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EN286-1-2

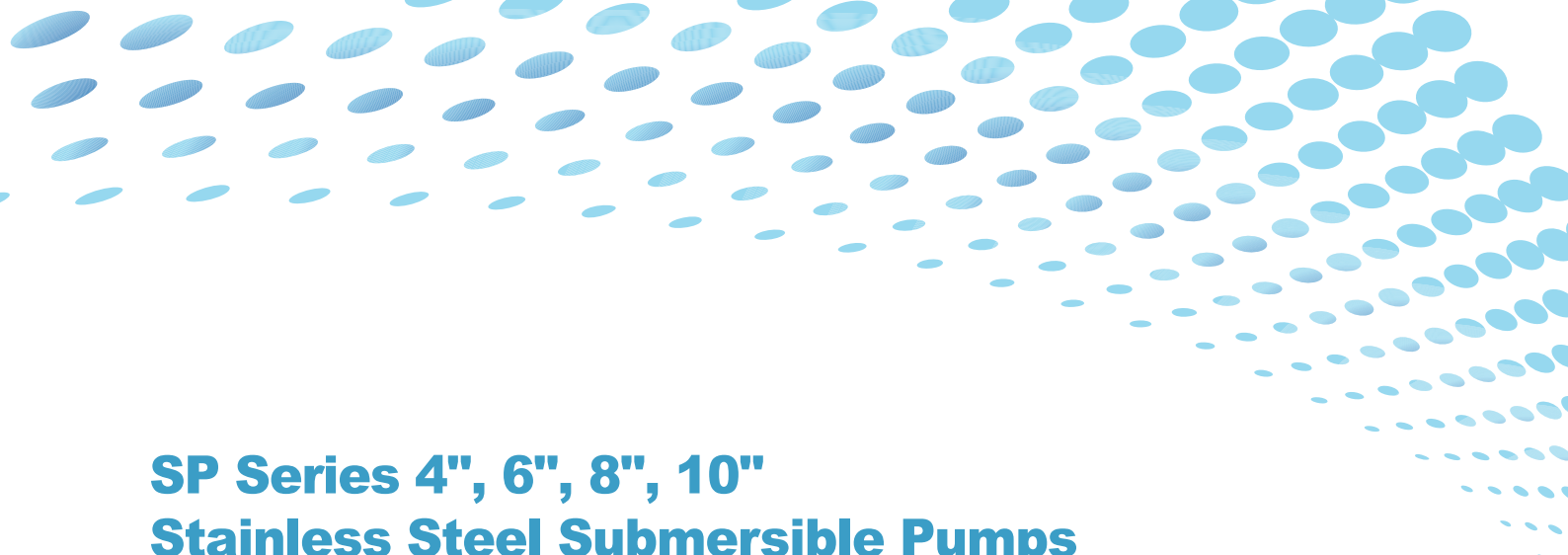


STAIRS SP SERIES STAINLESS STEEL SUBMERSIBLE PUMPS

60HZ



(주)에스피케이
<http://www.spkinc.co.kr>



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

SP 4", 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.

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General Data

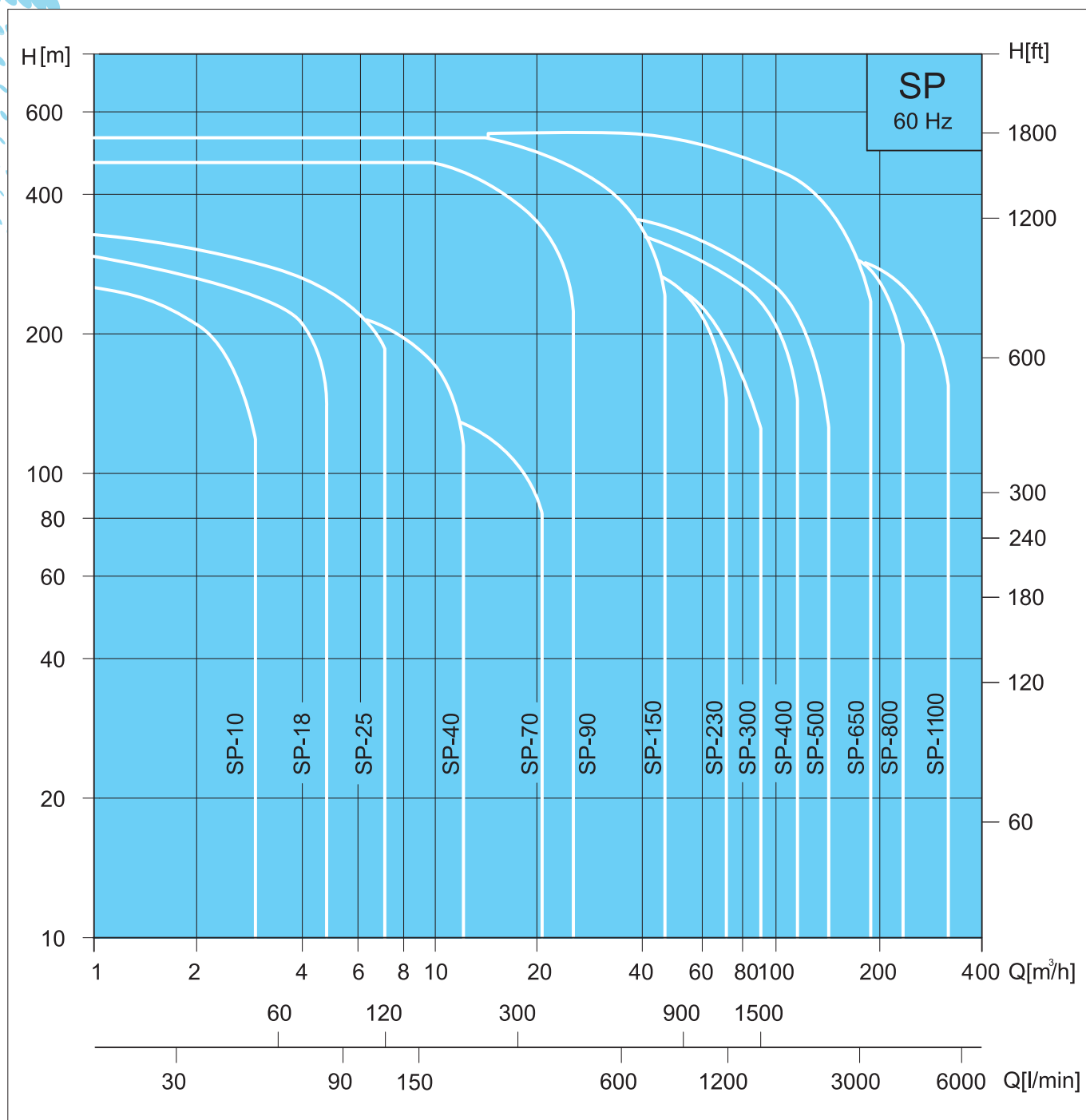
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Performance Range



General Data

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

	Capacity(m³/h)		Head(m)
4"	min 0.3	max 21	max 560
6"	min 6	max 90	max 620
8"	min 18	max 150	max 390
10"	min 20	max 335	max 547

Applications

- Potable water supply from deep wells
- Agricultural-Irrigation and livestock watering, etc.
- Municipal and industrial
- Pressure boosting
- Fountains, etc.
- Dewatering in mines
- Municipal water supply and distribution
- Municipal water treatment
- Industrial-for cooling, cleaning and production

Pumped Liquids

- Clean, non corrosive and non-abrasive liquids.

Operating Conditions

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

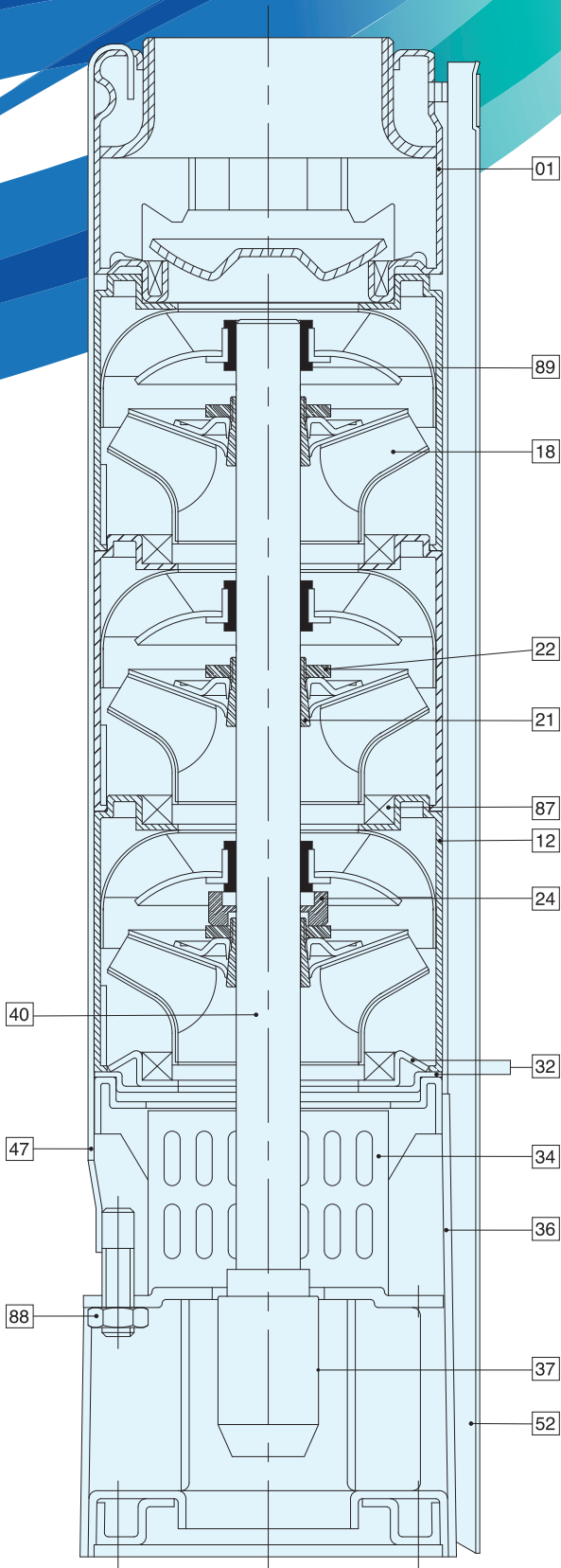
Features

- Stainless steel construction designed and built for years of trouble free operation
- High quality materials and high quality workmanship assures high quality pumps
- Heavy duty stainless steel discharge head with built-in check valve for long life and ease of installation
- All metal parts are made of 304 stainless steel, except for the shaft, which is made of 431 stainless steel
- 431 stainless steel pump shafts assure strength with resistance to mechanical wear and corrosion
- High quality shaft bearings providing low friction and high wear resistance
- High quality stainless steel impellers&diffusers ensuring optimal performance
- Stainless steel strainer to restrict the entry of sand and other extraneous material
- Smooth safety hook
- Mounting specifications are according to NEMA standards
- A high strength stainless steel coupling facilitates a proper pump & motor alignment



