

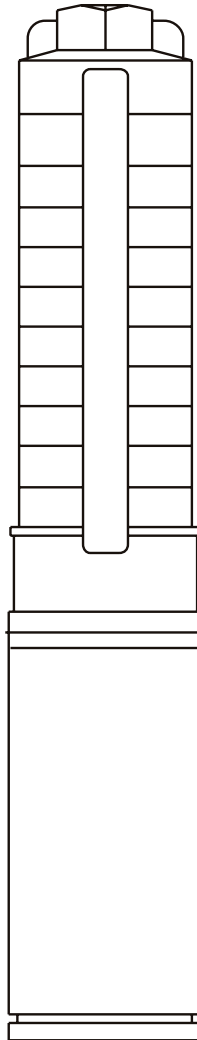


4770 SERIES

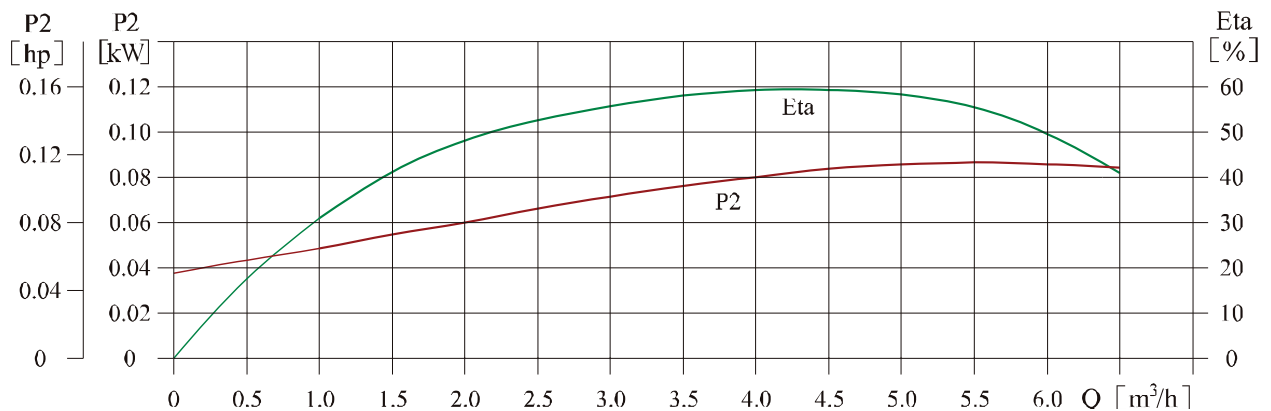
