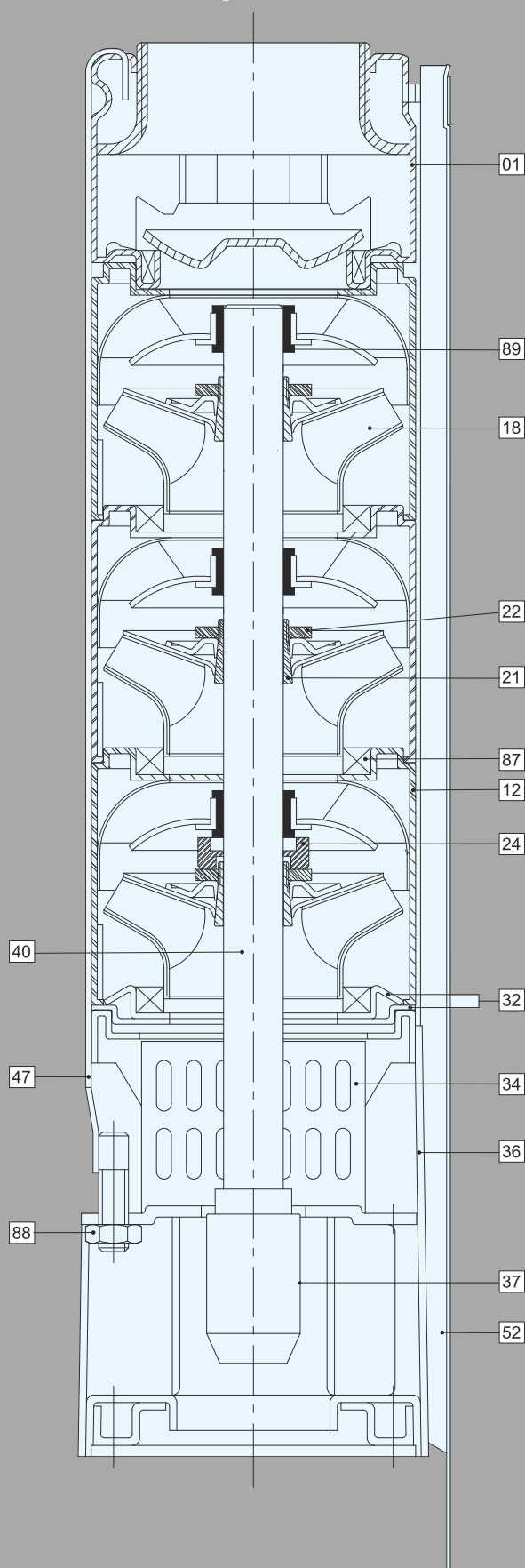


General Data

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.

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 (m³/h) min 0.3 max 18

Total Head: Max. 285 m

Applications

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

Pumped Liquids

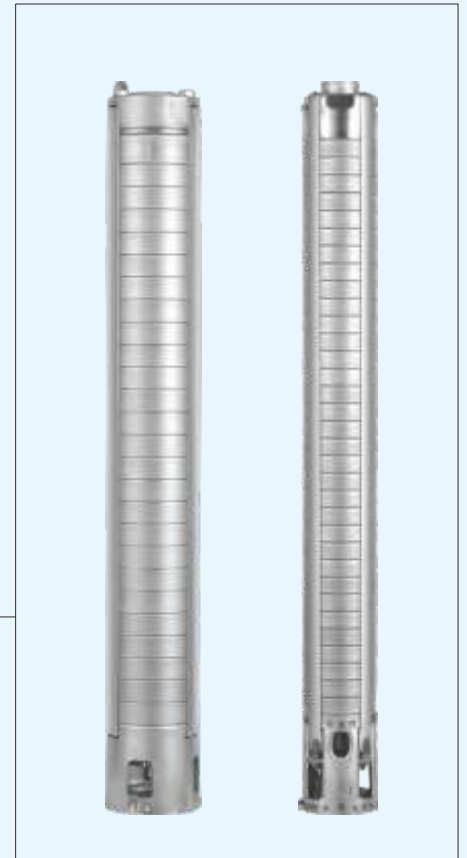
- ◆ Clean, non-corrosive and non-abrasive liquids.

