

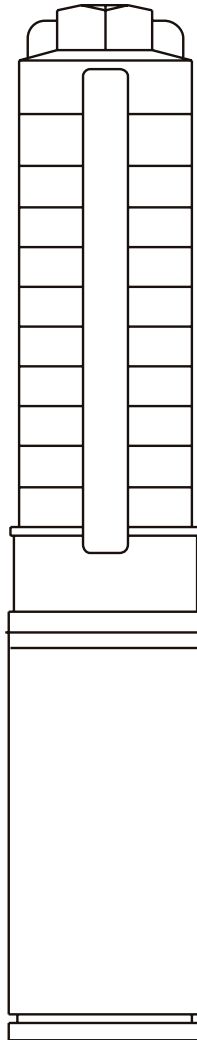


4770 SERIES

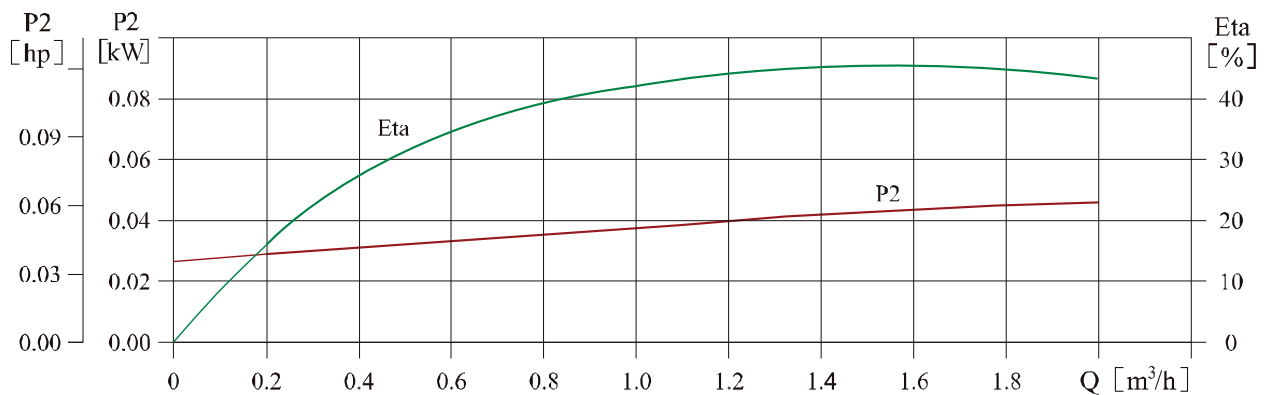