General Data

Example: SP-70



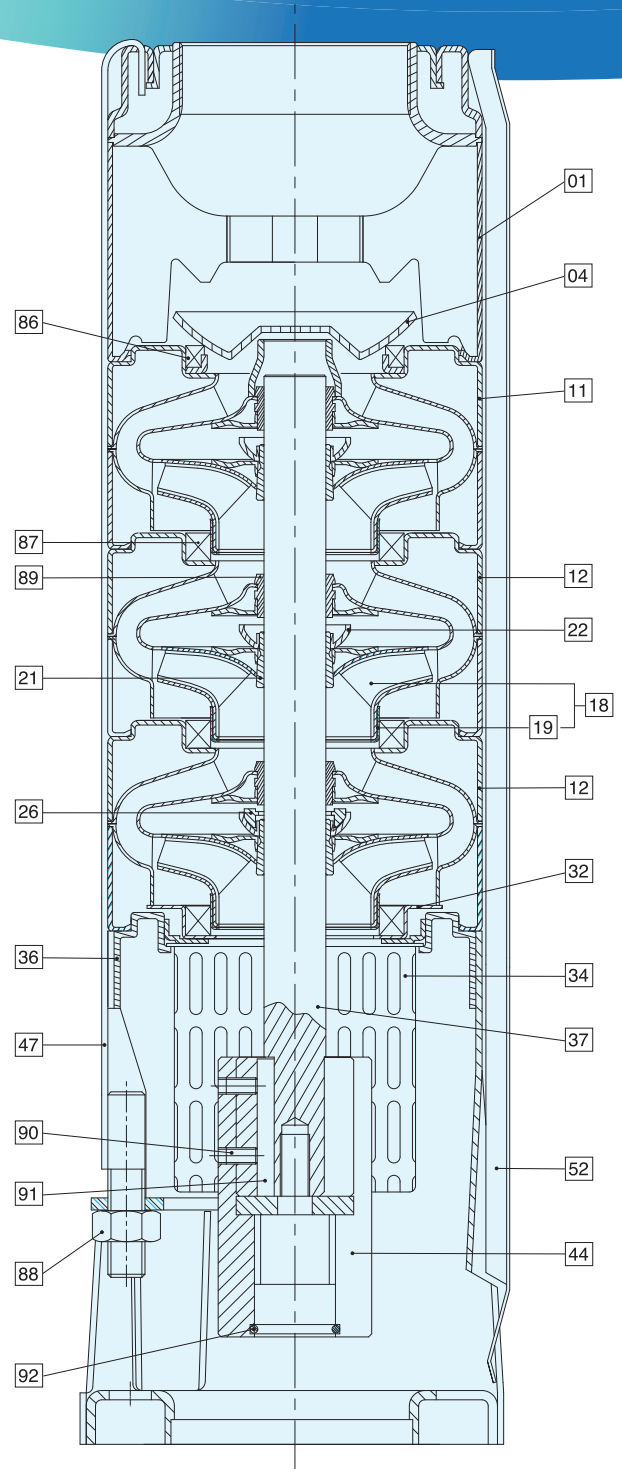
Material Specifiction-4"Pumps

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	

Example: SP-90

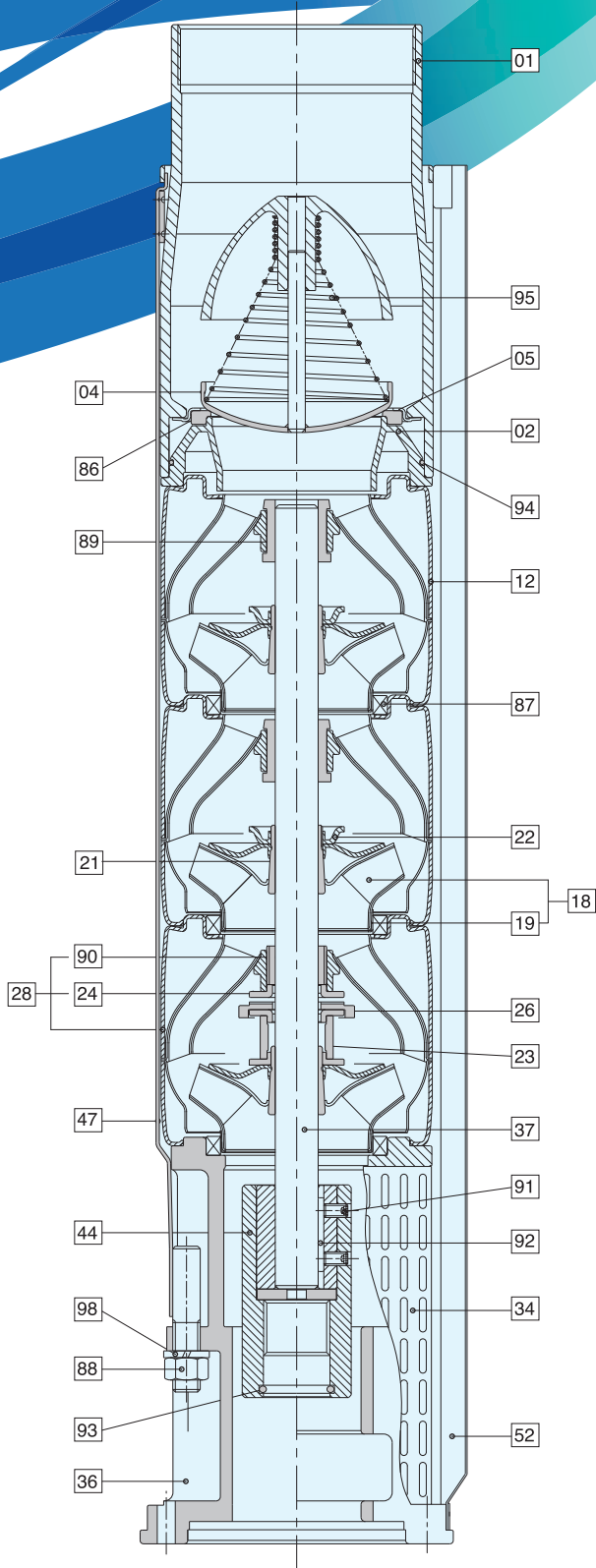
Material Specification-6"Pumps

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	



General Data

Example: SP-500



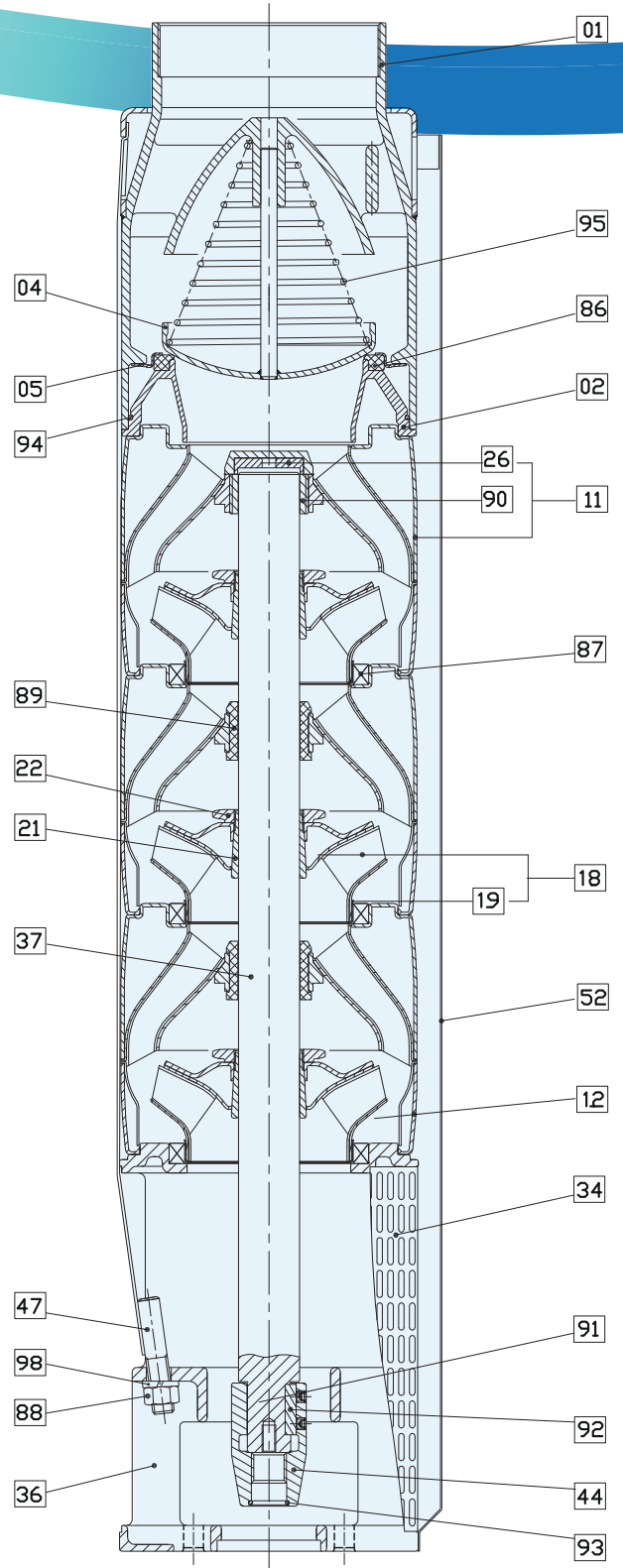
Material Specification-8"Pumps

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

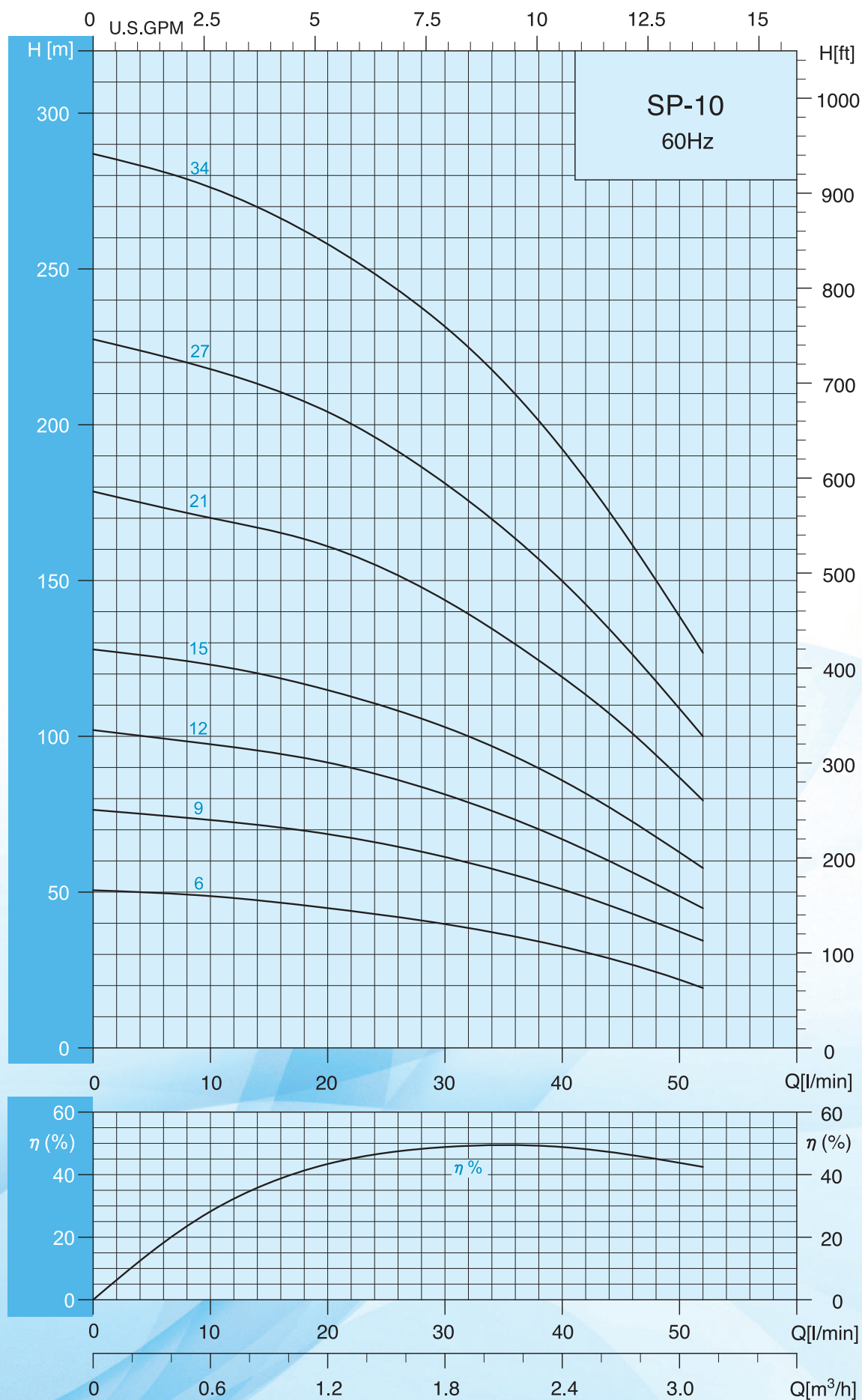
Example: SP-1100

Material Specifiction-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



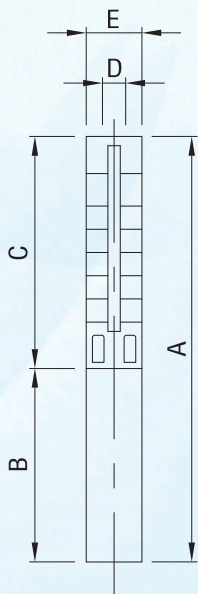
STAIRS SP SERIES 4" PUMP SP 10



Selection Chart

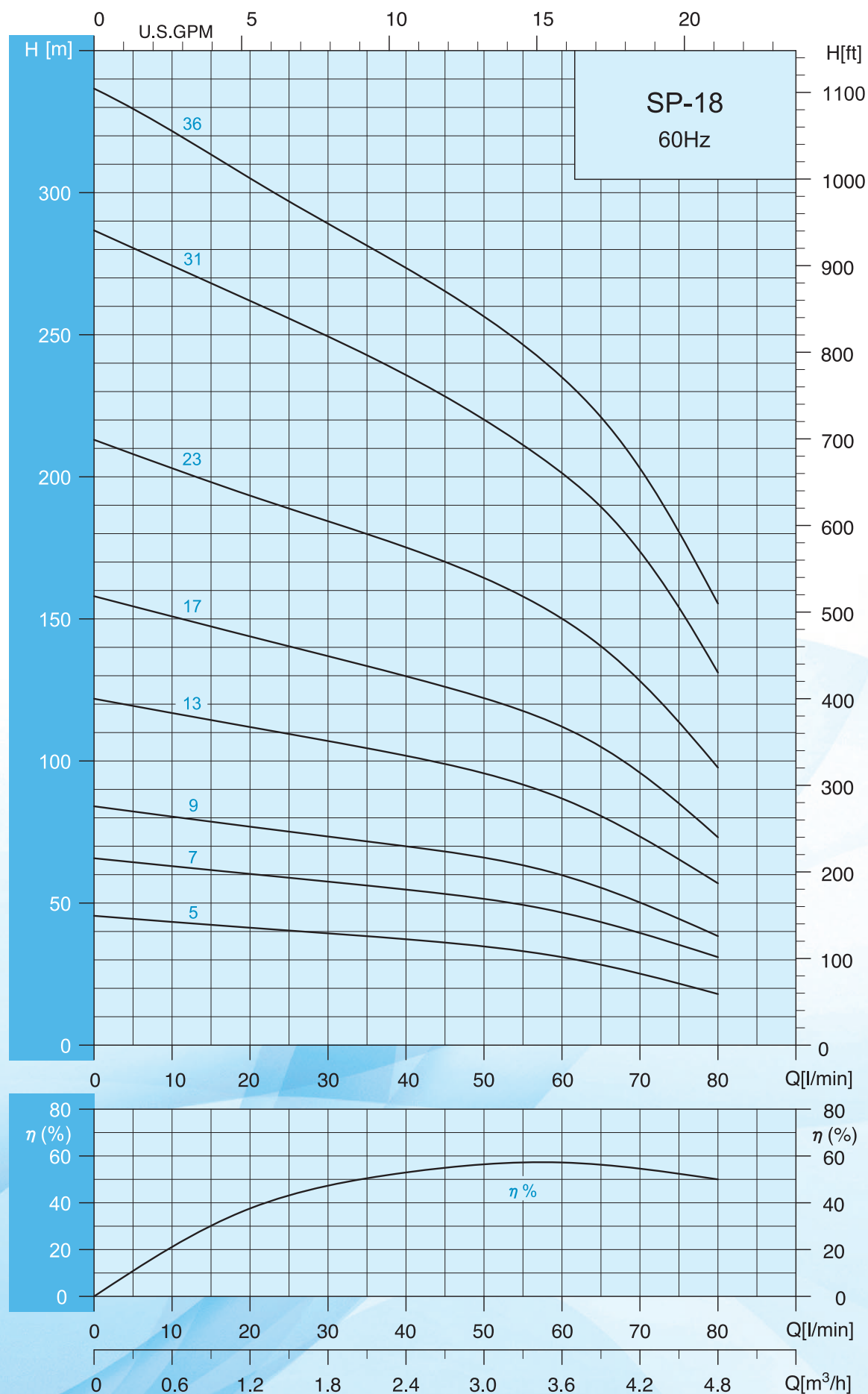
Model	HP	KW	구경 (mm)	전양정 (m)	25	50	75	100	125	150	175	200	225	250	275	300	325	350
SP-1006	1	0.75		50	69(40m-41t/d)													
SP-1009	1	0.75		76	75	59	37											
SP-1012	1	0.75		102	75	70	50											
SP-1015	1	0.75		128		75	65	46										
SP-1021	2	1.5		178			75	66	54	38								
SP-1027	2	1.5		229				75	65	58	46	32						
SP-1034	3	2.2		288					75	69	61	54	46	33	15			

