

SP SERIES 4" SUBMERSIBLE ELECTRIC PUMPS

- Completely made of corrosion-resistant stainless steel AISI 304, SP pumps are ideal for a wide variety of applications with high efficiency and reliability.

APPLICATIONS

- Water supply from deep well.
- Agricultural irrigation.
- Pressure boosting.
- Fire-fighting.
- Industrial application.

SPECIFICATIONS

- Delivery: up to 19 m³/h at 2850 rpm.
- Head: up to 400 m at 2850 rpm.
- Maximum overall diameter of pump: 94 mm (cable guard included).
- Maximum permissible quantity of suspended sand: 150 g/m³.
- 1SP, 2SP, 3SP, 5SP versions: delivery port Rp1"1/4.
- 8SP, 14SP versions: delivery port Rp2".

MOTOR

- 4OS single-phase version:
from 0,37 to 2,2 kW, 220 V, 50 Hz.
- 4OS three-phase version:
from 0,37 to 7,5 kW, 380 V, 50 Hz.

CONSTRUCTION & CHARACTERISTICS

- Sturdy and lightweight, easy to maintain and resistant to corrosion in non-aggressive environments.
- High efficient hydraulic design for cost saving and best performance.
- Stainless steel built-in non-return valve.
- Stainless steel impellers and diffusers.
- Stainless steel delivery port and suction support.
- Stainless steel shaft and replaceable coupling.
- Stainless steel floating wear ring & NBR bush bearings ensure maximum resistance to wear and long-lasting performance and reliability.
- Coupling and flange mounting dimensions meet NEMA standards.
- The SP series pumps can be coupled with the 4OS motors.

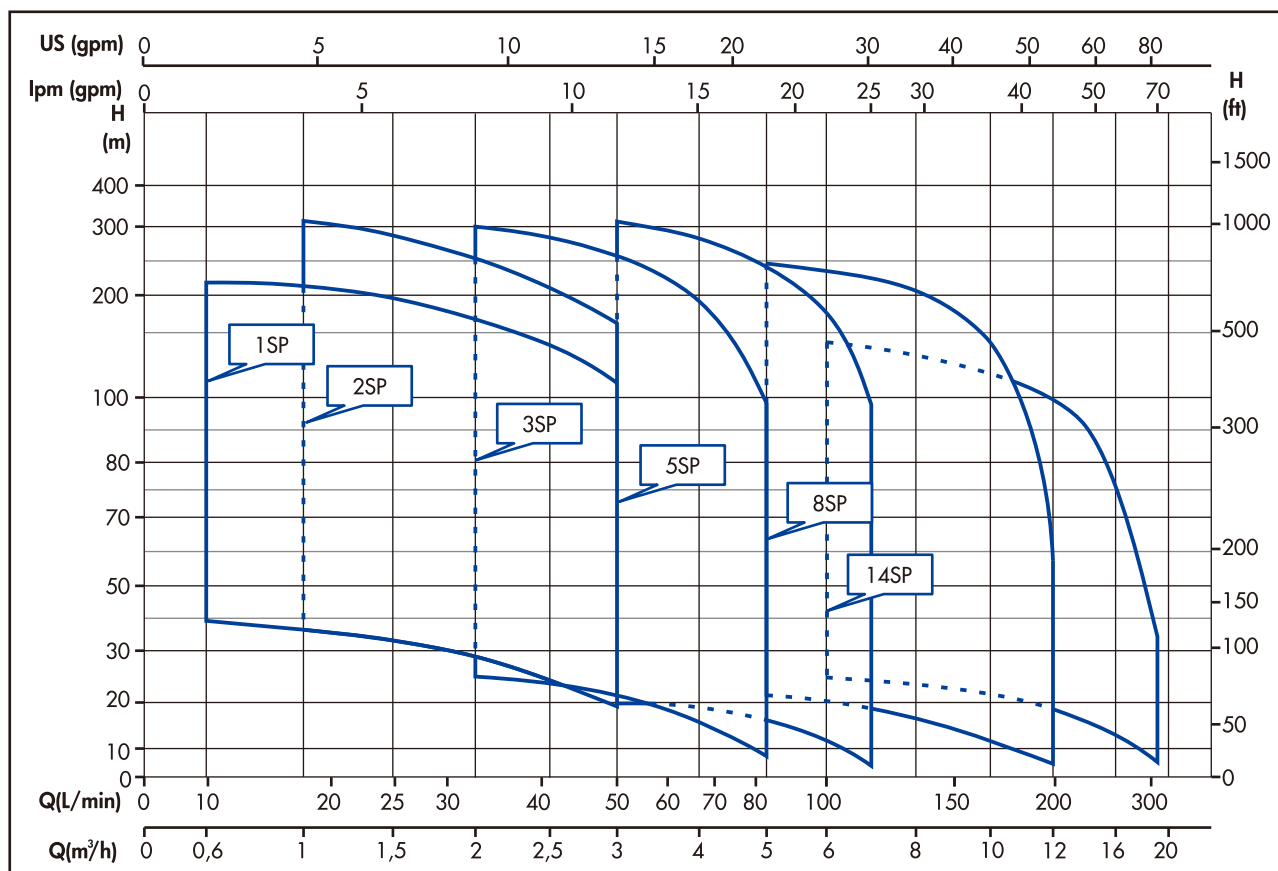
OPTIONAL FEATURES

- Different voltage and frequency.

