



1.25" DISCHARGE

2" DISCHARGE

3" DISCHARGE

5" DISCHARGE

SP PUMPS ARE DESIGNED TO FIT
INSIDE A 4 INCH DIAMETER WELL

SP SERIES

4," 6," 8" AND 10"
50Hz SUBMERSIBLE PUMPS

SP SERIES SUBMERSIBLE PUMPS are manufactured using high quality materials and are designed to deliver years of dependable service. SP Series are comprised of a large selection of pump models ranging from 1/2 HP thru 10 HP with a broad variety of capacities (5 GPM - 1,100 GPM)

QUALITY FEATURES

**STAINLESS STEEL CONSTRUCTION
DESIGNED AND BUILT FOR YEARS
OF TROUBLE-FREE OPERATION**

**STAINLESS STEEL DISCHARGE
HEADWIDTH BUILT-IN CHECK VALVE**

HIGH-EFFICIENCY SUCTION SCREEN

STAINLESS STEEL SHAFT AND COUPLING

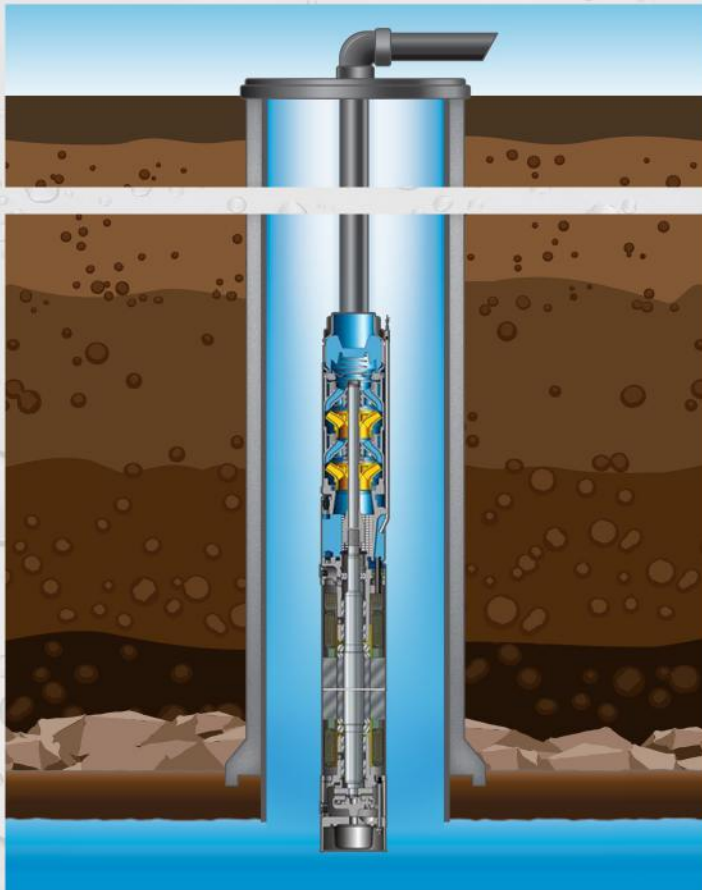
**STAINLESS STEEL NEMA-FACED
MOUNTING BRACKET**

**RECOMMENDED FOR PUMPING
CLEAR WATER**



ABOUT SUBMERSIBLE PUMPS

Unitra's SP Series Submersible Pumps boast a simple, elegant design that provides easy installation, maintenance and repair. The benefits of our design increase with the depth of the discharge tube and the installation depth of the pump. **SP Series Submersible Pumps** in discharge tubes can easily be pulled out as a single unit. This sets them apart from conventional tubular casing pumps or deep-well turbine pumps, which require a complex and time-consuming disassembly of drives, shaft assemblies and discharge pipe.



MAIN APPLICATIONS OF SUBMERSIBLE PUMPS

Irrigation and drainage pumping stations

Water treatment plants and stormwater stand-by tanks

Clean water pumps in water works

Cooling water pumps in power stations and industry

Industrial water supply

Flood, disaster and water pollution control

Pumps for docks and locks

Fish farms/aquaculture

Leisure park water attractions

Transporting and recirculating fluids in environmental and plant engineering projects

Depending on the specific speed, the impeller is designed as an axial flow impeller, mixed flow impeller or channel impeller. When the pump is installed, its diffuser ends directly in the discharge tube, which can be designed with an elbow for above floor or underfloor discharge, or as an overflow version.

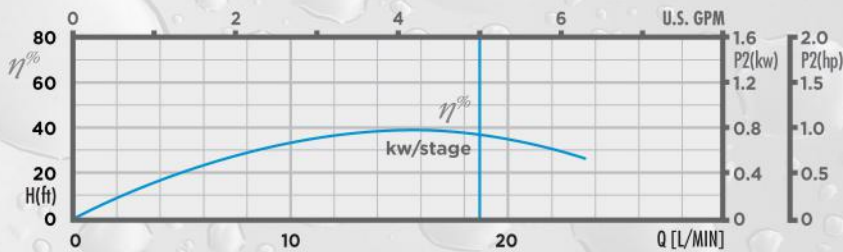
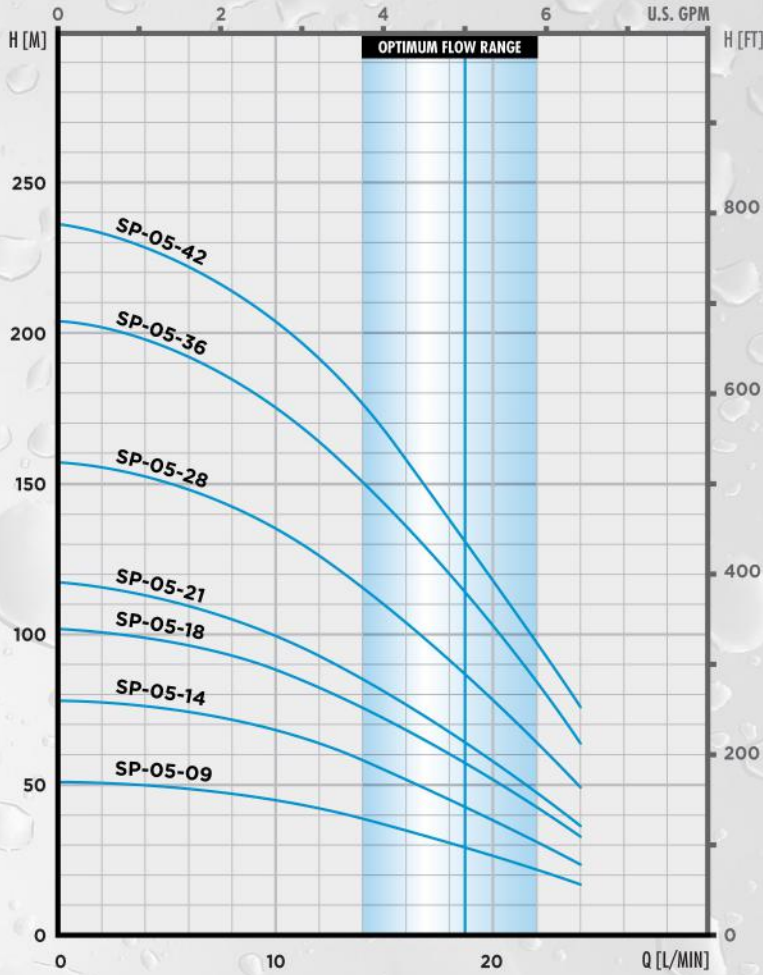
Submersible pumps are usually installed vertically; in special cases they can also be installed in an inclined or horizontal position. Submersible pumps in discharge tubes are not self-priming, which means that the propeller (as an axial impeller) always has to be sufficiently covered by the fluid handled. This is why wet well installation is typically chosen. The top of the intake chamber can be open or covered.

Regardless of the type of installation and the discharge tube design, the surface-cooled dry-rotor submersible motors (see submersible motor pump) of submersible pumps in discharge tubes are permanently cooled by the fluid flowing along the motor during operation.

MODEL SP-05 • 50Hz • SP05 SERIES

PERFORMANCE CURVES

5 GPM MAXIMUM EFFICIENCY



MODEL	STAGE	HP	QUANTITY DELIVERED					LENGTH (mm)	WEIGHT (kg)	
			l/min	5	10	15	20			25
			0	0.3	0.6	0.9	1.2			1.5
			TOTAL HEAD IN METERS							
SP-05-09	9	.5	52	48	45	36	27	14	343	3.2
SP-05-14	14	.5	79	76	68	56	38	21	448	4.2
SP-05-18	18	.75	102	96	88	72	52	27	542	5.0
SP-05-21	21	.75	118	112	100	81	58	30	195	5.6
SP-05-28	28	1	158	153	138	111	78	42	742	7.0
SP-05-36	36	1.5	205	195	175	134	103	54	945	9.1
SP-05-42	42	1.5	238	235	203	167	118	67	1071	10.4



1.25" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET

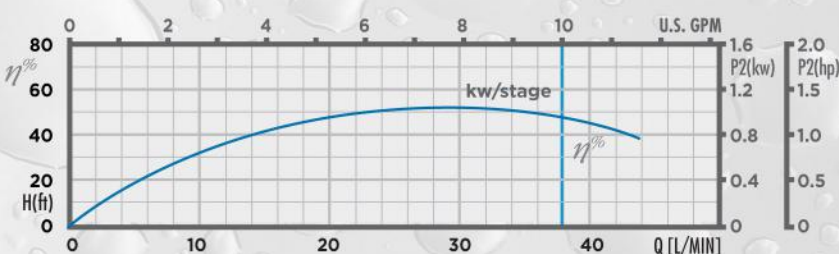
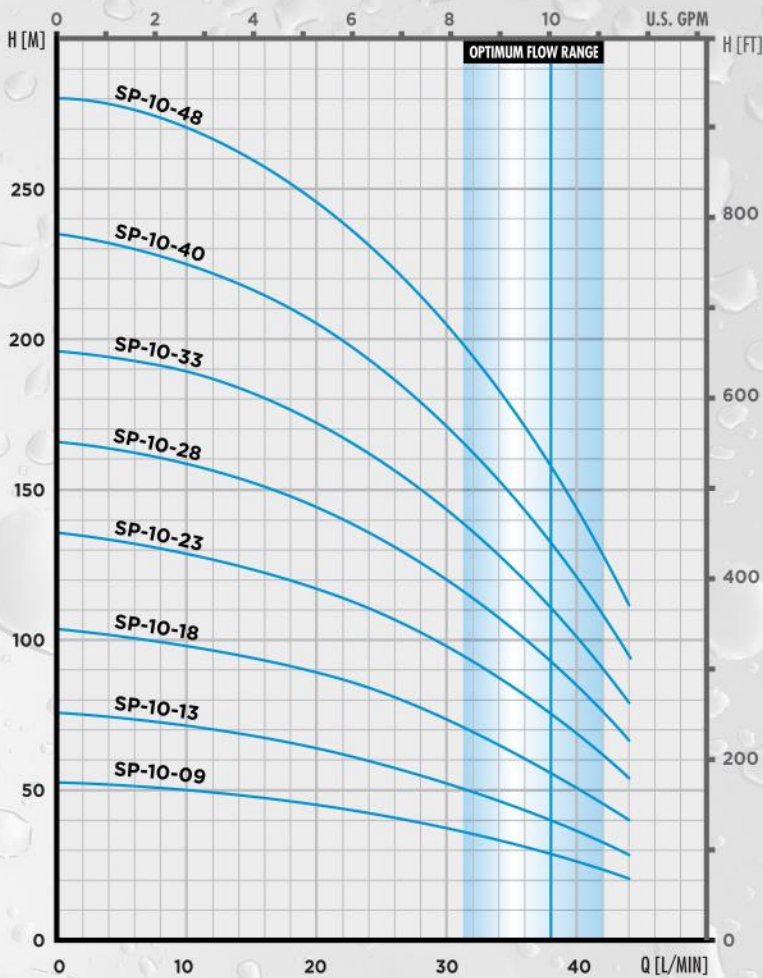


STAINLESS STEEL IMPELLER AND SPLIT CONE

MODEL SP-10 • 50Hz • SP10 SERIES

PERFORMANCE CURVES

10 GPM MAXIMUM EFFICIENCY



MODEL	STAGE	HP	QUANTITY DELIVERED							LENGTH (mm)	WEIGHT (kg)
			l/min	15	20	25	30	35	40		
			0	0.9	1.2	1.5	1.8	2.1	2.4		
TOTAL HEAD IN METERS											
SP-10-09	9	.5	53	48	45	42	38	33	26	343	3.1
SP-10-13	13	.75	77	68	64	58	54	46	38	427	4.0
SP-10-18	18	1	104	94	89	83	74	64	51	532	4.9
SP-10-23	23	1.5	136	124	118	108	98	84	69	637	6.0
SP-10-28	28	2	166	154	145	134	122	105	86	742	6.8
SP-10-33	33	2	195	183	173	159	143	124	102	847	7.6
SP-10-40	40	3	235	218	205	190	170	147	119	1029	9.8
SP-10-48	48	3	280	261	246	228	204	178	143	1197	11.1