Dimensions And Weights



Model	HP	KW	Dimensions(mm)						Weight (kg)	Full Load Current (A)		
			A(전체)		B(모터)		C (펌프)	D (토출)		E (외경)	1 ϕ 230V	3 ϕ 380V
			1 ϕ 230V	3 ϕ 380V	1 ϕ 220V	3 ϕ 380V						
SP-1006	1	0.75	591	591	298	298	293		2.4	9.8	2.9	
SP-1009	1	0.75	654	654	298	298	356		3.0	9.8	2.9	
SP-1012	1	0.75	717	717	298	298	419		3.6	9.8	2.9	
SP-1015	1	0.75	780	780	298	298	482		4.2	9.8	2.9	
SP-1021	2	1.5	992	954	384	346	608		5.3	13.2	4.9	
SP-1027	2	1.5	1118	1080	384	346	734		6.4	13.2	4.9	
SP-1034	3	2.2	1388	1312	484	408	904		10.0	17.0	6.6	

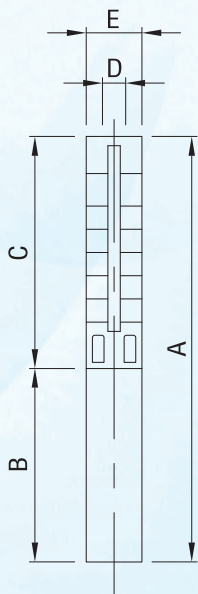
STAIRS SP SERIES 4" PUMP SP 18



Selection Chart

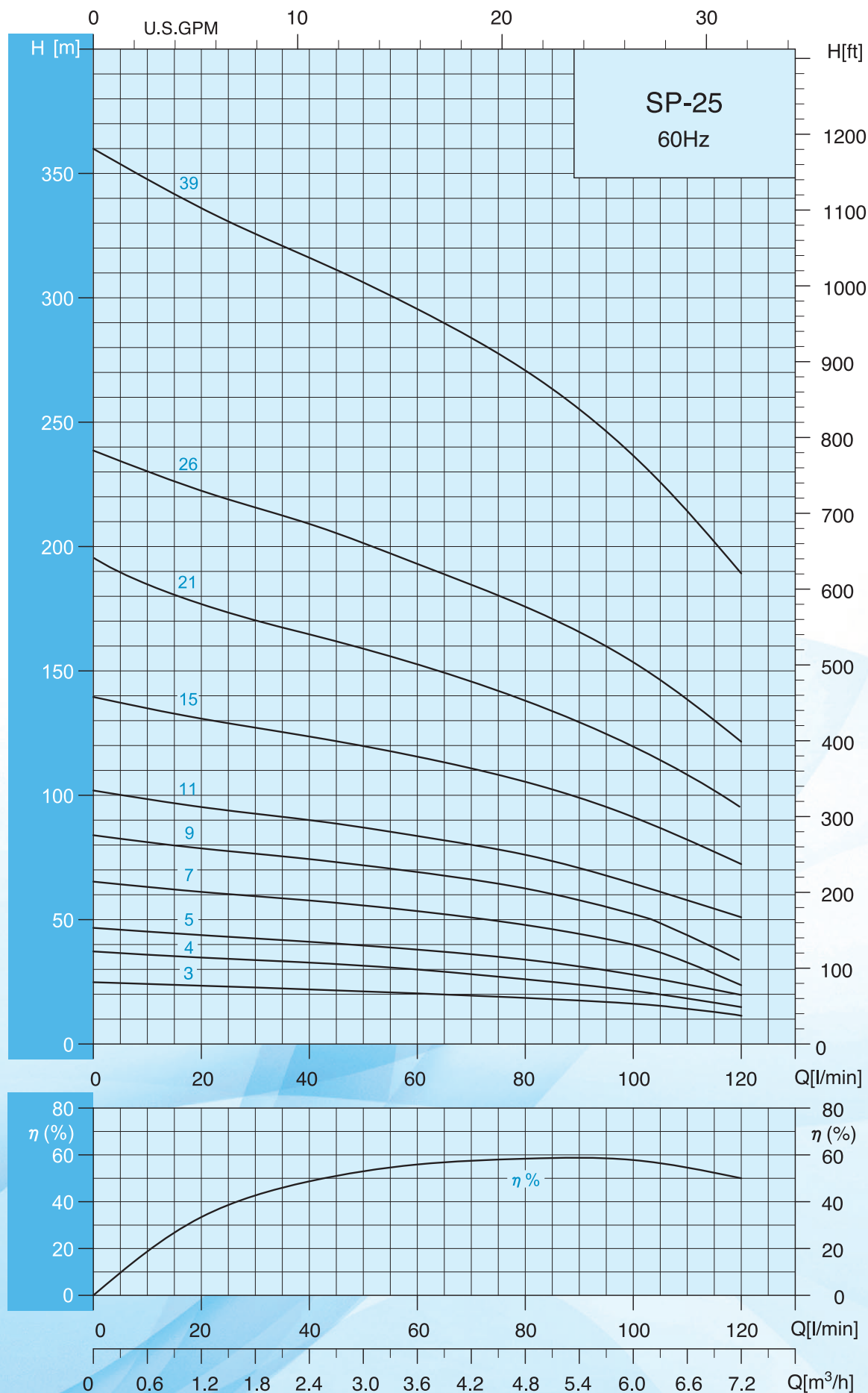
Model	HP	KW	구경 (mm)	전양정 (m)	25	50	75	100	125	150	175	200	225	250	275	300	325	350
SP-1805	1	0.75	32	45	100	(35m-72t/d)												
SP-1807	1	0.75		66	115	76												
SP-1809	1	0.75		85	115	101	36											
SP-1813	2	1.5		121		115	97	61										
SP-1817	2	1.5		160		115	112	98	68	17								
SP-1823	3	2.2		216			115	112	104	86	58	19						
SP-1831	5	3.7		287					115	109	97	87	67	41	12			
SP-1836	5	3.7		337						115	111	102	91	76	55	33	12	

Dimensions And Weights



Model	HP	KW	Dimensions(mm)						Weight (kg)	Full Load Current (A)	
			A(전체)		B(모터)		C	D		1φ 230V	3φ 380V
			1φ 230V	3φ 380V	1φ 220V	3φ 380V	(펌프)	(토출)(외경)			
SP-1805	1	0.75	570	570	298	298	272	32 98	2.3	9.9	2.9
SP-1807	1	0.75	612	612	298	298	314		2.6	9.9	2.9
SP-1809	1	0.75	654	654	298	298	356		3.0	9.9	2.9
SP-1813	2	1.5	824	786	384	346	440		3.8	13.2	4.9
SP-1817	2	1.5	908	870	384	346	524		4.5	13.2	4.9
SP-1823	3	2.2	1134	1058	484	408	650		5.7	17.0	6.6
SP-1831	5	3.7	1583	1431	742	590	841		9.2	27.5	10.8
SP-1836	5	3.7	1688	1536	742	590	946		10.5	27.5	10.8

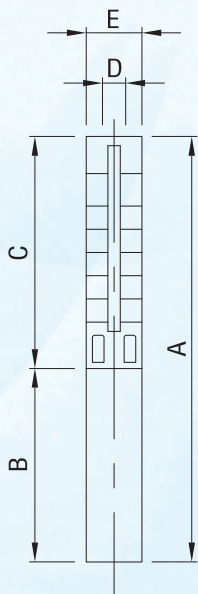
STAIRS SP SERIES 4" PUMP SP 25



Selection Chart

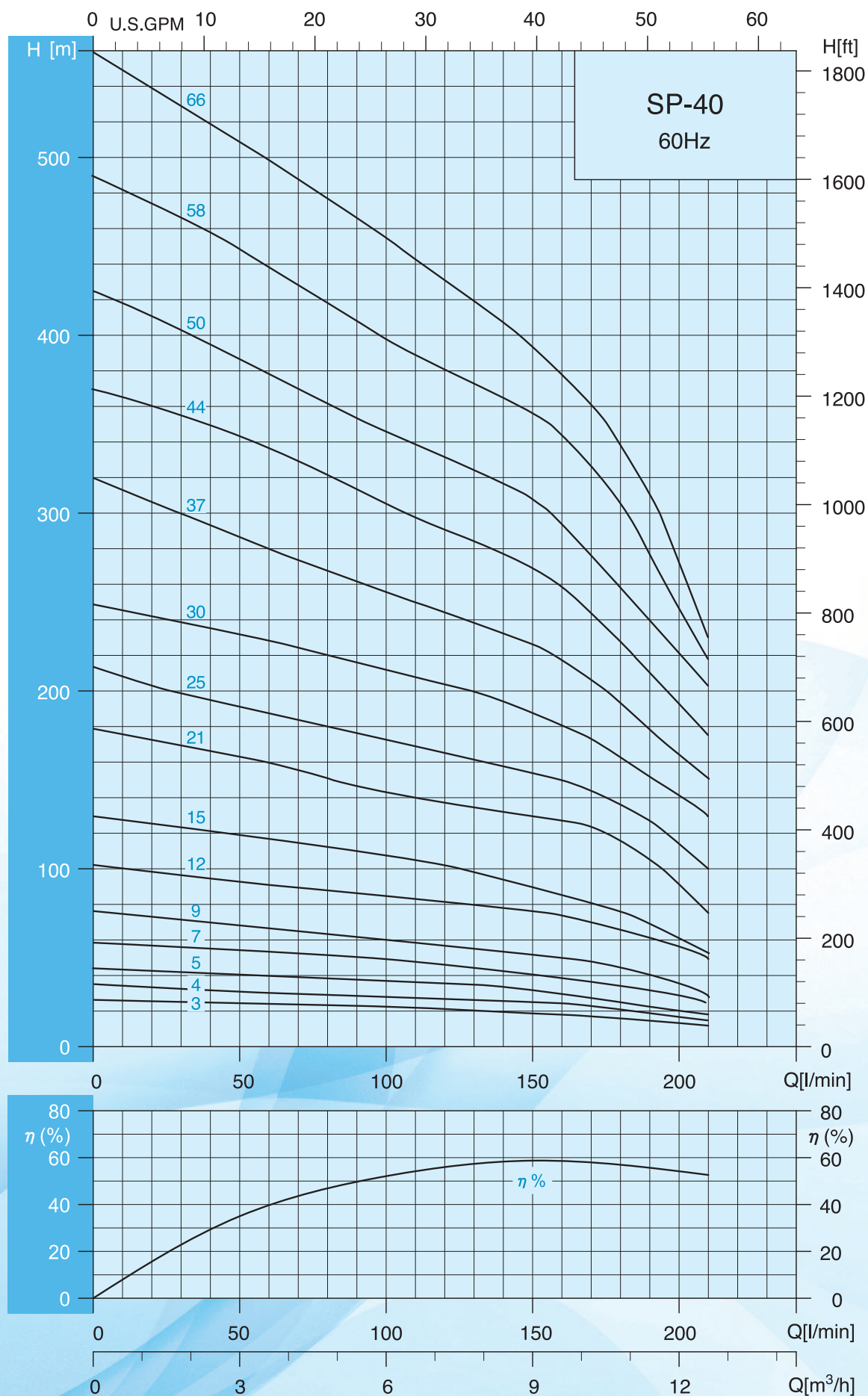
Model	HP	KW	구경 (mm)	전양정 (m)	25	50	75	100	125	150	175	200	225	250	275	300	325	350
SP-2503	1	0.75	40	25	(15m-155t/d)													
SP-2504	1	0.75		37	122	(30m-86t/d)												
SP-2505	1	0.75		48	154	(40m-67t/d)												
SP-2507	1	0.75		64	173	104	(40m-144t/d)											
SP-2509	2	1.5		82	173	149	57											
SP-2511	2	1.5		100		173	118	(90m-58t/d)										
SP-2515	3	2.2		136		173	168	127	50									
SP-2521	5	3.7		193				173	136	93	30							
SP-2526	5	3.7		236				173	168	147	115	75						
SP-2539	7.5	5.5		348							173	166	151	134	111	81	43	

Dimensions And Weights



Model	HP	KW	Dimensions(mm)							Weight (kg)	Full Load Current (A)	
			A(전체)		B(모터)		C	D	E		1φ 230V	3φ 380V
			1φ 230V	3φ 380V	1φ 220V	3φ 380V	(펌프)	(토출)	(외경)			
SP-2503	1	0.75	517	517	298	298	219	40	98	1.5	9.8	2.9
SP-2504	1	0.75	549	549	298	298	251			2.0	9.8	2.9
SP-2505	1	0.75	570	570	298	298	272			2.2	9.8	2.9
SP-2507	1	0.75	612	612	298	298	314			2.6	9.8	2.9
SP-2509	2	1.5	740	702	384	346	356			3.0	13.2	4.9
SP-2511	2	1.5	782	744	384	346	398			3.4	13.2	4.9
SP-2515	3	2.2	966	890	484	408	482			4.1	17.0	6.6
SP-2521	5	3.7	1350	1198	742	590	608			5.3	27.5	10.8
SP-2526	5	3.7	1455	1303	742	590	713			6.2	27.5	10.8
SP-2539	7.5	5.5	-	1736	-	742	994			11.1	-	16.0