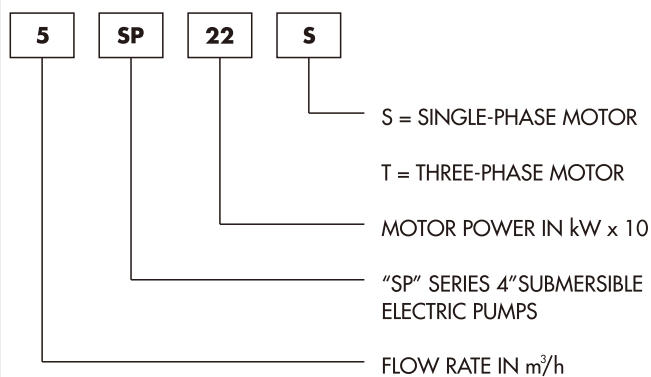


SP SERIES

HYDRAULIC PERFORMANCE RANGE AT 50 Hz



IDENTIFICATION CODE



EXAMPLE OF PUMP TYPE

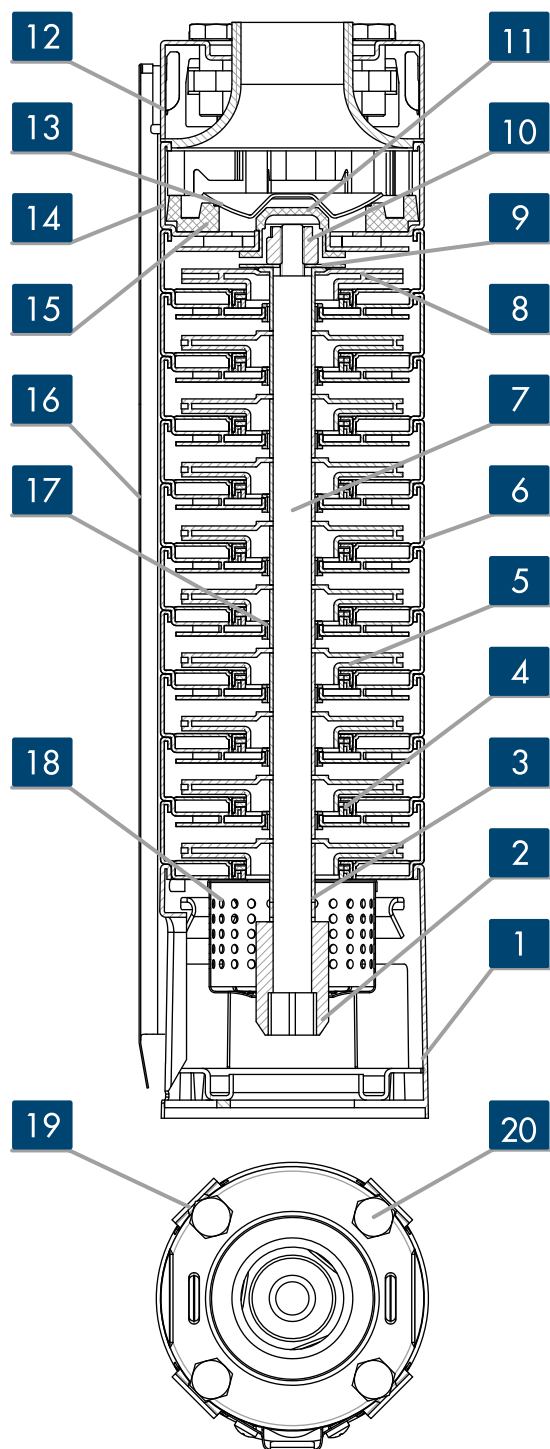
5SP22S

SP series 4" submersible electric pump with flow rate 5 m³/h; and single phase 2,2 kW (3 Hp) motor.



1SP-5SP SERIES

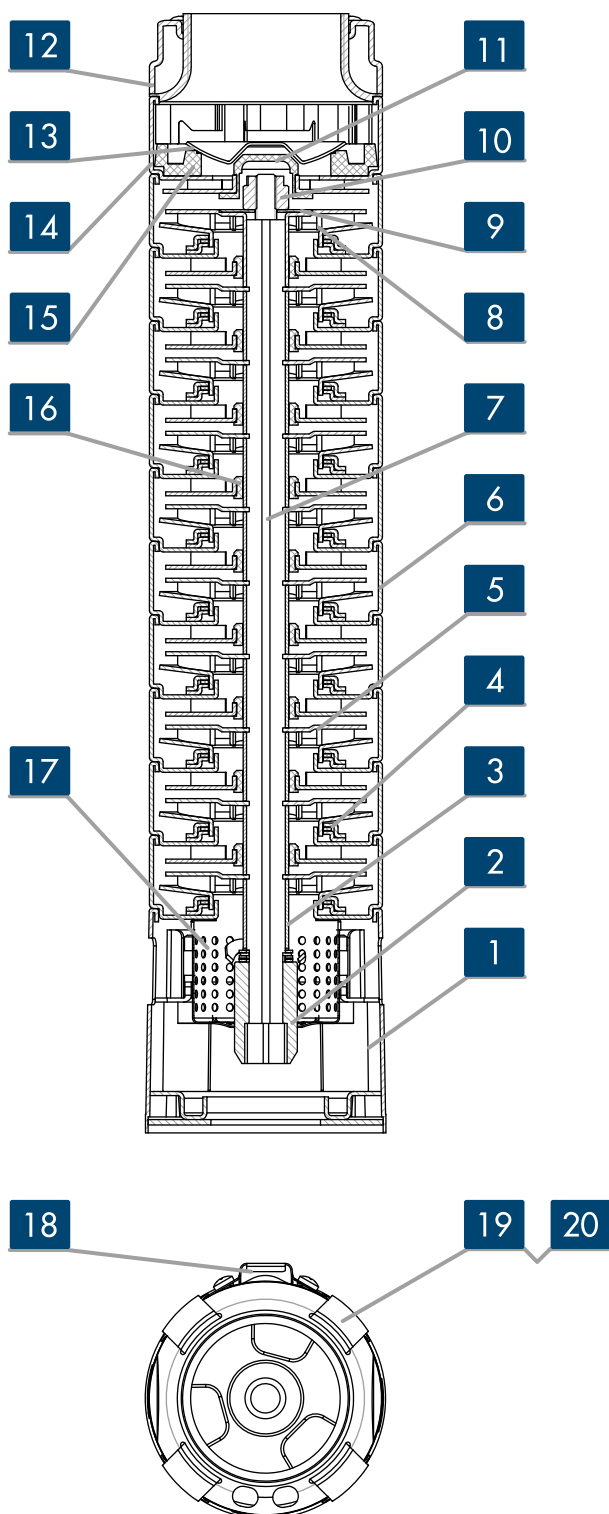
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Stainless steel	AISI 304
2	Coupling	Stainless steel	AISI 304
3	Shaft sleeve	Stainless steel	AISI 304
4	Neck ring	NBR	-----
5	Impeller	Stainless steel	AISI 304
6	Diffuser	Stainless steel	AISI 304
7	Shaft	Stainless steel	AISI 304
8	End-stage impeller	Stainless steel	AISI 304
9	Thrust washer	Stainless steel	AISI 304
10	Nut	Stainless steel	AISI 304
11	Thrust bearing	NBR	AISI 304
12	Delivery port	Stainless steel	AISI 304
13	Non-return valve	Stainless steel	AISI 304
14	End-stage diffuser	Stainless steel	AISI 304
15	Valve support	NBR	-----
16	Cable guard	Stainless steel	AISI 304
17	Bush bearing	NBR	-----
18	Suction inlet	Stainless steel	AISI 304
19	Strap	Stainless steel	AISI 304
20	Bolt	Stainless steel	AISI 304