1.25" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET

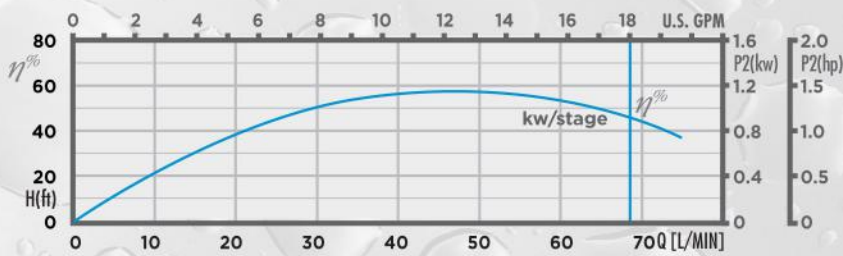
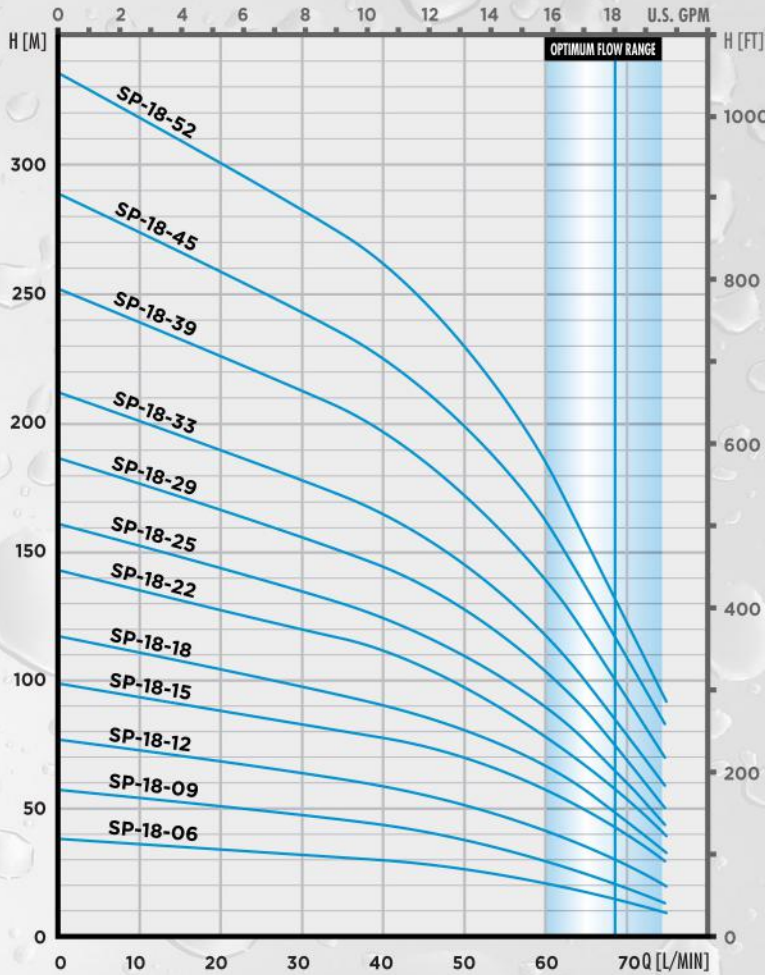


STAINLESS STEEL IMPELLER AND SPLIT CONE

MODEL SP-18 • 50Hz • SP18 SERIES

PERFORMANCE CURVES

18 GPM MAXIMUM EFFICIENCY



MODEL	STAGE	HP	QUANTITY DELIVERED										LENGTH (mm)	WEIGHT (kg)
			l/min	25	30	35	40	45	50	60	70			
			0	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2			
TOTAL HEAD IN METERS														
SP-18-06	6	.5	38	33	32	31	30	28	26	22	14	280	2.5	
SP-18-09	9	.75	57	49	47	46	44	41	38	30	19	343	3.1	
SP-18-12	12	1	77	66	64	62	58	56	52	43	28	406	2.7	
SP-18-15	15	1.5	97	85	83	80	77	74	69	57	40	469	4.4	
SP-18-18	18	1.5	116	101	97	94	90	85	80	67	45	532	4.9	
SP-18-22	22	2	143	127	120	115	110	105	97	80	54	616	5.7	
SP-18-25	25	2	160	139	134	128	124	117	110	90	60	679	6.2	
SP-18-29	29	3	185	160	155	149	143	136	127	103	70	763	7.1	
SP-18-33	33	3	211	183	177	172	164	155	145	118	80	847	7.8	
SP-18-39	39	4	250	219	213	204	195	185	172	138	94	993	9.5	
SP-18-45	45	4	288	250	243	233	224	213	199	162	110	1134	10.5	
SP-18-52*	52	5.5	334	291	282	272	261	247	230	184	123	1281	12.2	

*It is recommended to use the next rating of horsepower available



1.25" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET

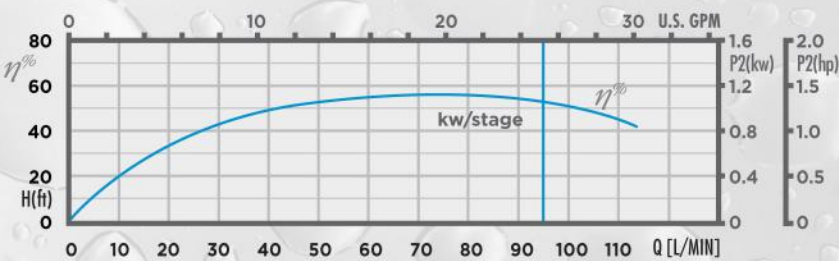
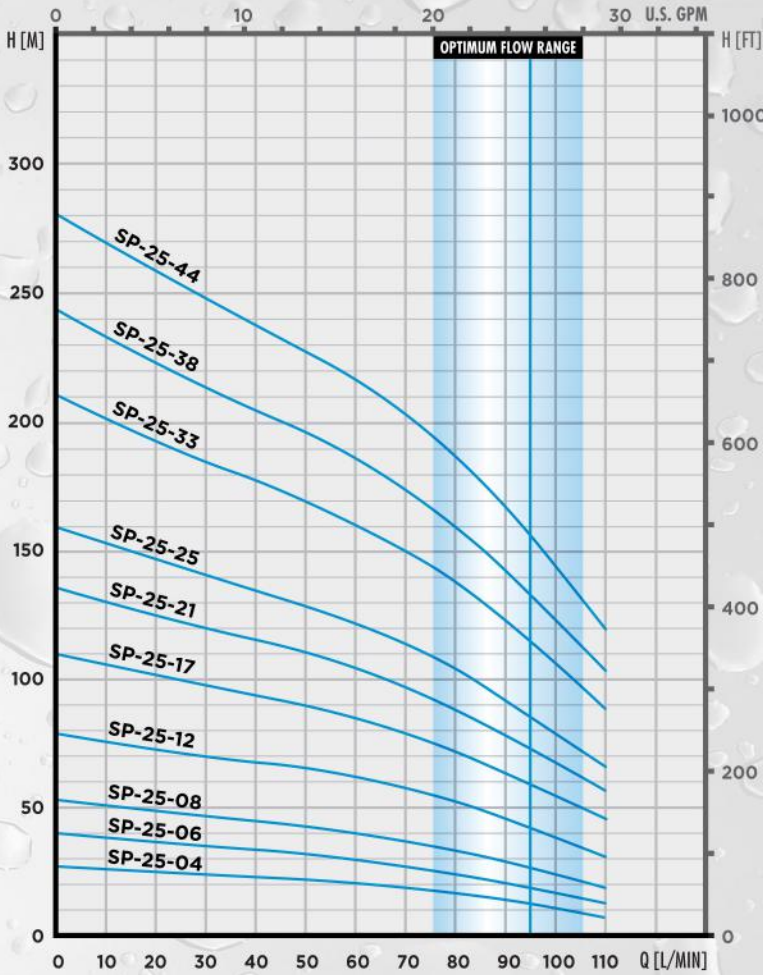


STAINLESS STEEL IMPELLER AND SPLIT CONE

MODEL SP-25 • 50Hz • SP25 SERIES

PERFORMANCE CURVES

25 GPM MAXIMUM EFFICIENCY



MODEL	S T A G E	HP	QUANTITY DELIVERED												L E N G T H (mm)	W E I G H T (kg)										
			l/min		30		35		40		45		50				60		70		80		90		100	
			0	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	6.0			6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
TOTAL HEAD IN METERS																										
SP-2504	4	.5	25	23	22	21	20.5	20	19	17	15	13	10	238	2.3											
SP-2506	6	.75	38	34	33	32	31	30	28	26	24	20	16	280	2.8											
SP-2508	8	1	52	45	44	43	42	41	39	36	33	28	23	322	3.0											
SP-2512	12	1.5	77	68	67	66	64	63	60	56	50	44	37	406	3.6											
SP-2517	17	2	108	96	94	93	90	88	84	77	70	63	54	511	4.6											
SP-2521	21	3	134	118	115	113	111	108	103	96	87	77	67	595	5.5											
SP-2525	25	3	157	138	136	133	129	127	121	113	103	90	78	679	6.2											
SP-2533	33	4	209	184	180	176	172	168	159	149	137	123	105	847	7.6											
SP-2538*	38	5.5	242	212	208	204	199	194	185	172	158	142	123	993	9.4											
SP-2544*	44	5.5	279	247	242	237	231	226	215	202	187	166	143	1098	10.3											

*It is recommended to use the next rating of horsepower available



1.25" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET

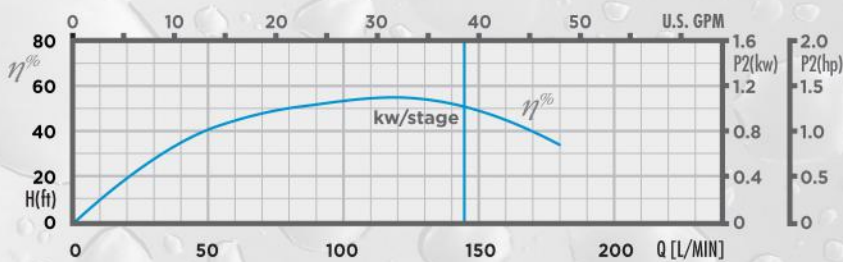
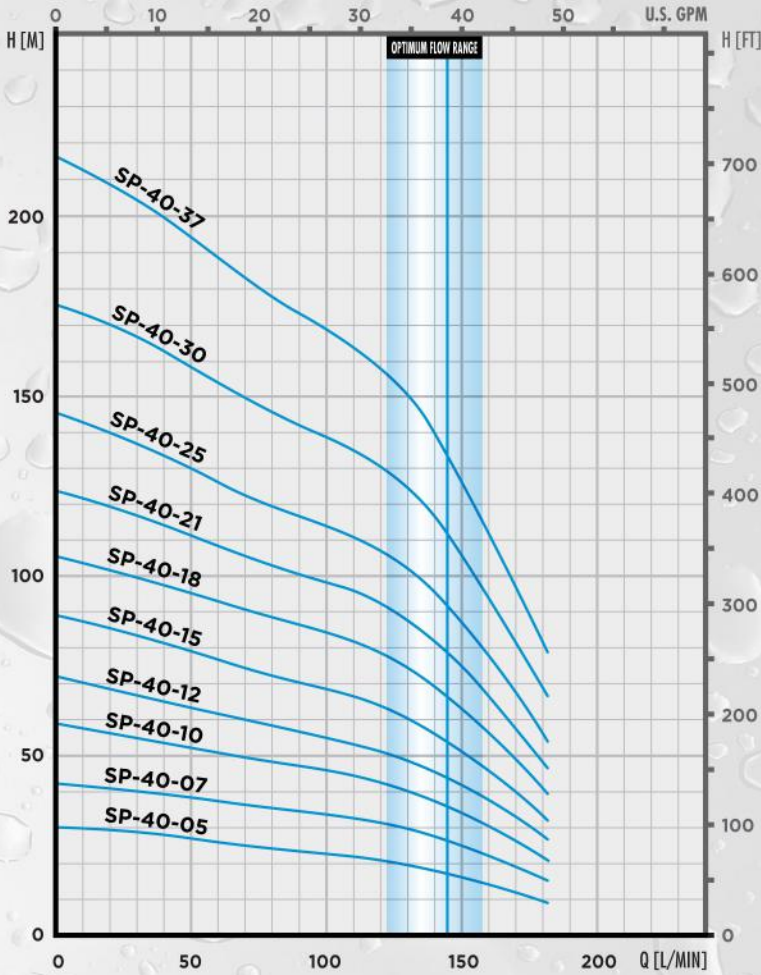


STAINLESS STEEL IMPELLER AND SPLIT CONE

MODEL SP-40 • 50Hz • SP40 SERIES

PERFORMANCE CURVES

40 GPM MAXIMUM EFFICIENCY



MODEL	S T A G E	HP	QUANTITY DELIVERED															L E N G T H (mm)	W E I G H T (kg)
			l/min		40	45	50	60	70	80	90	100	120	140	160	180			
			0	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8				
TOTAL HEAD IN METERS																			
SP-40-05	5	1	30	28	27	26	26	25	24	23	22	21	19	12	12	407	4.3		
SP-40-07	7	1.5	41	38	37	36	36	35	35	34	34	32	27	17	17	491	5.3		
SP-40-10	10	2	58	54	53	52	51	49	47	47	46	43	38	25	25	617	6.8		
SP-40-12	12	3	71	65	64	63	61	60	58	57	55	52	47	31	31	701	7.8		
SP-40-15	15	3	87	80	79	78	76	74	72	70	68	64	57	38	38	827	9.2		
SP-40-18	18	4	104	98	96	95	93	90	88	86	84	79	72	47	47	953	10.5		
SP-40-21*	21	5.5	122	114	113	111	107	105	102	100	98	93	85	55	55	1079	12.4		
SP-40-25*	25	5.5	144	133	131	128	126	123	119	116	114	107	97	64	64	1247	15.5		
SP-40-30	30	7.5	174	163	160	157	154	149	145	142	139	131	120	79	79	1457	17.2		
SP-40-37	37	7.5	215	199	196	194	188	183	177	173	169	160	145	93	93	1751	26.2		