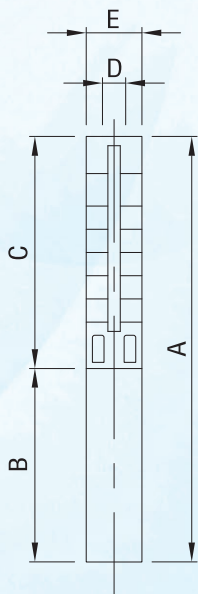
STAIRS SP SERIES 4" PUMP SP 40



Selection Chart

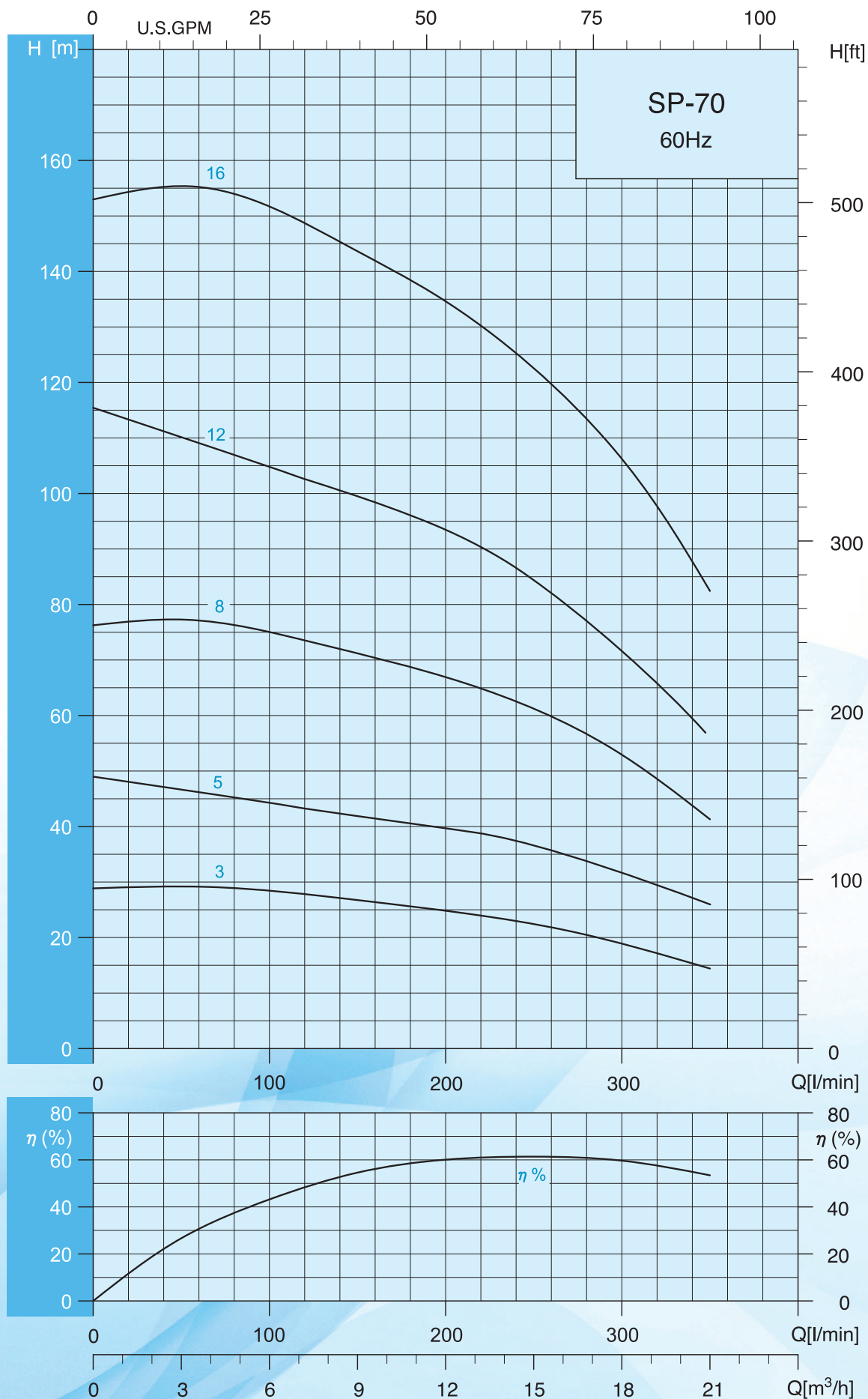
Model	HP	KW	구경 (mm)	전양정 (m)	25	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550
SP-4003	1	0.75	50	26	(18m-235t/d, 22m-116t/d)																
SP-4004	1	0.75		34	230	(30m-93t/d)															
SP-4005	2	1.5		42	263	(35m-187t/d)															
SP-4007	2	1.5		59	302	144															
SP-4009	3	2.2		77	302	253	(70m-79t/d)														
SP-4012	5	3.7		102		302	223	(90m-100t/d)													
SP-4015	5	3.7		129		302	264	180													
SP-4021	7.5	5.5		179			302	281	238	118	(160m-86t/d)										
SP-4025	7.5	5.5		213				302	274	232	144	39									
SP-4030	10	7.5		250				302	300	276	242	184	96								
SP-4037	15	11		320						302	278	252	218	160	98	43					
SP-4044	15	11		370							302	276	264	240	204	153	57				
SP-4050	20	15		425								302	276	264	240	228	135	49			
SP-4058	20	15		490									302	288	276	264	223	140	70		
SP-4066	25	18.5		560										300	288	281	252	210	150	85	

Dimensions And Weights



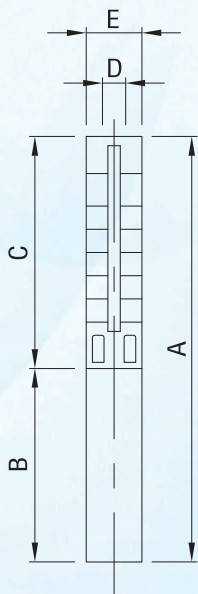
Model	HP	KW	Dimensions(mm)						Weight (kg)	Full Load Current (A)		
			A(전체)		B(모터)		C	D		E	1 ϕ 230V	3 ϕ 380V
			1 ϕ 230V	3 ϕ 380V	1 ϕ 220V	3 ϕ 380V	(펌프)	(토출)	(외경)			
SP-4003	1	0.75	626	626	298	298	328	50	98	3.3	9.8	2.9
SP-4004	1	0.75	668	668	298	298	370			3.8	9.8	2.9
SP-4005	2	1.5	796	758	384	346	412			4.3	13.2	4.9
SP-4007	2	1.5	880	842	384	346	496			5.3	13.2	4.9
SP-4009	3	2.2	1064	988	484	408	580			6.3	17.0	6.6
SP-4012	5	3.7	1448	1296	742	590	706			7.8	27.5	10.8
SP-4015	5	3.7	1574	1422	742	590	832			9.3	27.5	10.8
SP-4021	7.5	5.5	-	1826	-	742	1084			12.3	-	16.0
SP-4025	7.5	5.5	-	1994	-	742	1252			14.3	-	16.0
SP-4030	10	7.5	-	2105	-	646	1459		98/ 138	16.8	-	22.8/19.5
SP-4037	15	11	-	2465	-	712	1753	138	20.3	-	28.7	
SP-4044	15	11	-	2756	-	712	2044		23.8	-	28.7	
SP-4050	20	15	-	3455	-	778	2677	140	50.0	-	36.7	
SP-4058	20	15	-	3791	-	778	3013		56.0	-	36.7	
SP-4066	25	18.5	-	4190	-	841	3349		63.0	-	45.4	

STAIRS SP SERIES 4" PUMP SP 70



Selection Chart

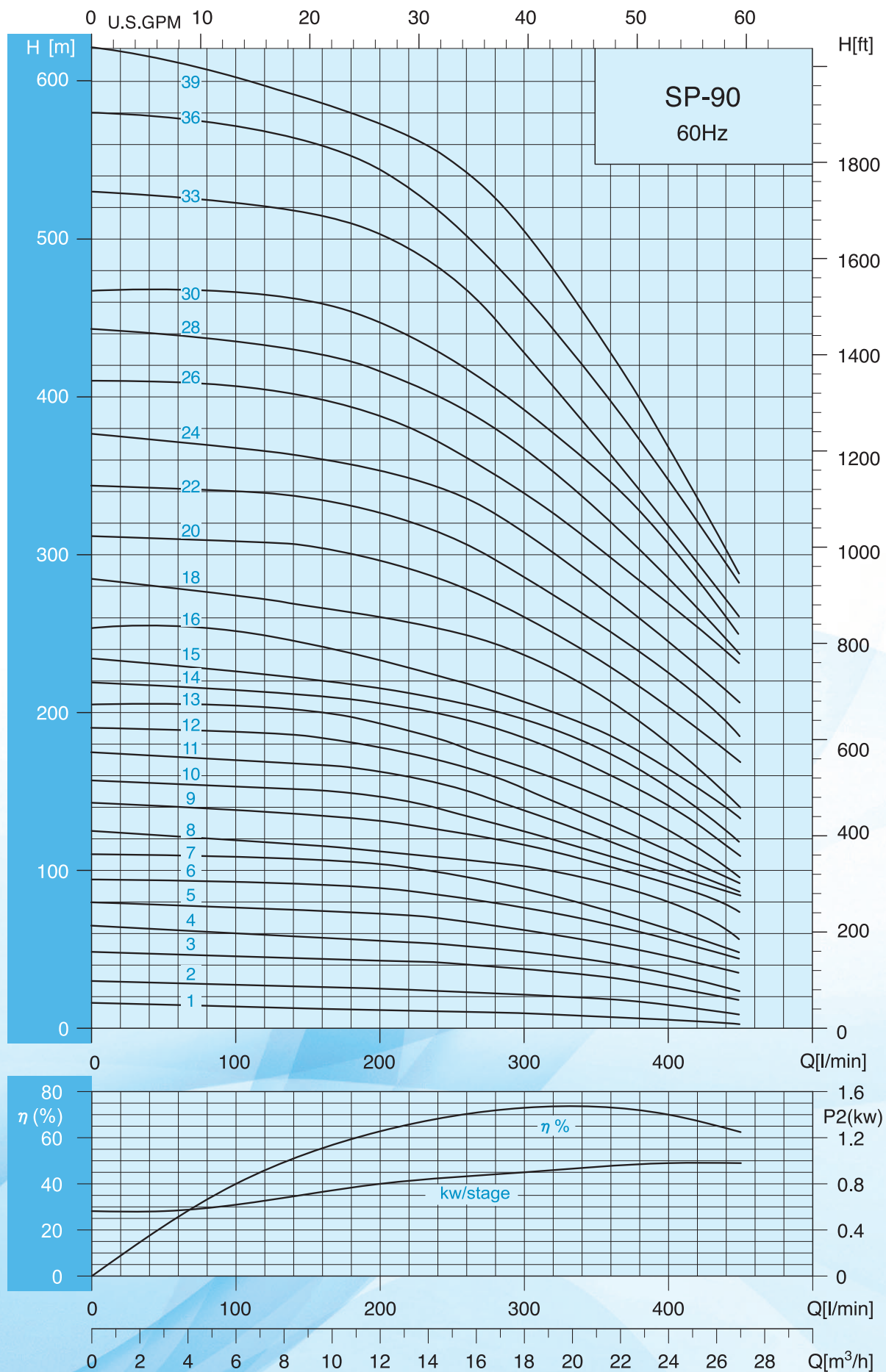
Model	HP	KW	구경 (mm)	전양정 (m)	25	50	75	100	125	150	175	200	225	250
SP-7003	2	1.5	50	29	259	(10m-500t/d)								
SP-7005	3	2.2		48	492	(40m-259t/d)								
SP-7008	5	3.7		77	500	432	(60m-374t/d)							
SP-7012	7.5	5.5		115		500	446	202						
SP-7016	10	7.5		154			500	454	346	(140m-245t/d)				



Dimensions And Weights

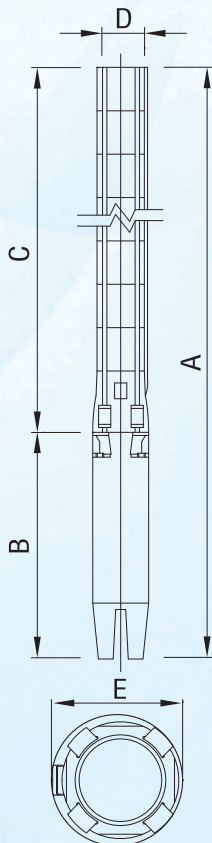
Model	HP	KW	Dimensions(mm)							Weight (kg)	Full Load Current (A)	
			A(전체)		B(모터)		C	D	E		1 ϕ 230V	3 ϕ 380V
			1 ϕ 230V	3 ϕ 380V	1 ϕ 220V	3 ϕ 380V	(펌프)	(토출)	(외경)			
SP-7003	2	1.5	759	721	384	346	375	50	98	3.7	13.2	4.9
SP-7005	3	2.2	989	913	484	408	505			5.0	17.0	6.6
SP-7008	5	3.7	1442	1290	742	590	700			7.0	27.5	10.8
SP-7012	7.5	5.5	-	1702	-	742	960			9.5	-	16.0
SP-7016	10	7.5	-	1993	-	773	1220			12.1	-	22.8

STAIRS SP SERIES 6" PUMP SP 90



Selection Chart

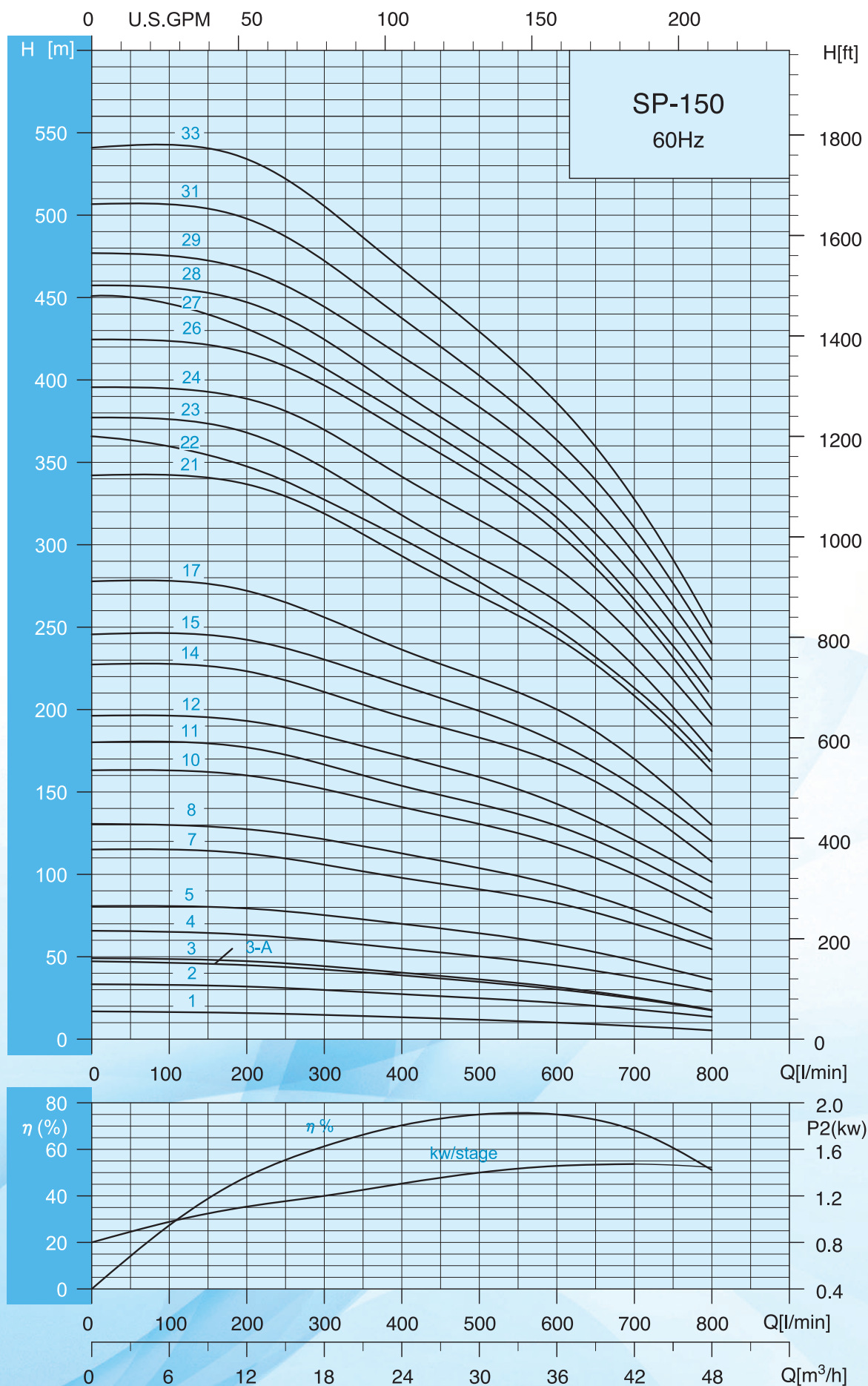
Model	HP	KW	구경 (mm)	전양정 (m)	25	50	75	100	150	200	250	300	350	400	450	500	550	600
SP90-1	2	1.5	65	18	(0m-624t/d, 10m-480t/d)													
SP90-2	3	2.2		30	408	(20m-528t/d)												
SP90-3	5	3.7		49	612	(40m-388t/d)												
SP90-4	5	3.7		65	648	432												
SP90-5	7.5	5.5		80	648	560	(70m-345t/d)											
SP90-6	7.5	5.5		95	648	622	446	(90m-259t/d)										
SP90-7	10	7.5		110		648	530	330										
SP90-8	10	7.5		125		648	590	446										
SP90-9	10	7.5		142			648	515	(130m-316t/d)									
SP90-10	15	11		158			648	560	266									
SP90-11	15	11		174			648	594	374	(165m-263t/d)								
SP90-12	15	11		189			648	626	453	(175m-302t/d)								
SP90-13	15	11		203				648	480	240								
SP90-14	20	15		220				648	532	331								
SP90-15	20	15		236				648	561	403	(220m-309t/d)							
SP90-16	20	15		255				648	590	446	172							
SP90-18	20	15		285				648	600	518	360	(270m-262t/d)						
SP90-20	25	18.5		312				648	561	446	259							
SP90-22	25	18.5		342				648	600	504	384	(325m-288t/d)						
SP90-24	30	22		379					648	547	453	300						
SP90-26	30	22		410					648	583	500	396	216					
SP90-28	40	30		442					648	612	532	453	338	(430m-223t/d)				
SP90-30	40	30		465					648	629	565	492	403	273				
SP90-33	40	30		530						648	576	528	456	384	288			
SP90-36	40	30		580						648	612	552	504	456	360	264		
SP90-39	50	37		620							648	576	528	480	420	348	153	



