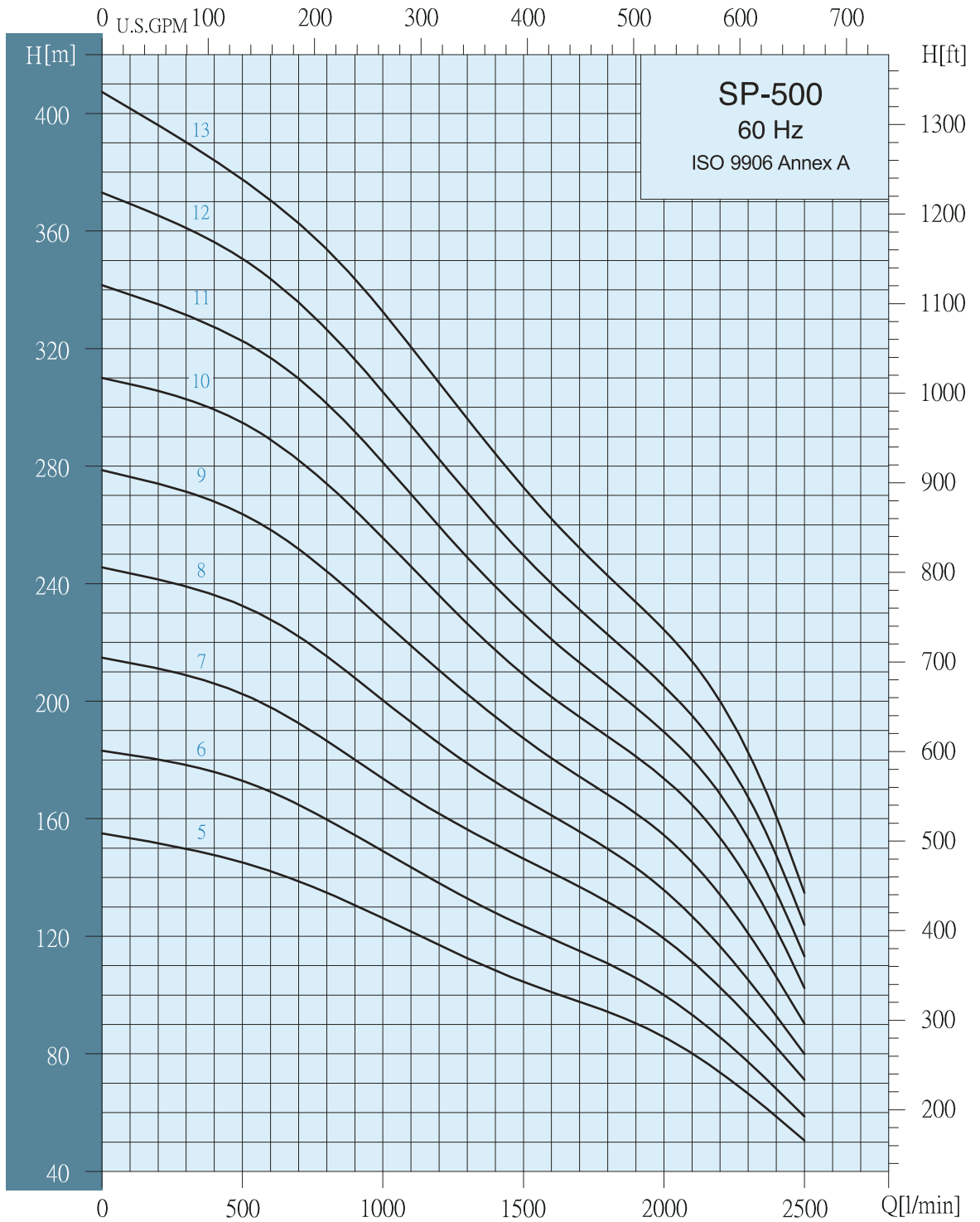
SP 8"

## SP500 Performance Curves





STAIRS PUMPS





SP 8"

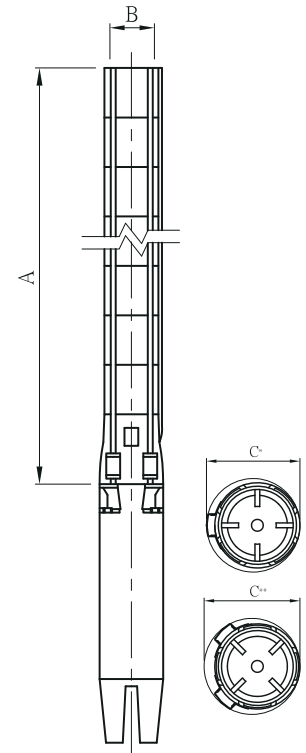
**SP500**

## Selection Chart

Pump Type	Motor		Max.current		m³/h l/min	Q capacity 3450 rpm											
	P2		Amp			18	30	42	54	66	78	90	102	114	126	138	150
	KW	HP	230V	380V		300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500
SP 500-1-A	5.5	7.5	24.6	15	HEAD IN METERS	21	20	18	17	16	15	14	12	9	6	3	
SP 500-1	7.5	10	32.2	19.5		30	29	26	25	23	21	20	19	17	15	12	9
SP 500-2-AB	9.3	12.5	42.3	25.6		41	39	36	34	32	30	27	23	18	12	5	
SP 500-2-B	11	15	47.4	28.6		50	48	45	42	39	36	34	30	26	20	14	7
SP 500-2	13	17.5	55	33.3		60	58	55	51	48	44	41	38	36	32	26	19
SP 500-3-BB	15	20	60.6	36.6		70	66	62	59	55	51	47	42	35	27	17	6
SP 500-3-B	18.5	25	75	45		81	78	74	68	64	60	55	51	45	37	27	17
SP 500-3	22	30	90.4	54.7		91	88	84	78	72	66	62	58	54	48	40	30
SP 500-4-AB	22	30	90.4	54.7		102	97	92	86	80	75	69	63	54	44	31	17
SP 500-4	26	35	106.6	64.5		120	116	111	105	97	89	82	77	71	64	53	40
SP 500-5-B	30	40	124	75		140	135	128	120	112	104	96	89	80	70	55	39
SP 500-5	37	50	154	93		150	145	139	130	121	112	105	98	90	80	67	50
SP 500-6	37	50	154	93		178	172	165	154	143	132	123	115	106	93	77	59
SP 500-7	45	60	172	104	209	202	192	180	167	156	147	137	126	111	92	71	
SP 500-8	55	75	214	130	239	232	221	208	192	179	167	156	143	127	105	80	
SP 500-9	63	85	266	161	271	263	251	236	220	201	188	174	161	145	120	90	
SP 500-10	63	85	266	161	302	295	281	265	246	227	210	194	180	165	140	103	
SP 500-11	75	100	284	172	331	322	310	291	270	250	230	213	198	180	153	114	
SP 500-12	93	125	376	228	360	350	336	316	294	270	250	231	214	195	168	124	
SP 500-13	93	125	376	228	390	378	362	344	320	296	272	252	233	213	182	136	