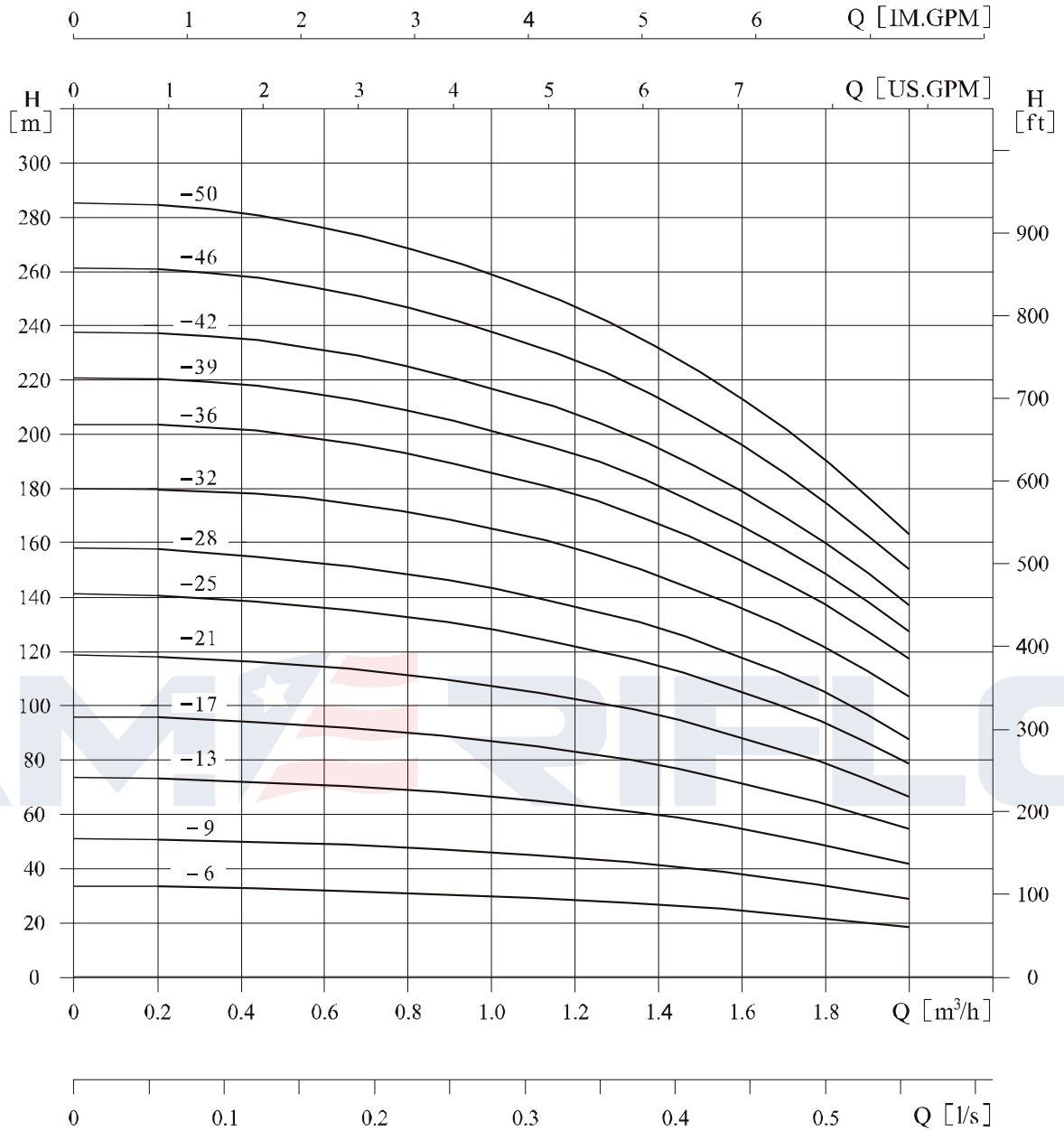
SUBMERSIBLE TURBINE PUMPS