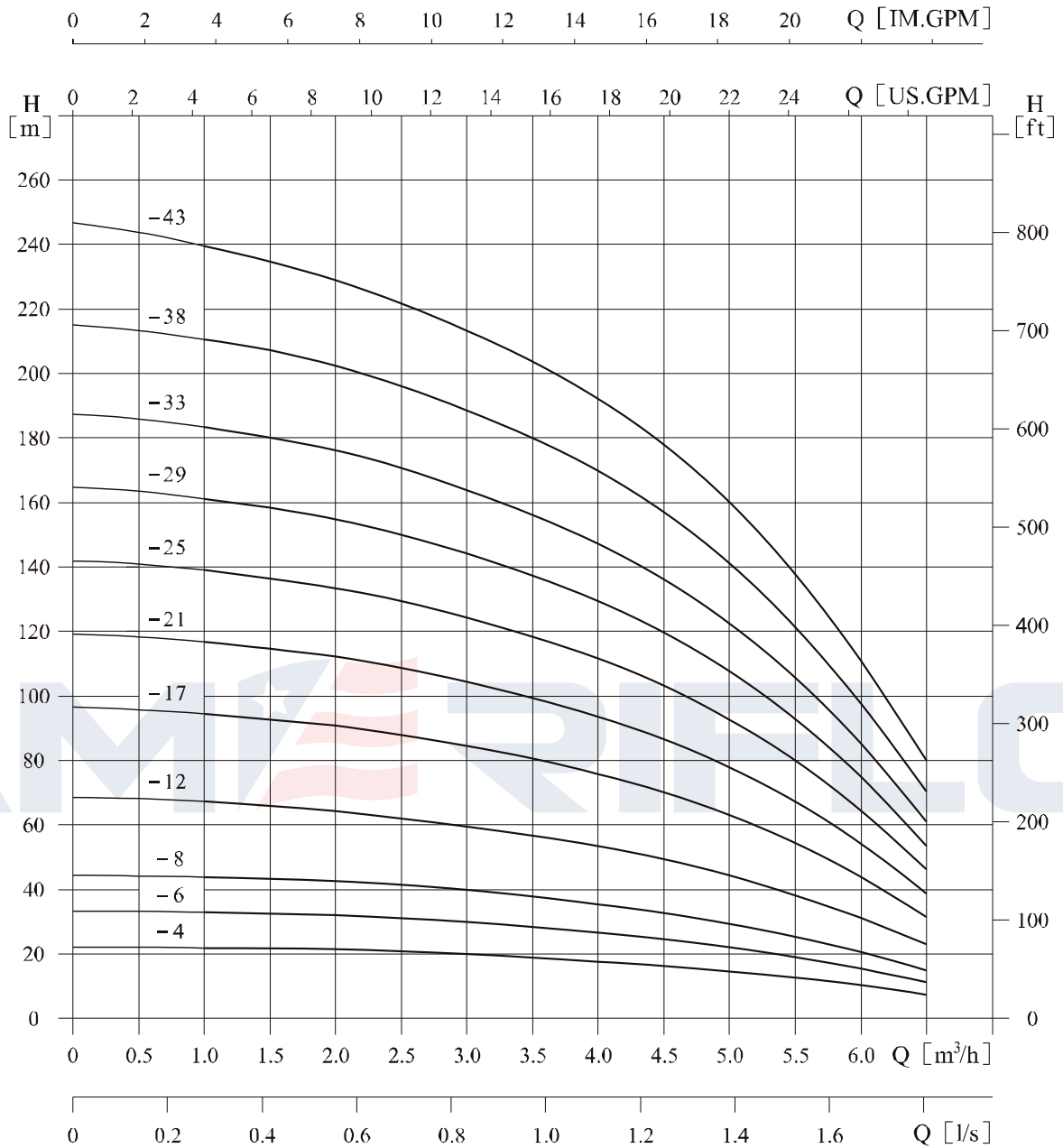
SUBMERSIBLE TURBINE PUMPS