8SP SERIES

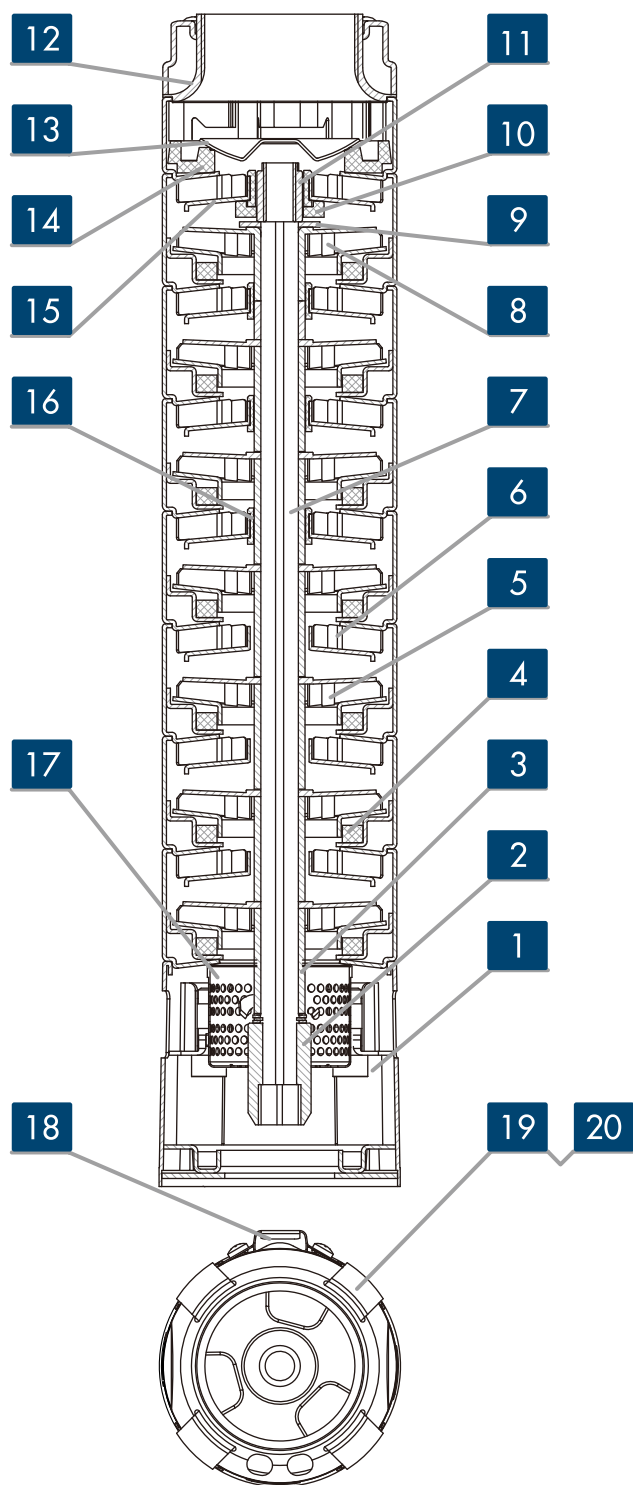
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Stainless steel	AISI 304
2	Coupling	Stainless steel	AISI 304
3	Shaft sleeve	Stainless steel	AISI 304
4	Neck ring	NBR	-----
5	Impeller	Stainless steel	AISI 304
6	Diffuser	Stainless steel	AISI 304
7	Shaft	Stainless steel	AISI 304
8	End-stage impeller	Stainless steel	AISI 304
9	Thrust washer	Stainless steel	AISI 304
10	Nut	Stainless steel	AISI 304
11	Thrust bearing	NBR	-----
12	Delivery port	Stainless steel	AISI 304
13	Non-return valve	Stainless steel	AISI 304
14	End-stage diffuser	Stainless steel	AISI 304
15	Valve support	NBR	-----
16	Bush bearing	NBR	-----
17	Suction inlet	Stainless steel	AISI 304
18	Cable guard	Stainless steel	AISI 304
19	Strap	Stainless steel	AISI 304
20	Bolt	Stainless steel	AISI 304