*It is recommended to use the next rating of horsepower available



2" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET

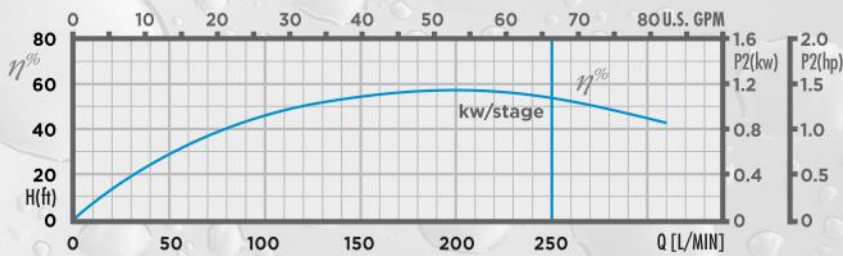
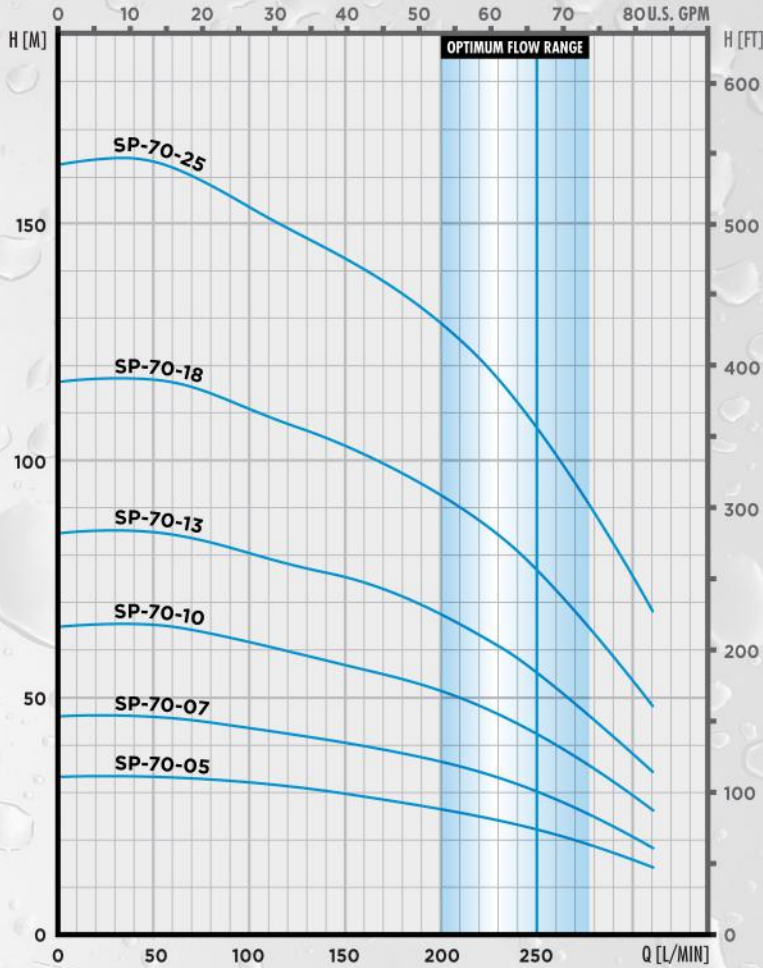


STAINLESS STEEL IMPELLER AND SPLIT CONE

MODEL SP-70 • 50Hz • SP70 SERIES

PERFORMANCE CURVES

70 GPM MAXIMUM EFFICIENCY



MODEL	S T A G E	HP	QUANTITY DELIVERED										L E N G T H (mm)	W E I G H T (kg)
			l/min	100	120	140	160	180	200	250	300			
			0	6.0	7.2	8.4	9.6	10.8	12	15	18			
			TOTAL HEAD IN METERS											
SP-7005	5	2	33	32	31	30	28	27	26	22	16	506	5.3	
SP-7007	7	3	46	44	43	42	40	37	36	30	20	636	6.6	
SP-7010	10	4	65	62	60	58	57	54	52	43	29	831	8.7	
SP-7013*	13	5.5	84	80	78	77	74	72	67	56	38	1026	10.7	
SP-7018	18	7.5	117	111	108	104	102	97	93	77	54	1351	14.1	
SP-7025	25	10	163	154	149	145	141	135	129	107	75	1806	18.9	

*It is recommended to use the next rating of horsepower available



2" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET

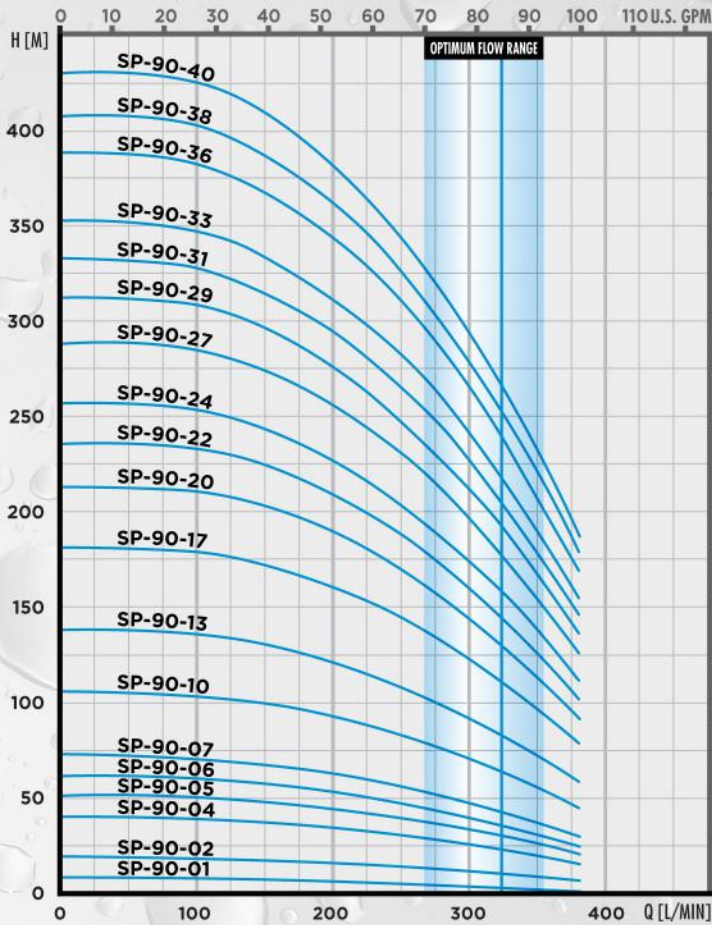


STAINLESS STEEL IMPELLER AND SPLIT CONE

MODEL SP-90 • 50Hz • SP90 SERIES

PERFORMANCE CURVES

90 GPM MAXIMUM EFFICIENCY



3" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET



STAINLESS STEEL IMPELLER AND SPLIT CONE



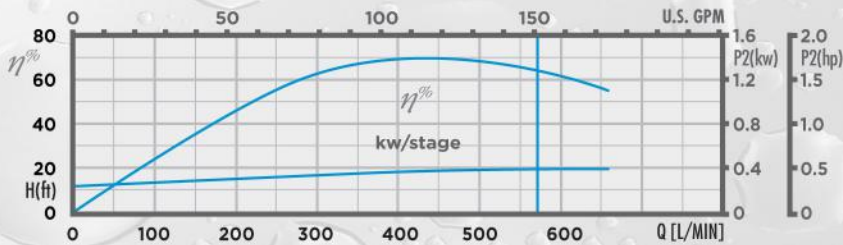
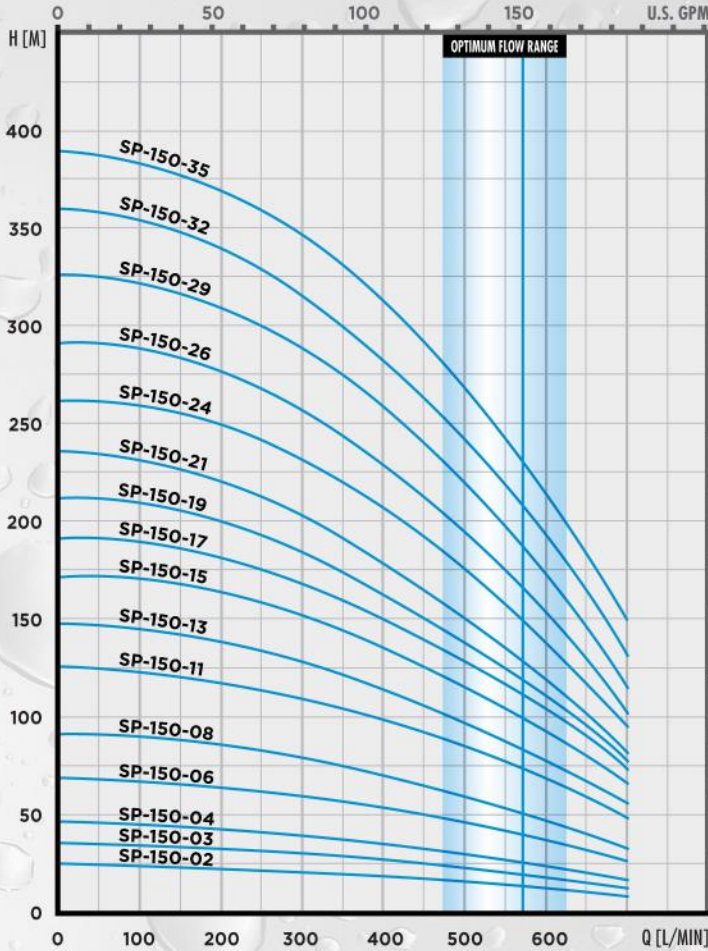
MODEL	S T A G E	HP	QUANTITY DELIVERED										L E N G T H (mm)	W E I G H T (kg)
			l/min	50	100	150	200	250	300	350	383			
			0	3	6	9	12	15	18	21	23			
			TOTAL HEAD IN METERS											
SP-9001	1	.75	12	11.5	11	10.5	9.5	8	7	6	4	343	5	
SP-9002	2	1.5	23	22	21.5	20.5	19	17.5	15	12	9	403	6.4	
SP-9004	4	3	43	42.5	42	40.5	38	33	28.5	23	18	524	9.3	
SP-9005	5	4	52	53	52	51	47.5	42.5	37	29	22	585	10.8	
SP-9006	6	5	64	64	63	60	56	50	43	34	27	645	12.2	
SP-9007*	7	5.5	76	75	74	71	66	59	51	40	32	706	13.7	
SP-9010	10	7.5	110	108	107	102	95	86	74	59	49	887	18	
SP-9013	13	10	142	141	139	133	124	112	95	75	60	1069	22.4	
SP-9017*	17	12.5	185	184	182	175	163	147	126	100	80	1311	28.2	
SP-9020	20	15	217	216	213	206	192	175	147	116	95	1492	32.5	
SP-9022*	22	17.5	240	239	237	228	212	191	163	130	105	1613	35.4	
SP-9024*	24	17.5	261	260	257	247	230	208	178	140	115	1734	38.3	
SP-9027	27	20	293	292	288	277	260	234	200	158	128	1916	42.7	
SP-9029	29	25	316	315	311	300	279	251	215	170	138	2037	45.6	
SP-9031	31	25	336	335	330	318	298	269	230	181	148	2158	48.5	
SP-9033	33	25	355	355	350	337	315	285	243	191	157	2279	51.4	
SP-9036	36	30	391	391	385	371	348	313	268	210	170	2460	55.7	
SP-9038	38	30	410	410	405	390	365	330	282	222	180	2581	58.6	
SP-9040	40	30	433	433	428	412	384	346	296	235	190	2702	61.5	