ST5

ENGINEERING INFORMATION



ST5 (1.5" NPT) 2900 RPM

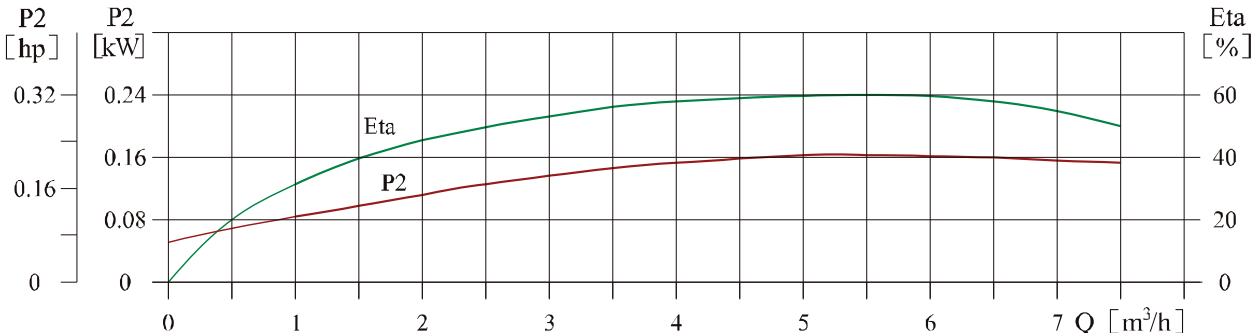
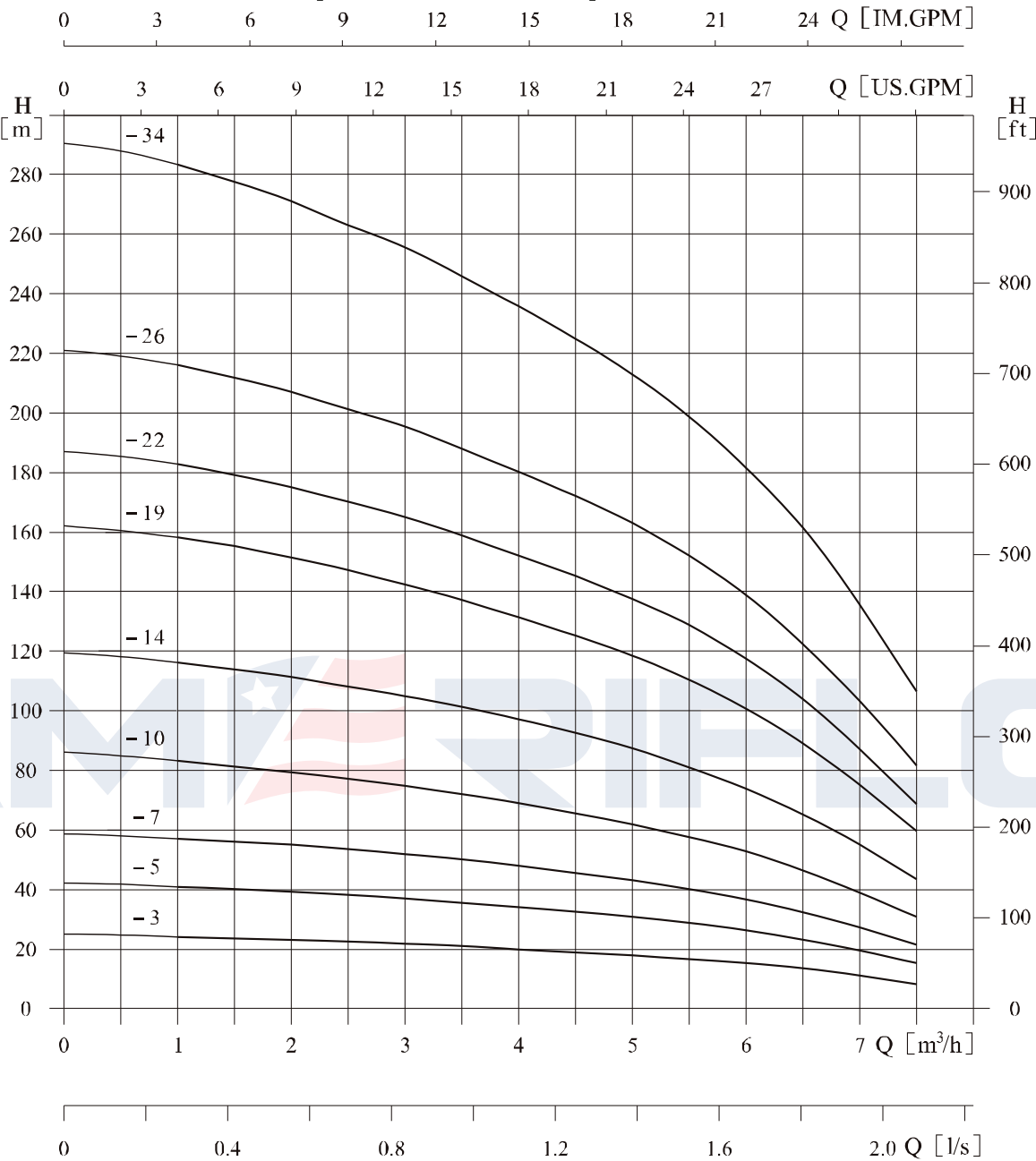