## 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-A	618	179	183	618	200	200	25.1
SP 500-1	618	179	183	618	200	200	25.1
SP 500-2-AB	746	179	183	746	200	200	28.7
SP 500-2-B	746	179	183	746	200	200	28.7
SP 500-2	746	179	183	746	200	200	28.7
SP 500-3-BB	874	179	183	874	200	200	32.3
SP 500-3-B	874	179	183	874	200	200	32.3
SP 500-3	874	179	183	874	200	200	32.3
SP 500-4-AB	1003	179	183	1003	200	200	35.9
SP 500-4	1003	179	183	1003	200	200	35.9
SP 500-5-B	1131	179	183	1131	200	200	39.5
SP 500-5	1131	179	183	1131	200	200	39.5
SP 500-6	1259	179	183	1259	200	200	43.0
SP 500-7	1398	205	205	1398	200	202	48.0
SP 500-8	1527	205	205	1527	200	202	51.6
SP 500-9	1655	205	205	1655	200	202	55.2
SP 500-10	1783	205	205	1783	200	202	58.8
SP 500-11	1911	205	205	1911			62.4
SP 500-12	2039	205	205	2039			66.0
SP 500-13	2168	205	205	2168			69.6



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

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

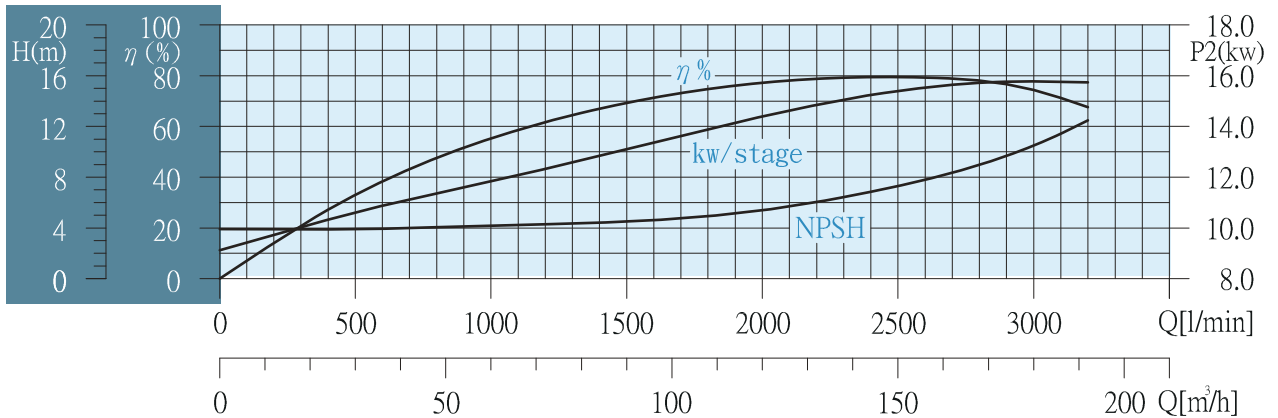
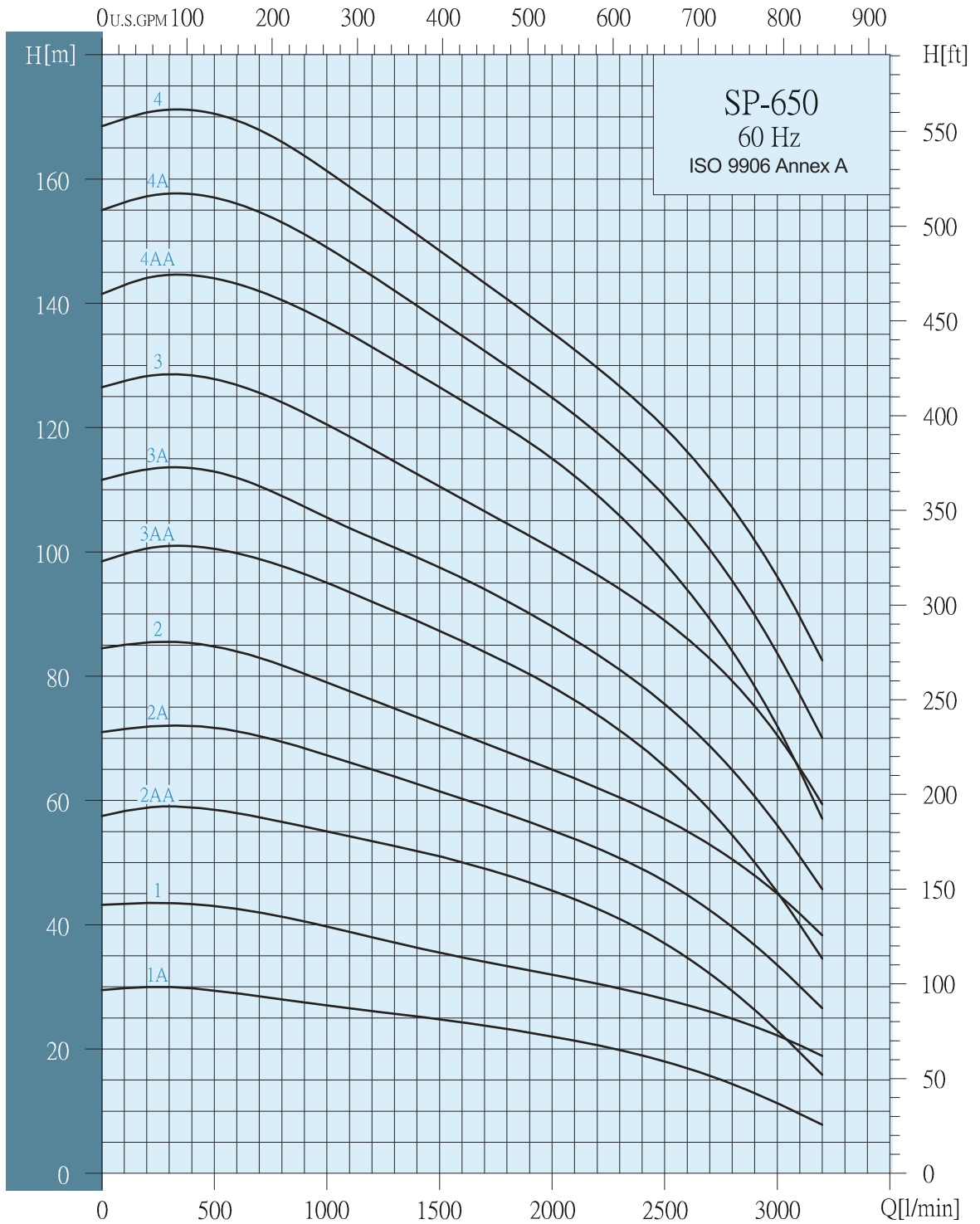
# Stairs SP Series



