Solartive®

PRODUCT CATALOGUE

STAINLESS STEEL SUBMERSIBLE PUMPS

ST Series - 60Hz

ABOUT US

Solartive Techno Industries Pvt. Ltd. is a leading manufacturer and solutions provider in the field of water pumping solutions. With a strong focus on submersible pumps, we combine advanced technology, reliable engineering, and sustainable innovation to provide all types of stainless steel fabricated submersible pumps to export market as well as empower farmers, rural communities, and water supply projects across globe.

Established with a mission to provide clean, affordable, and energy-efficient water pumping solutions, Solartive has grown into one of India's most trusted names in the pump industry.

OUR EXPERTISE

Our submersible pumps are designed to operate in deep water levels, making them ideal for:

Agriculture & Irrigation

Drinking Water Supply

Rural Water Projects

Borewell-based Groundwater Extraction

Industrial Applications

We manufacture pumps in a range of capacities from 1 HP to 50 HP, designed to operate efficiently even in low/high voltage conditions.

Highly Efficient Motors (AC): Built for maximum power output and lower energy loss

Corrosion-Resistant Stainless Steel Body

Optimal power usage

Minimum Operational Cost due to energy efficient pumps

ISI & BIS Approved products

OUR STRENGTH

Highly Skilled R&D staff along with R&D Lab.

Backed by experienced engineers and 25+ years of combined domain expertise.

Experienced Staff and Operators.

Fully Automated testing set up.

Separate Quality Lab for material inspection and testing.

Turnkey EPC capabilities: from survey to installation & after-sales support.

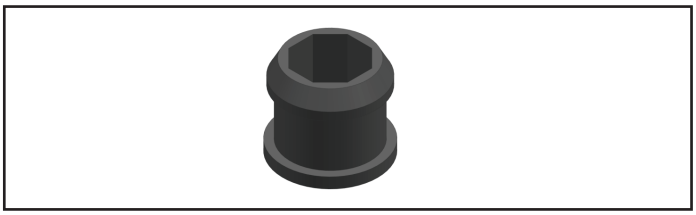
Solartive®

INDEX

S.No.	CONTENT	PAGE No.
1	Introduction	1
2	Features and Benefits	2
3	Submersible Pumps	3
4	Submersible Motors	4
5	Submersible Motors	5
6	4" Submersible Pump	6
7	ST-2 Model	7 - 8
8	ST-3 Model	9 - 10
9	ST-5 Model	11- 12
10	ST-9 Model	13 - 14
11	6" Submersible Pump	15
12	ST-17 Model	16 - 18
13	ST-30 Model	19 - 21
14	ST-46 Model	22 - 24
15	ST-60 Model	25 - 27
16	8" Submersible Pump	28
17	ST-77 Model	29 - 31
18	ST-95 Model	32 - 34
19	Application	35
20	Notes	36

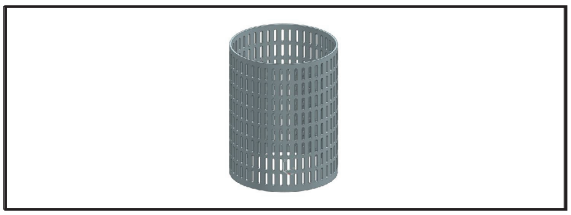
BEARINGS WITH SAND CHANNELS

All bearings are water-lubricated and have a square shape, enabling sand particles, if any, to leave the pump together with the pumped liquid.



INLET STRAINER

The intel strainer prevents particales over a certain size from entering the pump.

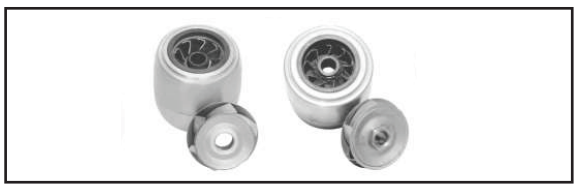


STOP RING

The stop ring prevents damage to the pump during transport and in case of up-thrust in connection with start-up. The stop ring, which is designed as a thrust bearing limits axial movements of the pump shaft.

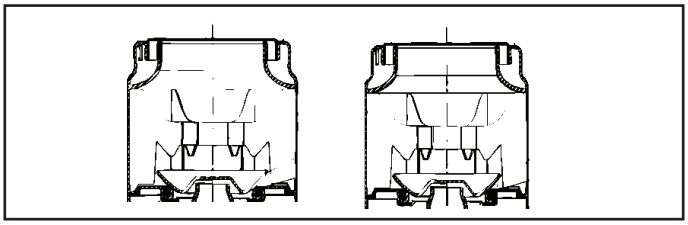
BOWL & IMPELLER

Stainless steel fabcricated bowl & impeller with High Performance. hydroulic design with high efficiency of pump set.
Suitable for all site conditions.



NON-RETURN VALVE

Solartive pumps are equipped with a non-return valve in the valve casing preventing back flow in connection with pump stoppage.Furthermore, the short closing time of the non-return valve means that the risk of destructive water hammer is reduced to the minimum.
The valve casing is designed for optimum hydraulic properties, to minimize the pressure loss across the valve and thus contributes to the high efficiency of the pump.



SUCTION HOUSING

Investment casting of suction housing gives extreamly higher strength to get fix with any submersible motor to delever maximum output at any site condition as well as design of suction housing is made in such a manner it become easy to install.

FEATURES AND BENEFITS

A WIDE PUMP RANGE
We offers submersible pumps with energy efficient duty points ranging from 0.1 to 335 m^3/h. The pump range consists of many pump sizes and each pump size is available with an optional number of stages to match any duty point.

HIGH PUMPS EFFICIENCY
Often pump efficiency is a neglected factor compared to the price however, the observant user will notice that price variations are without importance to water supply economics compared to the importance of pump and motor efficiencies.

APPLICATIONS
We offers a complete range of pumps and motors which as a standard are made completely of stainless steel AISI - 304. This provides for good wear resistance and a reduced risk of corrosion when pumping ordinary cold water with a minor content of chloride.

LOW INSTALLATION COSTS
Stainless steel means low weight facilitating the handling of pumps and resulting in low equipment costs and reduced installation and service time. In addition pumps will be as new after service due to the high wear resistance of stainless steel.

PUMPED LIQUIDS
Clean, thin, non-aggressive liquids without solid particles or fibres.