MODEL ST5 - PERFORMANCE TABLE (2900 RPM)

MODEL	SPEED	MOTOR HP	FLOW GPM	5	7.5	10	12.5	15	20	25			
ST5-4	2900	0.5	HEAD (PSI)	32	30	30	30	29	26	15			
ST5-6		0.75		48	47	45	45	42	38	23			
ST5-8		1		65	64	61	61	58	50	30			
ST5-12		1.5		100	92	91	89	86	76	45			
ST5-17		2		144	136	130	123	121	108	65			
ST5-21		3		177	170	162	158	150	132	80			
ST5-25		3		211	203	208	188	179	158	97			
ST5-29		5		244	235	224	218	208	182	112			
ST5-33		5		277	268	255	247	236	208	123			
ST5-38		7.5		320	308	291	285	270	239	148			
ST5-43		7.5		362	348	336	323	308	271	165			



ST5 (1.25" NPT) 3500 RPM



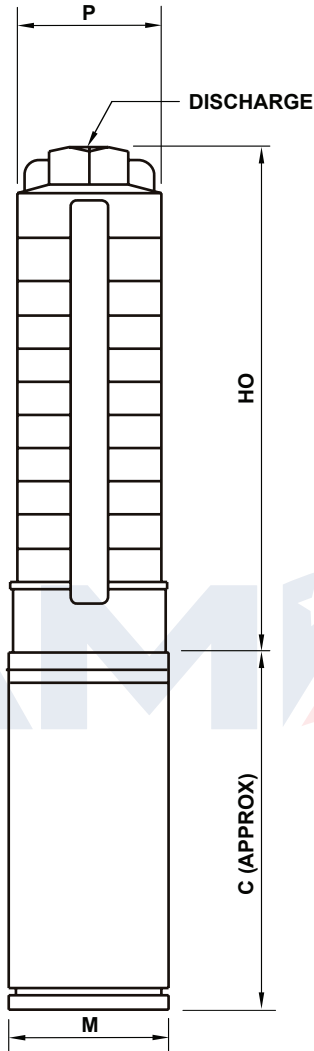
MODEL ST5 - PERFORMANCE TABLE (3500 RPM)

MODEL	SPEED	MOTOR HP	FLOW GPM	5	7.5	10	12.5	15	20	25			
ST5-3	3500	0.75	HEAD (PSI)	36	35	35	33	32	29	23			
ST5-5		1		62	61	59	56	55	48	40			
ST5-7		1.5		86	85	83	77	76	70	56			
ST5-10		2		126	121	120	114	109	100	80			
ST5-14		3		176	171	168	159	153	141	112			
ST5-19		5		239	235	229	217	208	189	153			
ST5-22		7.5		277	268	265	250	241	220	177			
ST5-26		7.5		327	321	314	297	285	261	211			
ST5-34		7.5		427	421	411	388	373	341	276			