*It is recommended to use the next rating of horsepower available

MODEL SP-150 • 50Hz • SP150 SERIES

PERFORMANCE CURVES

150 GPM MAXIMUM EFFICIENCY



3" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET



STAINLESS STEEL IMPELLER AND SPLIT CONE

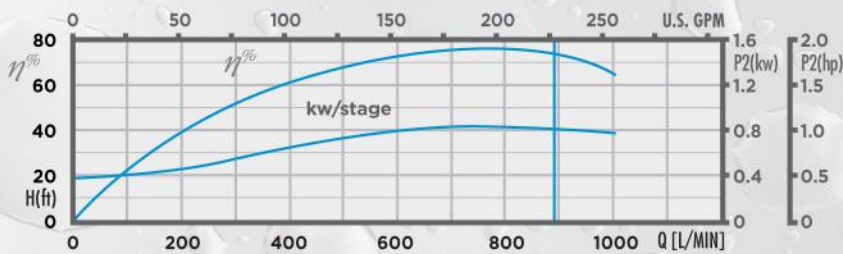
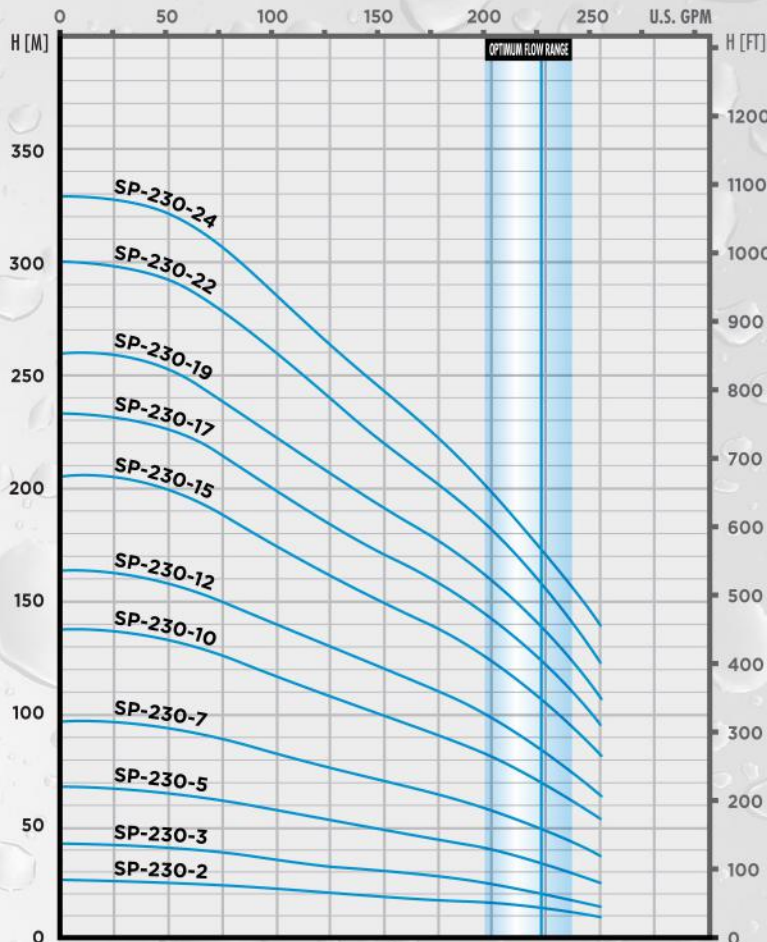
MODEL	S T A G E	HP	QUANTITY DELIVERED																L E N G T H (mm)	W E I G H T (kg)
			TOTAL HEAD IN METERS																	
			0	100	150	200	250	300	350	400	450	500	550	600	650	700				
SP-150-2	2	3	24	23	22	21	20	19	18	17	16	15	13	11	9	6	462	8.4		
SP-150-3	3	4	34	33	32	31	30	29	28	26	24	22	20	17	14	11	558	10.1		
SP-150-4*	4	5.5	43	43	42	41	40	38	36	34	31	28	26	23	19	15	654	11.8		
SP-150-6	6	7.5	67	67	64	62	60	58	56	52	49	45	40	36	30	25	846	15.2		
SP-150-8	8	10	89	88	87	84	81	78	73	68	64	58	53	46	38	31	1038	18.6		
SP-150-11	11	15	123	122	120	117	112	108	102	97	90	83	76	67	57	47	1326	23.6		
SP-150-13	13	15	144	143	140	137	132	127	120	113	105	97	87	77	66	55	1518	27		
SP-150-15	15	20	169	168	166	162	157	150	142	134	124	113	102	90	77	65	1710	30.4		
SP-150-17	17	20	189	188	185	180	173	167	158	148	138	127	116	103	88	71	1902	33.8		
SP-150-19	19	25	209	208	205	199	192	182	172	161	150	137	125	110	94	77	2094	37.2		
SP-150-21	21	25	231	230	226	220	212	202	190	177	164	149	134	117	100	80	2286	40.6		
SP-150-24	24	30	259	258	254	248	240	230	219	207	191	175	156	137	117	93	2574	45.6		
SP-150-26	26	30	288	287	282	275	266	255	242	227	212	194	173	152	127	100	2766	49		
SP-150-29*	29	35	320	319	314	307	298	287	273	257	240	220	196	170	143	113	3054	54.1		
SP-150-32	32	40	354	353	347	338	327	313	298	281	261	240	217	190	160	130	3342	59.2		
SP-150-35	35	40	383	382	377	368	358	346	329	311	290	267	240	211	180	148	3630	64.3		

*It is recommended to use the next rating of horsepower available

MODEL SP-230 • 50Hz • SP230 SERIES

PERFORMANCE CURVES

230 GPM MAXIMUM EFFICIENCY



3" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET



STAINLESS STEEL IMPELLER AND SPLIT CONE

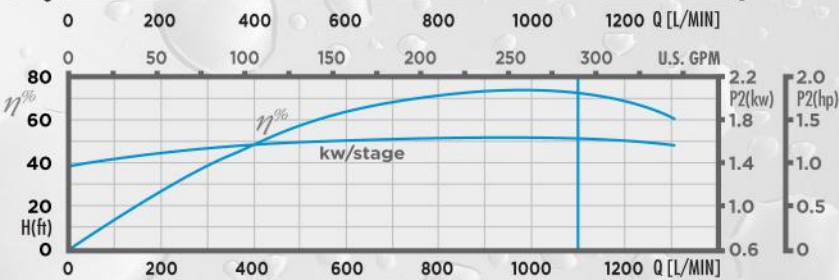
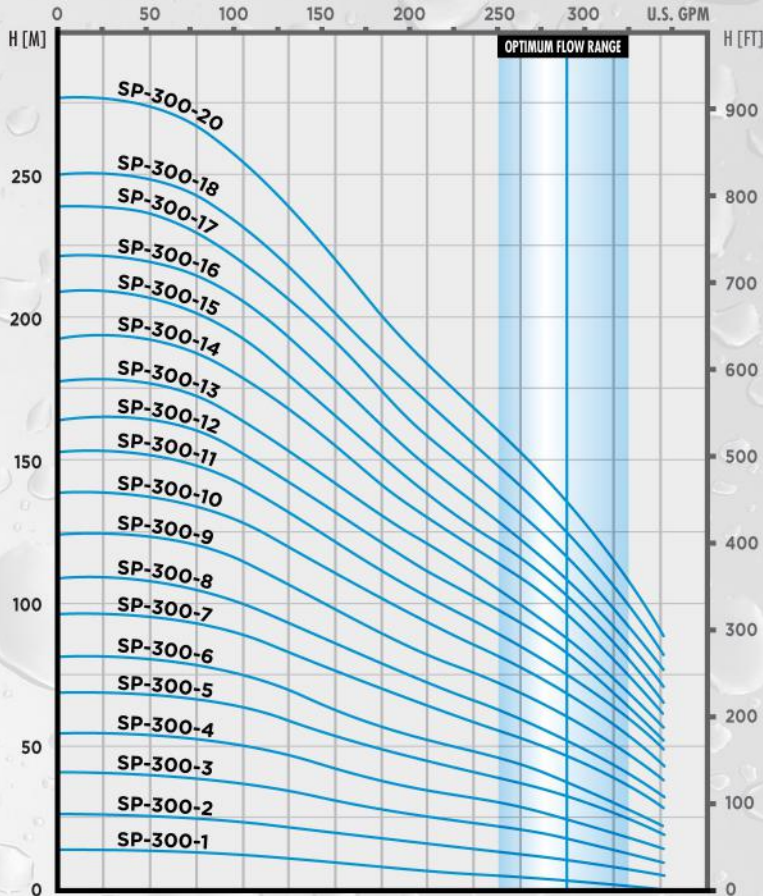
MODEL	S T A G E	HP	QUANTITY DELIVERED																L E N G T H (mm)	W E I G H T (kg)										
			l/min		200		250		300		350		400		450		500				600		700		800		900		1000	
			0	12	15	18	21	24	27	30	36	42	48	54	60	66	72	78			84	90	96	102	108	114	120	126	132	138
SP-230-2	2	4	25	24	23.5	23	22.5	22	21	20	18	17	15	12	9	496	9.2													
SP-230-3C	3	5	36	35	34	32	31	29	28	27	24	22	19	15	10	609	11.5													
SP-230-3	3	7.5	41	40	39	38	37	35	34	33	29	27	23	18	14	609	11.5													
SP-230-4C	4	7.5	50	49	47	46	45	43	41	39	36	32	28	23	17	722	13.8													
SP-230-5	5	10	66	65	63	61	59	57	55	53	48	44	39	32	24	835	16													
SP-230-7	7	15	95	94	92	88	85	82	79	76	70	64	57	47	37	1061	20.6													
SP-230-8C	8	15	101	100	98	95	92	88	85	82	76	69	61	51	39	1174	22.9													
SP-230-10	10	20	134	133	130	127	122	117	112	107	98	90	80	67	53	1400	27.4													
SP-230-12	12	25	159	158	155	150	145	140	135	130	120	110	98	83	64	1626	32													
SP-230-15	15	30	201	200	195	189	183	177	169	163	150	138	124	105	81	1965	38.8													
SP-230-17*	17	35	228	227	222	215	208	200	193	186	172	158	143	121	96	2191	43.4													
SP-230-19	19	40	255	254	248	241	233	224	216	208	193	178	160	136	107	2417	47.9													
SP-230-22	22	50	295	294	288	280	270	260	251	241	222	203	183	155	123	2756	54.8													
SP-230-24	24	50	326	325	317	309	298	287	276	265	244	223	199	171	140	2982	59.3													

*It is recommended to use the next rating of horsepower available

MODEL SP-300 • 50Hz • SP300 SERIES

PERFORMANCE CURVES

300 GPM MAXIMUM EFFICIENCY



3" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET

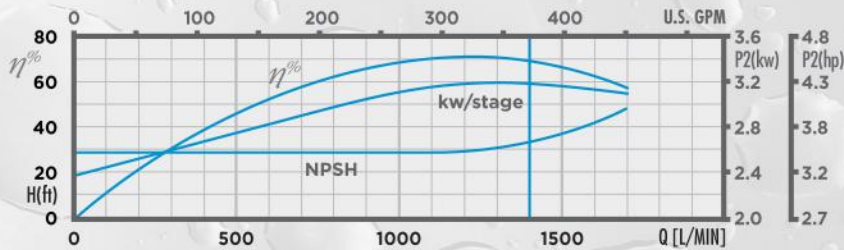
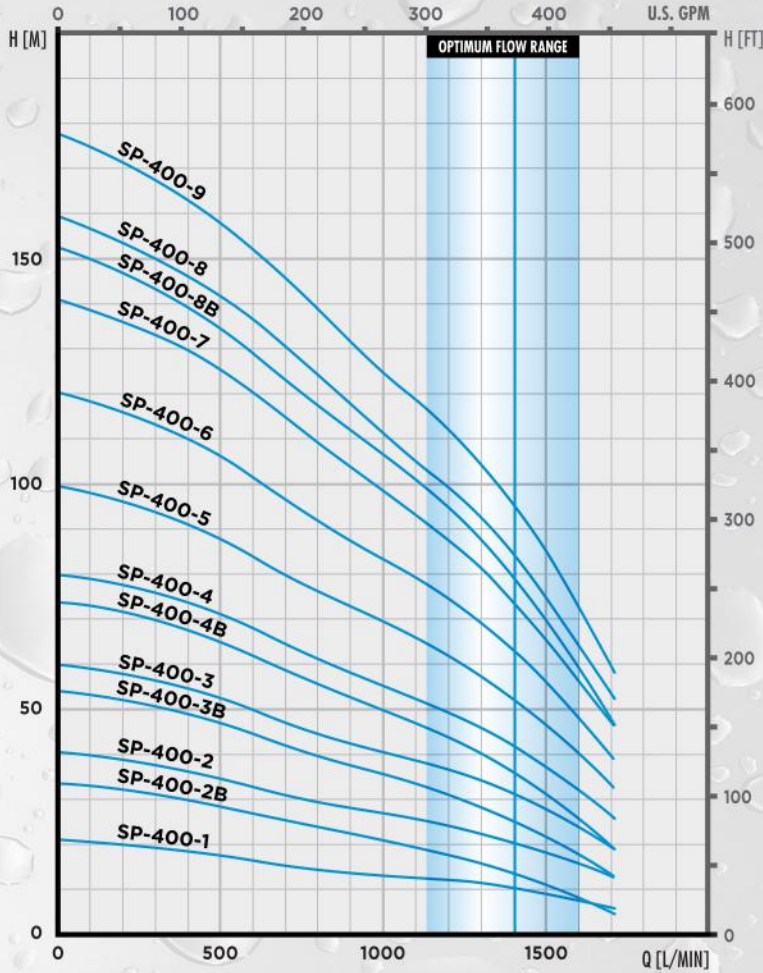


STAINLESS STEEL IMPELLER AND SPLIT CONE

MODEL	S T A G E	HP	QUANTITY DELIVERED																L E N G T H (mm)	W E I G H T (kg)
			V/min	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300				
			0	18	21	24	27	30	36	42	48	54	60	66	72	78				
			TOTAL HEAD IN METERS																	
SP-300-1	1	3	12	13	12.5	12	11.5	11	10	8	7	6	5	4	2	1	383	6.9		
SP-300-2	2	5	25	26	25	24	23	22	20	18	16	14	13	11	8	5	496	9.2		
SP-300-3	3	7.5	39	40	39	38	37	36	32	28	26	24	22	18	14	10	609	11.5		
SP-300-4	4	10	52	53	52	51	48	47	43	38	35	32	28	25	20	14	722	13.7		
SP-300-5*	5	12.5	66	67	66	64	62	60	55	50	46	42	38	33	27	19	835	16		
SP-300-6	6	15	78	79	78	76	73	70	64	58	53	48	44	38	32	23	948	18.3		
SP-300-7*	7	17.5	93	94	92	89	86	84	77	70	64	59	54	47	40	29	1061	20.6		
SP-300-8	8	20	105	106	104	101	97	94	87	80	73	67	60	53	44	33	1174	22.9		
SP-300-9	9	25	121	122	118	116	112	108	99	91	83	76	69	61	51	38	1287	25.1		
SP-300-10	10	25	133	135	132	128	125	120	111	102	95	87	78	68	57	45	1400	27.4		
SP-300-11	11	30	146	148	146	142	137	132	122	112	103	95	86	76	64	49	1513	29.7		
SP-300-12	12	30	160	162	157	153	148	143	133	122	112	103	94	83	68	53	1626	32		
SP-300-13*	13	35	171	173	169	165	160	155	143	132	121	110	100	87	73	57	1739	34.3		
SP-300-14*	14	35	187	188	184	180	175	168	156	142	130	120	109	96	80	63	1852	36.5		
SP-300-15*	15	35	201	203	197	193	187	180	166	152	138	127	116	103	86	67	1965	38.8		
SP-300-16	16	40	214	216	211	206	200	193	178	162	148	135	123	108	92	72	2078	41.1		
SP-300-17	17	50	227	230	226	220	214	207	192	175	158	145	132	116	97	78	2191	43.4		
SP-300-18	18	50	240	243	238	233	226	218	202	185	170	155	141	126	107	83	2304	45.7		
SP-300-20	20	50	265	267	263	256	248	239	220	201	184	168	153	136	115	90	2530	50.2		