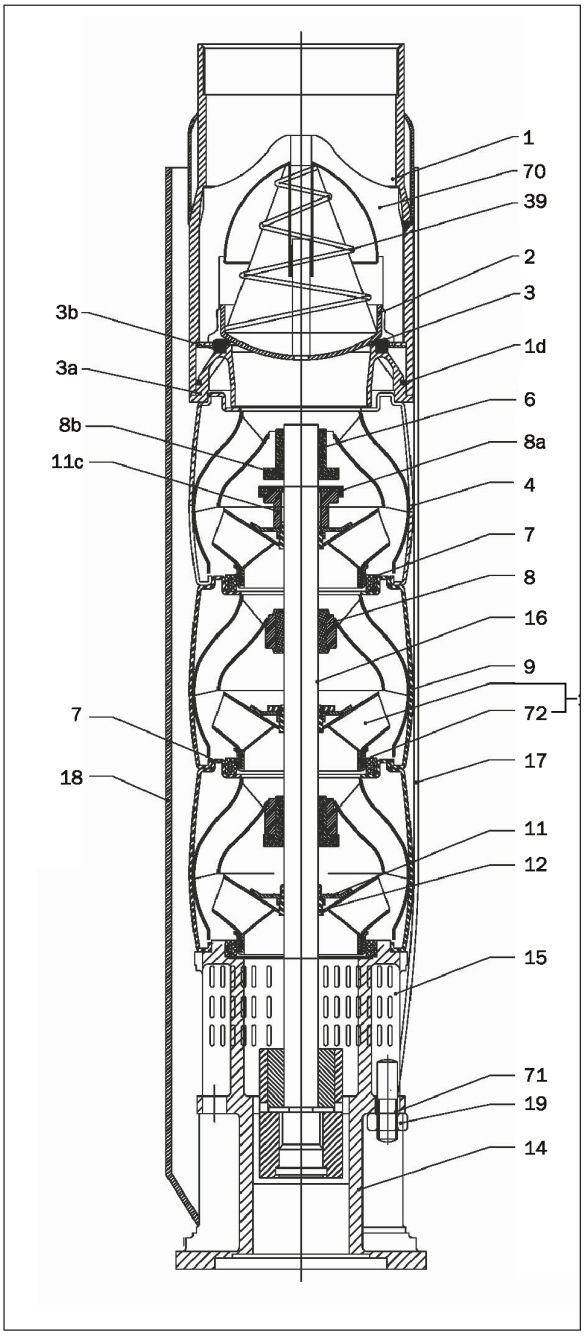
OPERATING CONDITIONS
Flow rate, Q : 0.1 - 280 m^3/h.
Head, H: Maximum 670m.

Maximum Liquid Temperature:

Motor	Installation		
	Flow velocity-past motor	Vertical	Horizontal
Solartive 4", 6", 8" & 10"	0.15 m/s	40°C	40°C

Operating pressure: Maximum 0.67m (67 bar)

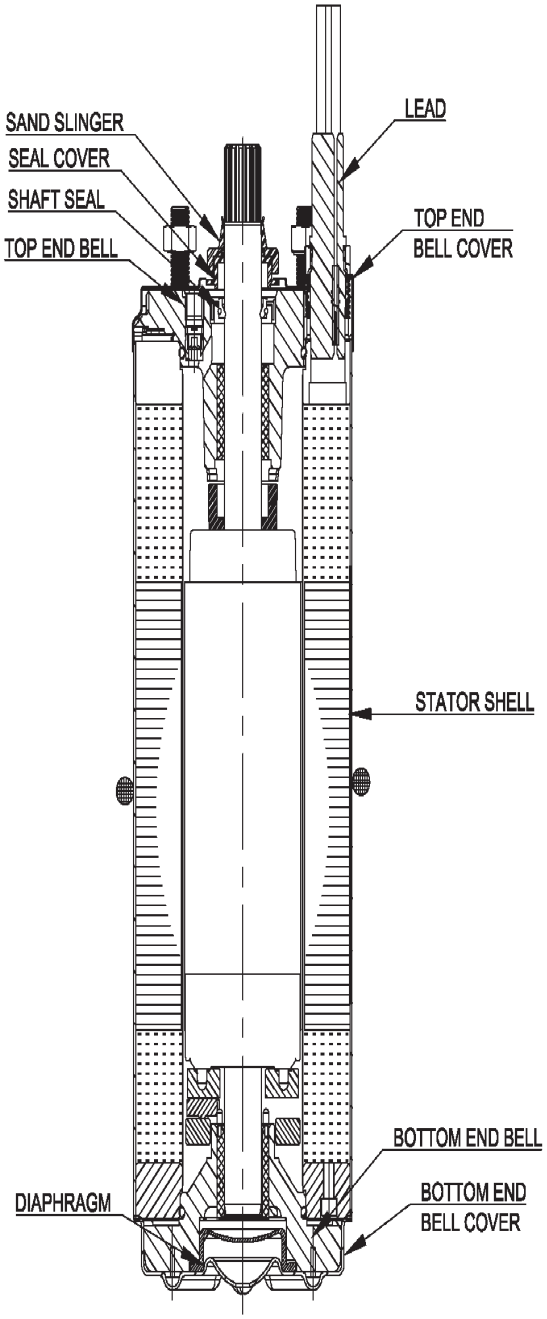
EXAMPLE : ST - 77



MATERIAL SPECIFICATION

POS.	DESCRIPTION	MATERIAL	STANDARD
1	VALVE CASING	STAINLESS STEEL	304
1d	O-RING	NBR	
2	VALVE CAP	STAINLESS STEEL	304
3	VALVE SEAT	STAINLESS STEEL	304
3a	LOWER VALVE SEAT RETAINER	STAINLESS STEEL	304
3b	UPPER VALVE SEAT RETAINER	STAINLESS STEEL	304
4	TOP CHAMBER CUP	STAINLESS STEEL	304
6	UPPER BEARING	STAINLESS STEEL	304
7	NECKRING	NBR/PPS	NBR + SS-304
8	BEARING	NBR	NBR
8a	WASHER FOR STOP RING	CARBON/GRAPHITE HY22 IN PTFE MASS	CFT - CARBON
8b	STOP RING	STAINLESS STEEL	304
9	CHAMBER	STAINLESS STEEL	304
11	SPLIT CONE NUT	STAINLESS STEEL	304
11c	NUT FOR STOP RING	STAINLESS STEEL	304
12	SPLIT CONE	STAINLESS STEEL	304
13	IMPELLER	STAINLESS STEEL	304
14	SUCTION INTERCONNECTOR	STAINLESS STEEL	304
15	STRAINER	STAINLESS STEEL	304
16	SHAFT COMPLETE	STAINLESS STEEL	304
17	STRAP	STAINLESS STEEL	431
18	CABLE GAURD	STAINLESS STEEL	304
19	NUT FOR STRAP	STAINLESS STEEL	304
39	SPRING FOR VALVE CUP	STAINLESS STEEL	304
70	VALVE GUIDE	STAINLESS STEEL	304
71	WASHER	STAINLESS STEEL	304
72	WEAR RING	STAINLESS STEEL	304