Dimensions And Weights

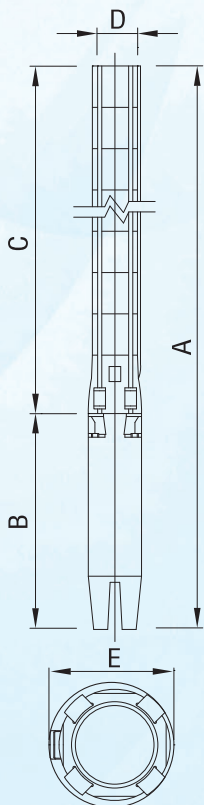
Model	HP	KW	Full Load Current (A)	Dimensions(mm)					Weight (kg)
			3φ 380V (A)	A(전체)	B(모터)	C(펌프)	D(토출)	E(외경)	
SP90-1	2	1.5	4.9	689	346	343	65	131	5.0
SP90-2	3	2.2	6.6	811	408	403			6.4
SP90-3	5	3.7	10.8	1054	590	464			7.9
SP90-4	5	3.7	10.8	1114	590	524			9.3
SP90-5	7.5	5.5	16.0	1327	742	585			10.8
SP90-6	7.5	5.5	16.0	1387	742	645			12.2
SP90-7	10	7.5	19.5	1352	646	706			13.7
SP90-8	10	7.5	19.5	1412	646	766			15.1
SP90-9	10	7.5	19.5	1473	646	827			16.6
SP90-10	15	11	28.7	1599	712	887			18.0
SP90-11	15	11	28.7	1660	712	948			19.5
SP90-12	15	11	28.7	1720	712	1008			20.9
SP90-13	15	11	28.7	1781	712	1069			22.4
SP90-14	20	15	36.7	1907	778	1129		142	23.8
SP90-15	20	15	36.7	1968	778	1190			25.3
SP90-16	20	15	36.7	2028	778	1250			26.7
SP90-18	20	15	36.7	2149	778	1371			29.6
SP90-20	25	18.5	45.4	2333	841	1492			32.5
SP90-22	25	18.5	45.4	2454	841	1613			35.4
SP90-24	30	22	54.7	2641	907	1734			38.3
SP90-26	30	22	54.7	2762	907	1855			41.2
SP90-28	40	30	75.0	3013	1037	1976			44.1
SP90-30	40	30	75.0	3134	1037	2097			47.0
SP90-33	40	30	75.0	3316	1037	2279			51.4
SP90-36	40	30	75.0	3497	1037	2460			55.7
SP90-39	50	37	93.2	4046	1405	2641			60.0

STAIRS SP SERIES 6" PUMP SP 150



Selection Chart

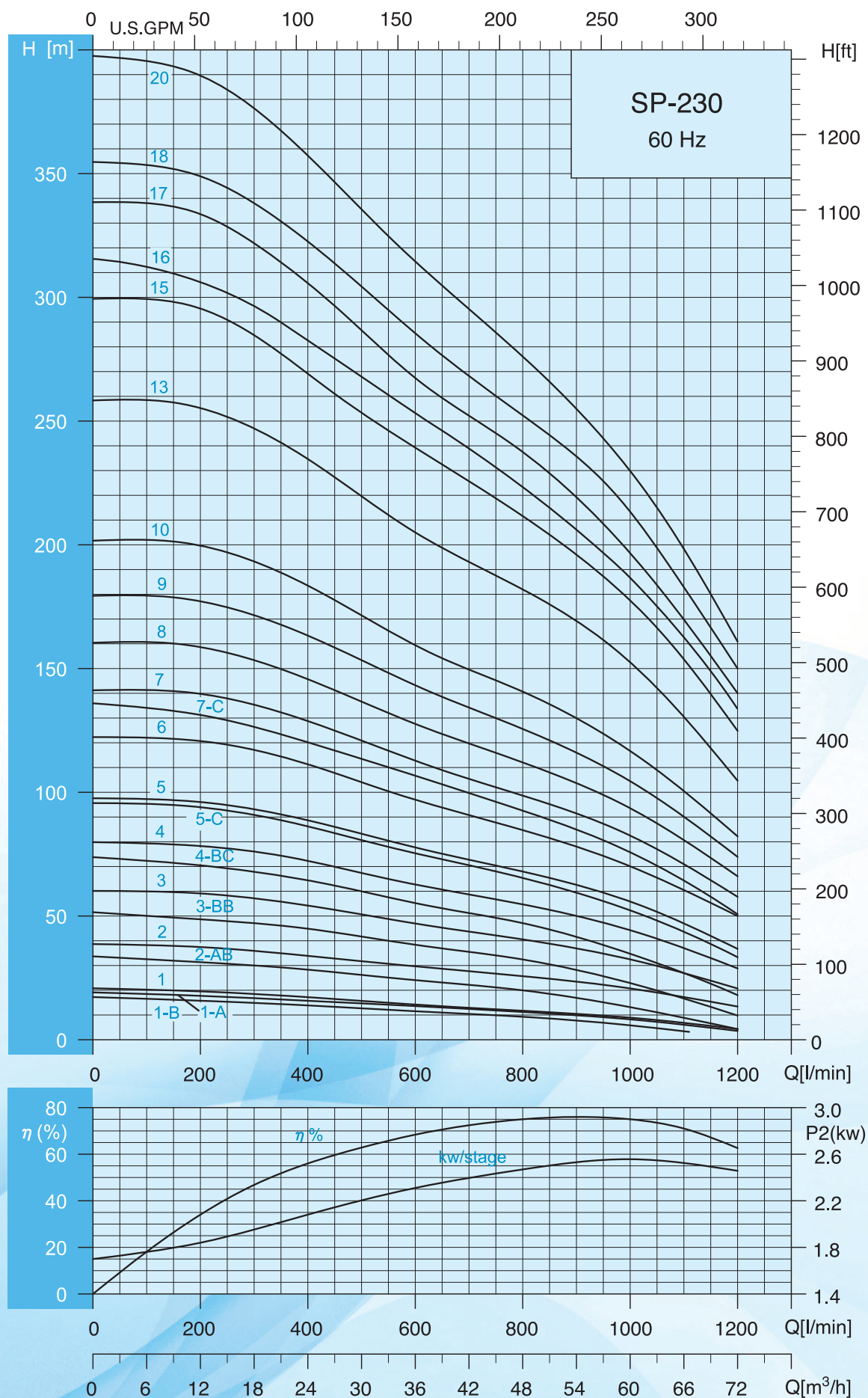
Model	HP	KW	구경 (mm)	전양정 (m)	5	10	20	50	100	150	200	250	300	350	400	450	500	550
SP150-1	2	1.5	80	17	1150	816												
SP150-2	5	3.7		35		1150	936	(30m-384t/d)										
SP150-3-A	5	3.7		48		1150	1058	(40m-504t/d)										
SP150-3	5	3.7		50			1150	(40m-576t/d)										
SP150-4	7.5	5.5		66			1150	720										
SP150-5	10	7.5		80			1150	972	(70m-576t/d)									
SP150-7	15	11		115				1150	532	(75m-964t/d)								
SP150-8	15	11		130				1150	775	(120m-445t/d)								
SP150-10	20	15		165				1150	1008	453								
SP150-11	20	15		180				1150	1065	619	(170m-388t/d)							
SP150-12	25	18.5		196				1150	1123	806	(180m-475t/d)							
SP150-14	25	18.5		230					1150	964	530	(220m-324t/d)						
SP150-15	30	22		246					1150	1022	720	(230m-432t/d)						
SP150-17	30	22		280					1150	1080	864	475	(270m-305t/d)					
SP150-21	40	30		342						1150	1036	828	532	(330m-417t/d)				
SP150-22	40	30		365						1150	1050	852	600	264				
SP150-23	40	30		378						1150	1080	921	676	403				
SP150-24	50	37		395						1150	1123	979	792	532	(380m-360t/d)			
SP150-26	50	37		424							1150	1036	892	676	403			
SP150-27	50	37		450							1150	1051	907	720	475			
SP150-28	50	37		458							1150	1080	950	777	540	252		
SP150-29	60	45		478							1150	1108	993	849	648	403		
SP150-31	60	45		508								1150	1029	907	575	525	259	
SP150-33	60	45		540								1150	1065	957	820	645	453	



Dimensions And Weights

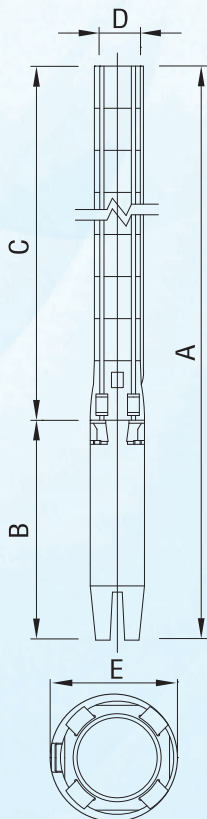
Model	HP	KW	Full Load Current (A)	Dimensions(mm)					Weight (kg)
			3φ380V (A)	A(전체)	B(모터)	C(펌프)	D(토출)	E(외경)	
SP150-1	2	1.5	4.9	712	346	366	80	131	6.7
SP150-2	5	3.7	10.8	1052	590	462			8.4
SP150-3-A	5	3.7	10.8	1148	590	558			10.1
SP150-3	5	3.7	10.8	1148	590	558			10.1
SP150-4	7.5	5.5	16.0	1396	742	654			11.8
SP150-5	10	7.5	19.5	1396	646	750			13.5
SP150-7	15	11	28.7	1654	712	942		142	16.9
SP150-8	15	11	28.7	1750	712	1038			18.6
SP150-10	20	15	36.7	2008	778	1230			22.0
SP150-11	20	15	36.7	2104	778	1326			23.6
SP150-12	25	18.5	45.4	2263	841	1422			25.3
SP150-14	25	18.5	45.4	2359	841	1518			28.7
SP150-15	30	22	54.7	2617	907	1710			30.4
SP150-17	30	22	54.7	2809	907	1902			33.8
SP150-21	40	30	75.0	3323	1037	2286			40.6
SP150-22	40	30	75.0	3418	1037	2381			42.3
SP150-23	40	30	75.0	3515	1037	2478			44.0
SP150-24	50	37	93.2	3979	1405	2574			45.6
SP150-26	50	37	93.2	4171	1405	2766			49.0
SP150-27	50	37	93.2	4266	1405	2861			50.7
SP150-28	50	37	93.2	4363	1405	2958			52.4
SP150-29	60	45	110.2	4612	1558	3054			54.1
SP150-31	60	45	110.2	4804	1558	3246			57.5
SP150-33	60	45	110.2	4996	1558	3438			60.9