Operating Conditions

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

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

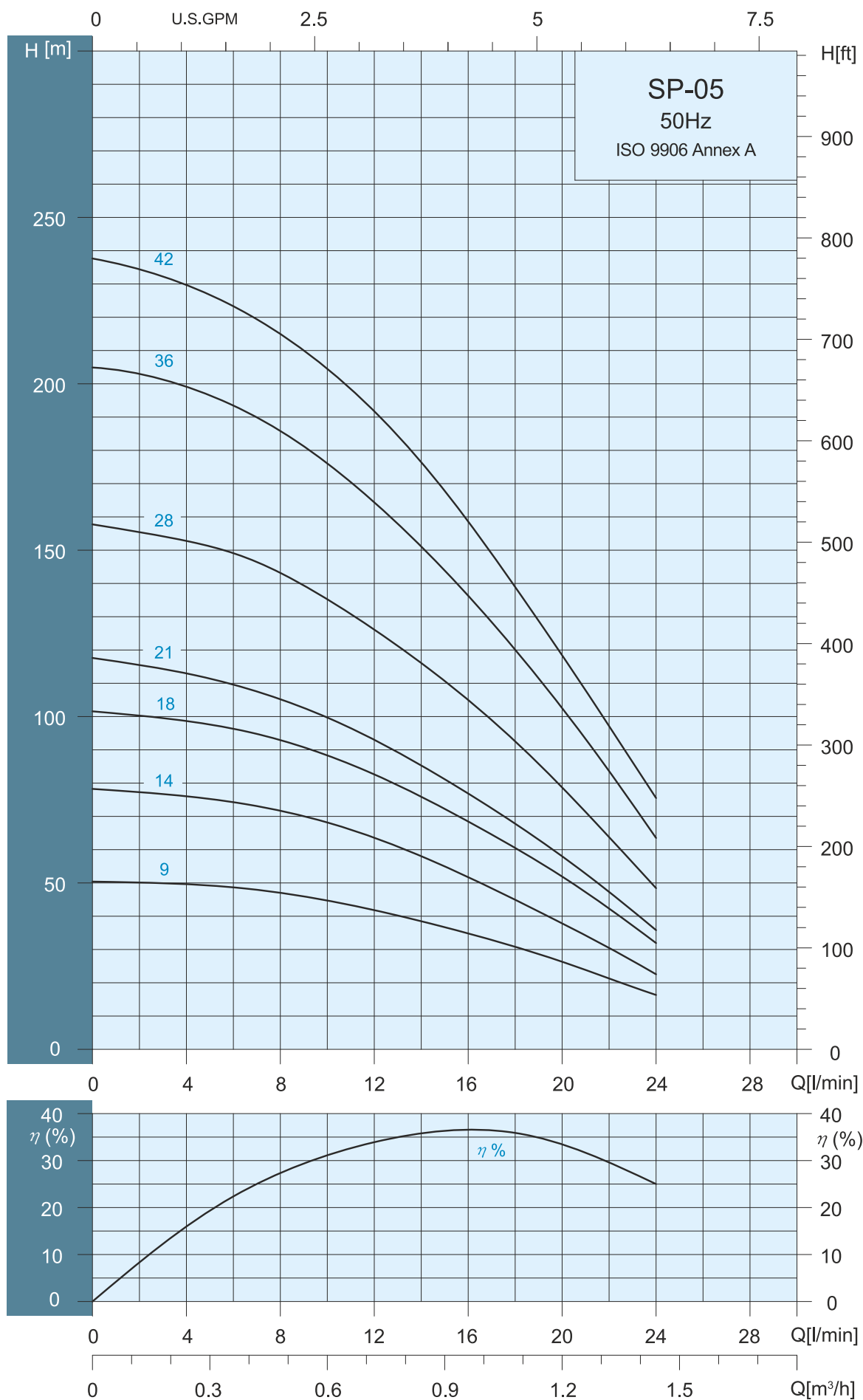


Stairs SP Series



SP 4"

SP05 Performance Curves

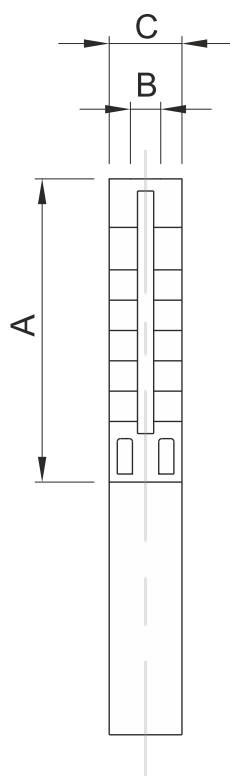


Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 2900 rpm																	
				l/min	0	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	120
				m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	7.2
				H =TOTAL HEAD IN METERS																	
SP-0509	9	0.37	0.5	52	48	45	36	27	14												
SP-0514	14	0.37	0.5	79	76	68	56	38	21												
SP-0518	18	0.55	0.75	102	96	88	72	52	27												
SP-0521	21	0.55	0.75	118	112	100	81	58	30												
SP-0528	28	0.75	1.0	158	153	138	111	78	42												
SP-0536	36	1.1	1.5	205	195	175	134	103	54												
SP-0542	42	1.1	1.5	238	235	203	167	118	67												

*Higher pressure, longer stages pumps up to 57 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-0514	461		98	3.7
SP-0518	545		98	4.4
SP-0521	608		98	5.0
SP-0528	755		98	6.2
SP-0536	946		98	9.9
SP-0542	1072		98	11.3