ST1

ENGINEERING INFORMATION



ST1 (1.25" NPT) 2900 RPM

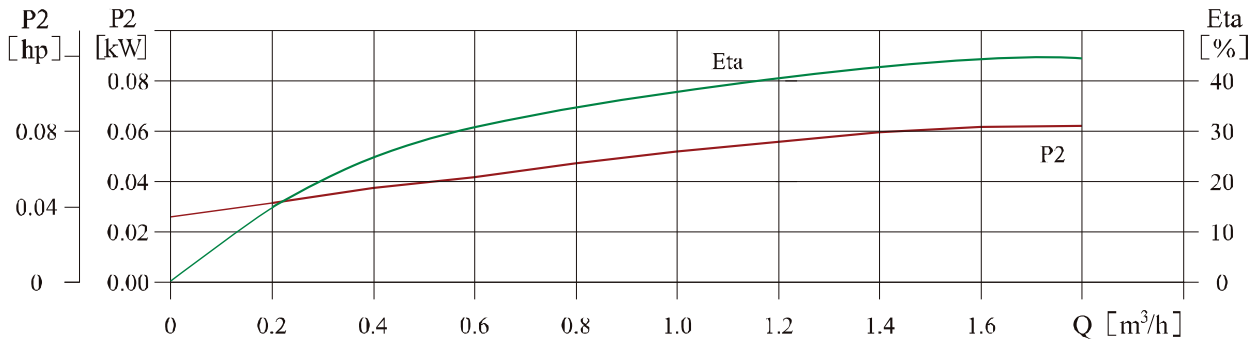
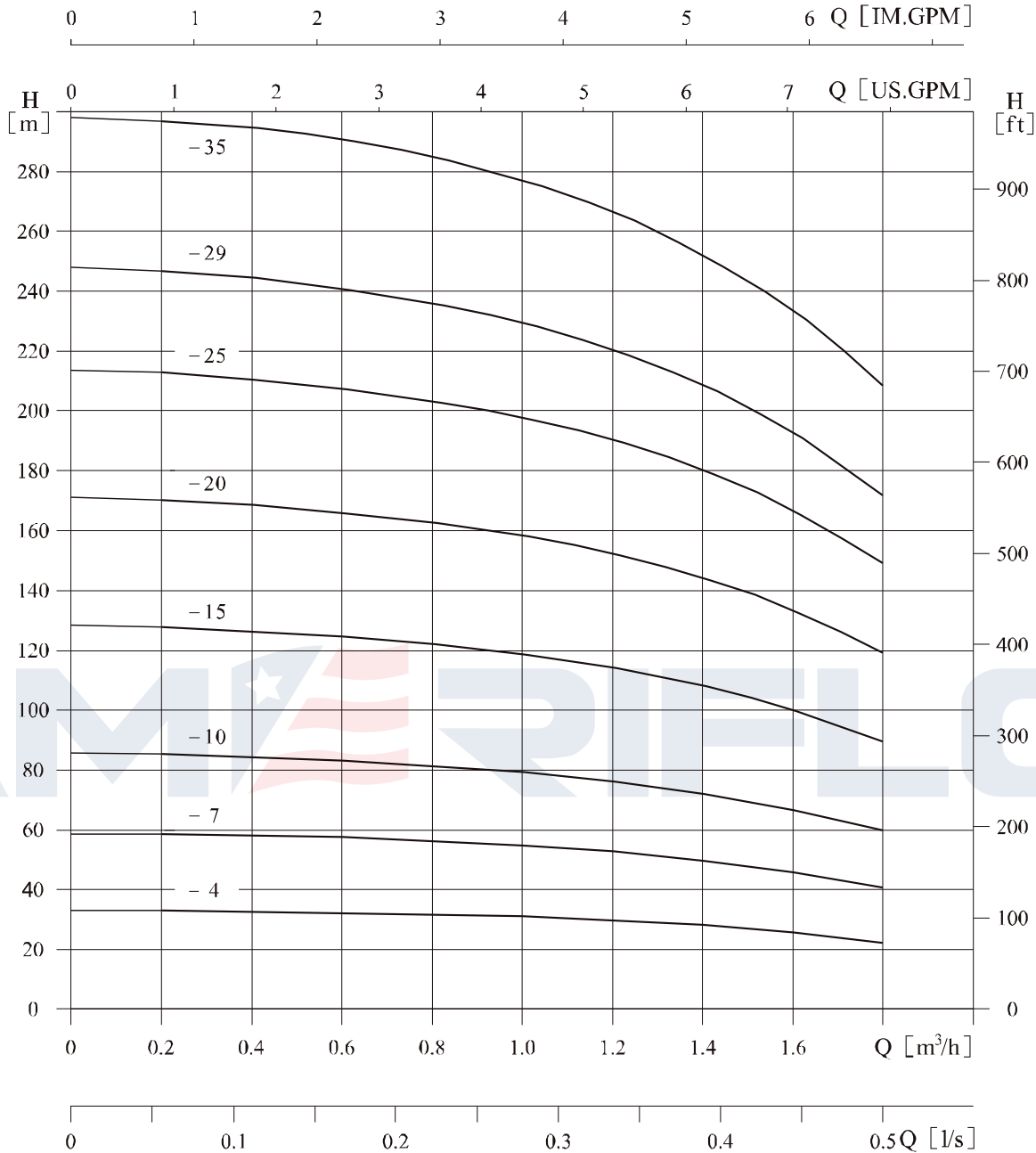


MODEL ST1 - PERFORMANCE TABLE (2900 RPM)

MODEL	SPEED	MOTOR HP	FLOW GPM	2.5	5	7.5							
ST1-6	2900	0.5	HEAD (PSI)	48	45	33							
ST1-9		0.5		74	70	52							
ST1-13		0.75		108	102	74							
ST1-17		1		139	132	97							
ST1-21		1.5		174	164	121							
ST1-25		1.5		208	195	144							
ST1-28		2		232	220	162							
ST1-32		2		265	250	185							
ST1-36		2		300	282	208							
ST1-39		3		324	306	226							
ST1-42		3		348	329	242							
ST1-46		3		382	361	267							
ST1-50		3		418	394	291							