STAIRS SP SERIES 6" PUMP SP 230



Selection Chart

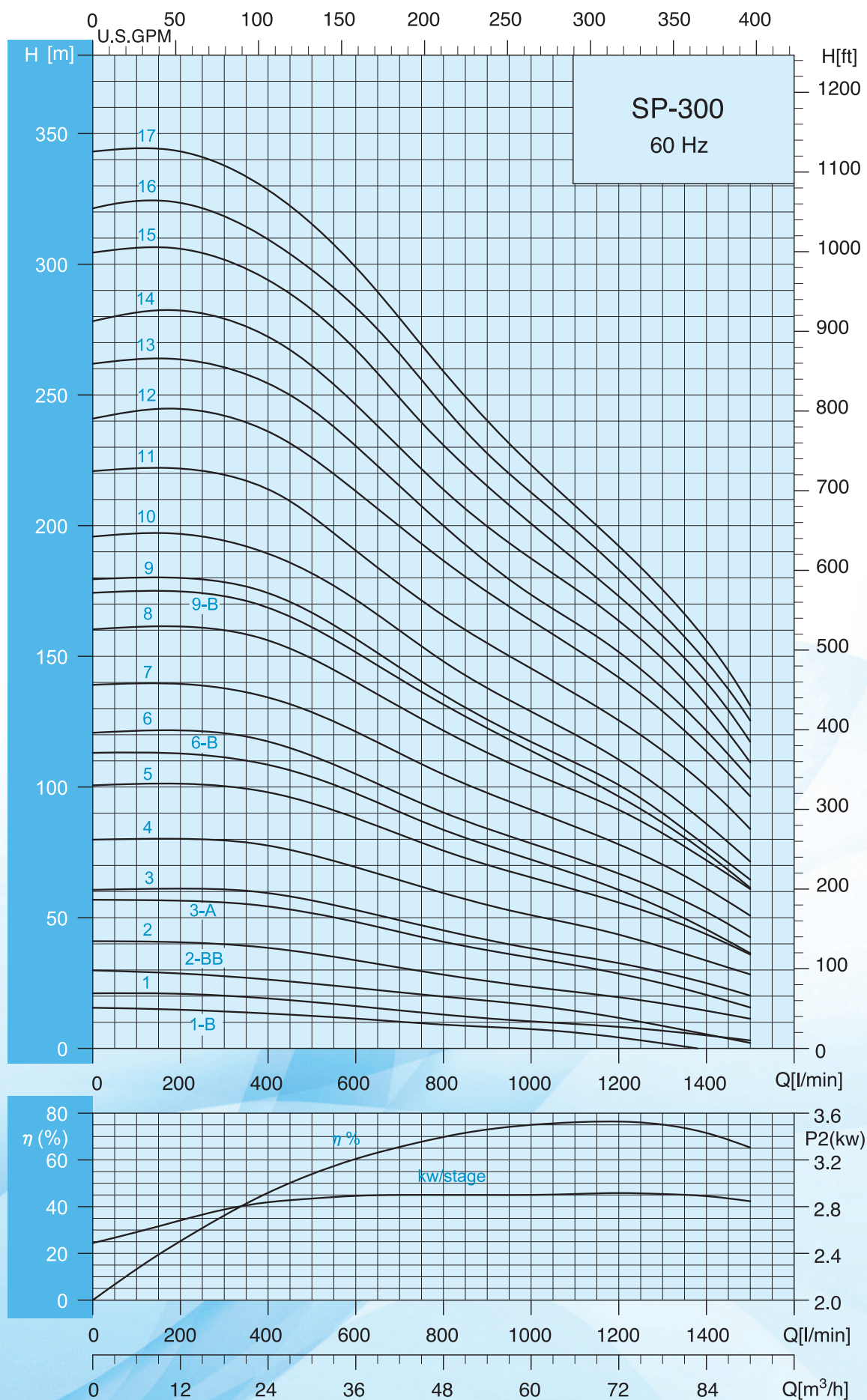
Model	HP	KW	구경 (mm)	전양정 (m)	5	10	20	50	75	100	125	150	175	200	225	250	300	350	400
SP230-1-B	2	1.5		15	1480	1008													
SP230-1-A	3	2.2		18	1720	1296	(15m-720t/d)												
SP230-1	5	3.7		20	1720	1416	(15m-864t/d)												
SP230-2-AB	5	3.7		31	1720	1512	1152												
SP230-2	7.5	5.5		38		1720	1454	(30m-756t/d)											
SP230-3-BB	7.5	5.5		51		1720	1512	(40m-627t/d)											
SP230-3	10	7.5		58			1720	730	(40m-1180t/d)										
SP230-4-BC	10	7.5		73			1720	972	(60m-720t/d)										
SP230-4	15	11		80			1720	1296	(70m-648t/d)										
SP230-5-C	15	11		95			1720	1512	864	(90m-468t/d)									
SP230-5	20	15		98			1720	1548	936	(90m-540t/d)									
SP230-6	20	15		117				1720	1353	792									
SP230-7-C	20	15		136				1720	1476	1008	468								
SP230-7	25	18.5		141				1720	1548	1116	648								
SP230-8	25	18.5		156				1720	1627	1340	907	504							
SP230-9	30	22		177					1720	1483	1166	763	(170m-460t/d)						
SP230-10	30	22		201					1720	1584	1339	1008	684						
SP230-13	40	30		257						1720	1620	1468	1238	921	676	388			
SP230-15	50	37		300							1720	1620	1468	1260	1008	756			
SP230-16	50	37		315							1720	1552	1511	1335	1134	896	430		
SP230-17	50	37		338							1720	1684	1555	1411	1260	1036	619		
SP230-18	60	45		355								1720	1620	1512	1368	1180	756	259	
SP230-20	60	45		398								1720	1684	1580	1512	1324	972	604	



Dimensions And Weights

Model	HP	KW	Full Load Current (A)		Dimensions(mm)					Weight (kg)
			3φ 380V (A)		A(전체)	B(모터)	C(펌프)	D(토출)	E(외경)	
SP230-1-B	2	1.5	4.9		729	346	383	100	146	6.9
SP230-1-A	3	2.2	6.6		791	408	383			6.9
SP230-1	5	3.7	10.8		973	590	383			6.9
SP230-2-AB	5	3.7	10.8		1086	590	496			9.2
SP230-2	7.5	5.5	16.0		1238	742	496			9.2
SP230-3-BB	7.5	5.5	16.0		1351	742	609			11.5
SP230-3	10	7.5	19.5		1255	646	609		149	11.5
SP230-4-BC	10	7.5	19.5		1368	646	722			13.7
SP230-4	15	11	28.7		1434	712	722			13.7
SP230-5-C	15	11	28.7		1547	712	835			16.0
SP230-5	20	15	36.7		1613	778	835			16.0
SP230-6	20	15	36.7		1726	778	948			18.3
SP230-7-C	20	15	36.7		1839	778	1061			20.6
SP230-7	25	18.5	45.4		1902	841	1061			20.6
SP230-8	25	18.5	45.4		2015	841	1174			22.9
SP230-9	30	22	54.7		2194	907	1287			25.1
SP230-10	30	22	54.7		2307	907	1400			27.4
SP230-13	40	30	75.0		2776	1037	1739			34.3
SP230-15	50	37	93.2		3370	1405	1965			38.8
SP230-16	50	37	93.2		3483	1405	2078			41.0
SP230-17	50	37	93.2		3596	1405	2191			43.4
SP230-18	60	45	110.2		3862	1558	2304			45.7
SP230-20	60	45	110.2		4088	1558	2530			50.2

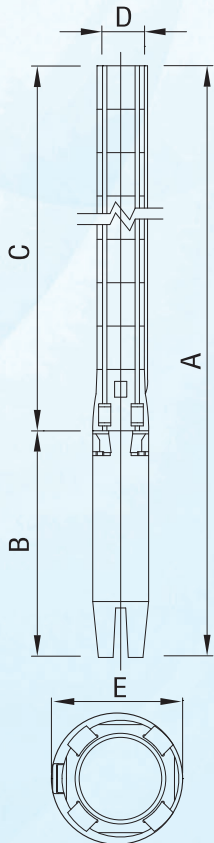
STAIRS SP SERIES 6" PUMP SP 300



Selection Chart

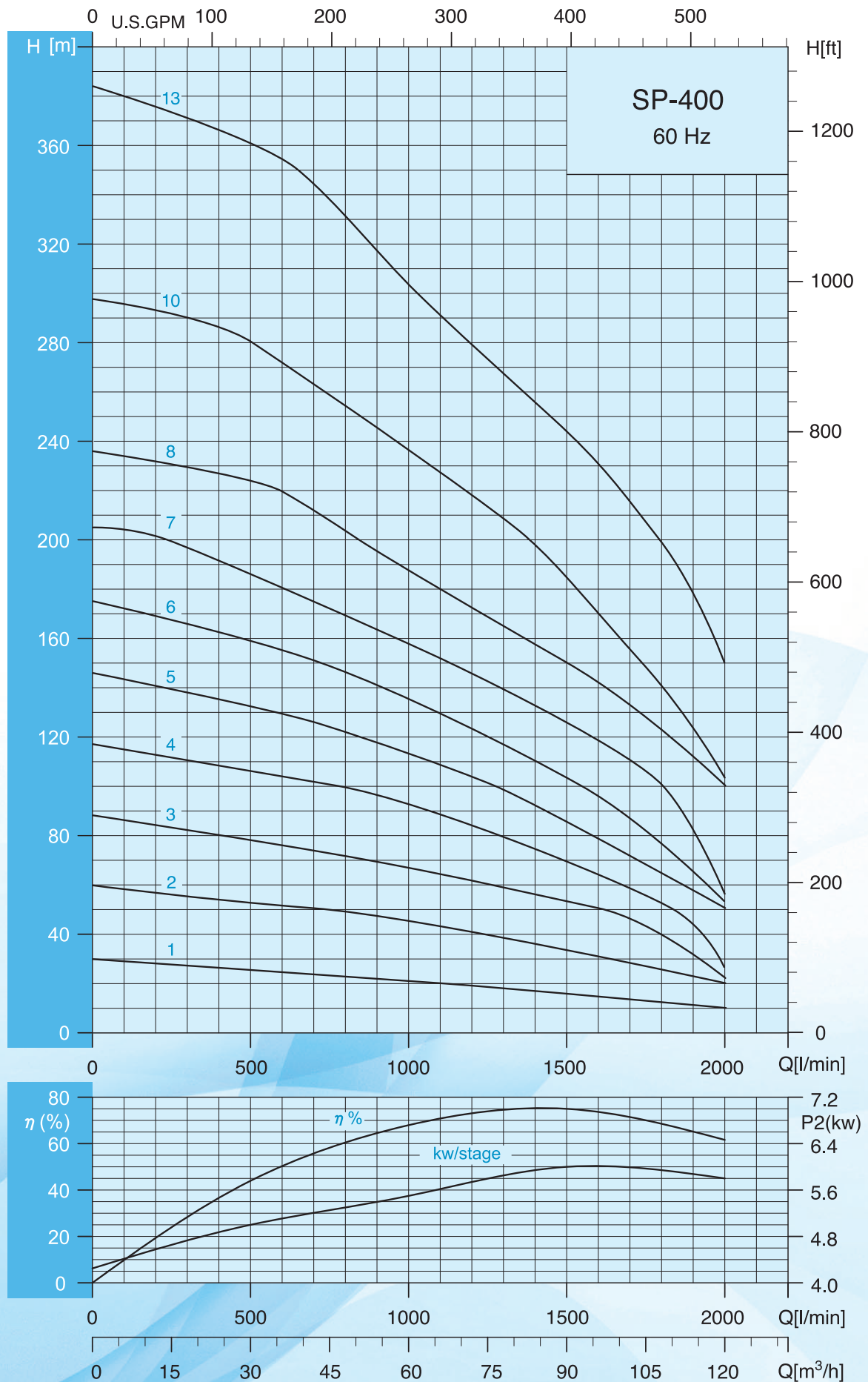
Model	HP	KW	구경 (mm)	전양정 (m)	5	10	20	50	75	100	125	150	175	200	225	250	300	350
SP300-1-B	3	2.2	100	15	1656	1008												
SP300-1	5	3.7		19	2064	1632	(15m-936t/d)											
SP300-2-BB	5	3.7		30	2016	1800	1152	(25m-648t/d)										
SP300-2	7.5	5.5		40		2160	1670	(30m-1050t/d)										
SP300-3-A	10	7.5		57		2160	2030	792										
SP300-3	15	11		62			2160	972										
SP300-4	15	11		80			2160	1476	684									
SP300-5	20	15		102			2160	1872	1180	(90m-820t/d)								
SP300-6-B	20	15		112			2160	1944	1368	806								
SP300-6	25	18.5		125			2160	2052	1540	950								
SP300-7	25	18.5		140				2160	1800	1238	792							
SP300-8	30	22		165				2160	1973	1555	1108	705						
SP300-9-B	30	22		175				2160	2016	1728	1260	892						
SP300-9	40	30		184				2160	2052	1742	1310	950	562					
SP300-10	40	30		198				2160	2117	1872	1498	1123	820					
SP300-11	40	30		222					2160	2016	1742	1368	1044	756				
SP300-12	50	37		240					2160	2124	1908	1620	1296	1008	720			
SP300-13	50	37		262						2160	1980	1757	1411	1152	907	648		
SP300-14	50	37		278						2160	2052	1857	1612	1296	1044	828		
SP300-15	60	45		305						2160	2117	1944	1700	1440	1195	994	(280m-748t/d)	
SP300-16	60	45		321							2160	2000	1800	1555	1332	1123	691	
SP300-17	60	45		342				(320m-676t/d)				2160	2059	1872	1656	1425	1224	849

Dimensions And Weights



Model	HP	KW	Full Load Current (A)		Dimensions(mm)					Weight (kg)
			3φ 380V (A)		A(전체)	B(모터)	C(펌프)	D(토출)	E(외경)	
SP300-1-B	3	2.2	6.6		791	408	383	100	146	6.9
SP300-1	5	3.7	10.8		973	590	383			6.9
SP300-2-BB	5	3.7	10.8		1086	590	496			9.2
SP300-2	7.5	5.5	16.0		1238	742	496			9.2
SP300-3-A	10	7.5	19.5		1255	646	609		152	11.5
SP300-3	15	11	28.7		1321	712	609			11.5
SP300-4	15	11	28.7		1434	712	722			13.7
SP300-5	20	15	36.7		1613	778	835			16.0
SP300-6-B	20	15	36.7		1726	778	948			18.3
SP300-6	25	18.5	45.4		1789	841	948			18.3
SP300-7	25	18.5	45.4		1145	841	1061			20.6
SP300-8	30	22	54.7		2081	907	1174			22.9
SP300-9-B	30	22	54.7		2194	907	1287			25.1
SP300-9	40	30	75.0		2324	1037	1287			25.1
SP300-10	40	30	75.0		2437	1037	1400			27.4
SP300-11	40	30	75.0		2550	1037	1513			29.4
SP300-12	50	37	93.2		3031	1405	1626			32.0
SP300-13	50	37	93.2		3144	1405	1739			34.3
SP300-14	50	37	93.2		3257	1405	1852			36.5
SP300-15	60	45	110.2		3523	1558	1965			38.8
SP300-16	60	45	110.2		3636	1558	2078			41.1
SP300-17	60	45	110.2		3749	1558	2191			43.4