*It is recommended to use the next rating of horsepower available

MODEL SP-400 • 50Hz • SP400 SERIES PERFORMANCE CURVES 400 GPM MAXIMUM EFFICIENCY



MODEL	S T A G E	HP	QUANTITY DELIVERED																L E N G T H (mm)	W E I G H T (kg)
			TOTAL HEAD IN METERS																	
			l/min m ³ /h	12	18	24	30	36	42	48	54	66	78	90	102	114	126	138		
SP-400-1	1	7 ½	20	20	19	18	17	16	15	14	13	12	9	7	618	25.1				
SP-400-2-B	2	7 ½	33	32	30	28	27	26	25	23	20	16	11	6	746	28.7				
SP-400-2	2	10	38	38	37	35	33	32	30	28	26	23	18	13	746	28.7				
SP-400-3-B*	3	12 ½	53	51	49	47	45	43	41	38	34	28	22	13	874	32.3				
SP-400-3	3	15	58	57	55	53	50	47	45	43	39	35	28	20	874	32.3				
SP-400-4-B*	4	17 ½	72	70	68	65	62	59	56	53	57	40	31	20	1003	35.9				
SP-400-4	4	20	77	76	74	71	67	64	61	58	53	46	37	27	1003	35.9				
SP-400-5	5	25	96	94	92	88	84	80	76	73	66	57	46	33	1131	39.5				
SP-400-6	6	30	116	113	110	106	101	96	92	88	80	70	56	40	1259	43				
SP-400-7*	7	35	136	133	130	126	120	115	109	104	93	81	65	47	1387	46.6				
SP-400-8-B*	8	35	147	143	139	134	129	123	117	112	101	87	69	47	1515	50.2				
SP-400-8	8	40	153	150	146	141	135	129	123	117	105	93	75	53	1515	50.2				
SP-400-9	9	40	171	167	163	158	152	154	138	131	118	104	84	58	1644	53.8				

*It is recommended to use the next rating of horsepower available



5" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET

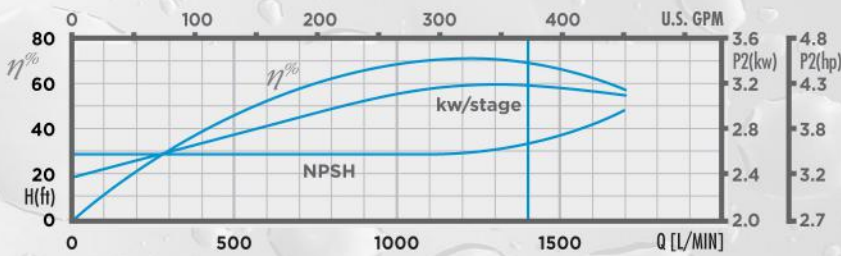
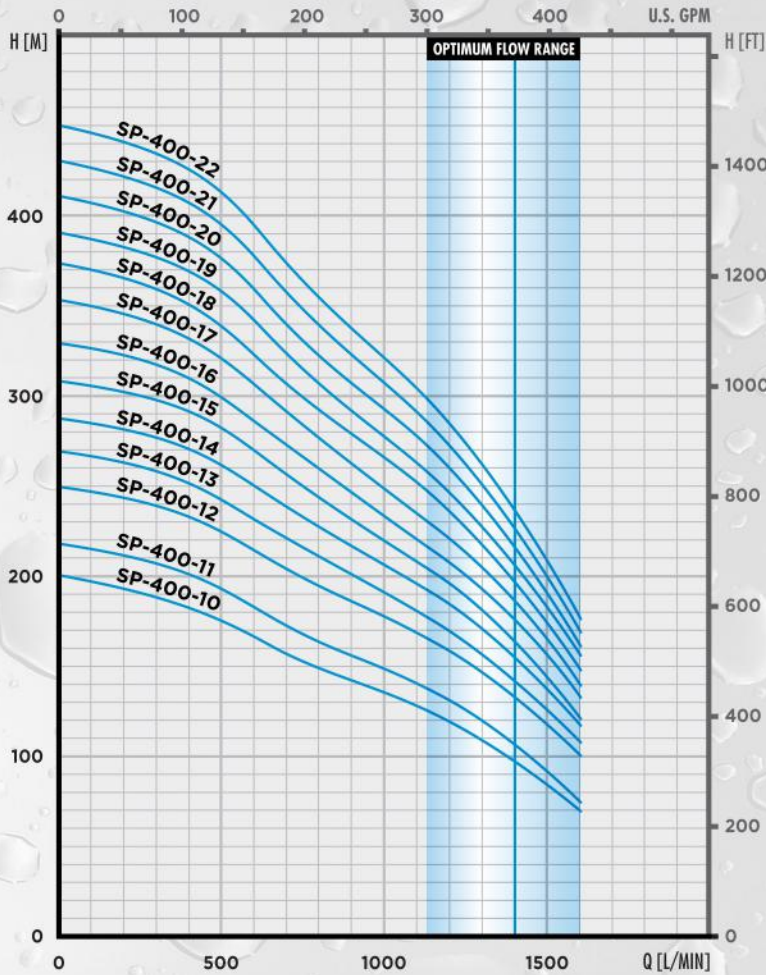


STAINLESS STEEL IMPELLER AND SPLIT CONE

MODEL SP-400 • 50Hz • SP400 SERIES

PERFORMANCE CURVES

400 GPM MAXIMUM EFFICIENCY



MODEL	S T A G E	HP	QUANTITY DELIVERED																L I G H T (mm)	W E I G H T (kg)
			TOTAL HEAD IN METERS																	
			V _{min} m ³ /h 0	12	18	24	30	36	42	48	54	66	78	90	102	114	126	138		
SP-400-10	10	50	193	188	183	177	168	160	152	145	132	117	94	68	1772	57.4				
SP-400-11	11	50	211	207	202	195	186	176	167	159	145	128	104	74	1900	61				
SP-400-12	12	60	244	240	234	227	217	207	198	190	173	154	130	99	2039	67				
SP-400-13	13	75	263	259	252	244	235	224	214	205	187	166	139	107	2168	70.6				
SP-400-14	15	75	282	278	272	264	254	242	231	221	201	180	151	116	2296	74.2				
SP-400-15	15	75	302	298	292	284	273	260	248	237	215	191	160	120	2296	77.8				
SP-400-16	16	85	322	318	312	302	290	278	265	252	228	202	172	132	2296	81.4				
SP-400-17	17	85	345	340	333	323	310	296	281	268	243	216	181	138	2296	85.2				
SP-400-18	18	85	365	359	352	341	328	312	298	285	260	230	193	147	2296	88.6				
SP-400-19	19	100	383	378	371	361	347	331	314	299	271	241	202	155	2296	92.3				
SP-400-20	20	100	402	397	389	379	364	347	330	315	287	254	212	159	2296	95.8				
SP-400-21	21	100	422	416	409	398	383	365	347	330	300	267	223	167	2296	99.4				
SP-400-22	22	125	442	436	428	417	401	382	363	345	313	278	233	175	2296	103				

*It is recommended to use the next rating of horsepower available



5" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET

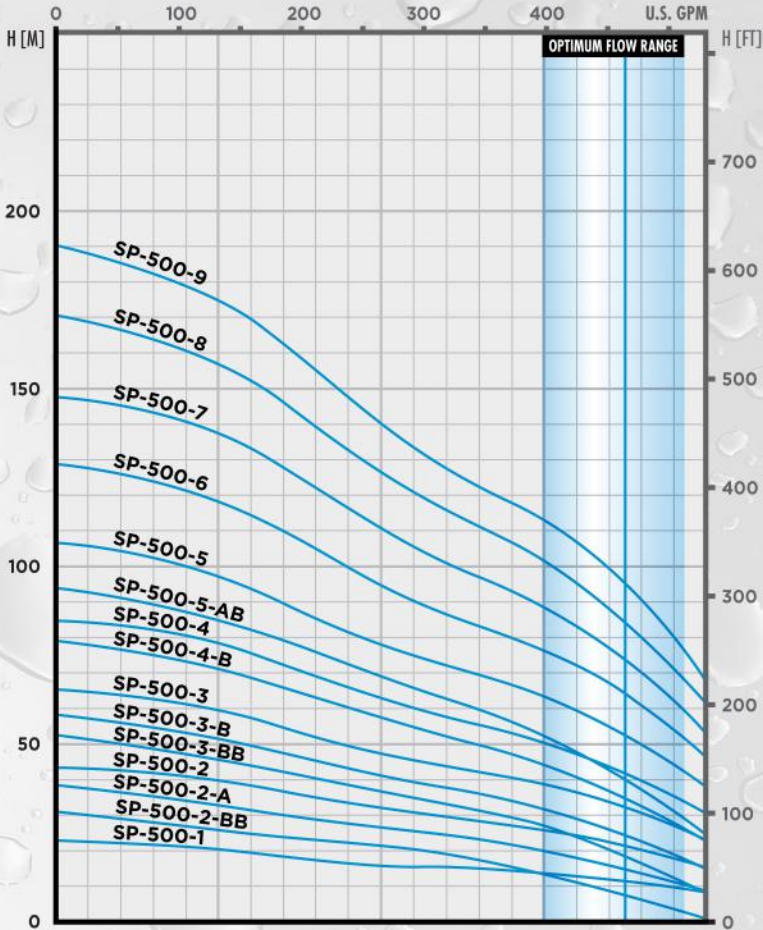


STAINLESS STEEL IMPELLER AND SPLIT CONE

MODEL SP-500 • 50Hz • SP500 SERIES

PERFORMANCE CURVES

500 GPM MAXIMUM EFFICIENCY



5" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



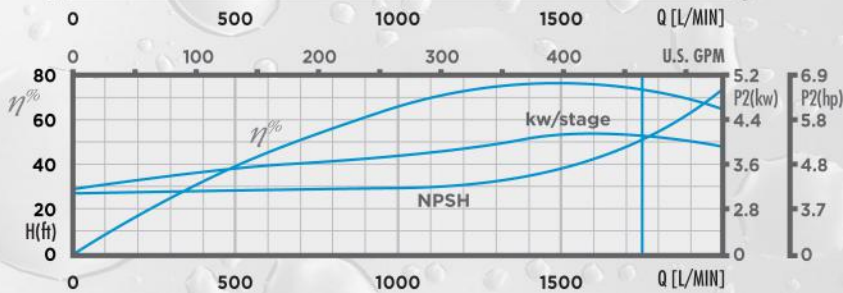
CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET



STAINLESS STEEL IMPELLER AND SPLIT CONE



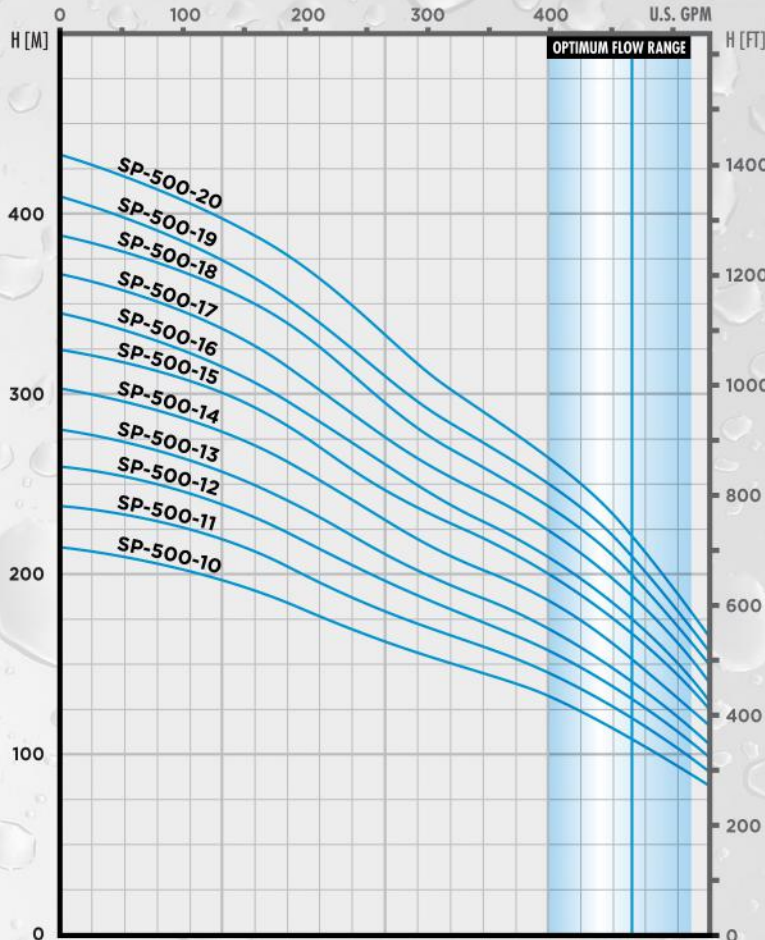
MODEL	STAGE	HP	QUANTITY DELIVERED																LENGTH (mm)	WEIGHT (kg)					
			TOTAL HEAD IN METERS																						
			l/min @ 0	300	400	500	600	700	800	1000	1200	1400	1600	1800	2000	m ³ /h @ 0	18	24			30	36	42	48	60
SP-500-1	1	7.5	21	20	19	18	18	17	15	14	13	12	10	8	618	25.1									
SP-500-2-BB	2	7.5	27	26	25	24	23	22	20	18	15	11	5	0	746	28.7									
SP-500-2-A	2	10	34	33	32	31	30	28	26	24	21	17	13	8	746	28.7									
SP-500-2	3	12.5	41	40	39	37	36	34	31	29	26	23	20	15	746	28.7									
SP-500-3-BB	3	12.5	48	46	45	43	41	40	36	33	28	23	16	8	874	32.3									
SP-500-3-B	3	15	54	53	51	49	47	45	41	37	33	28	22	15	874	32.3									
SP-500-3	3	17.5	62	60	59	57	54	51	47	43	40	35	30	23	874	32.3									
SP-500-4-B	4	20	74	73	71	68	65	62	56	52	47	40	32	22	1003	35.9									
SP-500-4	4	25	82	80	78	75	72	68	62	57	53	47	39	30	1003	35.9									
SP-500-5-AB	5	25	89	87	84	82	78	75	68	62	55	47	36	25	1131	39.5									
SP-500-5	5	30	102	100	97	94	90	85	77	72	66	59	50	38	1131	35.9									
SP-500-6	6	35	123	121	118	114	110	104	94	86	79	72	60	46	1259	43									
SP-500-7	7	40	143	140	137	132	127	121	110	101	93	83	70	53	1387	46.6									
SP-500-8	8	50	164	160	157	152	146	139	126	116	106	95	80	62	1515	50.2									
SP-500-9	9	50	184	179	175	169	163	155	140	128	118	106	90	68	1644	53.8									

*It is recommended to use the next rating of horsepower available

MODEL SP-500 • 50Hz • SP500 SERIES

PERFORMANCE CURVES

500 GPM MAXIMUM EFFICIENCY



5" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



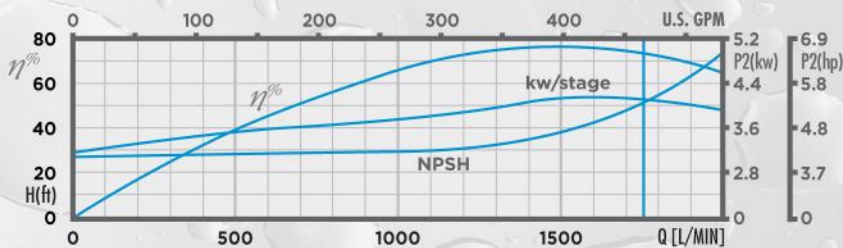
CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET



STAINLESS STEEL IMPELLER AND SPLIT CONE



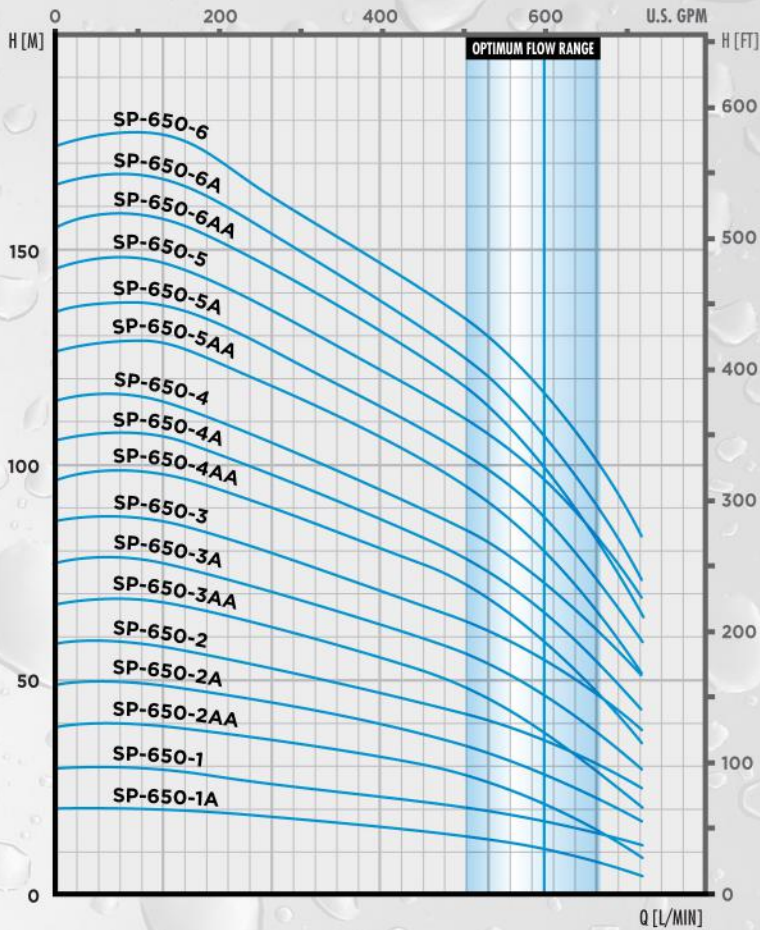
MODEL	STAGE	HP	QUANTITY DELIVERED																LENGTH (mm)	WEIGHT (kg)
			TOTAL HEAD IN METERS																	
			l/min @ 18	300 @ 24	400 @ 30	500 @ 36	600 @ 42	700 @ 48	800 @ 60	1000 @ 72	1200 @ 84	1400 @ 96	1600 @ 108	1800 @ 120	2000					
SP-500-10	10	60	206	201	197	190	183	177	162	150	140	124	105	82	1783	60.1				
SP-500-11	11	75	230	225	220	212	204	196	180	167	152	137	116	90	1911	63.7				
SP-500-12	12	75	250	245	240	231	222	214	197	181	167	150	126	99	2039	71				
SP-500-13	13	75	268	263	258	250	240	230	210	195	180	160	135	106	2168	74.6				
SP-500-14	14	85	291	286	280	271	261	251	230	210	194	174	147	116	2296	78.2				
SP-500-15	15	100	312	308	300	292	281	270	248	228	210	190	160	126	2424	81.8				
SP-500-16	16	100	330	323	316	307	297	286	262	240	221	200	171	131	2552	85.4				
SP-500-17	17	100	350	344	336	327	316	302	277	255	235	212	180	140	2680	89				
SP-500-18	18	125	372	366	360	350	340	326	296	270	250	227	192	150	2809	92.6				
SP-500-20	20	125	412	406	397	388	378	365	333	302	279	251	214	166	3065	96.2				

*It is recommended to use the next rating of horsepower available

MODEL SP-650 • 50Hz • SP650 SERIES

PERFORMANCE CURVES

650 GPM MAXIMUM EFFICIENCY



5" DISCHARGE



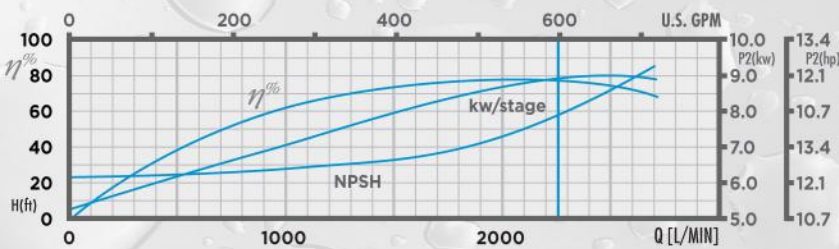
S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET



STAINLESS STEEL IMPELLER AND SPLIT CONE

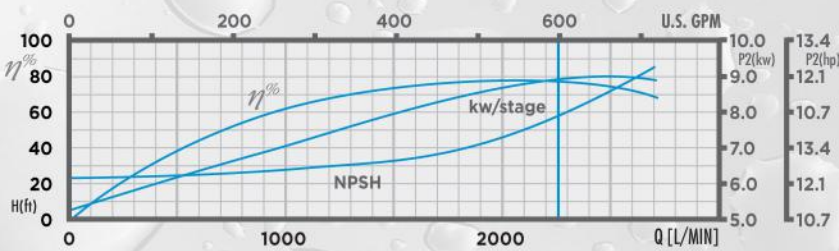
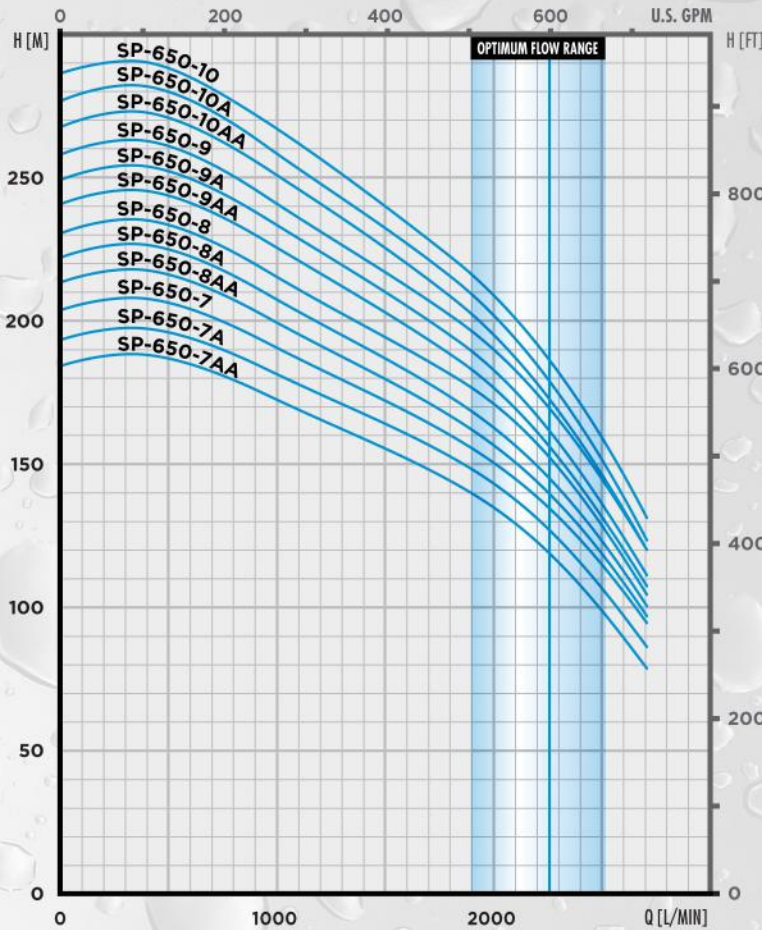
MODEL	STAGE	HP	QUANTITY DELIVERED																LENGTH (mm)	WEIGHT (kg)
			TOTAL HEAD IN METERS																	
			1/2 min	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700					
			0	30	42	54	66	78	90	102	114	126	138	150	162					
SP-650-1-A	1	10	20	19	18	18	17	16	15	14	12	10	7	4	652	20.2				
SP-650-1	1	15	29	28	26	25	24	22	22	20	18	17	15	12	652	29.3				
SP-650-2-AA	2	17.5	39	38	37	36	34	32	30	28	24	20	15	9	807	35.6				
SP-650-2-A	2	25	49	48	46	44	41	39	38	35	32	28	22	17	807	35.7				
SP-650-2	2	30	58	56	54	52	49	47	44	42	39	35	31	25	807	35.8				
SP-650-3-AA	3	30	68	66	64	61	58	55	52	48	43	36	29	20	963	42.1				
SP-650-3-A	3	35	77	75	73	69	66	63	60	56	51	45	37	29	963	42.2				
SP-650-3	3	40	87	89	81	78	74	71	68	63	58	53	46	39	963	42.3				
SP-650-4-AA	4	50	98	95	92	88	85	81	77	72	65	67	47	35	1118	48.6				
SP-650-4-A	4	50	106	104	100	96	92	87	83	78	72	64	54	43	1118	48.7				
SP-650-4	4	50	115	112	108	103	98	94	89	84	78	71	62	51	1118	48.8				
SP-650-5-AA	5	60	128	125	121	116	112	107	101	95	87	78	65	51	1274	55.1				
SP-650-5-A	5	60	137	133	129	124	119	114	108	102	95	85	73	59	1274	56.9				
SP-650-5	5	75	147	144	138	133	128	122	117	111	103	94	83	69	1274	57.1				
SP-650-6-AA	6	75	157	154	149	143	138	131	125	118	108	97	82	65	1429	61.9				
SP-650-6-A	6	75	166	162	156	151	144	138	132	125	116	104	90	74	1429	62.0				
SP-650-6	6	85	176	173	166	159	153	147	140	133	124	114	100	84	1429	62.1				