ST1 (1.25" NPT) 3500 RPM



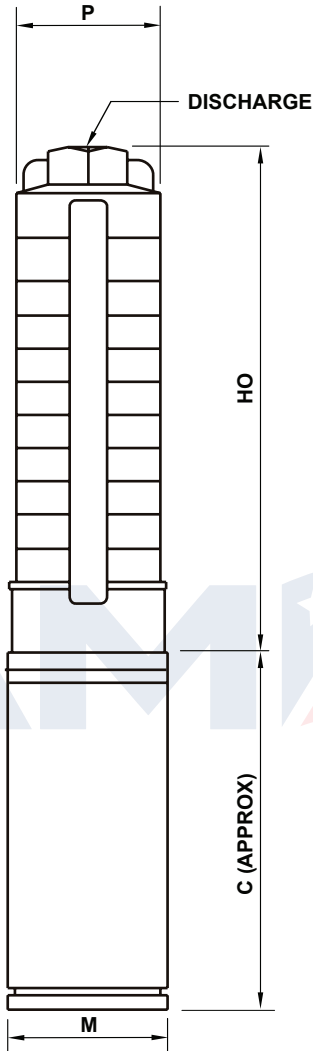
MODEL ST1 - PERFORMANCE TABLE (3500 RPM)

MODEL	SPEED	MOTOR	FLOW	2.5	5	7.5							
		HP	GPM										
ST1-4	3500	0.5	HEAD (PSI)	48	47	35							
ST1-7		0.75		73	83	62							
ST1-10		1		126	120	89							
ST1-15		1.5		189	179	135							
ST1-20		2		251	239	180							
ST1-25		3		314	300	226							
ST1-29		3		365	348	261							
ST1-35		5		441	420	317							