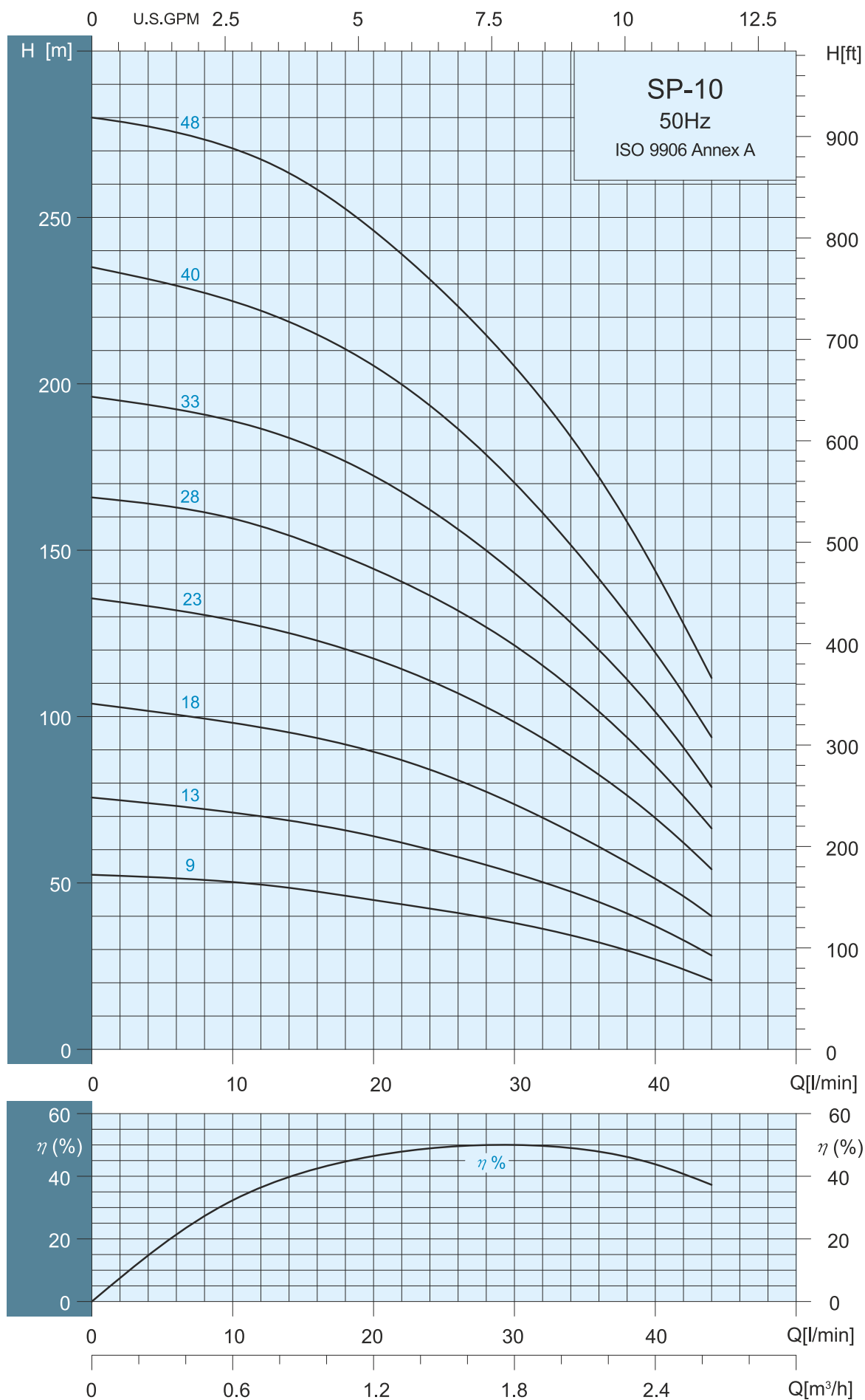
C = Maximum diameter of pump inclusive of cable guard and motor

Stairs SP Series



SP 4"

SP10 Performance Curves

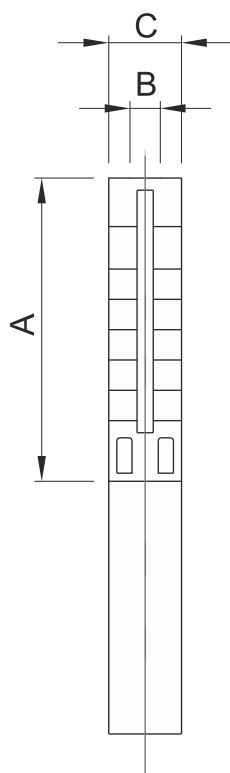


Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 2900 rpm															
				l/min 0	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
				m³/h 0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0
H =TOTAL HEAD IN METERS																			
SP-1009	9	0.37	0.5	53			48	45	42	38	33	26							
SP-1013	13	0.55	0.75	77			68	64	58	54	46	38							
SP-1018	18	0.75	1.0	104			94	89	83	74	64	51							
SP-1023	23	1.1	1.5	136			124	118	108	98	84	69							
SP-1028	28	1.5	2.0	166			154	145	134	122	105	86							
SP-1033	33	1.5	2.0	195			183	173	159	143	124	102							
SP-1040	40	2.2	3.0	235			218	205	190	170	147	119							
SP-1048	48	2.2	3.0	280			261	246	228	204	178	143							

*Higher pressure, longer stages pumps up to 90 stages are available on request.