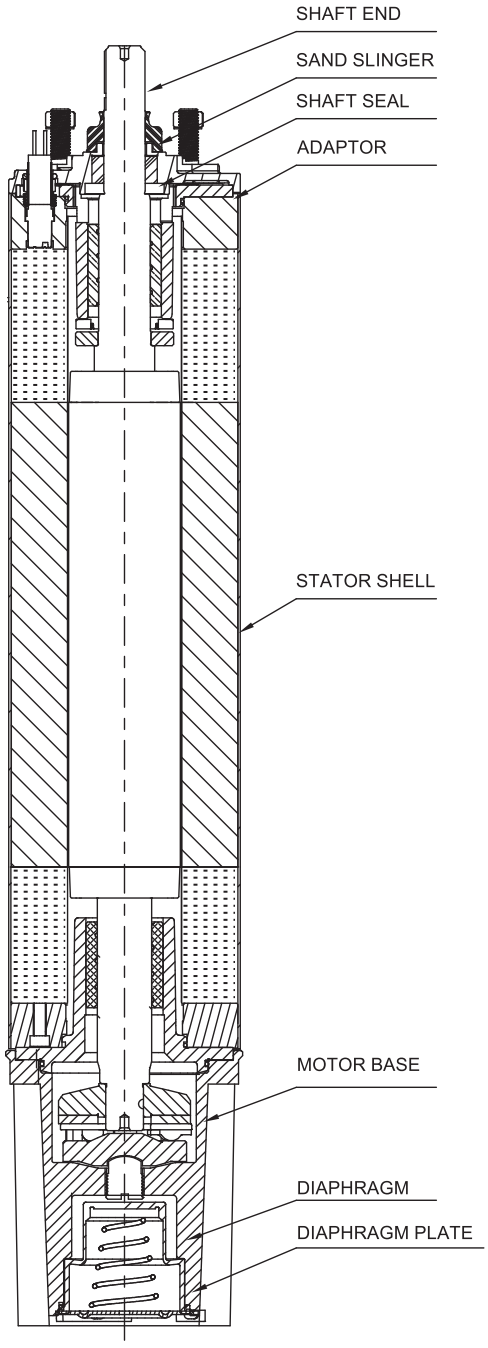
SECTIONAL VIEW OF 4” PREMIUM



MATERIAL SPECIFICATION 4” PREMIUM

PART	MATERIAL	
	AISI SS 304	**AISI SS 316**
SHAFT END	DUPLEX	DUPLEX
SAND SLINGER	NBR	NBR
SEAL COVER	AISI SS 304	AISI SS 316
TOP END BELL COVER	AISI SS 304	AISI SS 316
TOP END BELL	CAST IRON POWDER COATED	CAST IRON POWDER COATED
SEALS	NBR	NBR
STATOR SHELL	AISI SS 304	AISI SS 316
SHAFT SEAL	EPDM + AISI SS 304	EPDM + AISI SS 304
BOTTOM END BELL	CAST IRON POWDER COATED	CAST IRON POWDER COATED
BOTTOM END BELL COVER	AISI SS 304	AISI SS 316
DIAPHRAGM	EPDM	EPDM
LEAD	XLPE	XLPE

SECTIONAL VIEW OF 6” PREMIUM



MATERIAL SPECIFICATION 6” PREMIUM

LIST OF MATERIAL

PART	MATERIAL
ADAPTOR	AISI SS 304
STATOR SHELL	AISI SS 304
SEALS	NBR
SAND SLINGER	NBR
SHAFT END	DUPLEX
SHAFT SEAL	EPDM + AISI SS 304
MOTOR BASE	AISI SS 304
DIAPHRAGM	EPDM
DIAPHRAGM PLATE	AISI SS 304
LEAD	EPR