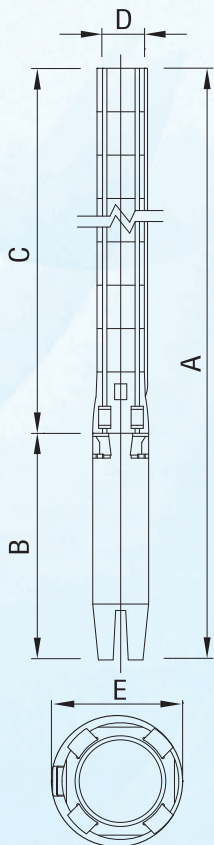
STAIRS SP SERIES 8" PUMP SP 400



Selection Chart

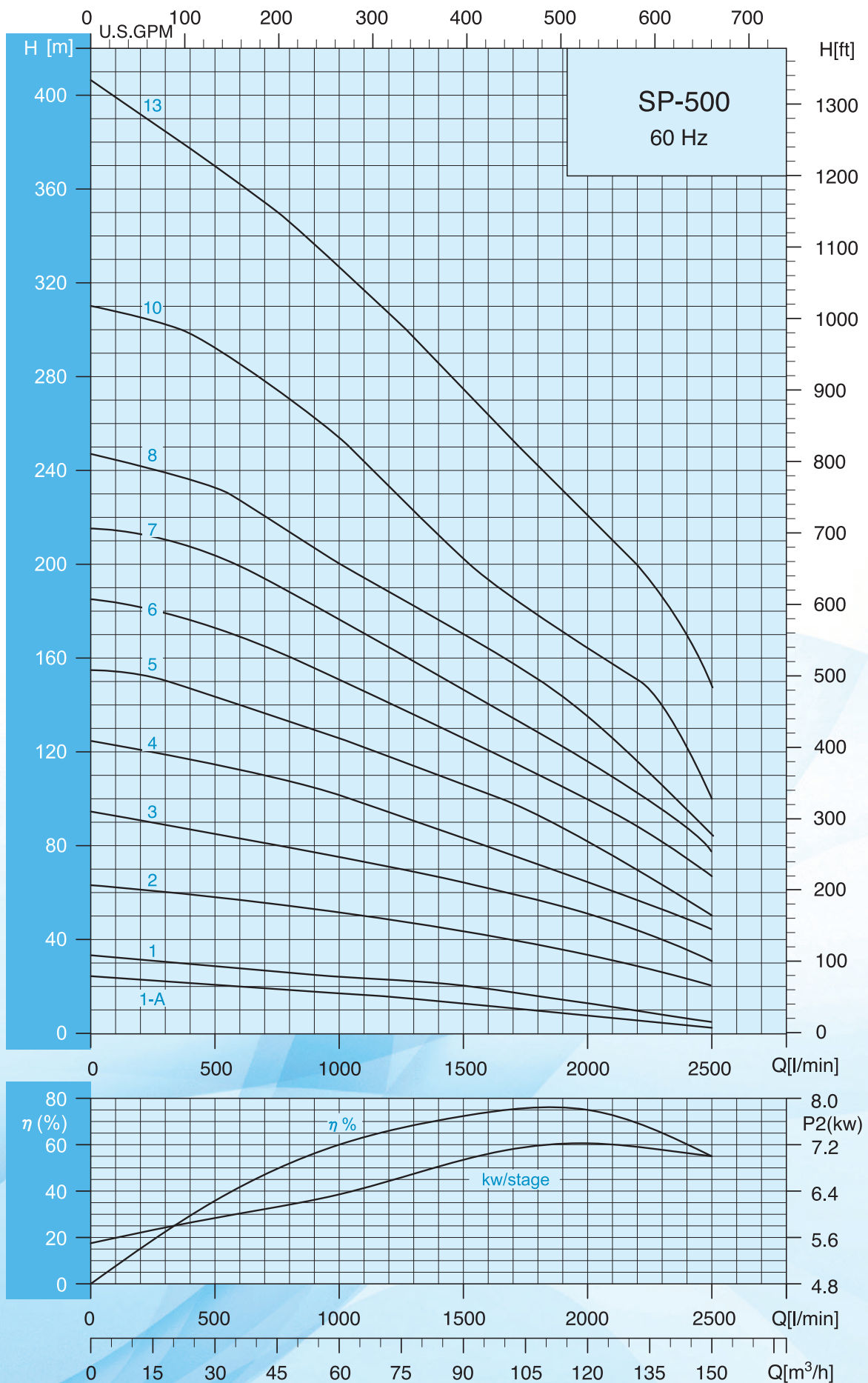
Model	HP	KW	구경 (mm)	전양정 (m)	5	10	20	50	100	150	200	250	300	350	400	450	500
SP400-1	7.5	5.5		30		2880	1584										
SP400-2	15	11		60			2880	1008									
SP400-3	25	18.5		88			2880	2304	(70M-1248t/d)								
SP400-4	30	22		117			2880	2664	1104								
SP400-5	40	30		146				2880	1824	(125M-1032t/d)							
SP400-6	50	37		175				2880	2208	1032							
SP400-7	50	37		205				2880	2592	1632	336						
SP400-8	60	45		236					2880	2160	1200	(220M-864t/d)					
SP400-10	75	55		298					2880	2496	1992	1224	(280M-744t/d)				
SP400-13	100	75		385						2880	2568	2088	1488	936			

Dimensions And Weights



Model	HP	KW	Full Load Current (A)	Dimensions(mm)					Weight (kg)
			3φ 380V (A)	A(전체)	B(모터)	C(펌프)	D(토출)	E(외경)	
SP400-1	7.5	5.5	14.9	1233	615	618	125	178	25.1
SP400-2	15	11	28.7	1458	712	746			28.7
SP400-3	25	18.5	45.4	1715	841	874			32.3
SP400-4	30	22	54.7	1910	907	1003			35.9
SP400-5	40	30	75.0	2168	1037	1131			39.5
SP400-6	50	37	93.2	2664	1405	1259			43.0
SP400-7	50	37	93.2	2792	1405	1387			46.6
SP400-8	60	45	110.2	3085	1558	1527	200		51.6
SP400-10	75	55	130.0	2987	1204	1783			58.8
SP400-13	100	75	181.0	3563	1395	2168			69.6

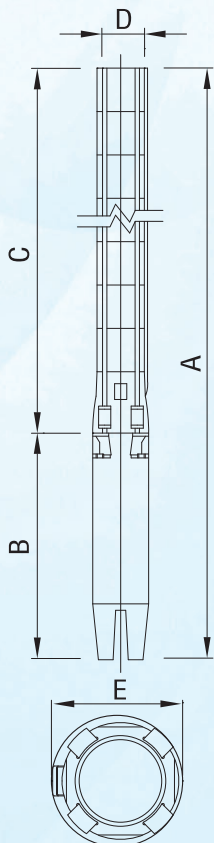
STAIRS SP SERIES 8" PUMP SP 500



Selection Chart

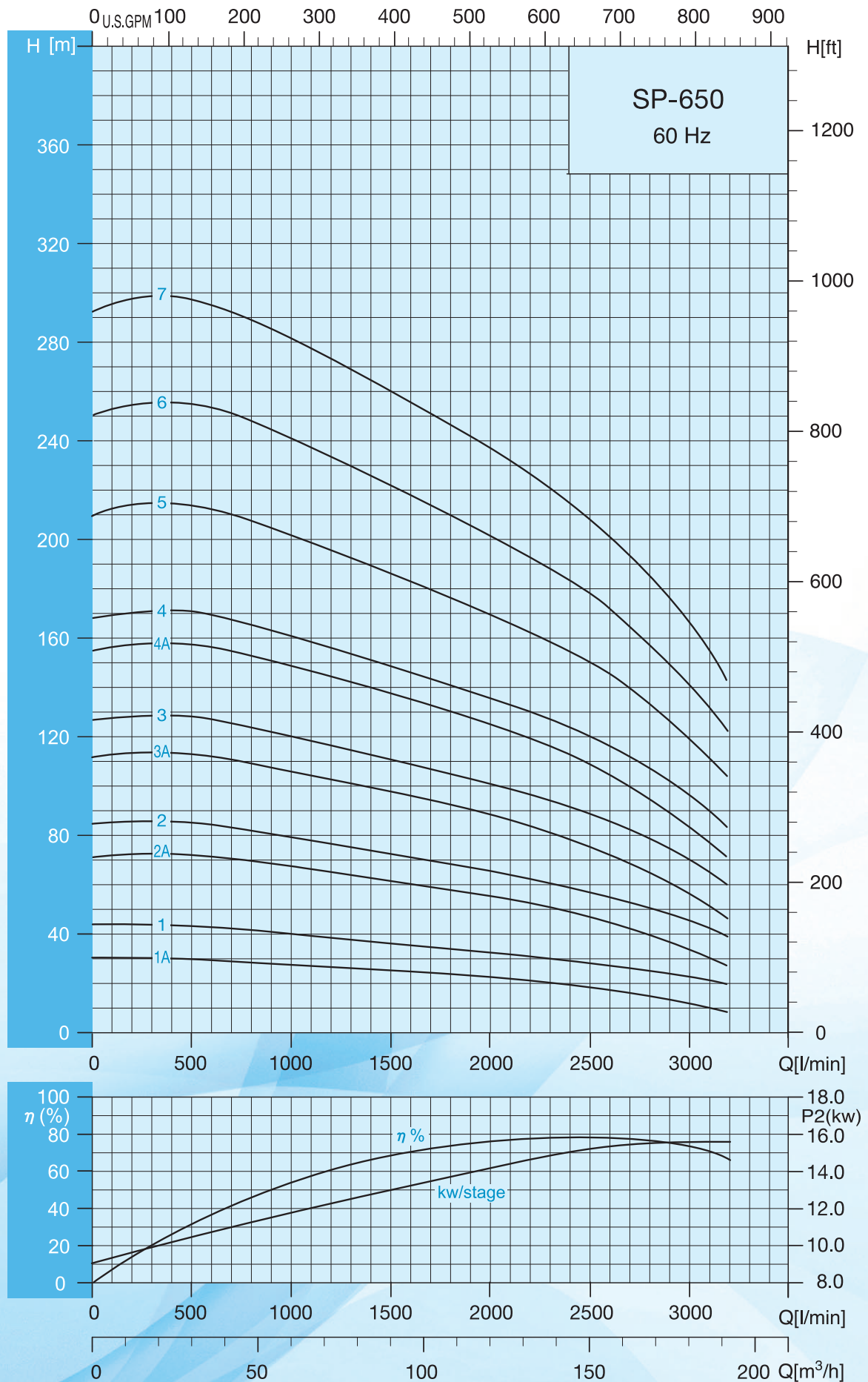
Model	HP	KW	구경 (mm)	전양정 (m)	5	10	20	50	100	150	200	250	300	350	400	450	500
SP500-1-A	7.5	5.5		23	3144	2568	720	(15M-1872t/d)									
SP500-1	10	7.5		32	3288	3072	2160	(25M-1224t/d)									
SP500-2	20	15		62			3600	1512	(35M-2820t/d)								
SP500-3	30	22		93			3600	2904	(75M-1440t/d)								
SP500-4	40	30		123			3600	3384	1464								
SP500-5	50	37		155				3600	2352	432	(125M-1488t/d)						
SP500-6	50	37		183				3600	2880	1415							
SP500-7	60	45		215				3600	3192	2064	792	(180M-1296t/d)					
SP500-8	75	55		247				3600	3384	2592	1440	(230M-792t/d)					
SP500-10	100	75		310					3600	3192	2208	1512	528				
SP500-13	125	93		407					3600	3528	3168	2472	1824	1080	(380M-528t/d)		

Dimensions And Weights



Model	HP	KW	Full Load Current (A)	Dimensions(mm)					Weight (kg)
			3 ϕ 380V (A)	A(전체)	B(모터)	C(펌프)	D(토출)	E(외경)	
SP500-1-A	7.5	5.5	14.9	1233	615	618	125	179	25.1
SP500-1	10	7.5	19.5	1264	646	618			25.1
SP500-2	20	15	36.7	1524	778	746			28.7
SP500-3	30	22	54.7	1781	907	874			32.3
SP500-4	40	30	75.0	2040	1037	1003			35.9
SP500-5	50	37	93.2	2536	1405	1131			39.5
SP500-6	50	37	93.2	2664	1405	1259			43.0
SP500-7	60	45	110.2	2956	1558	1398	205	205	48.0
SP500-8	75	55	130.0	2731	1204	1527			51.6
SP500-10	100	75	181.0	3178	1395	1783			58.8
SP500-13	125	93	223.0	3916	1748	2168			69.6