Dimensions And Weights



Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C	Pump
SP-1009	356	RP/NPT 1 1/4"	98	3.0
SP-1013	440		98	3.8
SP-1018	545		98	4.7
SP-1023	650		98	5.7
SP-1028	755		98	6.6
SP-1033	883		98	9.7
SP-1040	1030		98	11.5
SP-1048	1198		98	13.5

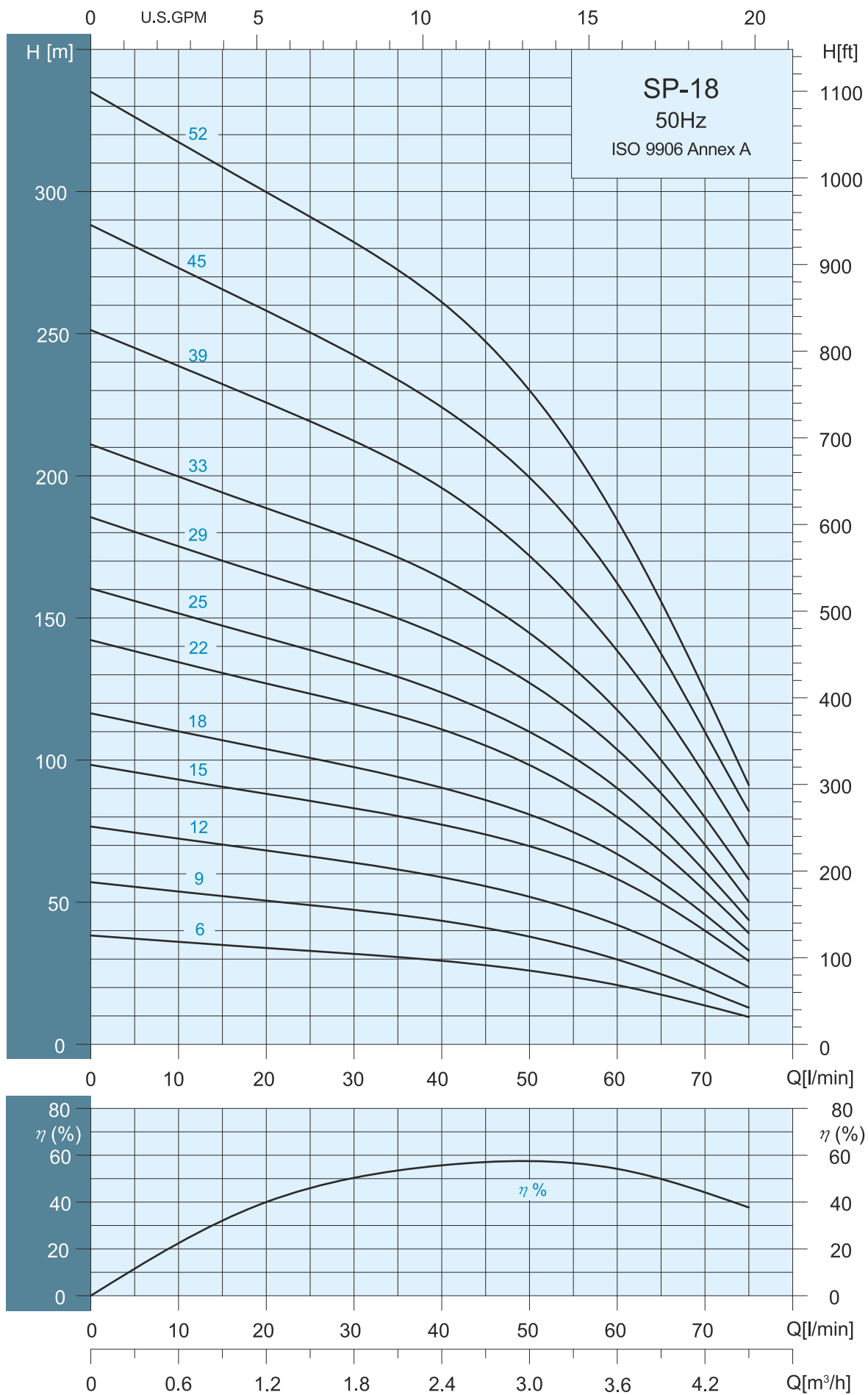
C = Maximum diameter of pump inclusive of cable guard and motor

Stairs SP Series



SP 4"