STAIRS PUMPS

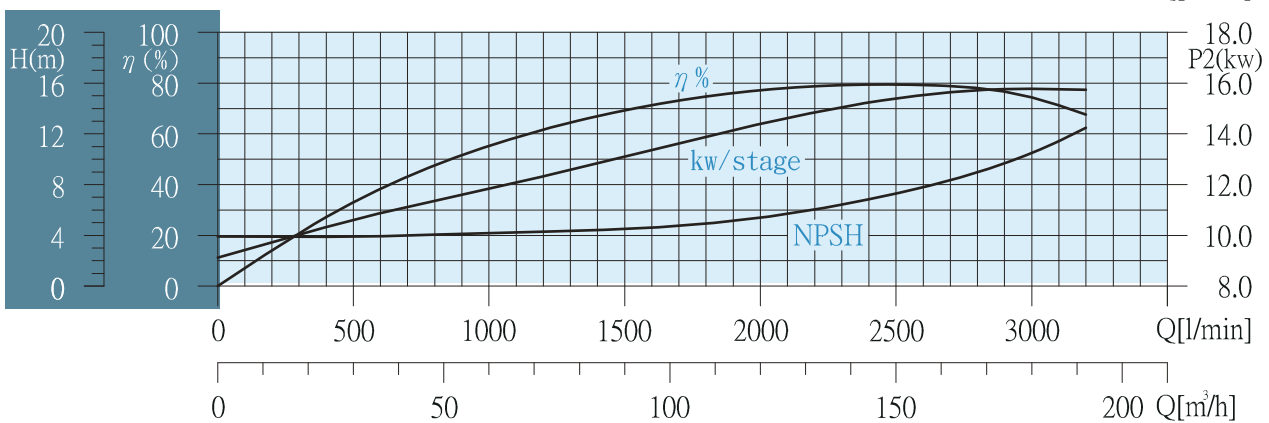
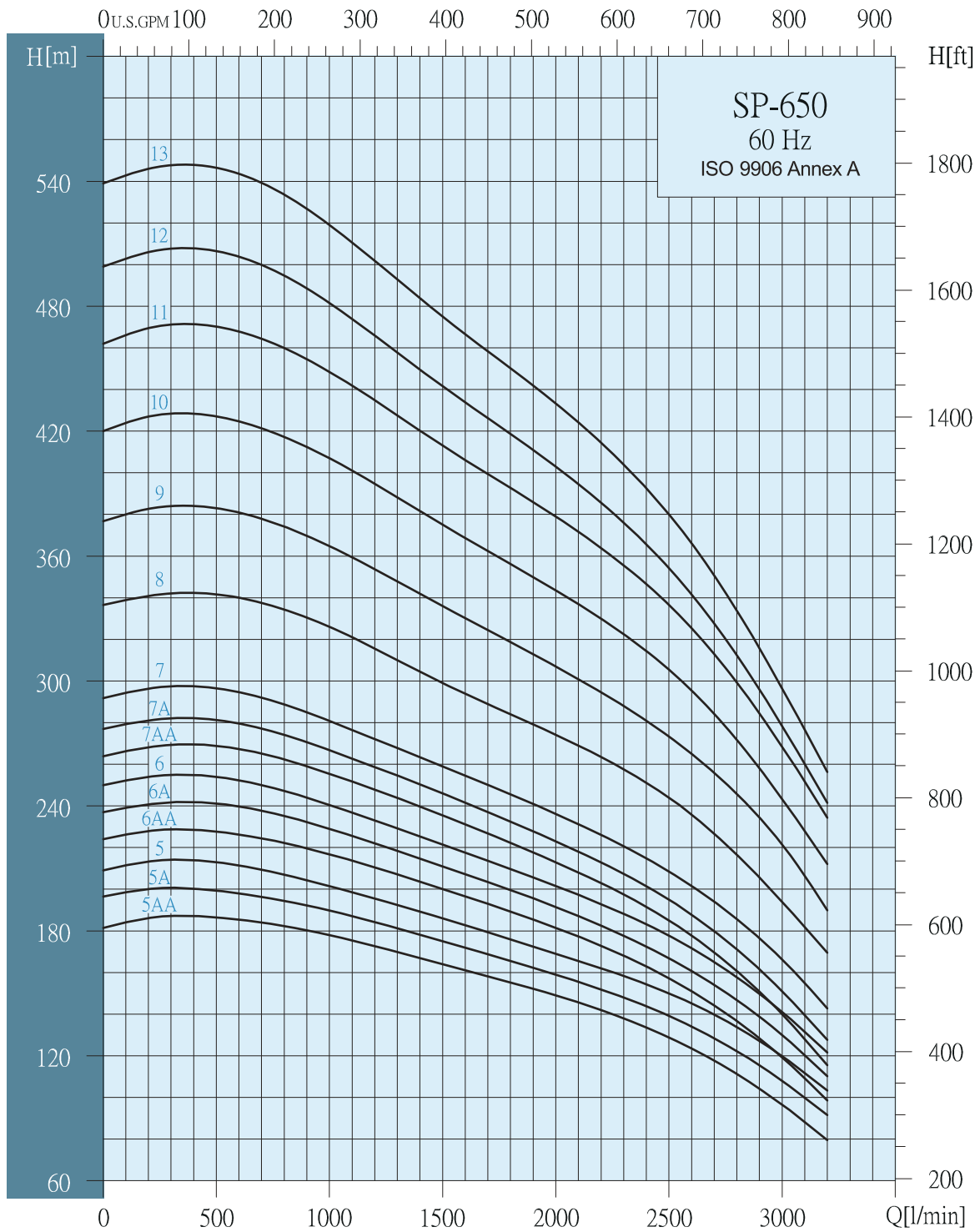
SP 10"

## SP650 Performance Curves





AIRS PUMPS



# Stairs SP Series



SP10"