Solartive®

ST-2, ST-3, ST-5, ST-9

4” Submersible Pump

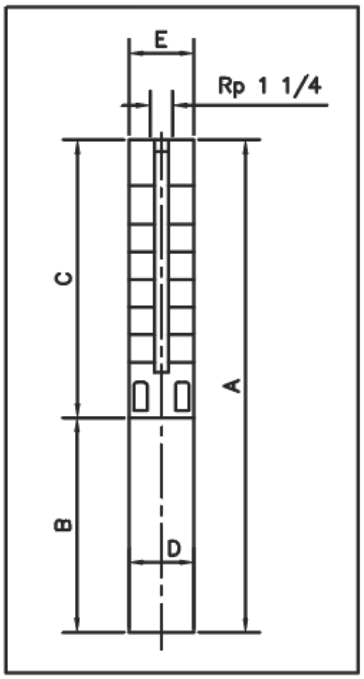
Solartive®

PERFORMANCE CHART ST-2

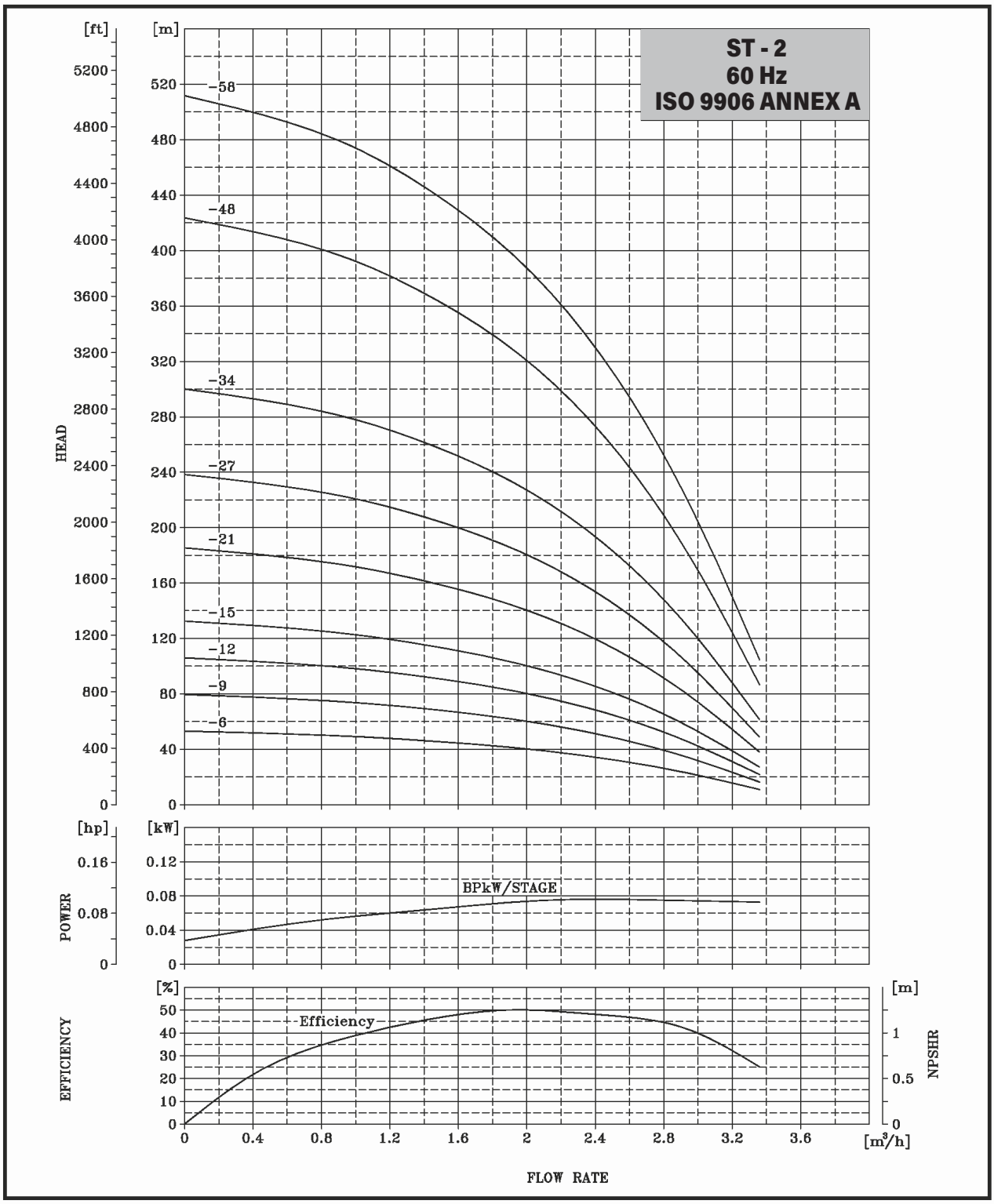
RADIAL FLOW PUMP

MODEL	MOTOR RATING		Flow Q							
	kW	HP	0	0.8	1.5	2.1	2.5	3.1	3.5	3.8
			0	13	25	35	42	51	59	64
ST2 - 0508	0.37	0.50	48	44	40	36	**32**	24	16	8
ST2 - 7512	0.55	0.75	72	66	60	54	**48**	36	24	12
ST2 - 1016	0.75	1.00	96	88	80	72	**64**	48	32	16
ST2 - 1520	1.10	1.50	120	110	100	90	**80**	60	40	20
ST2 - 1525	1.10	1.50	150	138	125	113	**100**	75	50	25
ST2 - 2028	1.50	2.00	168	154	140	126	**112**	84	56	28
ST2 - 2032	1.50	2.00	192	176	160	144	**128**	96	64	32
ST2 - 3045	2.20	3.00	261	243	225	203	**180**	135	90	45
ST2 - 3050	2.20	3.00	290	270	250	225	**200**	150	100	50
ST2 - 4060	3.00	4.00	348	324	300	270	**240**	180	120	60
ST2 - 5075	3.70	5.00	435	405	375	338	**300**	225	150	75

DIMENSIONS AND WEIGHTS



PERFORMANCE CURVE



Solartive®

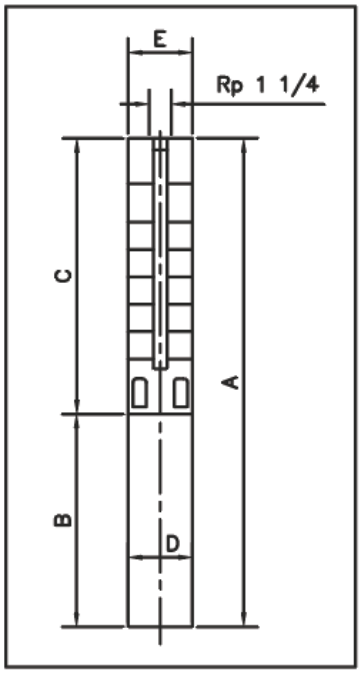
PERFORMANCE CHART

ST-3

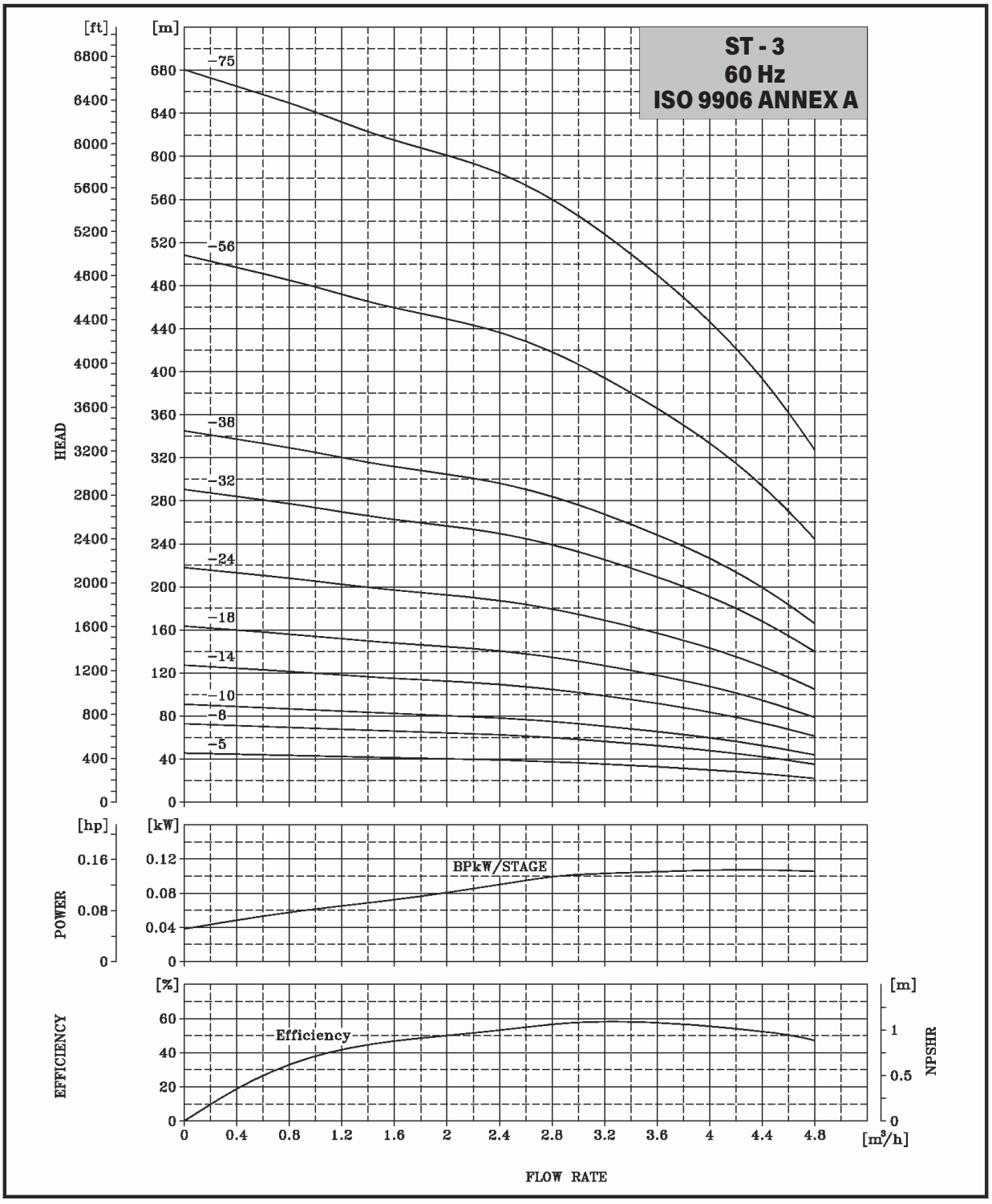
RADIAL FLOW PUMP

MODEL	MOTOR RATING		Flow Q							
	kW	HP	0	0.8	1.5	2.1	2.5	3.1	3.5	3.8
			0	13	25	35	42	51	59	64
ST3 - 0508	0.37	0.50	48	44	40	36	**32**	24	16	8
ST3 - 7512	0.55	0.75	72	66	60	54	**48**	36	24	12
ST3 - 1016	0.75	1.00	96	88	80	72	**64**	48	32	16
ST3 - 1520	1.10	1.50	120	110	100	90	**80**	60	40	20
ST3 - 1525	1.10	1.50	150	138	125	113	**100**	75	50	25
ST3 - 2028	1.50	2.00	168	154	140	126	**112**	84	56	28
ST3 - 2032	1.50	2.00	192	176	160	144	**128**	96	64	32
ST3 - 3045	2.20	3.00	261	243	225	203	**180**	135	90	45
ST3 - 3050	2.20	3.00	290	270	250	225	**200**	150	100	50
ST3 - 4060	3.00	4.00	348	324	300	270	**240**	180	120	60
ST3 - 5075	3.70	5.00	435	405	375	338	**300**	225	150	75