SP18 Performance Curves

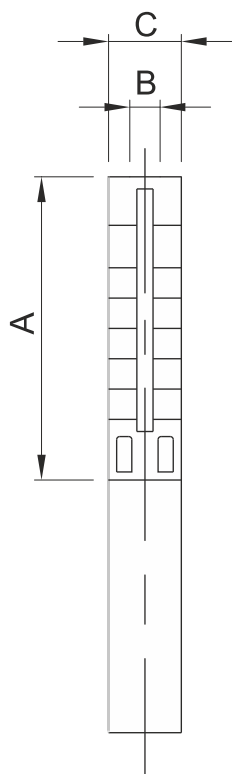


Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 2900 rpm																	
				l/min	0	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	120
				m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	7.2
				H =TOTAL HEAD IN METERS																	
SP-1806	6	0.37	0.5	38					33	32	31	30	28	26	22	14					
SP-1809	9	0.55	0.75	57					49	47	46	44	41	38	30	19					
SP-1812	12	0.75	1.0	77					66	64	62	58	56	52	43	28					
SP-1815	15	1.1	1.5	97					85	83	80	77	74	69	57	40					
SP-1818	18	1.1	1.5	116					101	97	94	90	85	80	67	45					
SP-1822	22	1.5	2.0	143					127	120	115	110	105	97	80	54					
SP-1825	25	1.5	2.0	160					139	134	128	124	117	110	90	60					
SP-1829	29	2.2	3.0	185					160	155	149	143	136	127	103	70					
SP-1833	33	2.2	3.0	211					183	177	172	164	155	145	118	80					
SP-1839	39	3.0	4.0	250					219	213	204	195	185	172	138	94					
SP-1845	45	3.0	4.0	288					250	243	233	224	213	199	162	110					
SP-1852	52	4.0	5.5	334					291	282	272	261	247	230	184	123					

*Higher pressure, longer stages pumps up to 60 stages are available on request.

Dimensions And Weights



Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C	Pump
SP-1806	293	RP/NPT 1 1/4"	98	2.4
SP-1809	356		98	3.0
SP-1812	419		98	3.6
SP-1815	482		98	4.2
SP-1818	545		98	4.7
SP-1822	629		98	5.5
SP-1825	692		98	6.1
SP-1829	776		98	6.8
SP-1833	883		98	9.7
SP-1839	1009		98	11.2
SP-1845	1135		98	12.7
SP-1852	1282		98	14.5

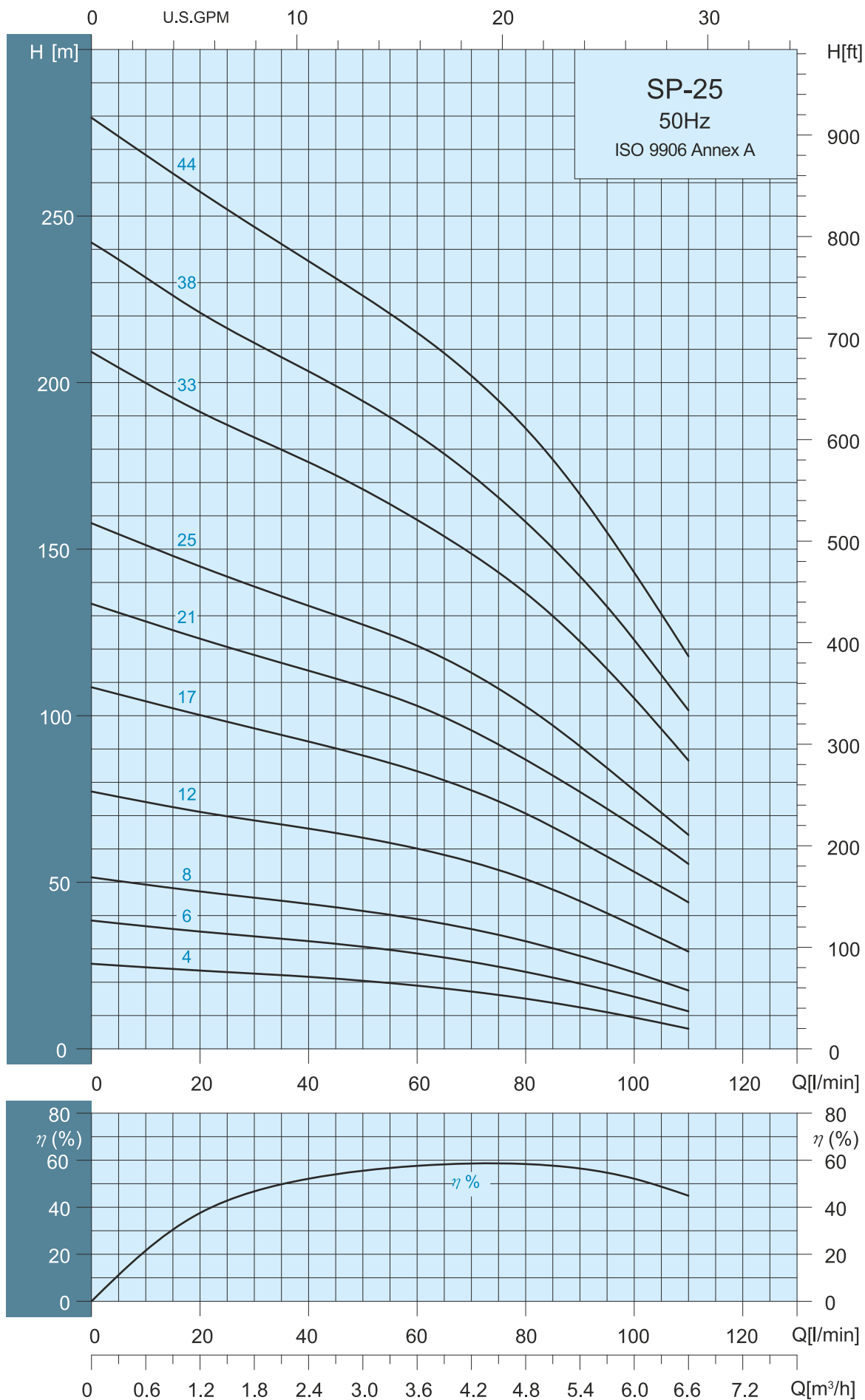
C = Maximum diameter of pump inclusive of cable guard and motor