MODEL ST5 - SUBMERSIBLE TURBINE, NEMA MOTOR

GENERAL ARRANGEMENT DRAWING



ST5

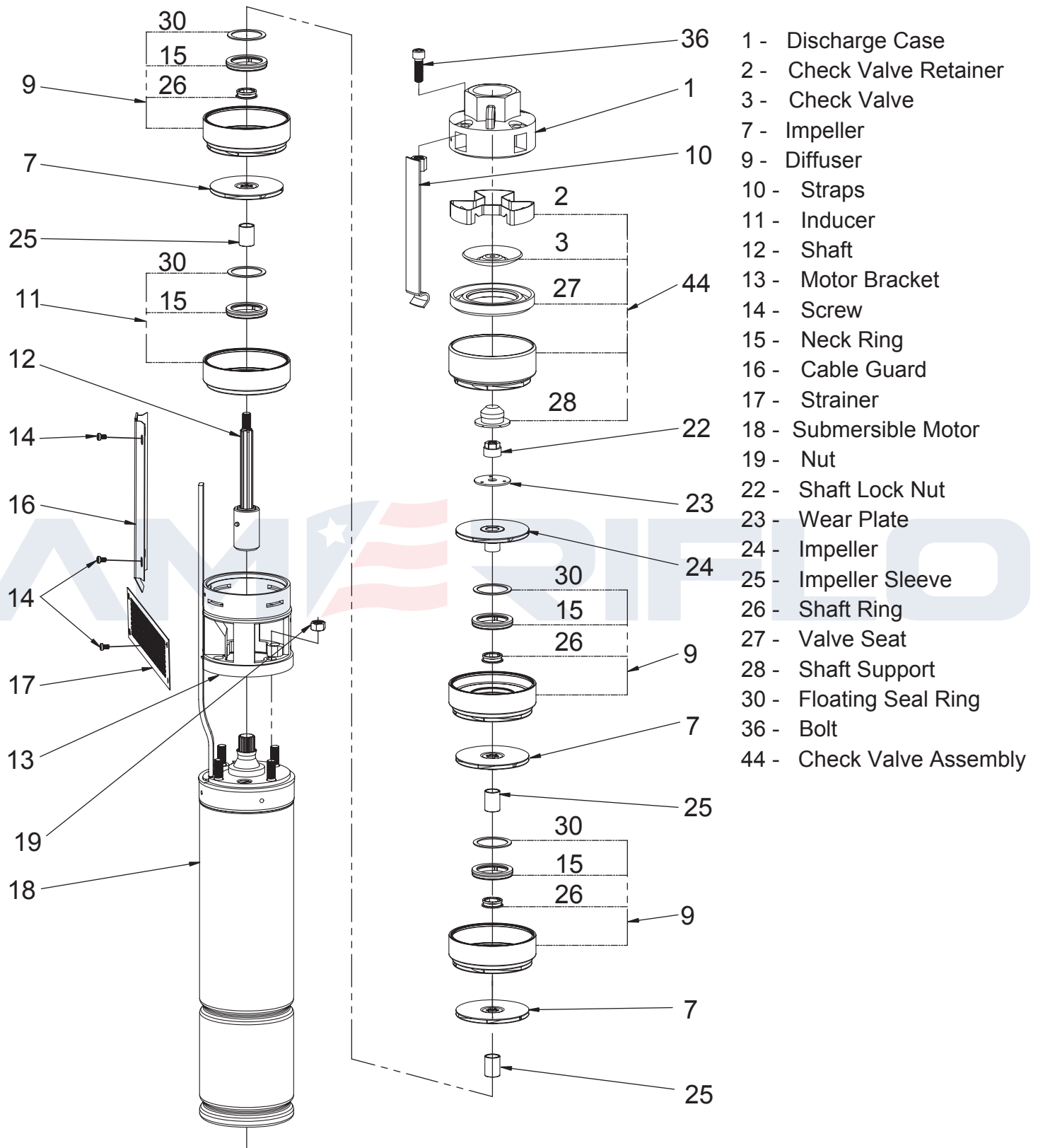
MODEL	DISCHARGE	C	HO	M	P	WEIGHT
						LBS
ST5-3	1.5 NPT	15.000	9.250	4	3.938	26
ST5-4	1.5 NPT	14.625	10.000	4	3.938	26
ST5-5	1.5 NPT	15.750	10.875	4	3.938	31
ST5-6	1.5 NPT	15.000	11.625	4	3.938	29
ST5-7	1.5 NPT	17.375	12.500	4	3.938	35
ST5-8	1.5 NPT	15.750	13.375	4	3.938	33
ST5-10	1.5 NPT	18.500	15.000	4	3.938	42
ST5-12	1.5 NPT	17.375	16.625	4	3.938	37
ST5-14	1.5 NPT	20.000	18.313	4	3.938	53
ST5-17	1.5 NPT	18.500	20.875	4	3.938	46
ST5-19	1.5 NPT	24.413	22.413	4	3.938	59
ST5-21	1.5 NPT	20.000	24.000	4	3.938	57
ST5-22	1.5 NPT	29.500	24.938	4	3.938	64
ST5-25	1.5 NPT	20.000	27.413	4	3.938	59
ST5-26	1.5 NPT	29.500	28.250	4	3.938	66
ST5-29	1.5 NPT	24.413	30.750	4	3.938	64
ST5-33	1.5 NPT	24.413	34.000	4	3.938	66
ST5-34	1.5 NPT	33.000	34.875	4	3.938	77
ST5-38	1.5 NPT	29.500	38.188	4	3.938	73
ST5-43	1.5 NPT	29.500	42.250	4	3.938	77