DIMENSIONS AND WEIGHTS



PERFORMANCE CURVE



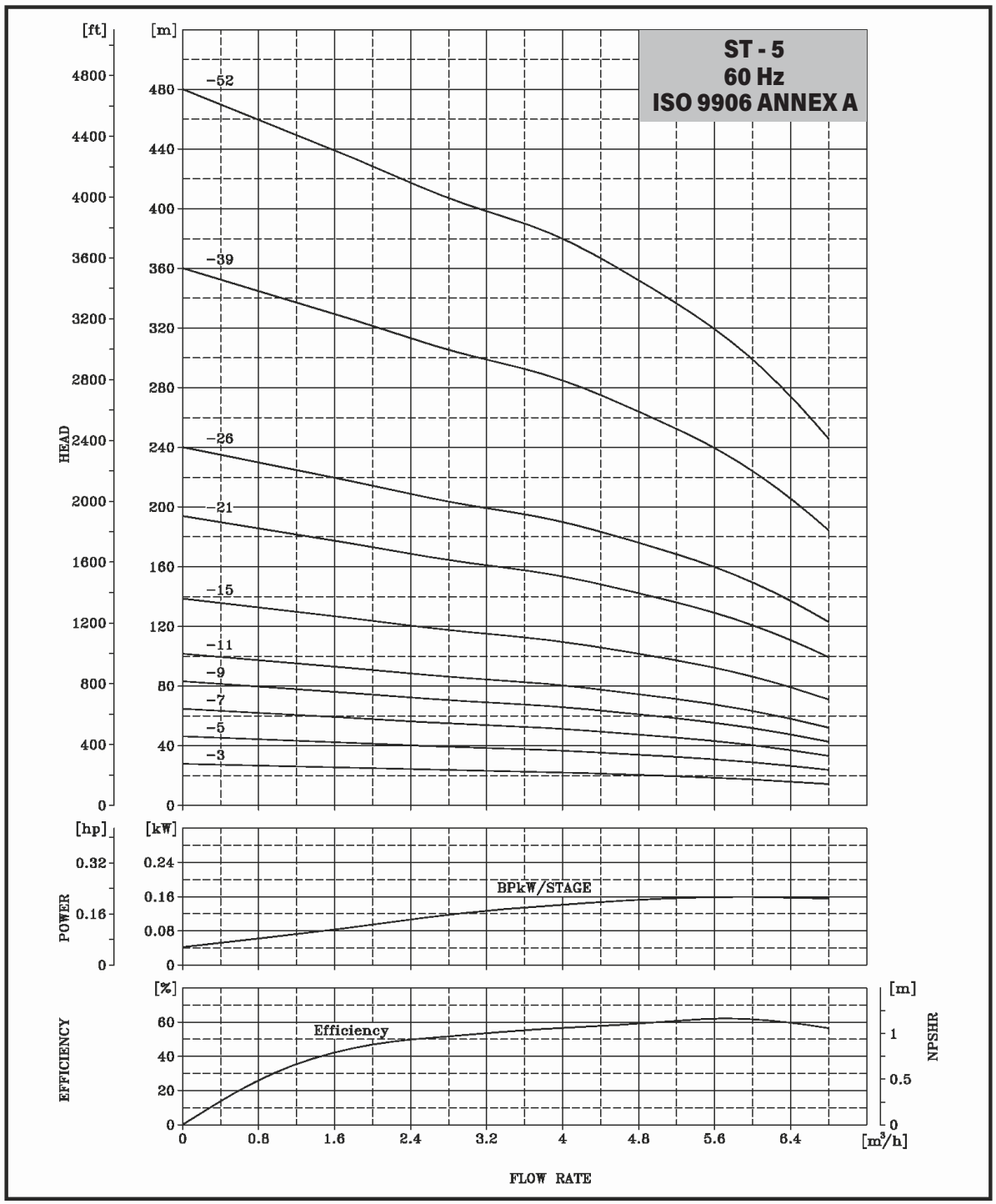
Solartive®

PERFORMANCE CHART ST-5

RADIAL FLOW PUMP

MODEL	MOTOR RATING		Flow Q							
	kW	HP	0	1.3	2.4	3.6	4.2	4.8	5.4	6.0
			0	22	40	60	70	80	90	100
ST5 - 0506	0.37	0.50	36	33	30	27	**24**	18	12	6
ST5 - 7508	0.55	0.75	48	44	40	36	**32**	24	16	8
ST5 - 1010	0.75	1.00	60	55	50	45	**40**	30	20	10
ST5 - 1012	0.75	1.00	72	66	60	54	**48**	36	24	12
ST5 - 1515	1.10	1.50	90	83	75	68	**60**	45	30	15
ST5 - 1518	1.10	1.50	108	99	90	81	**72**	54	36	18
ST5 - 2020	1.50	2.00	120	110	100	90	**80**	60	40	20
ST5 - 2024	1.50	2.00	144	132	120	108	**96**	72	48	24
ST5 - 3030	2.20	3.00	180	165	150	135	**120**	90	60	30
ST5 - 3036	2.20	3.00	216	198	180	162	**144**	108	72	36
ST5 - 4040	3.00	4.00	232	216	200	180	**160**	120	80	40
ST5 - 4046	3.00	4.00	267	248	230	207	**184**	138	92	46
ST5 - 5050	3.70	5.00	290	270	250	225	**200**	150	100	50
ST5 - 6060	4.50	6.00	348	324	300	270	**240**	180	120	60
ST5 - 7575	5.50	7.50	435	405	375	338	**300**	225	150	75