Stairs SP Series



SP 4"

SP25 Performance Curves

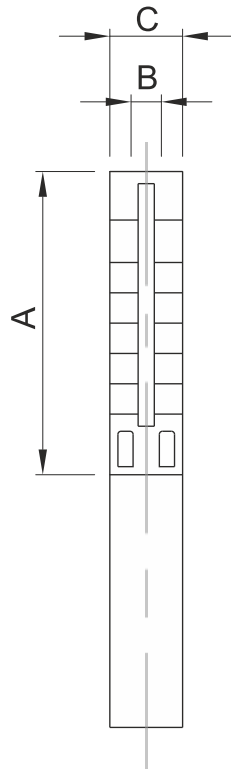


Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 2900 rpm																	
				l/min	0	15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160
				m³/h	0	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6
				H =TOTAL HEAD IN METERS																	
SP-2504	4	0.37	0.5	25				23	22	21	20.5	20	19	17	15	13	10				
SP-2506	6	0.55	0.75	38				34	33	32	31	30	28	26	24	20	16				
SP-2508	8	0.75	1.0	52				45	44	43	42	41	39	36	33	28	23				
SP-2512	12	1.1	1.5	77				68	67	66	64	63	60	56	50	44	37				
SP-2517	17	1.5	2.0	108				96	94	93	90	88	84	77	70	63	54				
SP-2521	21	2.2	3.0	134				118	115	113	111	108	103	96	87	77	67				
SP-2525	25	2.2	3.0	157				138	136	133	129	127	121	113	103	90	78				
SP-2533	33	3.0	4.0	209				184	180	176	172	168	159	149	137	123	105				
SP-2538	38	4.0	5.5	242				212	208	204	199	194	185	172	158	142	123				
SP-2544	44	4.0	5.5	279				247	242	237	231	226	215	202	187	166	143				

*Higher pressure, longer stages pumps up to 85 stages are available on request.

Dimensions And Weights



Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C	
SP-2504	251	RP/NPT 1 1/2"	98	2.0
SP-2506	293		98	2.4
SP-2508	335		98	2.8
SP-2512	419		98	3.6
SP-2517	524		98	4.5
SP-2521	608		98	5.3
SP-2525	692		98	6.0
SP-2533	868		98	9.6
SP-2538	973		98	10.9
SP-2544	1099		98	12.4

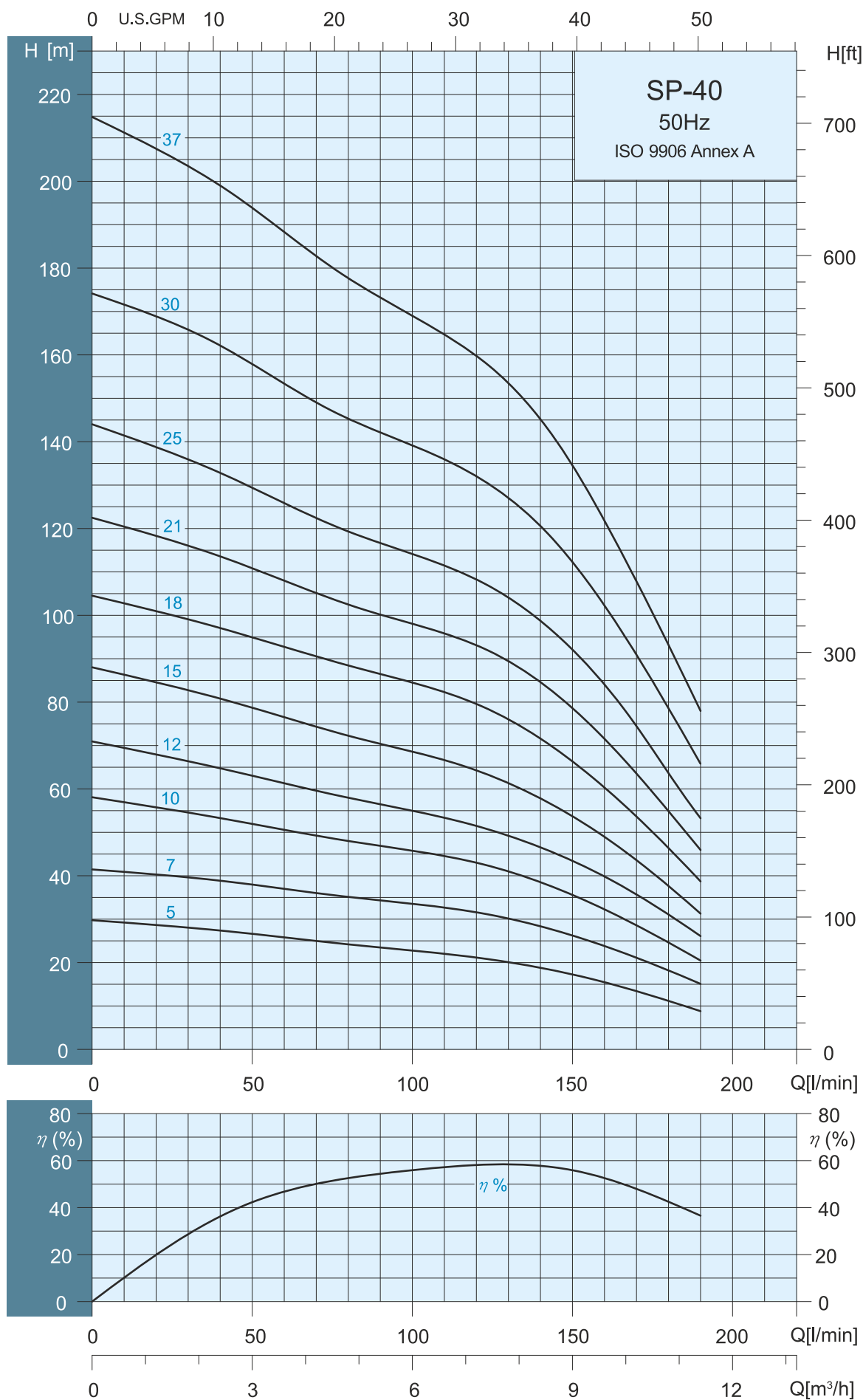
C = Maximum diameter of pump inclusive of cable guard and motor