NOTES:

ALL DIMENSIONS ARE IN INCHES [MM] AND MAY VARY ± 0.375 INCHES.

DIMENSION "C" CAN VARY DEPENDING ON MOTOR MANUFACTURER.

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED BY AMERIFLO.

MODEL ST5 - SECTIONAL VIEW

MODEL ST5 - SECTIONAL VIEW PART REFERENCE

ITEM NUMBER	PART NAME	MATERIAL	
		ST (304 SS)	ST (316 SS)
1	Discharge Case	304 SS (EN 1.4301)	316 SS (EN 1.4401)
2	Check Valve Retainer	304 SS (EN 1.4301)	316 SS (EN 1.4401)
3	Check Valve	304 SS (EN 1.4301)	316 SS (EN 1.4401)
7	Impeller	304 SS (EN 1.4301)	316 SS (EN 1.4401)
9	Diffuser	304 SS (EN 1.4301)	316 SS (EN 1.4401)
10	Straps	304 SS (EN 1.4301)	316 SS (EN 1.4401)
11	Inducer	304 SS (EN 1.4301)	316 SS (EN 1.4401)
12	Shaft	304 SS (EN 1.4301)	316 SS (EN 1.4401)
13	Motor Bracket	304 SS (EN 1.4301)	316 SS (EN 1.4401)
14	Screw	A2-70 UNI 7323	
15	Neck Ring	304 SS (EN 1.4301)	316 SS (EN 1.4401)
16	Cable Guard	304 SS (EN 1.4301)	316 SS (EN 1.4401)
17	Strainer	304 SS (EN 1.4301)	316 SS (EN 1.4401)
18	Submersible Motor	304 SS (EN 1.4301)	316 SS (EN 1.4401)
19	Nut	A2-70 UNI 7323	
22	Shaft Lock Nut	A2-70 UNI 7323	
23	Wear Plate	304 SS (EN 1.4301)	316 SS (EN 1.4401)
24	Impeller	304 SS (EN 1.4301)	316 SS (EN 1.4401)
25	Impeller Sleeve	304 SS (EN 1.4301)	316 SS (EN 1.4401)
26	Shaft Ring	FPM	
27	Valve Seat	304 SS (EN 1.4301)	316 SS (EN 1.4401)
28	Shaft Support	FPM	
30	Floating Shaft Ring	FPM	
36	Bolt	304 SS (EN 1.4301)	316 SS (EN 1.4401)
44	Check Valve Assembly	304 SS (EN 1.4301)	316 SS (EN 1.4401)

RATED FLOW:	22.0 GPM [5 M³/HR]
FLOW RANGE:	4.4 - 33.0 GPM [1.0 - 7.5 M³/HR]
MAXIMUM PRESSURE:	406 PSI [28 BAR]
MAXIMUM POWER:	0.50 - 7.38 HP [0.37 - 5.5 KW]
MAXIMUM EFFICIENCY:	59%