*It is recommended to use the next rating of horsepower available

MODEL SP-650 • 50Hz • SP650 SERIES

PERFORMANCE CURVES

650 GPM MAXIMUM EFFICIENCY



MODEL	STAGE	HP	QUANTITY DELIVERED																LENGTH (mm)	WEIGHT (kg)
			TOTAL HEAD IN METERS																	
			1/min m ³ /h	0	30	42	54	66	78	90	102	114	126	138	150	162	174	186		
SP-650-7-AA	7	85	187	183	176	170	163	156	148	140	129	115	98	79	1585	66.9				
SP-650-7-A	7	85	195	191	185	178	170	163	155	148	137	123	106	83	1585	67.0				
SP-650-7	7	100	205	200	194	186	178	171	164	155	145	132	116	98	1585	67.1				
SP-650-8-AA	8	100	216	211	204	196	188	180	172	162	149	134	115	93	1740	71.9				
SP-650-8-A	8	100	224	218	212	204	195	187	178	168	156	141	122	100	1740	72.0				
SP-650-8	8	100	233	227	220	212	203	194	186	176	165	149	130	108	1740	72.1				
SP-650-9-AA	9	125	243	238	230	221	212	203	193	182	168	150	128	104	1896	76.9				
SP-650-9-A	9	125	252	245	237	228	219	210	200	189	175	158	137	113	1896	77.0				
SP-650-9	9	125	261	255	246	236	226	217	207	196	183	166	145	120	1896	77.1				
SP-650-10-AA	10	125	271	265	256	246	236	226	215	203	186	167	144	115	2051	81.9				
SP-650-10-A	10	125	280	273	264	253	243	232	221	209	193	175	151	123	2051	82.0				
SP-650-10	10	125	288	281	271	261	250	239	227	215	201	182	159	131	2051	82.1				

*It is recommended to use the next rating of horsepower available



5" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET

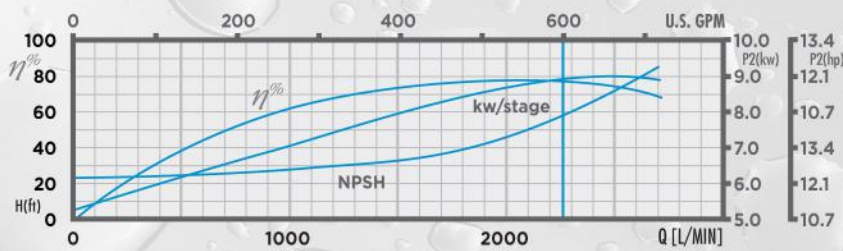
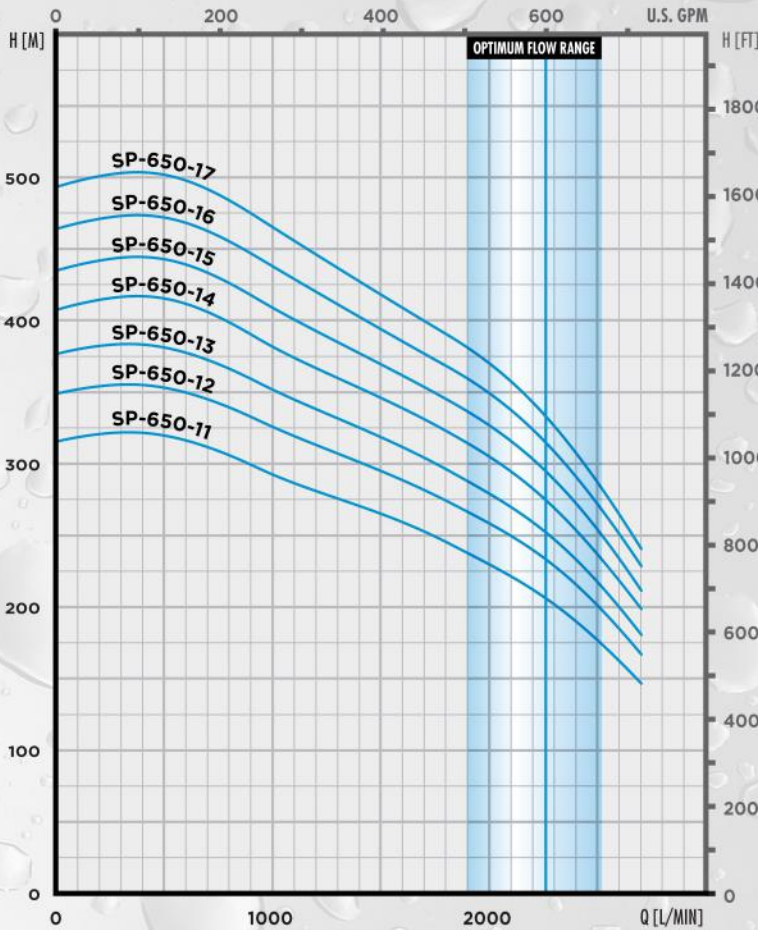


STAINLESS STEEL IMPELLER AND SPLIT CONE

MODEL SP-650 • 50Hz • SP650 SERIES

PERFORMANCE CURVES

650 GPM MAXIMUM EFFICIENCY



MODEL	STAGE	HP	QUANTITY DELIVERED																LENGTH (mm)	WEIGHT (kg)										
			l/min		500		700		900		1100		1300		1500		1700				1900		2100		2300		2500		2700	
			0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30			0	30	0	30	0	30	0	30	0	30
			TOTAL HEAD IN METERS																											
SP-650-11	11	150	319	312	301	289	277	265	254	240	223	202	177	149	2207	871														
SP-650-12	12	175	352	345	333	320	308	295	283	269	251	228	200	169	2492	109.5														
SP-650-13	13	175	381	372	360	346	332	318	304	289	270	246	216	180	2648	116.0														
SP-650-14	14	200	413	404	390	375	361	346	332	316	295	269	236	200	2803	122.5														
SP-650-15	15	200	441	431	417	401	385	370	354	336	315	286	251	213	2959	129.0														
SP-650-16	16	230	471	460	445	428	412	396	379	361	338	308	270	229	3114	135.5														
SP-650-17	17	230	500	490	473	455	436	418	408	382	358	325	286	241	3270	142.0														

*It is recommended to use the next rating of horsepower available



5" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET

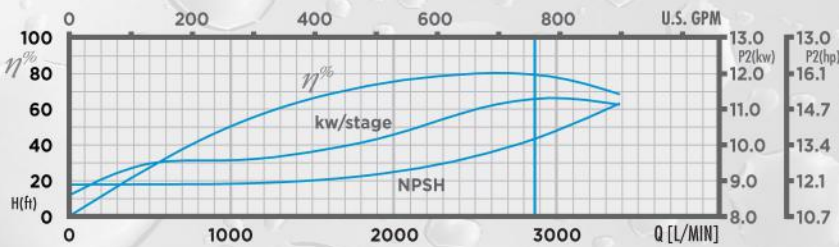
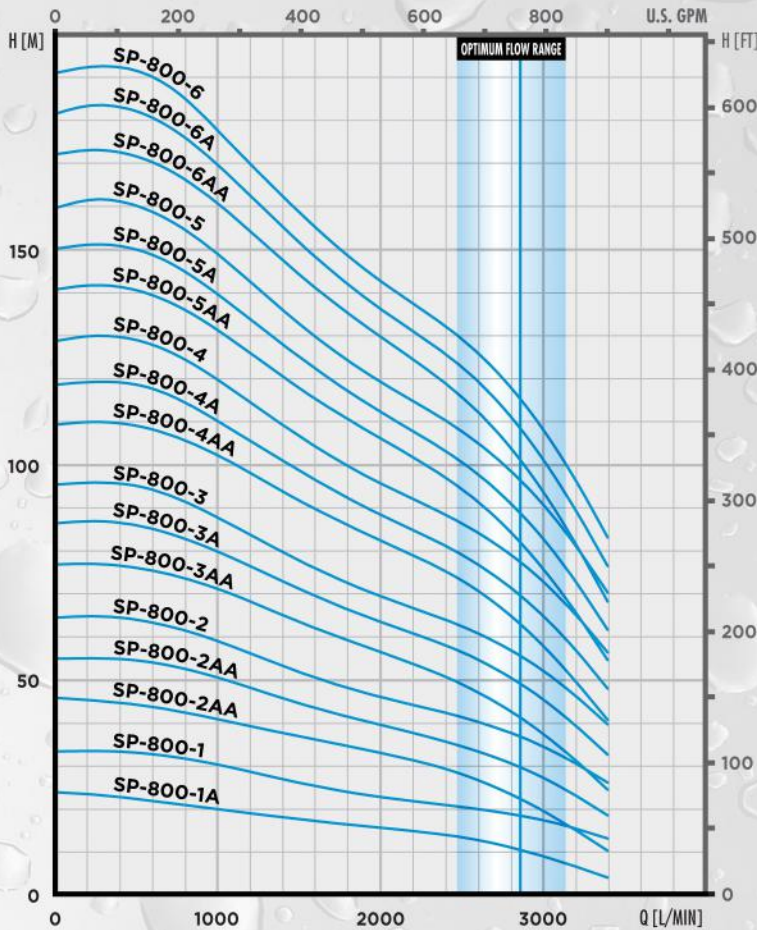


STAINLESS STEEL IMPELLER AND SPLIT CONE

MODEL SP-800 • 50Hz • SP800 SERIES

PERFORMANCE CURVES

800 GPM MAXIMUM EFFICIENCY



6" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET



STAINLESS STEEL IMPELLER AND SPLIT CONE

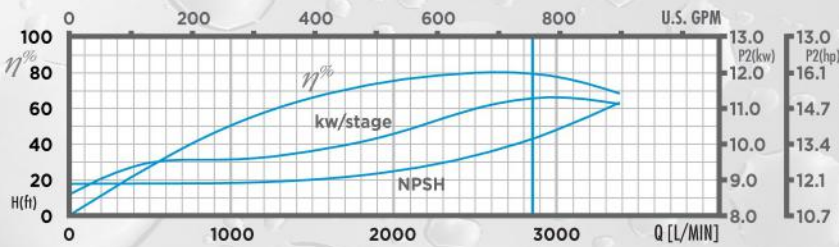
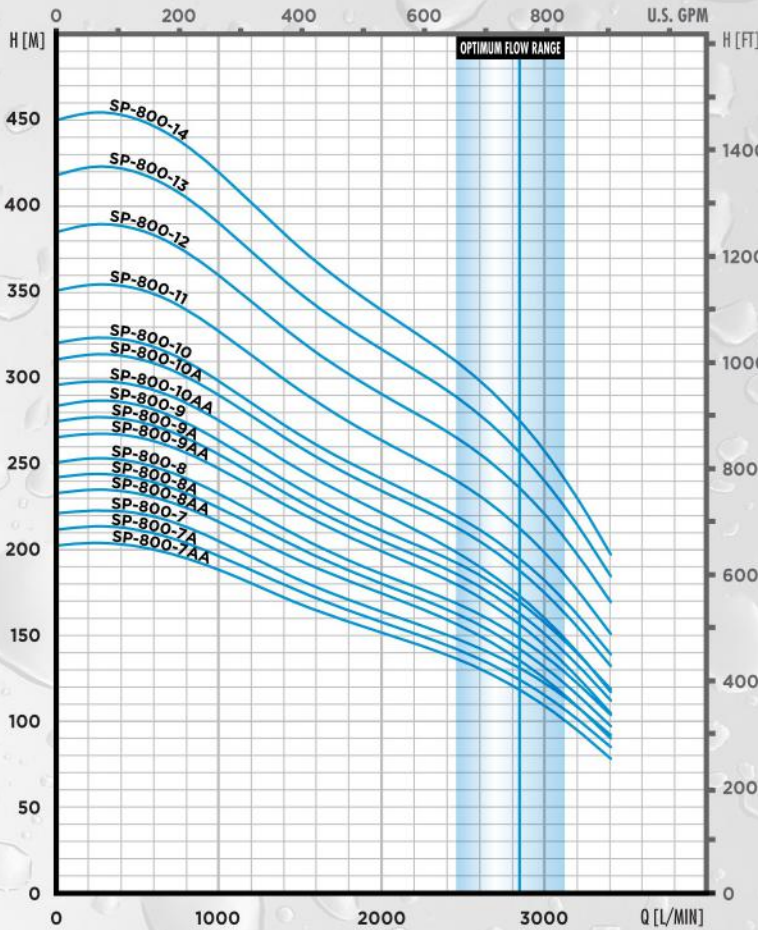
MODEL	S T A G E	HP	QUANTITY DELIVERED													L E N G T H (mm)	W E I G H T (kg)
			V_{min}	600	900	1200	1500	1800	2100	2400	2700	3000	3300				
			m^3/h	36	54	72	90	108	126	144	162	180	198				
TOTAL HEAD IN METERS																	
SP-800-1-A	1	12.5	21	20	18	17	16	15	13	12	8	5	652	30.40			
SP-800-1	1	17.5	32	31	28	25	24	22	20	19	17	14	652	30.40			
SP-800-2-AA	2	25	43	41	39	36	34	32	29	25	19	12	807	36.74			
SP-800-2A	2	30	53	51	48	44	41	38	35	32	27	20	807	36.82			
SP-800-2	2	35	63	60	56	51	48	45	42	38	34	28	807	36.82			
SP-800-3-AA	3	40	75	72	68	63	59	55	50	45	37	28	963	43.16			
SP-800-3A	3	50	85	81	76	71	66	62	58	52	45	36	963	43.24			
SP-800-3	3	50	94	89	83	78	72	68	64	59	52	43	963	50.90			
SP-800-4-AA	4	60	108	104	98	91	85	80	75	68	57	45	1118	50.98			
SP-800-4A	4	60	117	112	105	98	92	86	81	74	65	52	1118	50.98			
SP-800-4	4	75	128	122	114	106	99	94	86	81	73	61	1118	57.32			
SP-800-5-AA	5	75	139	134	126	118	110	104	97	88	75	60	1274	57.40			
SP-800-5A	5	75	148	142	134	124	117	110	103	94	82	67	1274	57.40			
SP-800-5	5	85	158	152	142	132	124	117	110	102	90	76	1274	57.40			
SP-800-6-AA	6	85	170	163	154	144	135	127	119	108	93	75	1429	63.74			
SP-800-6A	6	100	180	173	162	152	142	133	125	115	101	83	1429	63.82			
SP-800-6	6	100	190	182	170	158	148	140	132	122	108	90	1429	63.82			