MODEL ST1 - SUBMERSIBLE TURBINE, NEMA MOTOR

GENERAL ARRANGEMENT DRAWING



ST1

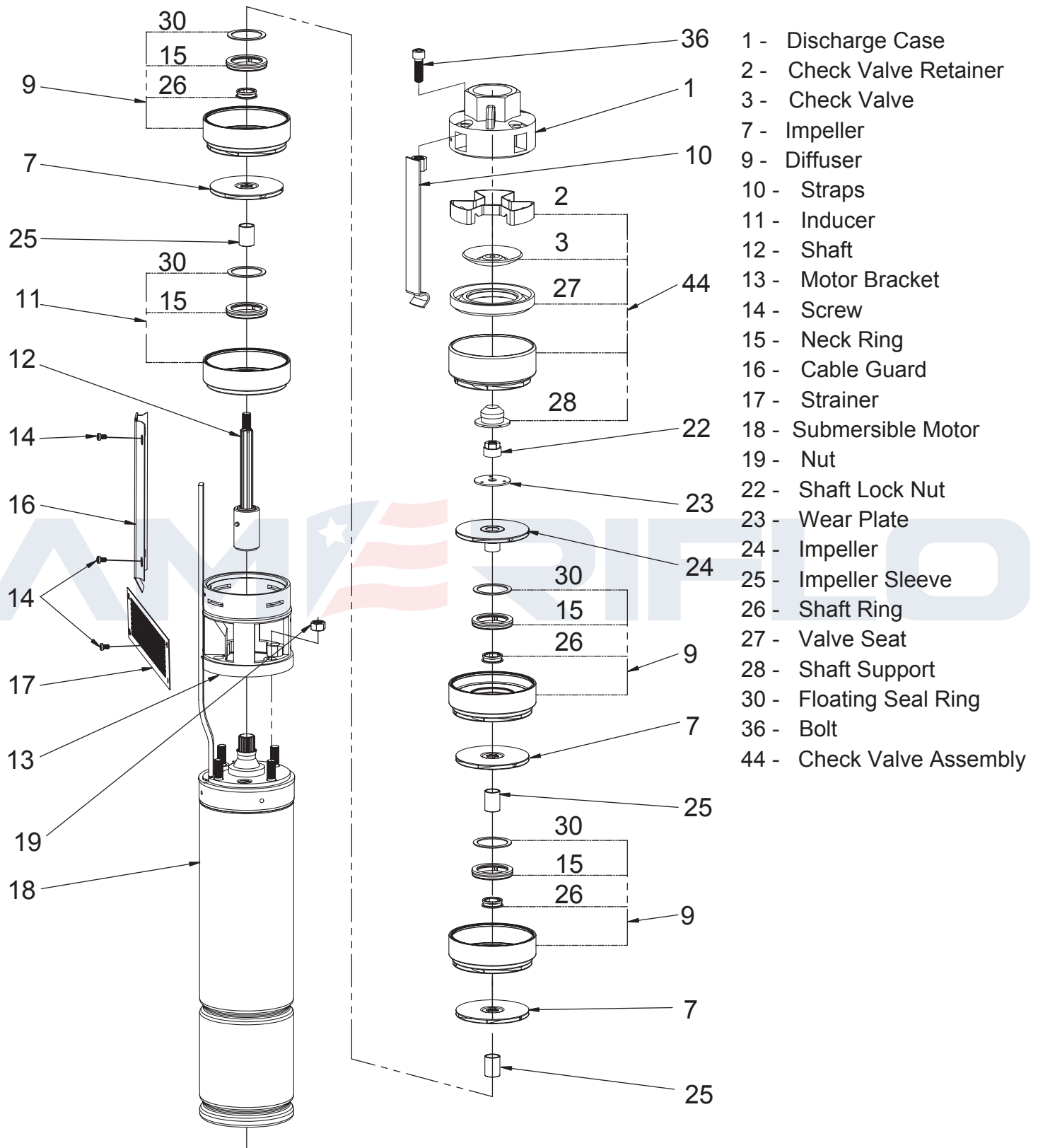
MODEL	DISCHARGE	C	HO	M	P	WEIGHT
						LBS
ST1- 4	1.25 NPT	14.500	14.500	4	3.938	26
ST1- 6	1.25 NPT	14.625	14.625	4	3.938	26
ST1- 7	1.25 NPT	15.000	15.000	4	3.938	31
ST1- 9	1.25 NPT	14.625	14.625	4	3.938	29
ST1-10	1.25 NPT	15.750	15.750	4	3.938	35
ST1-13	1.25 NPT	15.000	15.000	4	3.938	33
ST1-15	1.25 NPT	17.313	17.313	4	3.938	40
ST1-17	1.25 NPT	15.750	15.750	4	3.938	37
ST1-20	1.25 NPT	18.875	18.875	4	3.938	48
ST1-21	1.25 NPT	17.375	17.375	4	3.938	42
ST1-24	1.25 NPT	20.000	20.000	4	3.938	59
ST1-25	1.25 NPT	17.375	17.375	4	3.938	44
ST1-28	1.25 NPT	18.875	18.875	4	3.938	51
ST1-29	1.25 NPT	20.000	20.000	4	3.938	62
ST1-32	1.25 NPT	18.875	18.875	4	3.938	53
ST1-35	1.25 NPT	24.413	24.413	4	3.938	66
ST1-36	1.25 NPT	18.875	18.875	4	3.938	55
ST1-39	1.25 NPT	20.000	20.000	4	3.938	64
ST1-42	1.25 NPT	20.000	20.000	4	3.938	66
ST1-46	1.25 NPT	20.000	20.000	4	3.938	68
ST1-50	1.25 NPT	20.000	20.000	4	3.938	70

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 ST1 - SECTIONAL VIEW

MODEL ST1 - 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)

MODEL ST1 - ENGINEERING INFORMATION

RATED FLOW:	4.4 GPM [1 M³/HR]
FLOW RANGE:	0.88 - 8.8 GPM [0.2 - 2 M³/HR]
MAXIMUM PRESSURE:	435 PSI [30 BAR]
MAXIMUM POWER:	0.50 - 4 HP [0.37 - 3.0 KW]
MAXIMUM EFFICIENCY:	45%