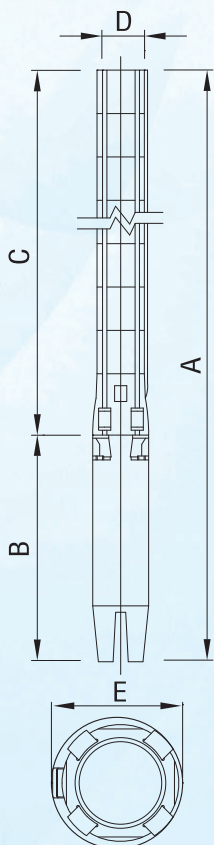
STAIRS SP SERIES 10" PUMP SP 650



Selection Chart

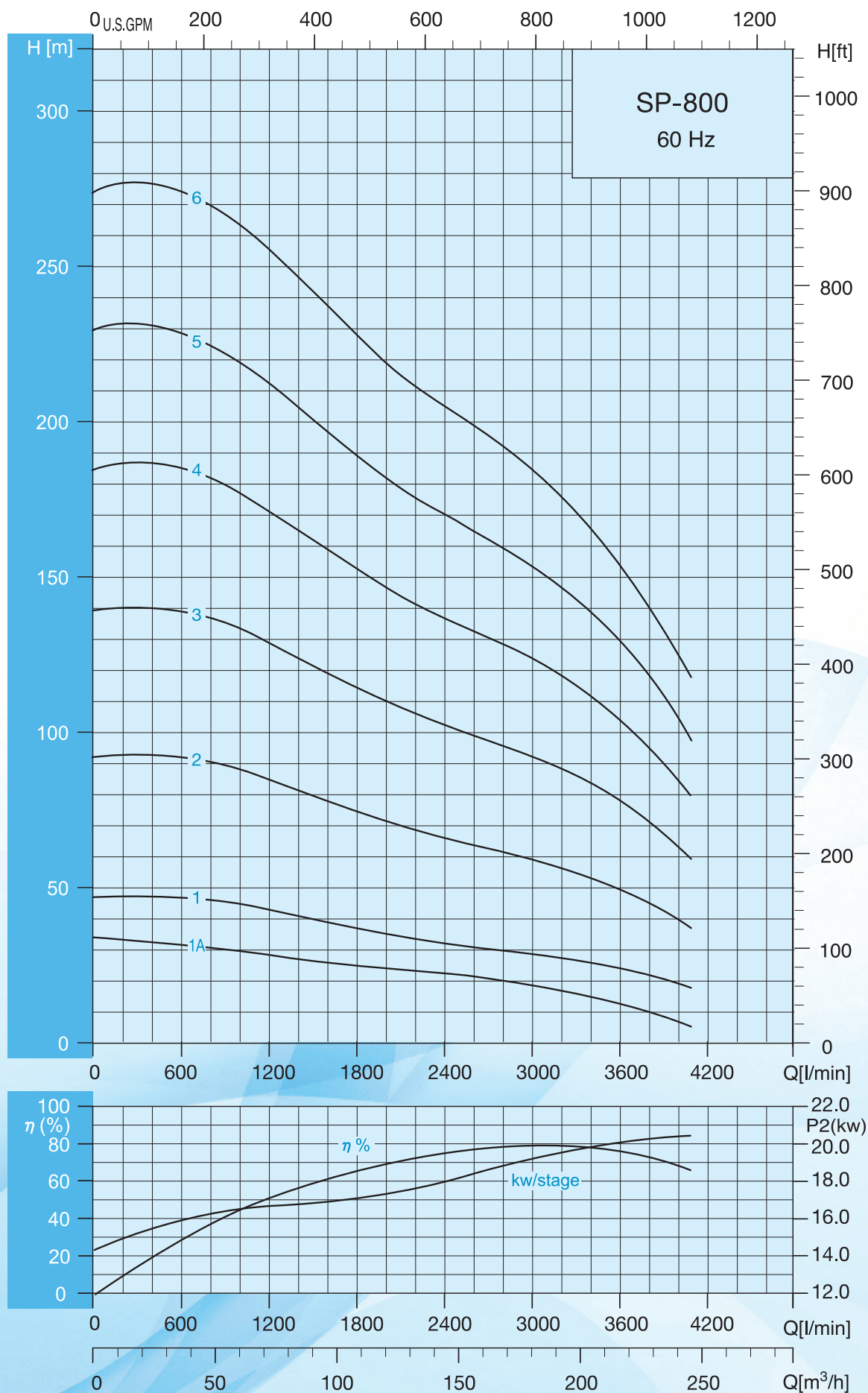
Model	HP	KW	구경 (mm)	전양정 (m)	5	10	20	50	75	100	125	150	200	250	300	350	400
SP650-1-A	15	11	150	30	4600	4440	3280	(25M-2080t/d)									
SP650-1	25	18.5		44		4600	4500	30M-3240t/d)									
SP650-2-A	40	30		73			4600	3384	(60M-2328t/d)								
SP650-2	40	30		86			4600	4060	1872								
SP650-3-A	50	37		114			4600	4512	3672	2040							
SP650-3	60	45		129				4600	4176	2909	1080						
SP650-4-A	75	55		159				4600	4488	3912	2928	1440					
SP650-4	100	75		172					4600	4219	3384	2088					
SP650-5	100	75		215						4600	4230	3600	1512				
SP650-6	125	93		255							4600	4176	2923	1008			
SP650-7	150	110		298							4600	4507	3787	2448	(280M-1454t/d)		

Dimensions And Weights



Model	HP	KW	Full Load Current (A)		Dimensions(mm)					Weight (kg)
			3 ϕ 380V (A)		A(전체)	B(모터)	C(펌프)	D(토출)	E(외경)	
SP650-1-A	15	11	28.7		1364	712	652	150	211	35.5
SP650-1	25	18.5	45.4		1493	841	652			35.5
SP650-2-A	40	30	75.0		1844	1037	807			39.5
SP650-2	40	30	75.0		1844	1037	807			39.5
SP650-3-A	50	37	93.2		2368	1405	963		213	45.0
SP650-3	60	45	110.2		2521	1558	963			45.0
SP650-4-A	75	55	130.0		2322	1204	1118			53.0
SP650-4	100	75	181.0		2513	1395	1118			53.0
SP650-5	100	75	181.0		2669	1395	1274			61.0
SP650-6	125	93	223.0		3177	1748	1429			69.0
SP650-7	150	110	267.0		3562	1977	1585			77.0

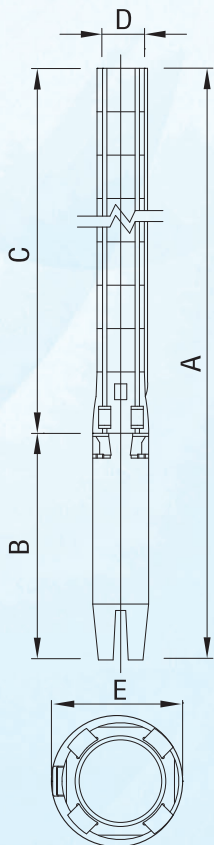
STAIRS SP SERIES 10" PUMP SP 800



Selection Chart

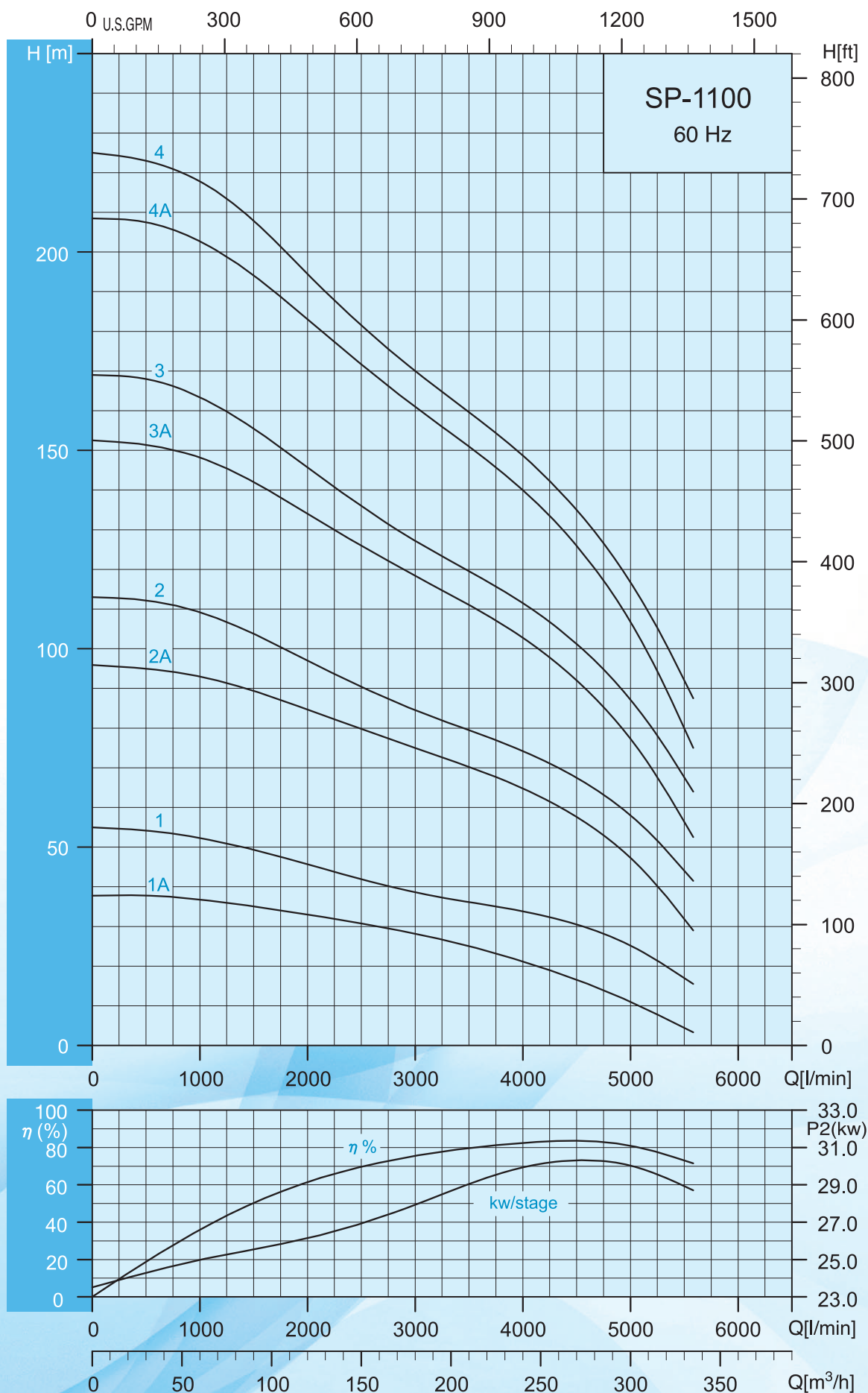
Model	HP	KW	구경 (mm)	전양정 (m)	5	10	20	50	75	100	125	150	200	250	300
SP800-1-A	20	15	150	36	6000	5515	4176	(30M-1440t/d)							
SP800-1	30	22		47		6000	5760	(35M-3024t/d)							
SP800-2	50	37		100			6000	5227	2592						
SP800-3	75	55		142				6000	5328	3672	2016				
SP800-4	100	75		188					6000	5328	4291	2736	(175M-1555t/d)		
SP800-5	125	93		232					6000	5846	5256	4464	2189		
SP800-6	150	110		278						6000	5760	5299	3672	1900	

Dimensions And Weights



Model	HP	KW	Full Load Current (A)	Dimensions(mm)					Weight (kg)
			3 ϕ 380V (A)	A(전체)	B(모터)	C(펌프)	D(토출)	E(외경)	
SP800-1-A	20	15	36.7	1430	778	652	150	211	35.5
SP800-1	30	22	54.7	1559	907	652			35.5
SP800-2	50	37	93.2	2212	1405	807			41.0
SP800-3	75	55	130.0	2167	1204	963			49.0
SP800-4	100	75	181.0	2513	1395	1118			53.0
SP800-5	125	93	223.0	3022	1748	1274		213	59.0
SP800-6	150	110	267.0	3406	1977	1429			75.0

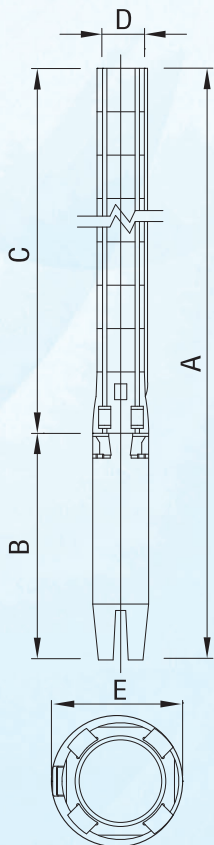
STAIRS SP SERIES 10" PUMP SP 1100



Selection Chart

Model	HP	KW	구경 (mm)	전양정 (m)	5	10	20	50	75	100	125	150	200	250
SP1100-1-A	30	22	150	38	7920	7340	5900	(30M-3780t/d)						
SP1100-1	40	30		56		7920	7630	1980	(35M-5400t/d)					
SP1100-2-A	75	55		96			7920	7020	4320	(85M-2880t/d)				
SP1100-2	100	75		112			7920	7570	5610	2520				
SP1100-3-A	125	93		152				7920	7340	5940	3510	(140M-2340t/d)		
SP1100-3	125	93		169				7920	7340	6550	4500	2520		
SP1100-4-A	150	110		208					7920	7380	6550	5090	1720	
SP1100-4	150	110		225					7920	7630	6910	5610	2590	

Dimensions And Weights



Model	HP	KW	Full Load Current (A)	Dimensions(mm)					Weight (kg)
			3φ380V	A(전체)	B(모터)	C(펌프)	D(토출)	E(외경)	
SP1100-1-A	30	22	54.7	1679	907	772	150	237	46.1
SP1100-1	40	30	75.0	1809	1037	772			46.1
SP1100-2-A	75	55	130.0	2152	1204	948			55.8
SP1100-2	100	75	181.0	2343	1395	948			55.8
SP1100-3-A	125	93	223.0	2872	1748	1124			65.6
SP1100-3	125	93	223.0	2872	1748	1124			65.6
SP1100-4-A	150	110	267.0	3277	1977	1300			75.4
SP1100-4	150	110	267.0	3277	1977	1300			75.4

Motor Data

SPK Stainless Steel Submersible Motor

Features

- 높은 효율로 비용 절약
- NEMA 표준 플랜지
- 스테인레스 스틸 샤프트
- 인버터를 통한 변속운전 가능
- 횡형설치 가능
- 업 스러스트 링 사용으로 안전한 운전 제공
- 내구성이 강한 대용량 스러스트 베어링
- 물 윤활 방식의 레디얼 카본 베어링
- 압력 조절 체크밸브
- 모래에 강한 메카니컬 씰 기본장착
- 샌드가드로 모래 유입 차단



Technical Data

TYPE	Rating			FULL LOAD	MAX LOAD	EFF. %	AXIAL LOAD	Ø MAX	LENGTH	WEIGHT
	HP	KW	S.F.	AMPS	AMPS	F.L.	(N)	(mm)	(mm)	(kg)
6"	7.5	5.5	1.15	13.7	16.0	72	20000	142	623	47
6"	10	7.5	1.15	17.2	20.1	78	20000	142	703	53
6"	12.5	9.3	1.15	21.1	24.6	79	20000	142	743	57
6"	15	11	1.15	23.7	27.7	81	20000	142	796	61
6"	17.5	13	1.15	28.3	33.2	81	20000	142	856	66
6"	20	15	1.15	33.0	38.6	80	20000	142	918	72
6"	25	18.5	1.15	41.8	48.8	80	20000	142	951	80
6"	30	22	1.15	48.5	56.8	81	20000	142	1051	86
6"	35	26.5	1.15	57.0	66.7	82	26500	142	1166	90
6"	40	30	1.15	64.6	75.5	82	26500	142	1196	104
6"	50	37	1.15	80.6	94.3	81	26500	142	1296	111
8"	60	45	1.15	91.0	106	84	45000	191	1093	140
8"	75	55	1.15	109	127	84	45000	191	1178	152
8"	100	75	1.15	149	174	84	45000	191	1283	190
8"	125	92	1.15	185	216	84	55000	191	1428	208

Material Specification

No.	Component Name	Material	No.	Component Name	Material
1	Winding wire	P.P	10	Mechanical seal	Ceramic Carbon
2	Stator package	M350-Magnetic Seal	11	Axial thrust bearing	Carbon with Antimony
3	Stator shell	AISI 304	12	Tilting pads	AISI 420
4	Shaft sleeve	St 37(CrNi coated)	13	Thrust bearing body	AISI 304
5	Radial bearing	Carbon	14	Membrane	NBR-EPDM
6	Upper bearing body	AISI 304	15	Membrane body	AISI 304
7	Bushing	Bronze	16	Checkvalve	Bronze
8	Slinger	NBR_EPDM	17	Cable Seal	NBR
9	Seal cover	AISI 420	18	Seal Cover	AISI 304



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