*It is recommended to use the next rating of horsepower available

MODEL SP-800 • 50Hz • SP800 SERIES

PERFORMANCE CURVES

800 GPM MAXIMUM EFFICIENCY



6" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET



STAINLESS STEEL IMPELLER AND SPLIT CONE

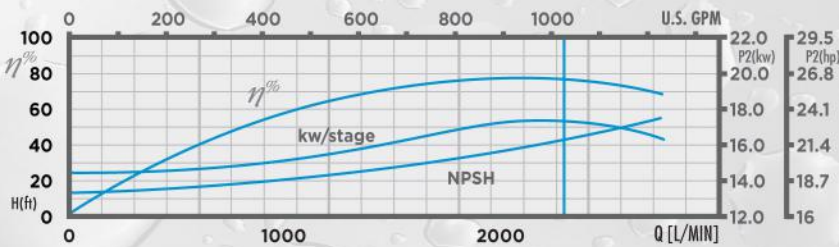
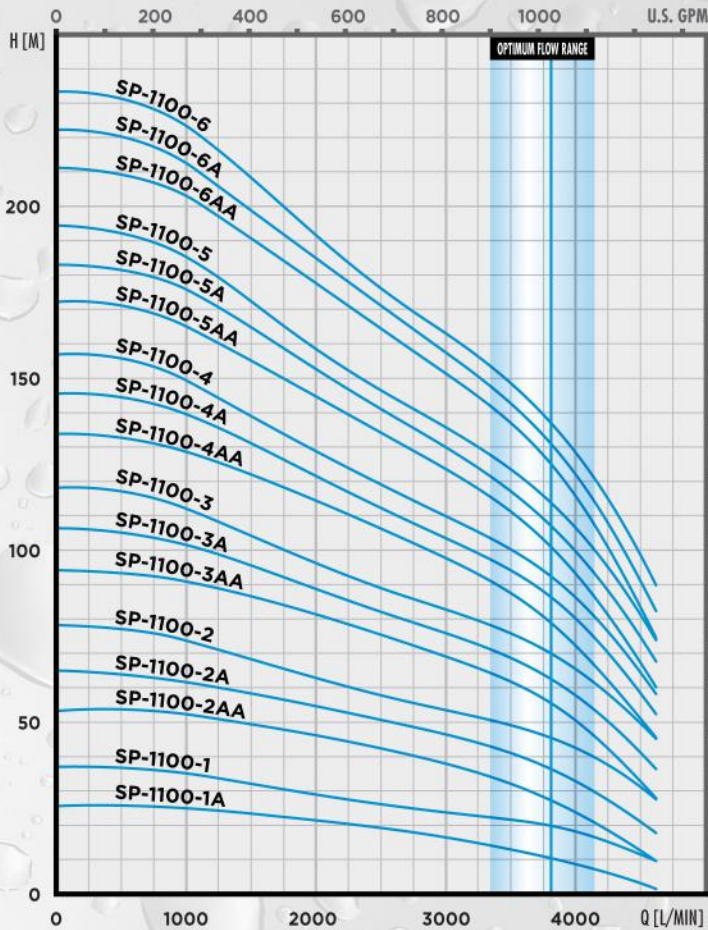
MODEL	STAGE	HP	QUANTITY DELIVERED													LENGTH (mm)	WEIGHT (kg)
			V_{min}	600	900	1200	1500	1800	2100	2400	2700	3000	3300				
			m^3/h	36	54	72	90	108	126	144	162	180	198				
			TOTAL HEAD IN METERS														
SP-800-7-AA	7	100	200	193	181	169	159	150	140	128	111	89	1585	70.16			
SP-800-7-A	7	125	210	201	188	177	166	156	146	134	117	96	1585	70.24			
SP-800-7	7	125	220	210	196	183	172	162	152	140	124	102	1585	70.24			
SP-800-8-AA	8	125	230	220	208	194	183	172	160	146	126	102	1740	76.58			
SP-800-8-A	8	125	239	229	215	201	189	177	167	152	133	108	1740	76.66			
SP-800-8	8	125	248	237	222	208	194	183	172	158	140	115	1740	76.66			
SP-800-9-AA	9	150	263	252	237	222	208	196	183	167	146	117	1896	83.00			
SP-800-9-A	9	150	272	260	244	228	214	202	189	174	152	124	1896	83.08			
SP-800-9	9	150	281	268	252	235	220	207	196	180	159	131	1896	83.08			
SP-800-10-AA	10	150	292	280	263	246	231	217	202	184	161	131	2051	89.42			
SP-800-10-A	10	175	307	295	277	259	244	230	216	199	176	145	2181	102.62			
SP-800-10	10	175	317	303	284	266	250	236	223	205	182	152	2181	102.62			
SP-800-11	11	175	347	332	312	292	274	258	243	224	199	165	2337	109.04			
SP-800-12	12	200	380	365	342	320	301	285	268	248	221	184	2492	115.46			
SP-800-13	13	230	413	395	371	347	327	309	292	269	240	200	2648	121.88			
SP-800-14	14	230	443	425	399	373	350	332	312	288	257	213	2803	128.50			

*It is recommended to use the next rating of horsepower available

MODEL SP-1100 • 50Hz • SP1100 SERIES

PERFORMANCE CURVES

1100 GPM MAXIMUM EFFICIENCY



6" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET



STAINLESS STEEL IMPELLER AND SPLIT CONE

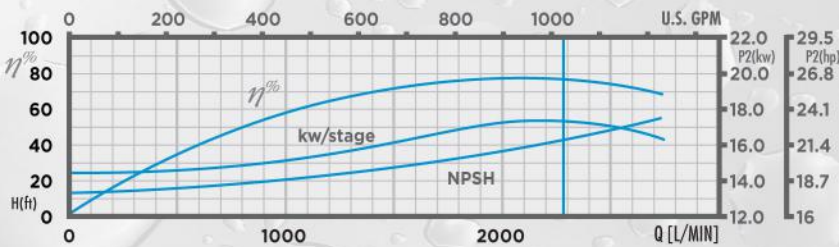
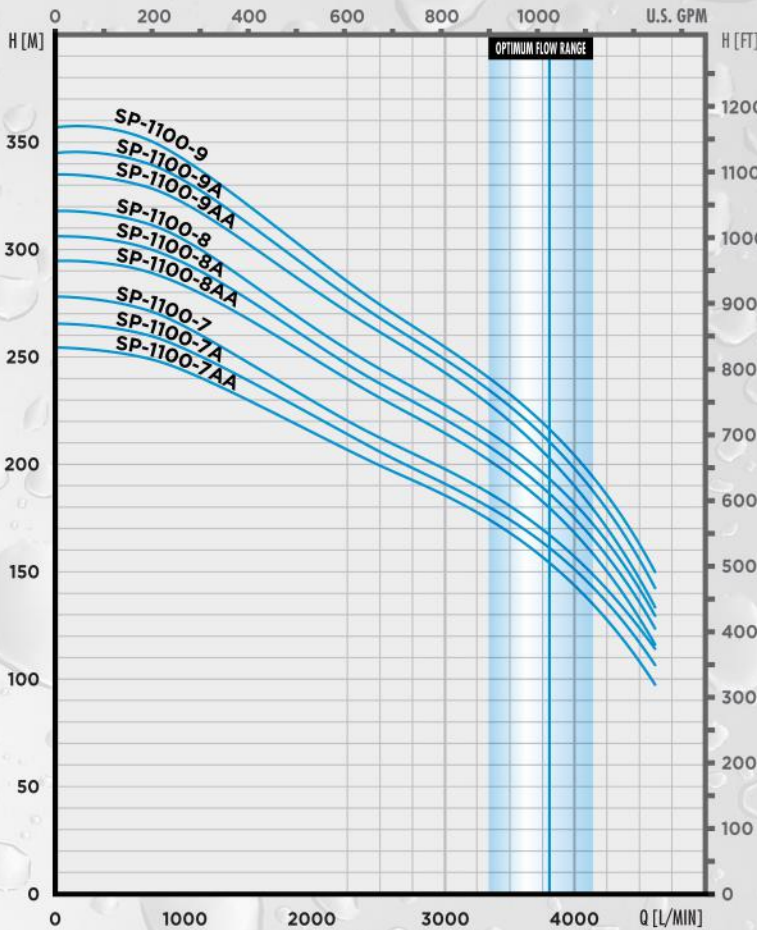
MODEL	S T A G E	HP	QUANTITY DELIVERED																L E N G T H (mm)	W E I G H T (kg)
			TOTAL HEAD IN METERS																	
			V/min m ³ /h	0	30	45	60	75	90	120	150	180	210	240	270	300	350	400		
SP-1100-1-A	1	20	26	25.5	25	24	23	21	19	16	13	9	4	772	46.1					
SP-1100-1	1	25	36.5	36	35	33	32	29	26	24	22	18	12	772	46.1					
SP-1100-2-AA	2	40	53	52.5	52	50	49	45	42	38	32	24	14	948	56.1					
SP-1100-2-A	2	50	64	63	62	60	58	54	50	46	41	34	22	948	56.1					
SP-1100-2	2	60	77	76	74	71	69	63	58	54	49	42	32	948	55.8					
SP-1100-3-AA	3	75	93	92	90	88	86	81	75	69	62	51	34	1124	65.6					
SP-1100-3-A	3	75	105	103	101	98	95	88	82	76	69	58	42	1124	65.6					
SP-1100-3	3	85	117	115	112	108	104	96	89	82	76	66	51	1124	65.6					
SP-1100-4-AA	4	100	133	131	128	125	122	114	106	98	88	74	53	1300	75.4					
SP-1100-4-A	4	100	144	142	139	135	130	121	112	104	94	81	60	1300	75.4					
SP-1100-4	4	100	155	152	149	144	139	128	118	110	100	87	68	1300	75.4					
SP-1100-5-AA	5	125	170	168	165	160	155	144	134	124	112	94	68	1476	85.8					
SP-1100-5-A	5	125	181	179	175	170	164	152	140	130	118	101	76	1476	85.8					
SP-1100-5	5	125	192	189	184	179	172	159	146	135	124	107	83	1476	85.8					
SP-1100-6-AA	6	150	209	206	202	197	191	178	154	152	138	117	86	1652	96.2					
SP-1100-6-A	6	150	220	217	212	206	199	184	170	158	143	123	93	1652	96.2					
SP-1100-6	6	150	231	228	223	216	207	191	177	164	149	129	101	1652	96.2					

*It is recommended to use the next rating of horsepower available

MODEL SP-1100 • 50Hz • SP1100 SERIES

PERFORMANCE CURVES

1100 GPM MAXIMUM EFFICIENCY



MODEL	S T A G E	HP	QUANTITY DELIVERED																L E N G T H (mm)	W E I G H T (kg)
			TOTAL HEAD IN METERS																	
			1/2 min m ³ /h	0	30	45	60	75	90	120	150	180	210	240	270	300	350	400		
SP-650-7-AA	7	175	251	248	243	236	229	213	198	184	167	143	108	1828	111.2					
SP-650-7-A	7	175	262	259	253	246	238	220	204	189	173	149	116	1828	111.2					
SP-650-7	7	175	274	270	264	255	246	227	210	196	180	156	124	1828	111.2					
SP-650-8-AA	8	200	292	288	282	274	266	247	230	213	195	168	128	2004	121.5					
SP-650-8-A	8	200	303	299	293	284	275	255	236	219	201	174	136	2004	121.5					
SP-650-8	8	200	315	310	303	294	264	262	243	225	207	181	144	2004	121.5					
SP-650-9-AA	9	230	331	327	320	312	302	281	260	242	221	191	146	2180	131.7					
SP-650-9-A	9	230	343	338	331	321	311	268	267	248	227	197	155	2180	131.7					
SP-650-9	9	230	354	349	341	331	319	295	273	254	233	204	162	2180	131.7					

*It is recommended to use the next rating of horsepower available



6" DISCHARGE



S. S. COUPLING AND SHAFT



S. S. BOWL W/DIFFUSER



CAST S. S. DISCHARGE W/CHECK VALVE



CAST STAINLESS STEEL SUCTION W/NEMA MOUNTING BRACKET



STAINLESS STEEL IMPELLER AND SPLIT CONE

UNITRA, INC's SP Series Submersible Pumps feature rugged, stainless steel parts that are manufactured using state-of-the-art tooling. The **SP Series** come standard with durable, cast stainless steel discharge heads (with built-in check valves) and motor adaptors. In addition, the pump casings, bowls, strainers, pump shaft, coupling and cable guards are all stamped stainless steel.

SP Series Pumps are equipped with a floating impeller stack to reduce the high starting torque. Impellers are made of abrasion-resistant stainless steel and both are encased in a stainless steel bowl. All materials used are highly resistant to corrosion and abrasion.



UNITRA, INC has been manufacturing quality water pumps in the United States for over 50 years. **UNITRA, INC** has built a rock-solid reputation for top quality designs with high performances, competitive pricing and timely deliveries and are proud to supply professional distributors and OEM's across the world in more than forty countries.

Extraordinary performance and value are things that our customers have come to expect and the **UNITRA, INC** line of submersible pumps boast better performance and a rugged design that remains unmatched in the industry.