14SP SERIES

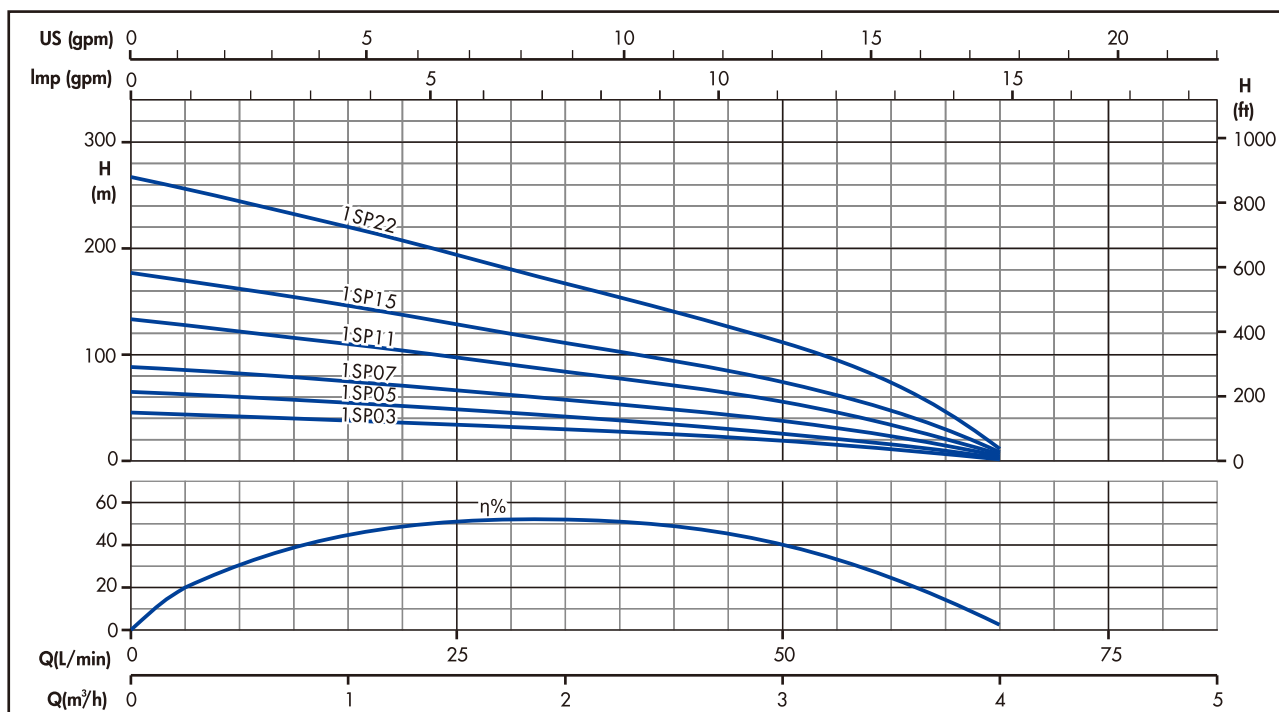
PUMP SECTION AND LIST OF MAIN COMPONENTS MATERIAL



REF.N.	PART	MATERIAL	STANDARD
1	Lower support	Stainless steel	AISI 304
2	Coupling	Stainless steel	AISI 304
3	Shaft sleeve	Stainless steel	AISI 304
4	Neck ring	Stainless steel	AISI 304
5	Impeller	Stainless steel	AISI 304
6	Diffuser	Stainless steel	AISI 304
7	Shaft	Stainless steel	AISI 304
8	End-stage impeller	Stainless steel	AISI 304
9	Thrust washer	Stainless steel	AISI 304
10	Thrust bearing	PTFE	-----
11	Nut	Stainless steel	AISI 304
12	Delivery port	Stainless steel	AISI 304
14	Non-return valve	Stainless steel	AISI 304
13	Valve support	NBR	-----
15	End-stage diffuser	Stainless steel	AISI 304
16	Bush bearing	NBR	-----
17	Suction inlet	Stainless steel	AISI 304
18	Cable guard	Stainless steel	AISI 304
19	Strap	Stainless steel	AISI 304
20	Bolt	Stainless steel	AISI 304

1SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

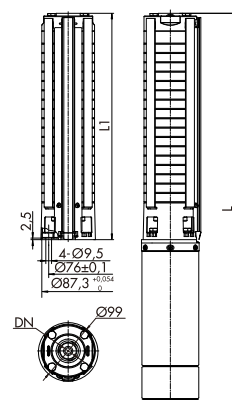


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY							
				L/min 0	10	17	25	33	42	50	67
				m³/h 0	0,6	1	1,5	2	2,5	3	4
H=TOTAL HEAD METERS COLUMN OF WATER											
1SP03S	7	0,37	0,5	45	39	37	32	29	24	19	1
1SP03T											
1SP05S	10	0,55	0,75	64	56	52	47	41	34	28	1
1SP05T											
1SP07S	14	0,75	1	88	78	73	66	57	48	38	2
1SP07T											
1SP11S	21	1,1	1,5	135	117	110	99	83	72	58	2
1SP11T											
1SP15S	28	1,5	2	178	157	147	133	110	96	75	3
1SP15T											
1SP22S	42	2,2	3	268	235	220	194	166	145	112	5
1SP22T											