PERFORMANCE CURVE

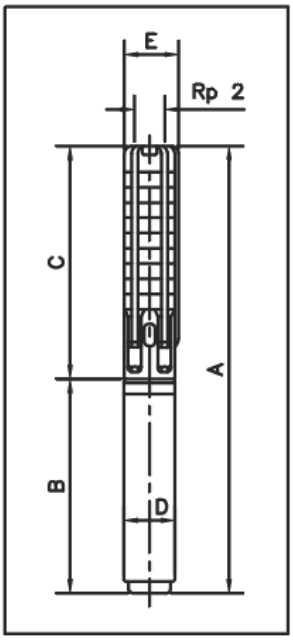


PERFORMANCE CHART ST-9

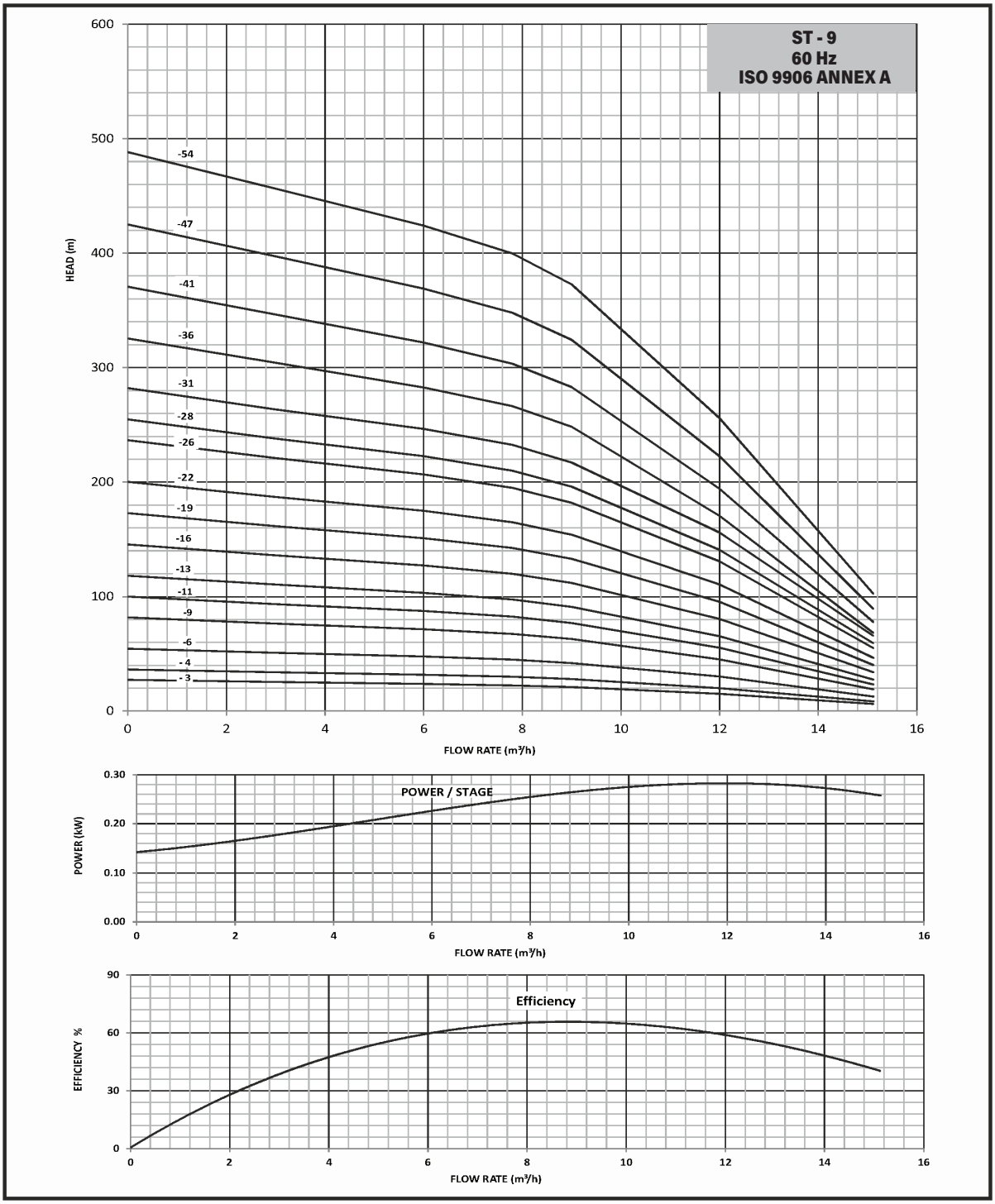
RADIAL FLOW PUMP

MODEL	MOTOR RATING		STAGE	PHASE	DELIVERY SIZE 50 MM (2.0")	Flow Q							
	kW	HP			l/min	0	45	80	115	135	155	170	180
ST9 - 1006	0.75	1.00	6	1 & 3		35	30	27	24	**21**	18	15	12
ST9 - 1510	1.10	1.50	10	1 & 3		59	50	45	40	**35**	30	25	20
ST9 - 2012	1.50	2.00	12	1 & 3		71	60	54	48	**42**	36	30	24
ST9 - 3015	2.20	3.00	15	1 & 3		89	75	68	60	**53**	45	38	30
ST9 - 3018	2.20	3.00	18	1 & 3		106	90	81	72	**63**	54	45	36
ST9 - 4020	3.00	4.00	20	1 & 3		118	100	90	80	**70**	60	50	40
ST9 - 4022	3.00	4.00	22	1 & 3	H(m)	130	110	99	88	**77**	66	55	44
ST9 - 5025	3.70	5.00	25	1 & 3		148	125	113	100	**88**	75	63	50
ST9 - 5028	3.70	5.00	28	1 & 3		165	140	126	112	**98**	84	70	56
ST9 - 5030	3.70	5.00	30	1 & 3		177	150	135	120	**105**	90	75	60
ST9 - 6035	4.50	6.00	35	3		207	175	158	140	**123**	105	88	70
ST9 - 7540	5.50	7.50	40	3		236	200	180	160	**140**	120	100	80
ST9 - 7544	5.50	7.50	44	3		260	220	198	176	**154**	132	110	88