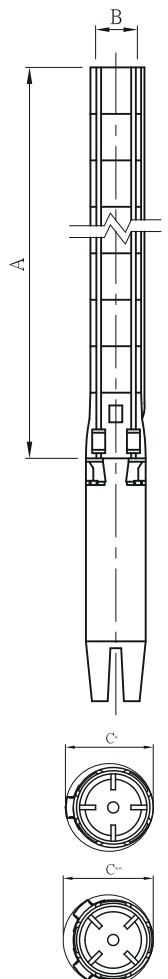
SP650

## Selection Chart

Pump Type	Motor		Max.current		m <sup>3</sup> /h l/min	Q capacity 3450 rpm											
	P2		Amp			48	60	72	84	96	108	120	132	144	156	168	180
	KW	HP	230V	380V		800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
SP 650-1-A	11	15	47.4	28.6	HEAD IN METERS	28	27	26	25	24	23	22	21	19	17	14	11
SP 650-1	18.5	25	75	45		41	40	38	46	35	34	32	31	29	27	25	22
SP 650-2-AA	22	30	90.4	54.7		57	55	58	52	50	48	46	43	39	35	29	23
SP 650-2-A	26	35	106.6	64.5		69	67	65	63	60	58	55	53	49	45	40	34
SP 650-2	30	40	124	75		82	79	76	73	71	68	65	63	59	55	51	45
SP 650-3-AA	37	50	154	93		98	95	92	89	86	82	78	74	69	62	55	45
SP 650-3-A	37	50	154	93		109	107	103	99	96	92	88	83	78	72	65	56
SP 650-3	45	60	172	104		124	121	117	113	108	105	101	96	92	86	79	71
SP 650-4-AA	55	75	214	130		141	137	133	139	124	120	115	109	102	94	84	72
SP 650-4-A	55	75	214	130		153	149	144	140	135	130	125	119	113	105	95	84
SP 650-4	63	85	266	161		166	161	151	151	146	141	135	130	123	116	107	96
SP 650-5-AA	75	100	284	172		182	178	173	167	161	155	149	142	133	123	111	97
SP 650-5-A	75	100	284	172		195	190	185	178	171	165	159	152	143	135	122	108
SP 650-5	75	100	284	172		207	202	196	190	183	176	169	162	155	145	134	120
SP 650-6-AA	75	100	284	172		223	217	210	204	196	190	182	173	163	151	137	119
SP 650-6-A	93	125	376	228		235	229	222	215	208	200	192	183	173	160	147	130
SP 650-6	93	125	376	228		247	241	233	225	218	210	202	193	183		157	141
SP 650-7-AA	93	125	376	228		262	256	248	240	231	222	213	203	192	177	161	140
SP 650-7-A	93	125	376	228		274	267	258	250	241	233	223	213	201	188	171	151
SP 650-7	110	150	440	266		288	281	273	263	255	246	236	226	215	201	185	166
SP 650-8	132	175			334	326	315	305	294	284	274	263	251	236	217	194	
SP 650-9	132	175			374	365	354	342	330	318	307	295	281	265	245	222	
SP 650-10	147	200			417	407	395	381	369	356	344	330	315	295	272	244	
SP 650-11	170	230			460	449	435	420	406	393	379	364	346	325	299	269	
SP 650-12	185	250			495	482	466	441	434	419	403	386	366	342	312	279	
SP 650-13	185	250			533	519	502	484	467	450	433	414	392	366	333	307	

## Dimensions And Weights

Pump Type	motor Dia.	Dimensions(mm)			Net Weight(Kg)
		B 6" Connection (RP,NPT)			
		A	C*	C**	
SP 650-1-A	6"	652	211	215	29.2
SP 650-1	6"	652	211	215	29.3
SP 650-2-AA	6"	807	211	215	35.6
SP 650-2-A	6"	807	211	215	35.7
SP 650-2	6"	807	211	215	35.8
SP 650-2	8"	807	213	219	42.1
SP 650-3-AA	6"	963	211	215	42.1
SP 650-3-AA	8"	963	213	219	46.9
SP 650-3-A	6"	963	211	215	42.2
SP 650-3-A	8"	963	213	219	47.0
SP 650-3	6"	963	211	215	42.3
SP 650-3	8"	963	213	219	47.1
SP 650-4-AA	8"	1118	213	219	51.9
SP 650-4-A	8"	1118	213	219	52.0
SP 650-4	8"	1118	213	219	52.1
SP 650-5-AA	8"	1274	213	219	56.9
SP 650-5-A	8"	1274	213	219	57.0
SP 650-5	8"	1274	213	219	57.1
SP 650-6-AA	8"	1429	213	219	61.9
SP 650-6-A	8"	1429	213	219	62.0
SP 650-6	8"	1429	213	219	62.1
SP 650-7-AA	8"	1585	213	219	66.9
SP 650-7-A	8"	1585	213	219	67.0
SP 650-7	8"	1585	213	219	67.1
SP 650-8	10"	1870	227	247	83.5
SP 650-9	10"	2026	227	247	90.0
SP 650-10	10"	2181	227	247	96.5
SP 650-11	10"	2337	227	247	103.0
SP 650-12	12"				
SP 650-13	12"				