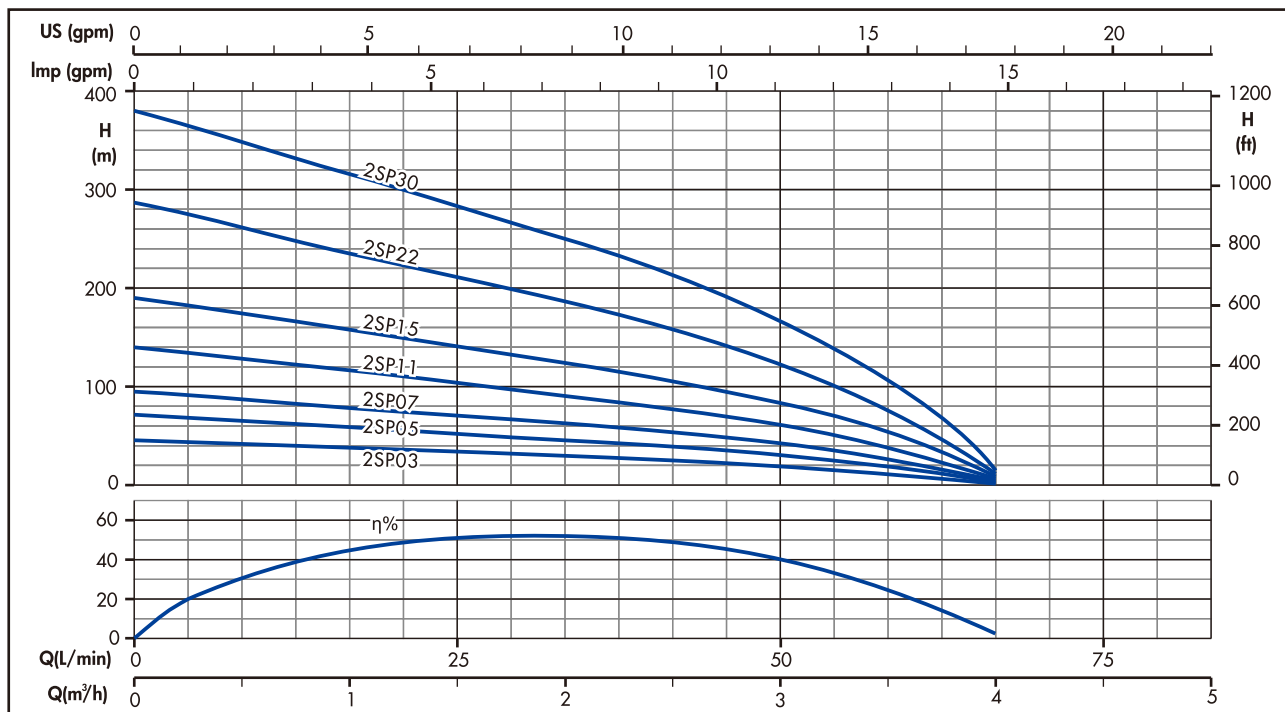
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
1SP03S	7	Rp1"1/4	302	628	2,5	10,1
1SP03T				620		8,7
1SP05S	10		365	706	3,1	11,4
1SP05T				701		10,5
1SP07S	14		449	810	3,9	13,1
1SP07T				805		12,3
1SP11S	21		596	988	5,3	15,8
1SP11T				988		15,1
1SP15S	28		743	1175	6,7	19,1
1SP15T				1160		17,6
1SP22S	42		1037	1582	9,5	26,6
1SP22T				1507		23



2SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

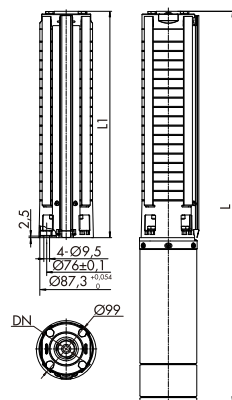


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY						
				L/min 0	17	25	33	42	50	67
				m³/h 0	1	1,5	2	2,5	3	4
H=TOTAL HEAD METERS COLUMN OF WATER										
2SP03S	7	0,37	0,5	44	37	32	29	25	19	1
2SP03T										
2SP05S	11	0,55	0,75	70	58	50	46	39	31	1
2SP05T										
2SP07S	15	0,75	1	95	78	70	63	52	42	2
2SP07T										
2SP11S	22	1,1	1,5	140	115	102	92	78	61	2
2SP11T										
2SP15S	30	1,5	2	190	157	140	125	106	83	3
2SP15T										
2SP22S	45	2,2	3	286	235	210	188	159	121	5
2SP22T										
2SP30T	60	3	4	380	313	280	251	213	167	7

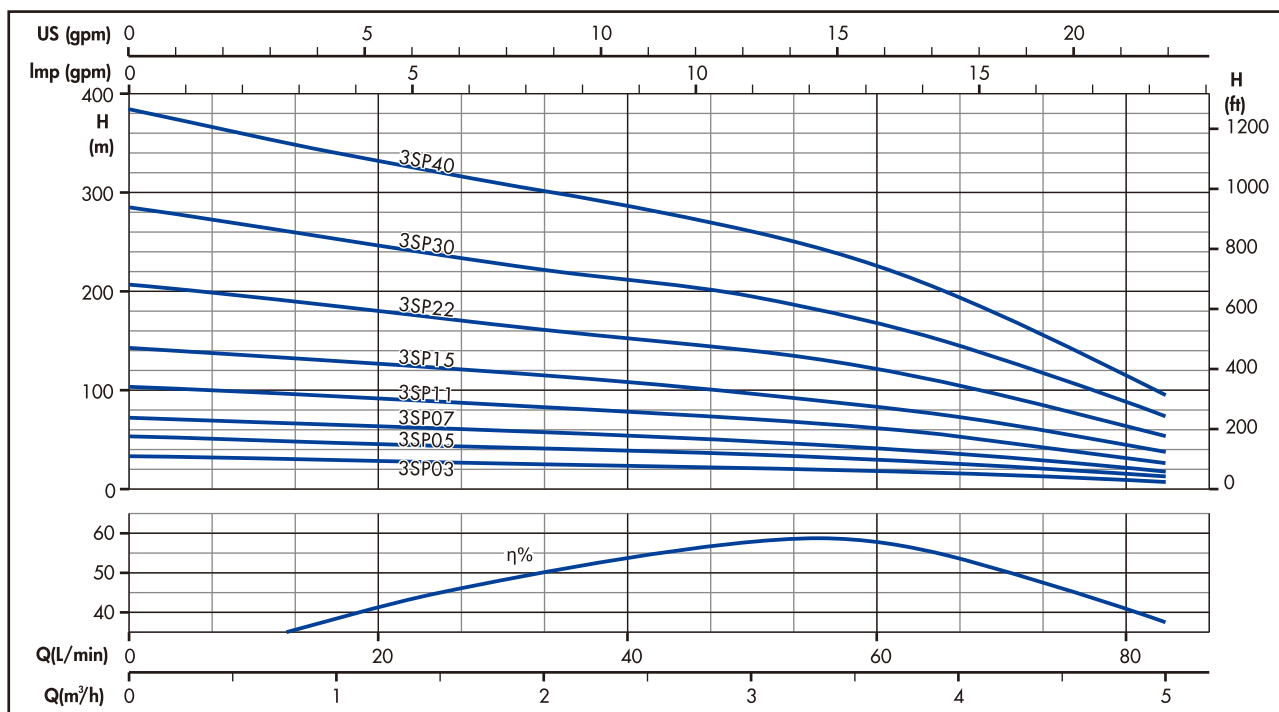
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
2SP03S	7	Rp1"1/4	302	628	2,5	10,1
2SP03T				620		8,7
2SP05S	11		386	727	3,3	11,6
2SP05T				722		10,7
2SP07S	15		470	831	4,1	13,3
2SP07T				826		12,5
2SP11S	22		617	1009	5,5	16
2SP11T				1009		15,3
2SP15S	30		785	1217	7,1	19,5
2SP15T				1202		18
2SP22S	45		1100	1645	10,1	27,2
2SP22T				1570		23,6
2SP30T	60		1415	1935	13,1	28,9



3SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

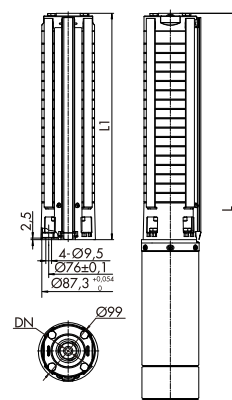


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY						
				L/min 0	17	33	42	50	67	83
				m³/h 0	1	2	2,5	3	4	5
H=TOTAL HEAD METERS COLUMN OF WATER										
3SP03S	5	0,37	0,5	32	29	25	23	21	16	8
3SP03T										
3SP05S	8	0,55	0,75	52	46	40	37	35	26	13
3SP05T										
3SP07S	11	0,75	1	71	64	58	51	49	36	18
3SP07T										
3SP11S	16	1,1	1,5	103	92	81	75	71	52	27
3SP11T										
3SP15S	22	1,5	2	142	130	115	103	96	72	37
3SP15T										
3SP22S	32	2,2	3	207	185	160	149	140	104	53
3SP22T										
3SP30T	44	3	4	285	254	220	205	195	144	73
3SP40T	59	4	5,5	384	340	300	275	260	194	98

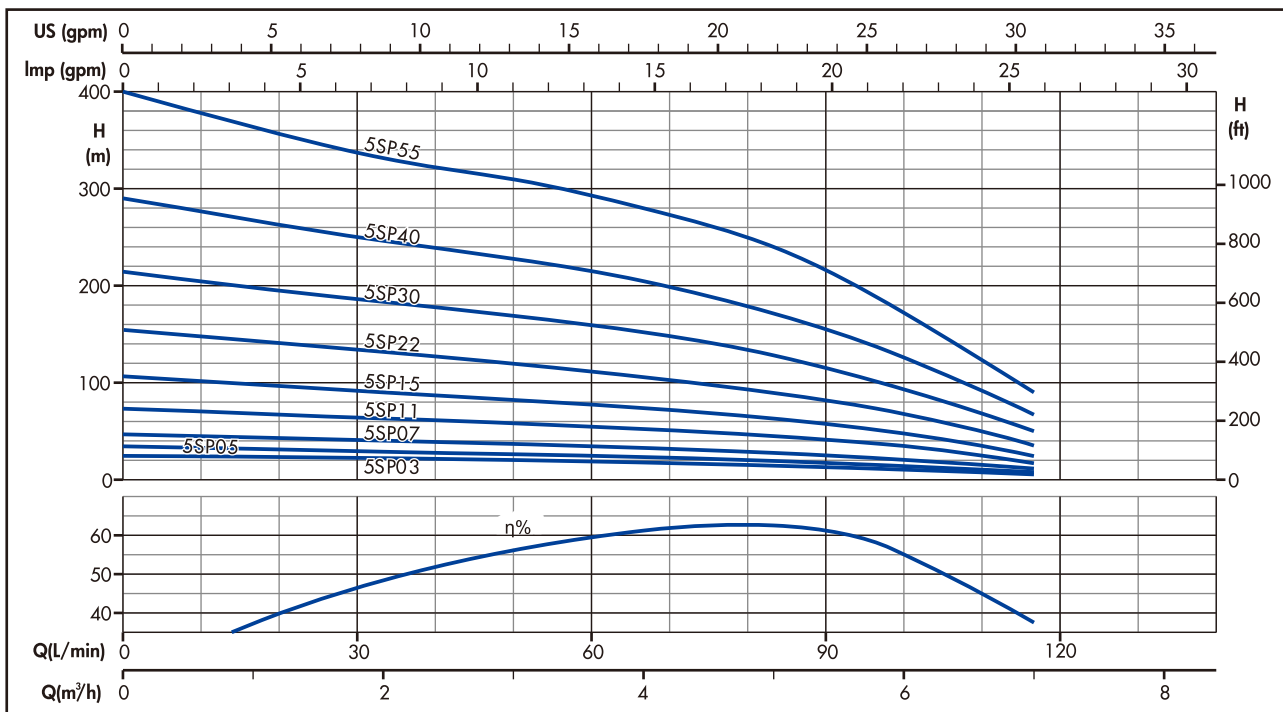
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
3SP03S	5	Rp1"1/4	260	586	2,1	9,7
3SP03T				578		8,3
3SP05S	8		323	664	2,7	11
3SP05T				659		10,1
3SP07S	11		386	747	3,3	12,5
3SP07T				742		11,7
3SP11S	16		491	883	4,3	14,8
3SP11T				883		14,1
3SP15S	22		617	1049	5,5	17,9
3SP15T				1034		16,4
3SP22S	32		827	1372	7,5	24,6
3SP22T				1297		21
3SP30T	44		1079	1599	9,9	25,7
3SP40T	59		1394	1988	12,9	33,6



5SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

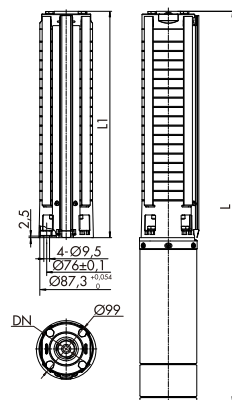


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY						
				L/min 0	33	50	67	83	100	117
				m³/h 0	2	3	4	5	6	7
H=TOTAL HEAD METERS COLUMN OF WATER										
5SP03S	4	0,37	0,5	25	23	20	19	16	12	6
5SP03T										
5SP05S										
5SP05T	5	0,55	0,75	33	30	26	24	19	15	8
5SP07S										
5SP07T										
5SP11S	11	1,1	1,5	74	62	58	52	44	33	17
5SP11T										
5SP15S										
5SP15T	16	1,5	2	108	90	83	76	66	48	25
5SP22S										
5SP22T										
5SP30T	32	3	4	217	182	170	152	128	94	49
5SP40T	43	4	5,5	290	243	228	204	174	128	66
5SP55T	59	5,5	7,5	400	333	312	281	240	176	91

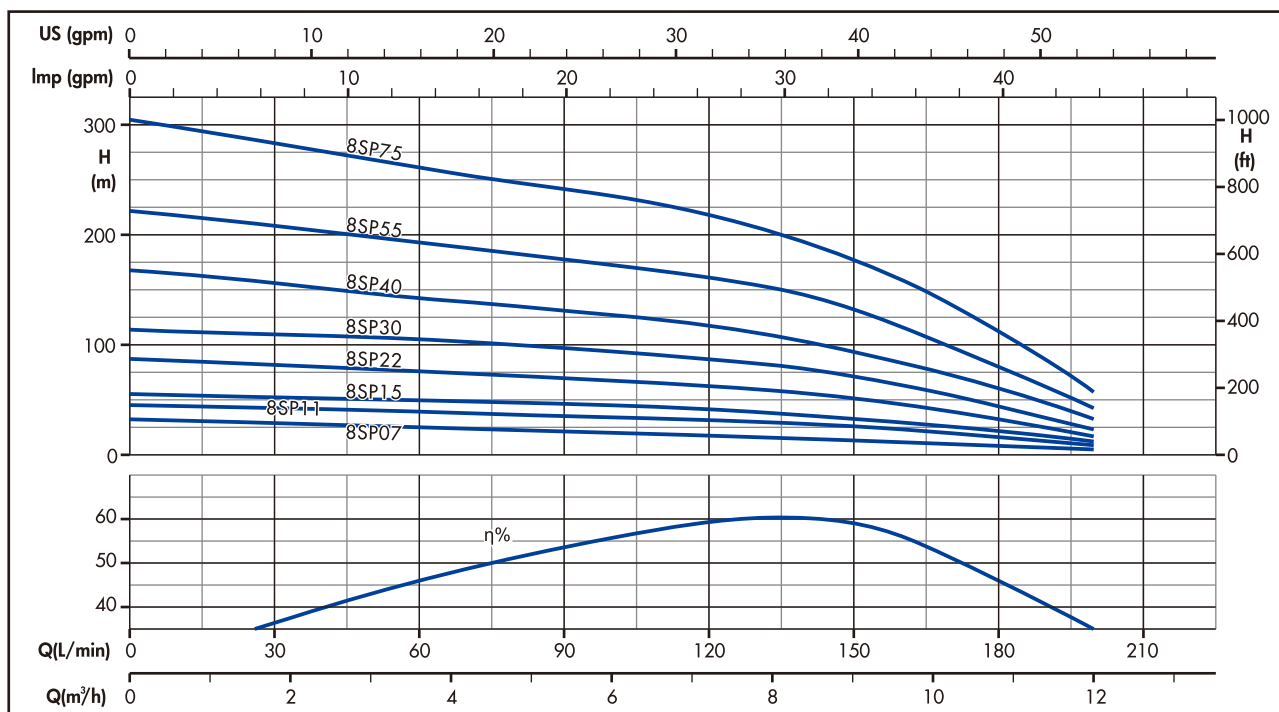
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
5SP03S	4	Rp1"1/4	239	565	1,9	9,6
5SP03T				557		8,1
5SP05S				601		10,5
5SP05T	5		260	596	2,2	9,6
5SP07S				663		11,8
5SP07T				658		11
5SP11S	11		386	778	3,4	13,9
5SP11T				778		13,2
5SP15S				923		16,9
5SP15T	16		491	908	4,5	15,4
5SP22S				1183		23,1
5SP22T				1108		19,4
5SP30T	32		827	1347	7,8	23,6
5SP40T	43		1058	1652	10,1	30,9
5SP55T	59		1394	2098	13,5	40,5



8SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz

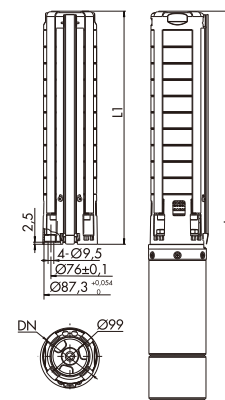


OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY						
				L/min 0	33	67	100	133	167	200
				m³/h 0	2	4	6	8	10	12
H=TOTAL HEAD METERS COLUMN OF WATER										
8SP07S	4	0,75	1	26	26	21	20	17	12	5
8SP07T										
8SP11S	7	1,1	1,5	44	43	38	34	30	21	8
8SP11T										
8SP15S	9	1,5	2	57	54	48	44	39	27	11
8SP15T										
8SP22S	14	2,2	3	89	83	75	68	59	42	17
8SP22T										
8SP30T	19	3	4	120	113	102	94	84	57	23
8SP40T	26	4	5,5	165	155	140	128	114	78	31
8SP55T	35	5,5	7,5	222	208	188	172	155	105	42
8SP75T	48	7.5	10	305	280	258	235	210	145	58

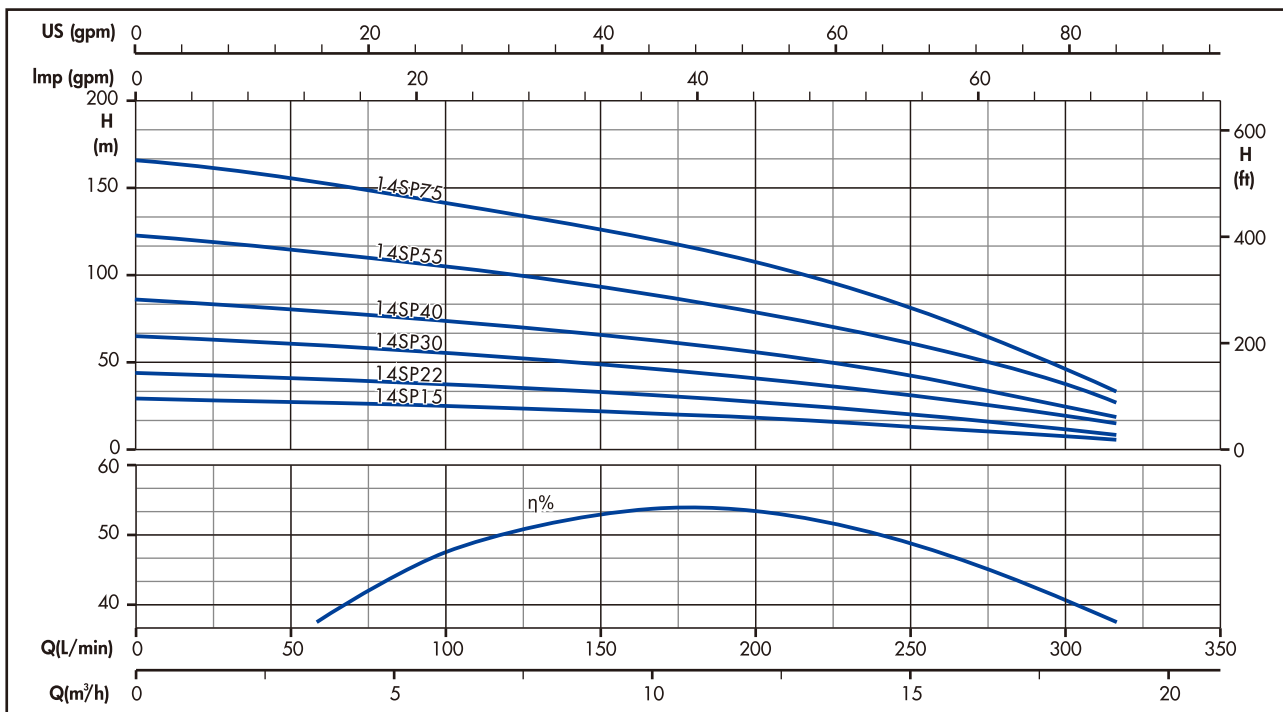
DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TYPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
8SP07S	4	Rp2"	261	622	2,2	11,4
8SP07T				617		10,6
8SP11S	343		735	3	13,5	
8SP11T			735		12,8	
8SP15S	9		398	830	3,5	16
8SP15T				815		14,5
8SP22S	14		536	1081	4,9	22
8SP22T				1005		18,4
8SP30T	19		673	1193	6,2	22
8SP40T	26		866	1460	8,1	28,8
8SP55T	35		1113	1817	10,5	37,5
8SP75T	48		1471	2260	14	45,9



14SP SERIES

OPERATING CHARACTERISTICS AT 50 Hz



OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N.OF STAGES	kW	Hp	Q=DELIVERY							
				L/min 0	100	133	167	200	233	267	317
				m³/h 0	6	8	10	12	14	16	19
				H=TOTAL HEAD METERS COLUMN OF WATER							
14SP15S	4	1,5	2	29	25	23	21	19	16	12	6
14SP15T											
14SP22S	6	2,2	3	43	37	35	32	28	24	18	9
14SP22T											
14SP30T	9	3	4	65	55	52	48	42	36	28	14
14SP40T	12	4	5,5	86	74	68	63	57	47	37	19
14SP55T	17	5,5	7,5	122	104	97	90	80	68	53	27
14SP75T	23	7,5	10	166	141	132	120	108	91	72	36

DIMENSIONS AND WEIGHTS AT 50 Hz

PUMP TUPE	N.OF STAGE	DN	L1 mm	L mm	PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
14SP15S	4	Rp2"	312	744	3,1	15,5
14SP15T				729		14
14SP22S	396		941	4	21,1	
14SP22T			866		17,5	
14SP30T	9		522	1042	5,4	21,2
14SP40T	12		648	1242	6,7	27,4
14SP55T	17		858	1562	9,2	36,2
14SP75T	23		1110	1899	12	43,9