DIMENSIONS AND WEIGHTS



PERFORMANCE CURVE



Solartive®

ST-17, ST-30, ST-46, ST-60

6” *Submersible Pump*

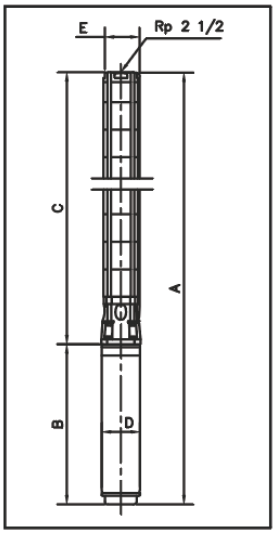
Solartive®

PERFORMANCE CHART ST-17

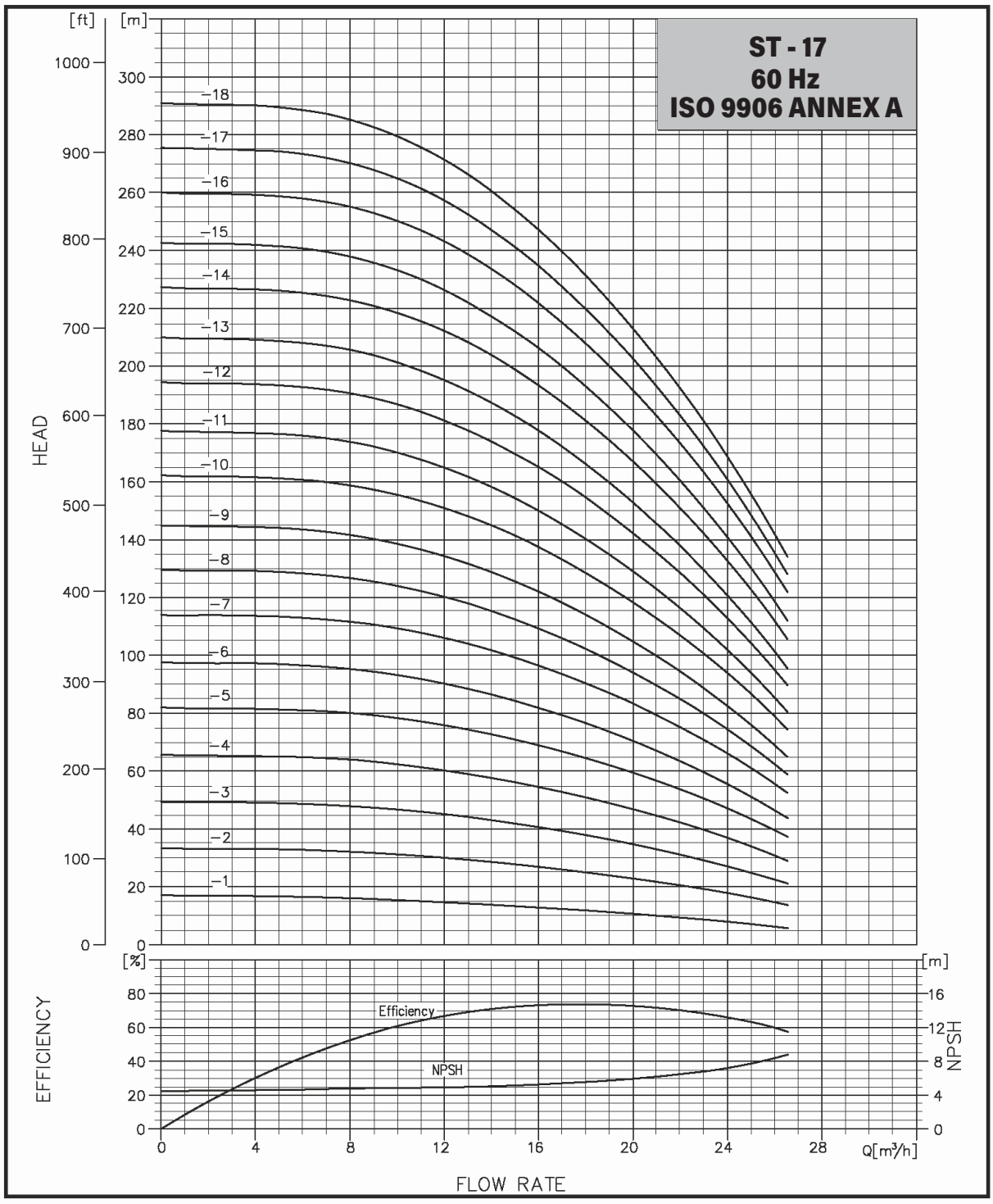
RADIAL FLOW PUMP

MODEL	MOTOR RATING		STAGE	PHASE	DELIVERY SIZE 65 MM (2.5")	Flow Q									
	kW	HP			l/min	0	140	210	250	285	315	345	375	400	415
ST17 - 0305	2.20	3.00	5	3		55	50	45	**40**	35	30	25	20	15	10
ST17 - 0406	3.00	4.00	6	3		66	60	54	**48**	42	36	30	24	18	12
ST17 - 0508	3.70	5.00	8	3		88	80	72	**64**	56	48	40	32	24	16
ST17 - 0609	4.50	6.00	9	3		99	90	81	**72**	63	54	45	36	27	18
ST17 - 7512	5.50	7.50	12	3		132	120	108	**96**	84	72	60	48	36	24
ST17 - 1016	7.50	10.0	16	3		176	160	144	**128**	112	96	80	64	48	32
ST17 - 12520	9.30	12.5	20	3		220	200	180	**160**	140	120	100	80	60	40
ST17 - 1524	11.0	15.0	24	3		264	240	216	**192**	168	144	120	96	72	48
ST17 - 17527	13.0	17.5	27	3	H(m)	297	270	243	**216**	189	162	135	108	81	54
ST17 - 2032	15.0	20.0	32	3		352	320	288	**256**	224	192	160	128	96	64
ST17 - 2537	18.5	25.0	37	3		407	370	333	**296**	259	222	185	148	111	74
ST17 - 3043	22.0	30.0	43	3		473	430	387	**344**	301	258	215	172	129	86
ST17 - 4051	30.0	40.0	51	3		561	510	459	**408**	357	306	255	204	153	102
ST17 - 4053	30.0	40.0	53	3		583	530	477	**424**	371	318	265	212	159	106
ST17 - 5055	37.5	50.0	55	3		605	550	495	**440**	385	330	275	220	165	110
ST17 - 5060	37.5	50.0	60	3		660	600	540	**480**	420	360	300	240	180	120