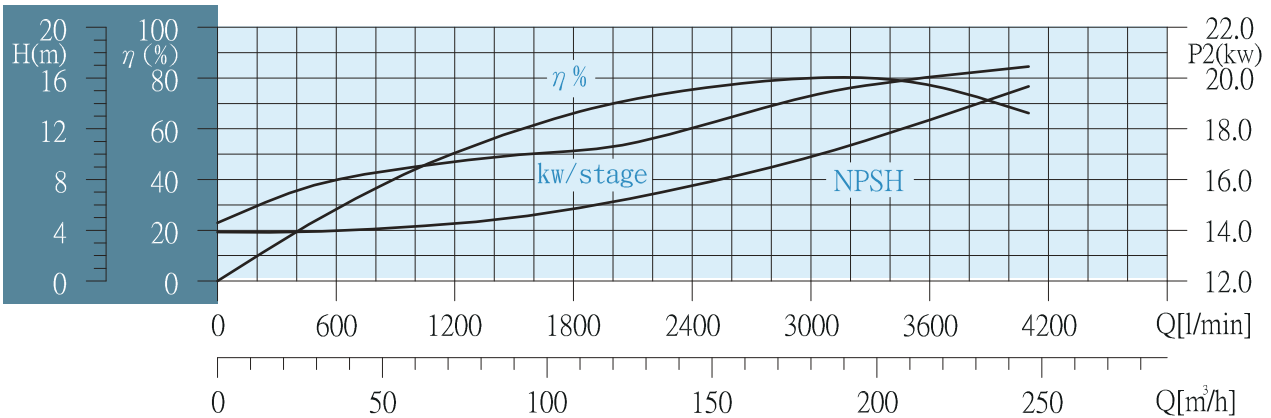
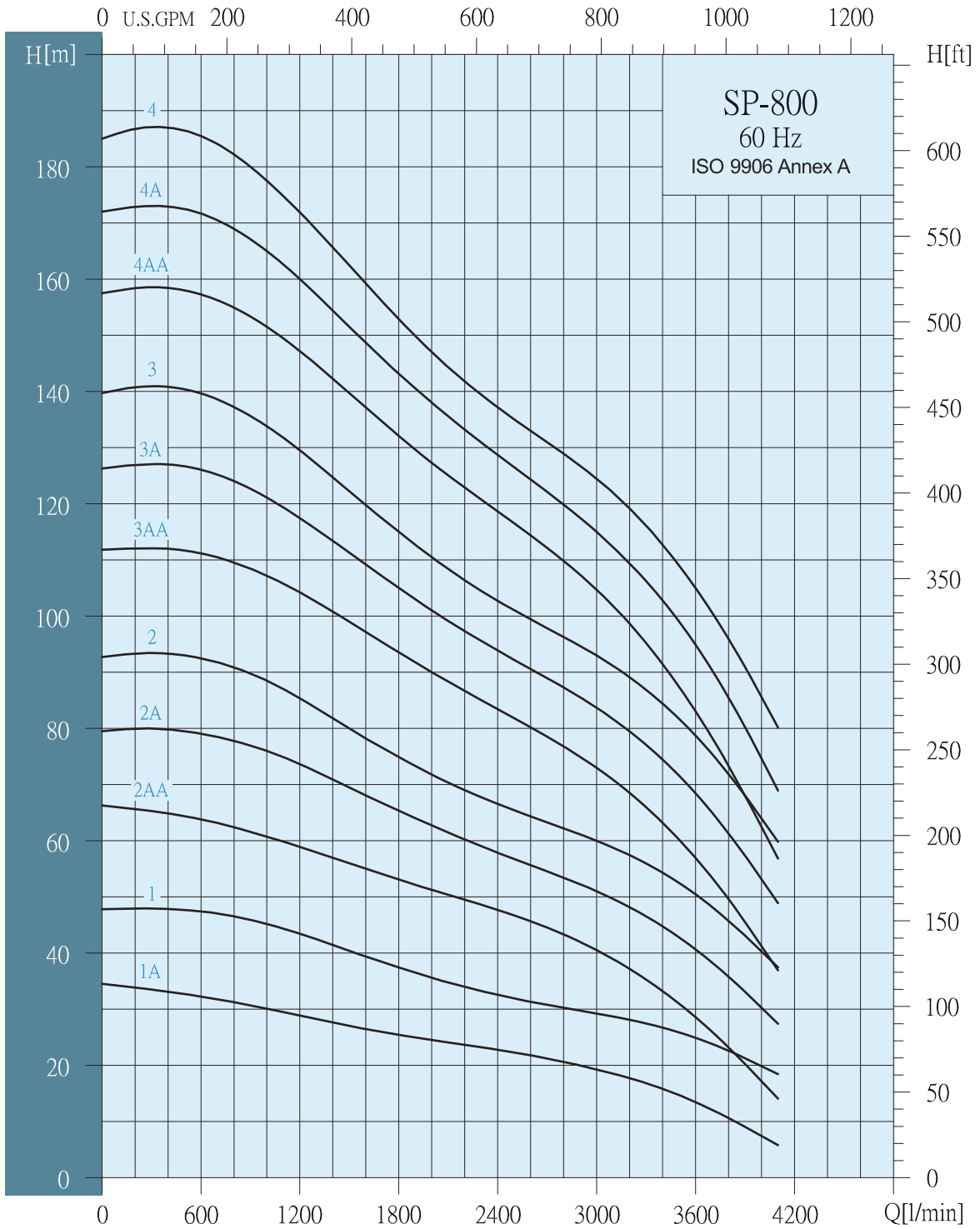
# Stairs SP Series



TAIRS PUMPS

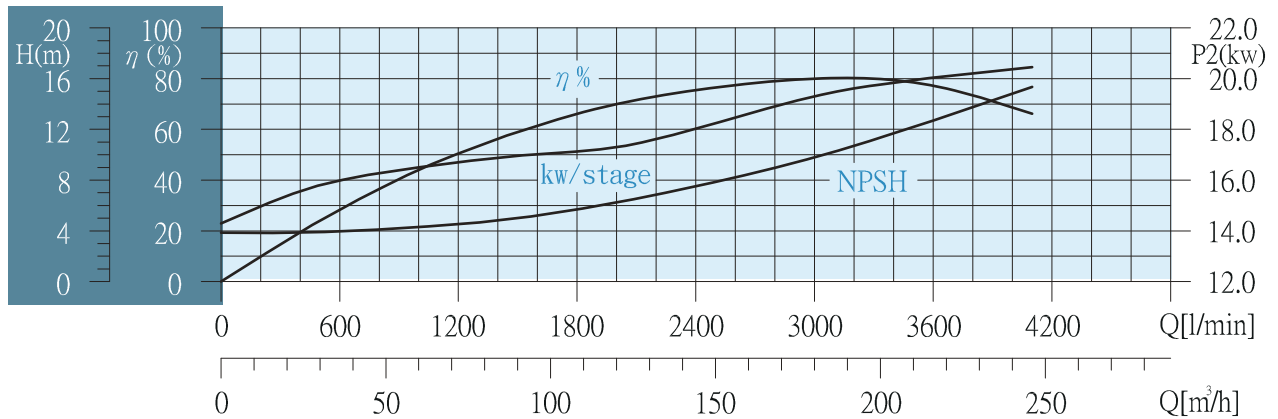
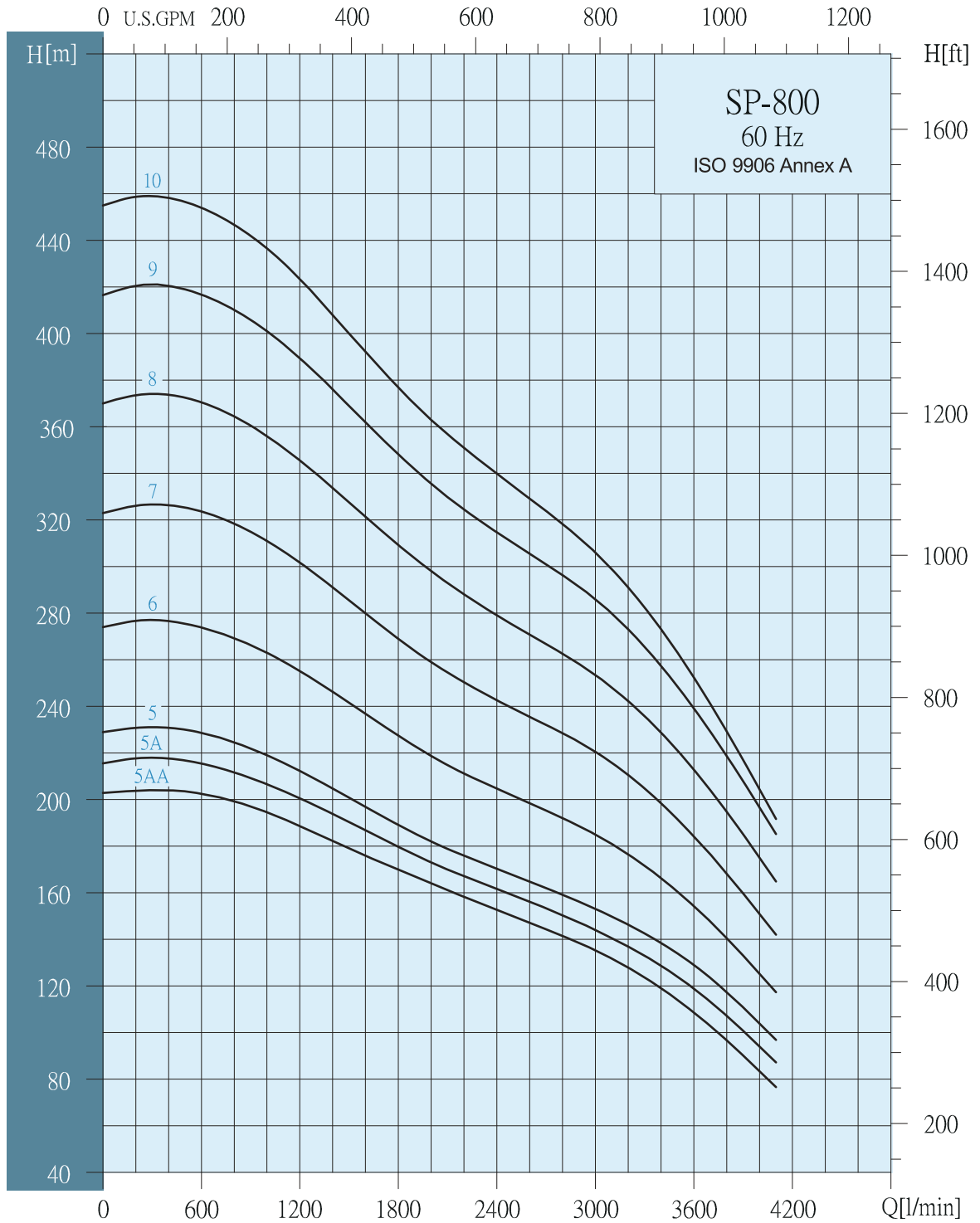
SP10"