Stairs SP Series



SP 4"

SP40 Performance Curves

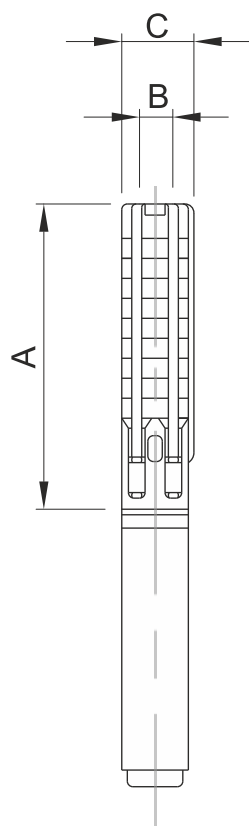


Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 2900 rpm																		
				l/min	0	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	250	300
				m³/h	0	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	15	18
				H =TOTAL HEAD IN METERS																		
SP-4005	5	0.75	1.0	30			28	27	26	26	25	24	23	22	21	19	15	12				
SP-4007	7	1.1	1.5	41			38	37	36	36	35	35	34	34	32	27	24	17				
SP-4010	10	1.5	2.0	58			54	53	52	51	49	47	47	46	43	38	32	25				
SP-4012	12	2.2	3.0	71			65	64	63	61	60	58	57	55	52	47	40	31				
SP-4015	15	2.2	3.0	87			80	79	78	76	74	72	70	68	64	57	49	38				
SP-4018	18	3.0	4.0	104			98	96	95	93	90	88	86	84	79	72	60	47				
SP-4021	21	4.0	5.5	122			114	113	111	107	105	102	100	98	93	85	72	55				
SP-4025	25	4.0	5.5	144			133	131	128	126	123	119	116	114	107	97	84	64				
SP-4030	30	5.5	7.5	174			163	160	157	154	149	145	142	139	131	120	103	79				
SP-4037	37	5.5	7.5	215			199	196	194	188	183	177	173	169	160	145	122	93				

*Higher pressure , longer stages pumps up to 110 stages are available on request

Dimensions And Weights



Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C	Pump
SP-4005	412	RP/NPT 2"	98	4.3
SP-4007	496		98	5.3
SP-4010	622		98	6.8
SP-4012	706		98	7.8
SP-4015	832		98	9.3
SP-4018	958		98	10.8
SP-4021	1084		98	12.3
SP-4025	1252		98	14.3
SP-4030	1462		98	16.8
SP-4037	1753		98	20.3