## SP800 Performance Curves





STAIRS PUMPS



SP10"

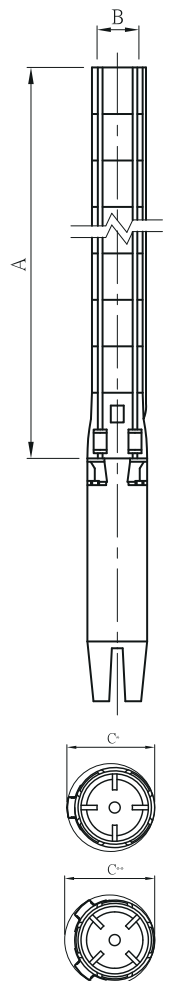
**SP800**

## Selection Chart

Pump Type	Motor		Max.current		Q capacity 3450 rpm												
	P2		Amp		m³/h l/min	36	54	72	90	108	126	144	162	180	198	216	234
	KW	HP	230V	380V		600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900
SP 800-1-A	15	20	60.6	36.6	HEAD IN METERS	32	31	29	27	26	24	23	21	19	17	13	9
SP 800-1	22	30	90.4	54.7		47	46	44	40	37	35	33	31	29	28	25	21
SP 800-2-AA	26	35	106.6	64.5		64	62	59	56	53	50	48	45	41	35	28	20
SP 800-2-A	37	50	154	93		79	77	74	70	65	62	58	55	51	47	41	33
SP 800-2	37	50	154	93		93	90	85	80	75	70	67	63	60	56	50	43
SP 800-3-AA	45	60	172	104		111	108	104	99	93	88	83	78	73	66	57	46
SP 800-3-A	55	75	214	130		126	122	118	111	105	99	94	89	84	77	68	57
SP 800-3	55	75	214	130		140	136	130	123	115	108	103	98	93	87	79	68
SP 800-4-AA	63	85	266	161		157	153	147	140	132	125	119	112	105	96	83	68
SP 800-4-A	75	100	284	172		172	167	160	152	143	136	129	122	115	107	95	80
SP 800-4	75	100	284	172		186	180	172	163	153	145	138	131	125	117	105	91
SP 800-5-AA	93	125	376	228		202	197	188	179	170	161	153	144	135	124	108	90
SP 800-5-A	93	125	376	228		216	209	201	191	180	170	162	153	144	133	119	101
SP 800-5	93	125	376	228		228	222	212	201	189	178	170	162	153	143	129	111
SP 800-6	110	150	440	266		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
SP 800-10	185	250				454	442	423	400	377	357	340	324	306	282	252	217

## Dimensions And Weights

Pump Type	motor Dia.	Dimensions(mm)			Net Weight(Kg)
		B 6" Connection (RP,NPT)			
		A	C*	C**	Flap
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
SP 800-10	12"				



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

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

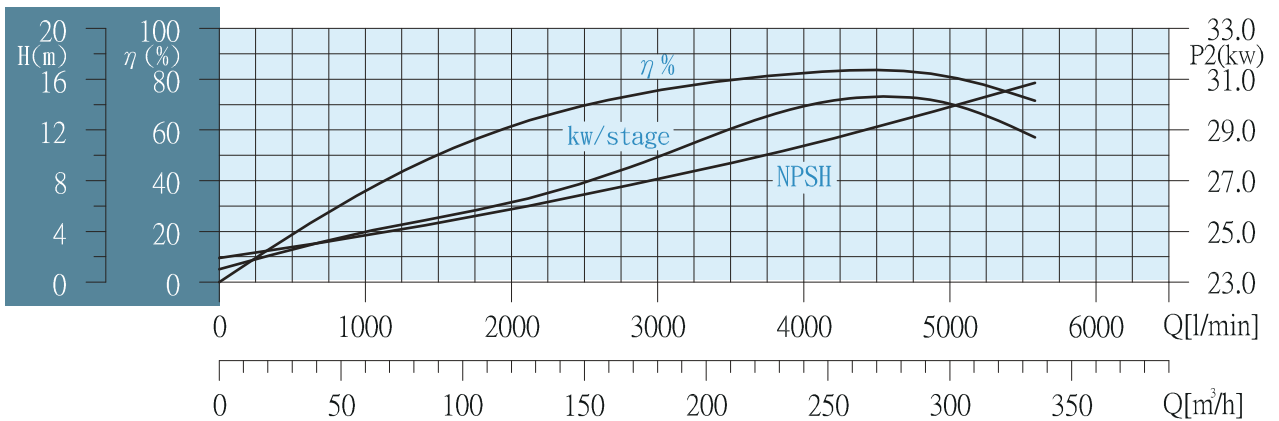
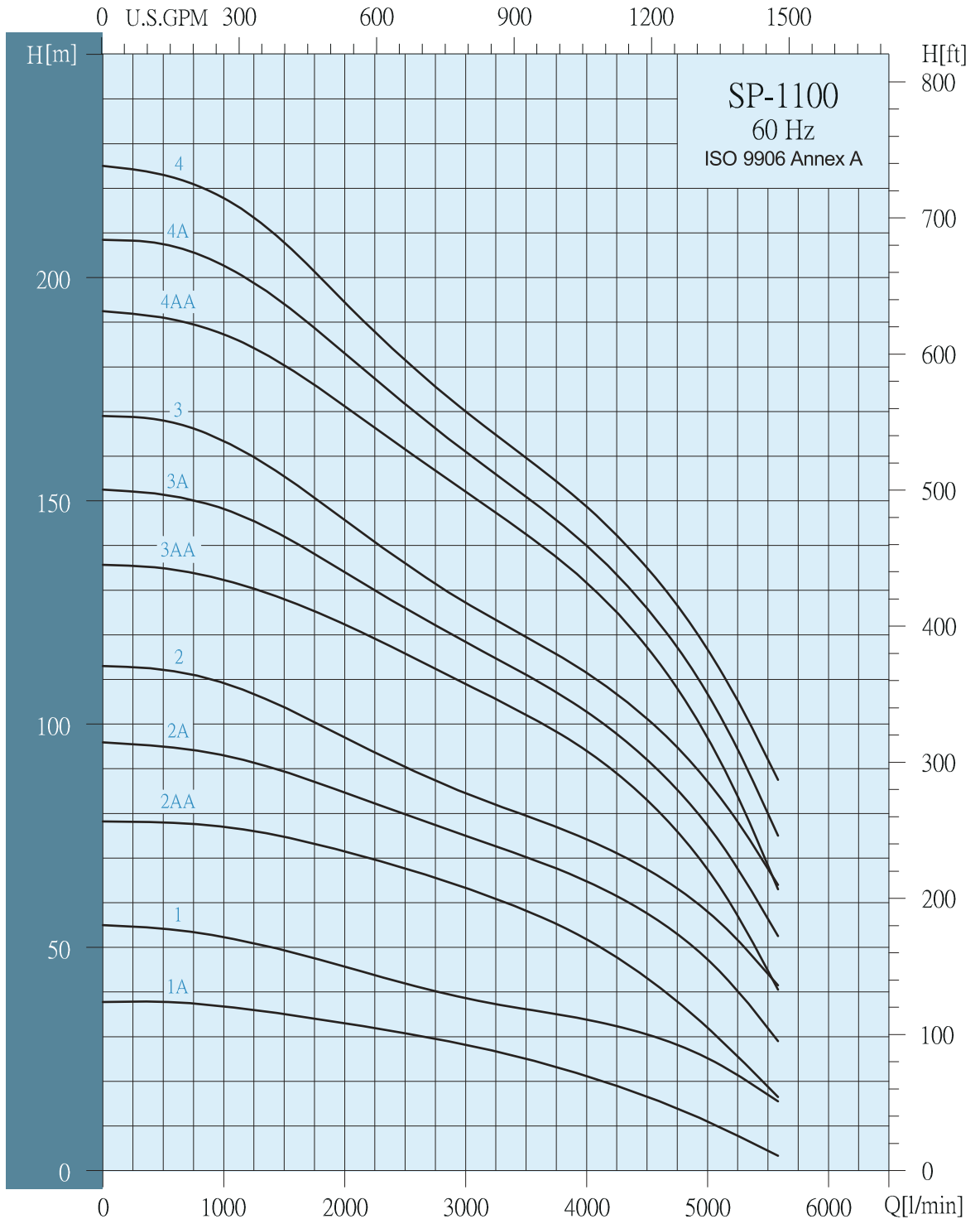
# Stairs SP Series



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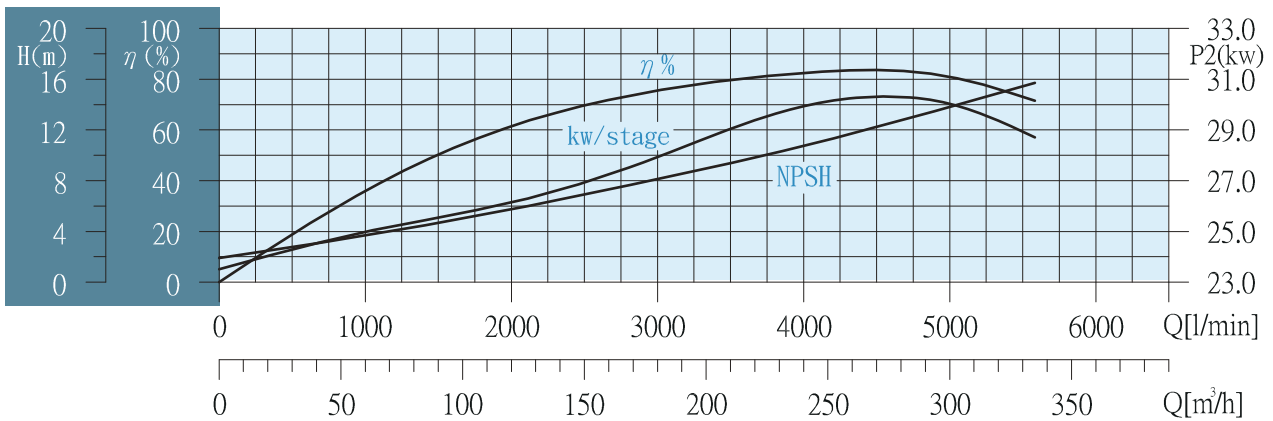
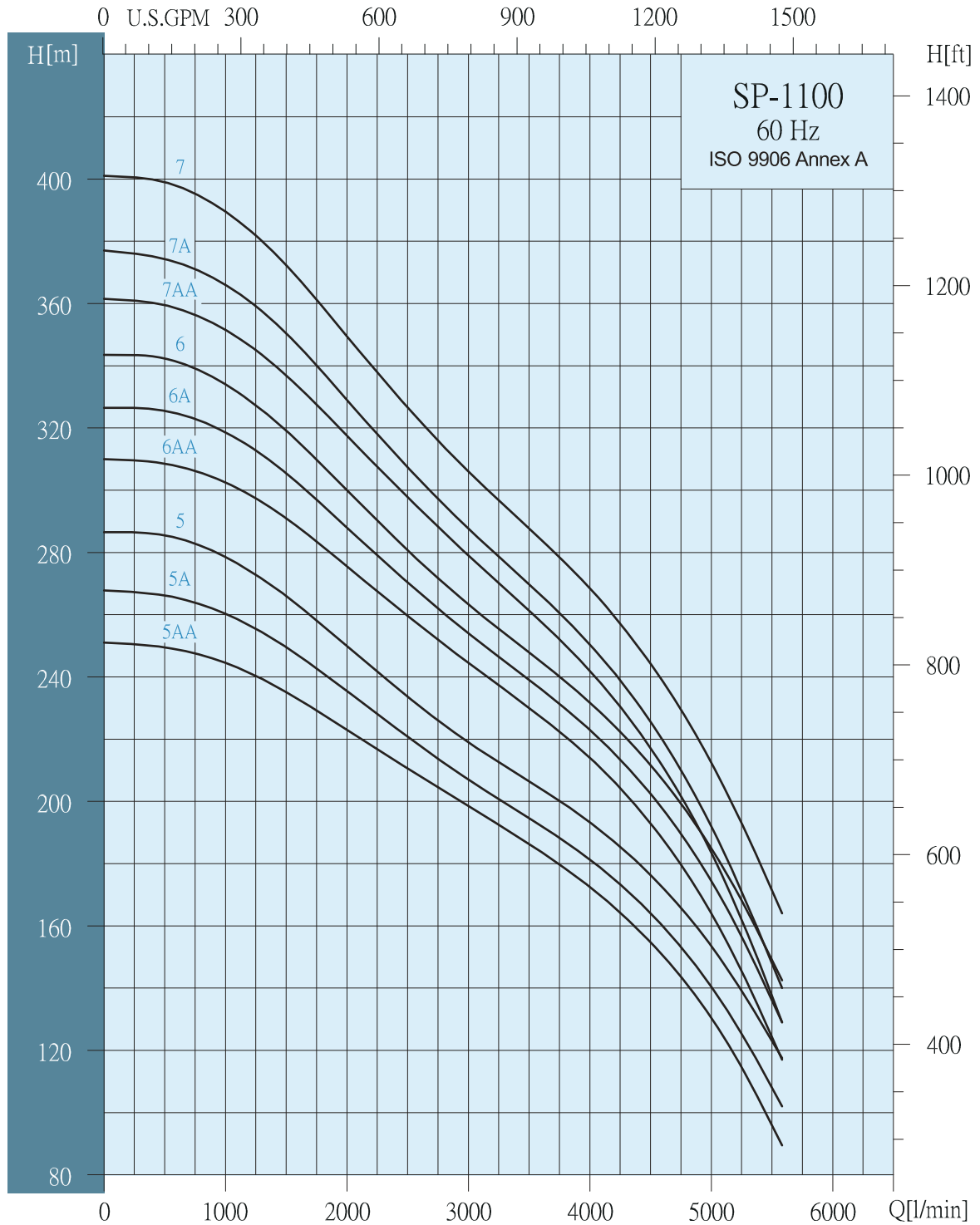
SP10"