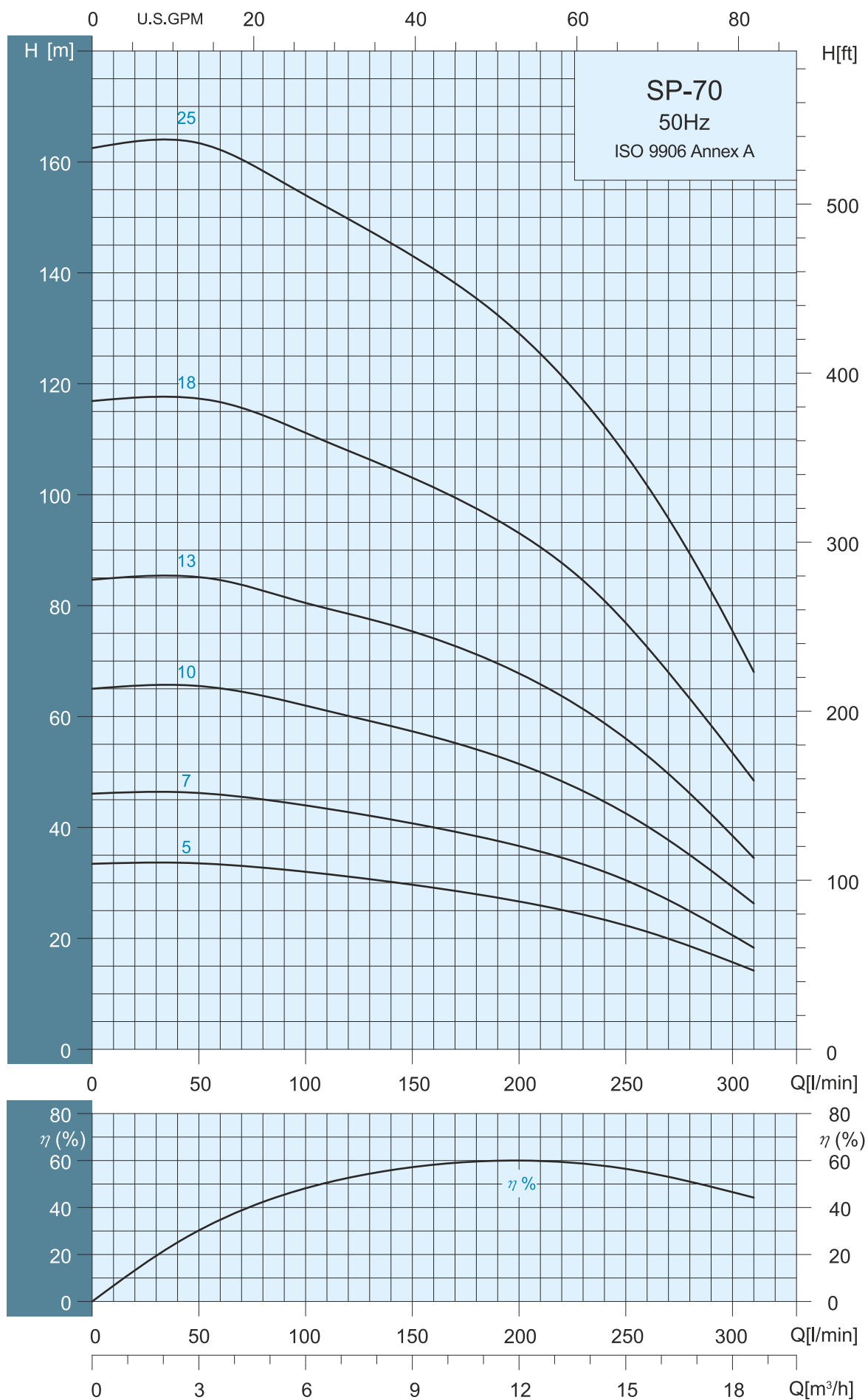
C = Maximum diameter of pump inclusive of cable guard and motor

Stairs SP Series



SP 4"

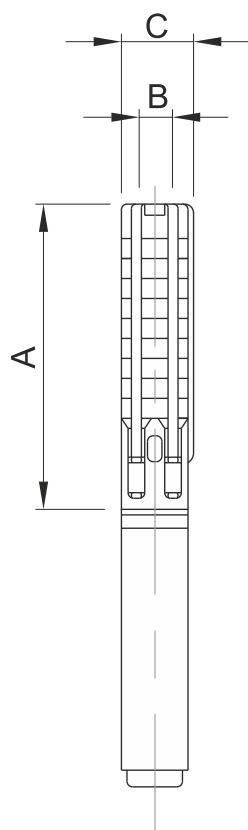
SP70 Performance Curves



Selection Chart

Pump Type	STAGES	KW	HP	Q capacity 2900 rpm																
				l/min 0	70	80	90	100	120	140	160	180	200	250	300	320	340	360	380	
				m³/h 0	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	15	18	19	20	22	23	
H =TOTAL HEAD IN METERS																				
SP-7005	5	1.5	2.0	33				32	31	30	28	27	26	22	16					
SP-7007	7	2.2	3.0	46				44	43	42	40	37	36	30	20					
SP-7010	10	3.0	4.0	65				62	60	58	57	54	52	43	29					
SP-7013	13	4.0	5.5	84				80	78	77	74	72	67	56	38					
SP-7018	18	5.5	7.5	117				111	108	104	102	97	93	77	54					
SP-7025	25	7.5	10	163				154	149	145	141	135	129	107	75					

Dimensions And Weights



Pump Type	Dimensions(mm)			Net Weight(Kg)
	A	B	C	
SP-7005	505	RP/NPT 2"	98	5.0
SP-7007	635		98	6.3
SP-7010	830		98	8.2
SP-7013	1025		98	10.2
SP-7018	1350		98	13.4
SP-7025	1805		98	17.8

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