## SP1100 Performance Curves





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# Stairs SP Series



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SP10"

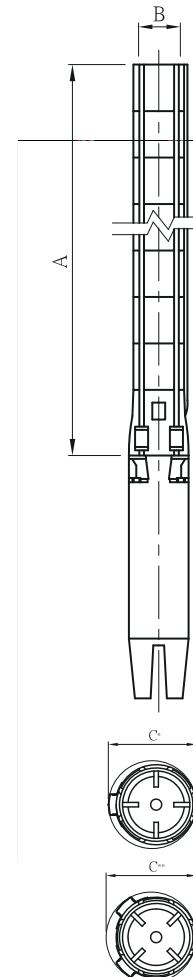
SP1100

## Selection Chart

Pump Type	Motor		Max.current		m³/h l/min	Q capacity 3450 rpm										
	P2		Amp			30	60	90	120	150	180	210	240	270	300	330
	KW	HP	230V	380V		500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500
SP 1100-1-A	22	30	90.4	54.7	HEAD IN METERS	38	37	35	33	31	28	25	21	16	11	4
SP 1100-1	30	40	124	75		54	52	49	46	42	38	36	34	30	25	17
SP 1100-2-AA	45	60	172	104		78	77	74	71	67	63	58	52	43	32	19
SP 1100-2-A	55	75	214	130		95	93	89	85	80	75	70	65	57	47	32
SP 1100-2	63	85	266	161		112	109	103	97	90	84	79	74	67	58	44
SP 1100-3-AA	75	100	284	172		135	132	128	122	116	109	102	94	83	67	45
SP 1100-3-A	93	125	376	228		151	148	142	134	126	118	111	103	92	77	56
SP 1100-3	93	125	376	228		168	163	155	146	321	127	119	111	101	87	67
SP 1100-4-AA	110	150	440	266		191	187	180	171	161	152	142	131	117	97	68
SP 1100-4-A	110	150	440	266		207	202	194	183	171	161	151	140	126	107	80
SP 1100-4	110	150	440	266		223	218	208	194	181	170	159	148	135	117	92
SP 1100-5-AA	132	175				249	244	235	223	210	198	186	172	154	130	96
SP 1100-5-A	132	175				266	260	249	235	221	207	194	181	164	140	108
SP 1100-5	147	200				285	278	266	250	233	219	206	193	176	153	123
SP 1100-6-AA	170	230				308	302	291	275	260	244	230	214	192	164	124
SP 1100-6-A	170	230				325	318	305	288	270	254	239	223	202	174	136
SP 1100-6	170	230				342	334	319	300	281	263	248	232	211	185	149
SP 1100-7-AA	185	250				359	351	337	317	297	279	261	242	217	183	137
SP 1100-7-A	185	250				374	366	350	329	307	287	270	250	225	192	148
SP 1100-7	220					399	389	372	349	326	306	287	268	244	212	171

## Dimensions And Weights

Pump Type	motor Dia.	Dimensions(mm)			Net Weight(Kg)
		B 6" Connection (RP,NPT)			
		A	C*	C**	Pump
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	8"	947.7	237	241	55.8
SP 1100-2-A	8"	947.7	237	241	55.8
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	10"	1475.7	262	274	90.8
SP 1100-5-A	10"	1475.7	262	274	90.8
SP 1100-5	10"	1475.7	262	274	90.8
SP 1100-6-AA	10"	1651.7	262	274	101.0
SP 1100-6-A	10"	1651.7	262	274	101.0
SP 1100-6	10"	1651.7	262	274	101.0
SP 1100-7-AA	12"				
SP 1100-7-A	12"				
SP 1100-7	12"				



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



STAIRS PUMPS



**STAIRS INDUSTRIAL CO., LTD.**

Company

No. 3-8, Sanchial Tsun, Lutsao Hsiang,

Chiai Hsien, Taiwan, R.O.C.

Tel: +886(0)53750488

Fax: +886(0)53752330

E-Mail: [stairs@stairs.com.tw](mailto:stairs@stairs.com.tw)

**[www.stairs.com.tw](http://www.stairs.com.tw)**