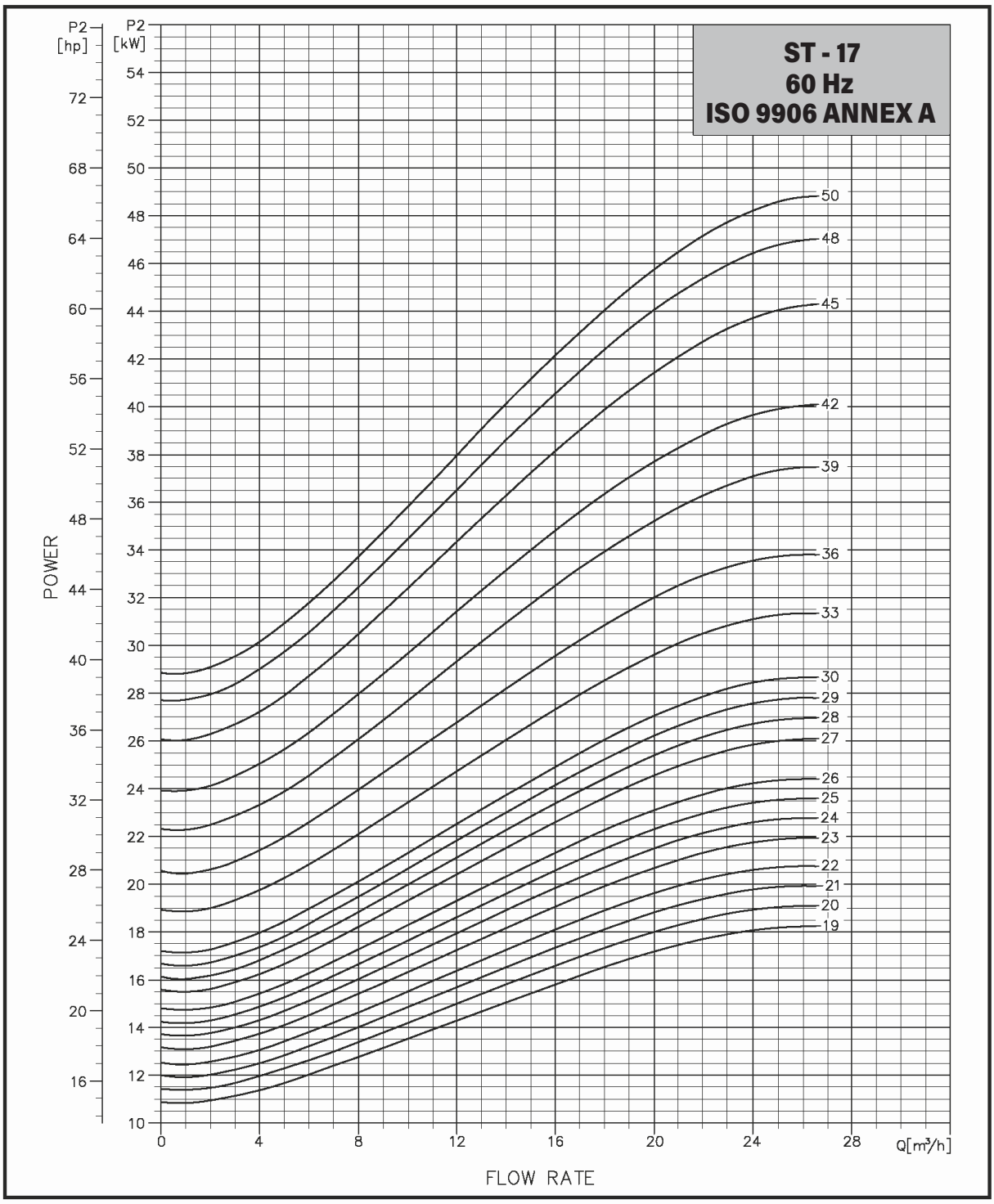
DIMENSIONS AND WEIGHTS



PERFORMANCE CURVE



PERFORMANCE CURVE



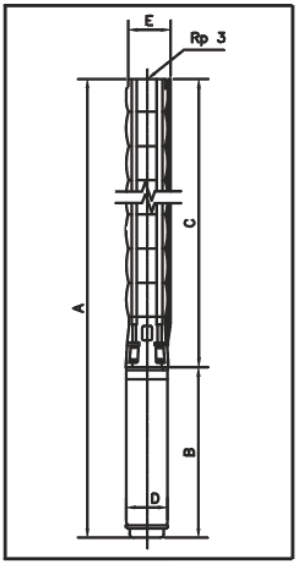
Solartive®

PERFORMANCE CHART ST-30

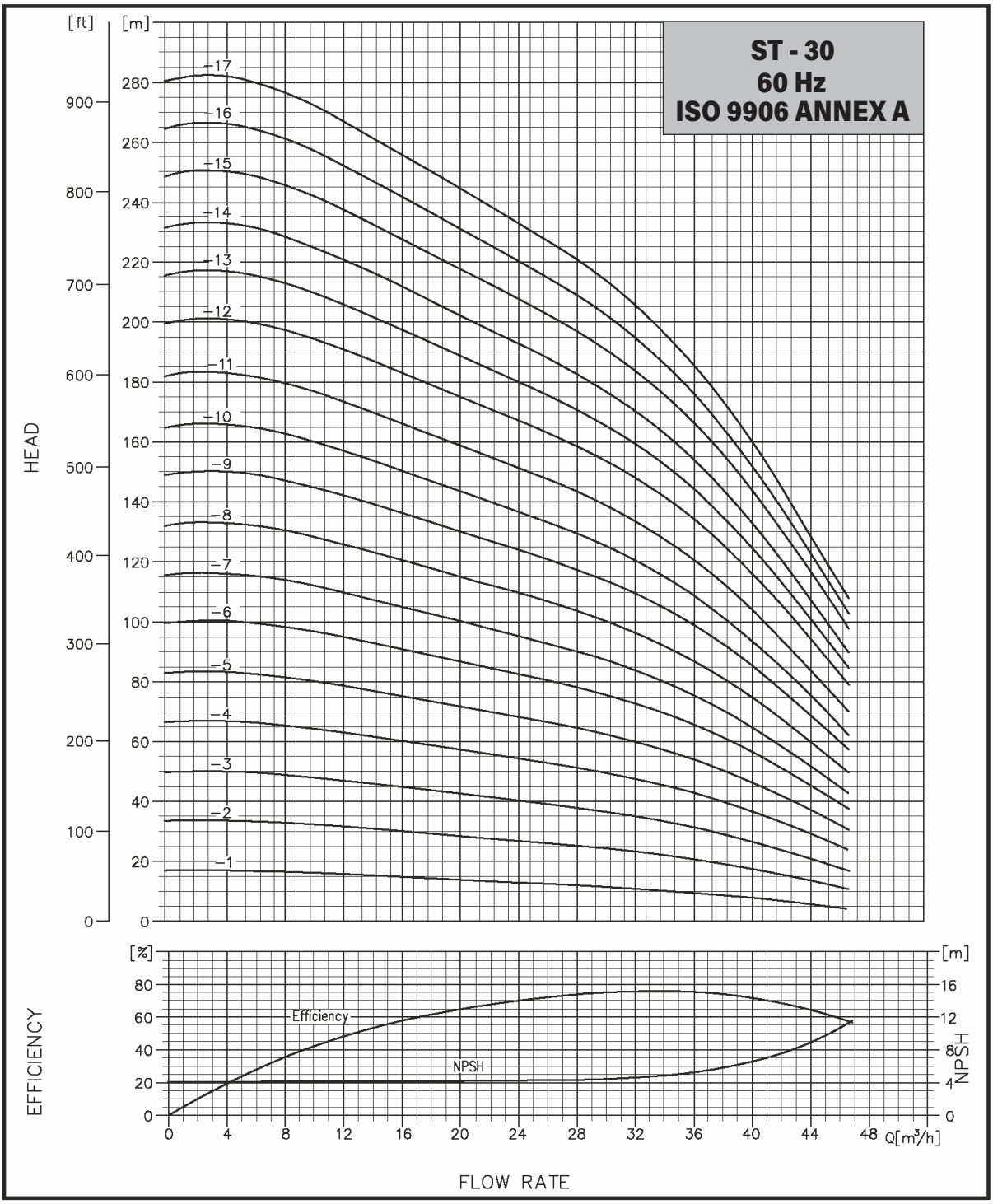
RADIAL FLOW PUMP

MODEL	MOTOR RATING		STAGE	PHASE	DELIVERY SIZE 80 MM (3.0")	Flow Q									
	kW	HP			l/min	0	255	365	450	520	570	620	660	700	740
ST30 - 0302	2.20	3.00	2	3		22	20	18	**16**	14	12	10	8	6	4
ST30 - 0403	3.00	4.00	3	3		33	30	27	**24**	21	18	15	12	9	6
ST30 - 0505	3.70	5.00	5	3		55	50	45	**40**	35	30	25	20	15	10
ST30 - 7507	5.50	7.50	7	3		77	70	63	**56**	49	42	35	28	21	14
ST30 - 1009	7.50	10.0	9	3		99	90	81	**72**	63	54	45	36	27	18
ST30 - 12512	9.30	12.5	12	3		132	120	108	**96**	84	72	60	48	36	24
ST30 - 1513	11.0	15.0	13	3		143	130	117	**104**	91	78	65	52	39	26
ST30 - 17515	13.0	17.5	15	3	H(m)	165	150	135	**120**	105	90	75	60	45	30
ST30 - 2017	15.0	20.0	17	3		187	170	153	**136**	119	102	85	68	51	34
ST30 - 2521	18.5	25.0	21	3		231	210	189	**168**	147	126	105	84	63	42
ST30 - 3026	22.0	30.0	26	3		286	260	234	**208**	182	156	130	104	78	52
ST30 - 4032	30.0	40.0	32	3		352	320	288	**256**	224	192	160	128	96	64
ST30 - 4035	30.0	40.0	35	3		385	350	315	**280**	245	210	175	140	105	70
ST30 - 5039	37.5	50.0	39	3		429	390	351	**312**	273	234	195	156	117	78
ST30 - 5043	37.5	50.0	43	3		473	430	387	**344**	301	258	215	172	129	86

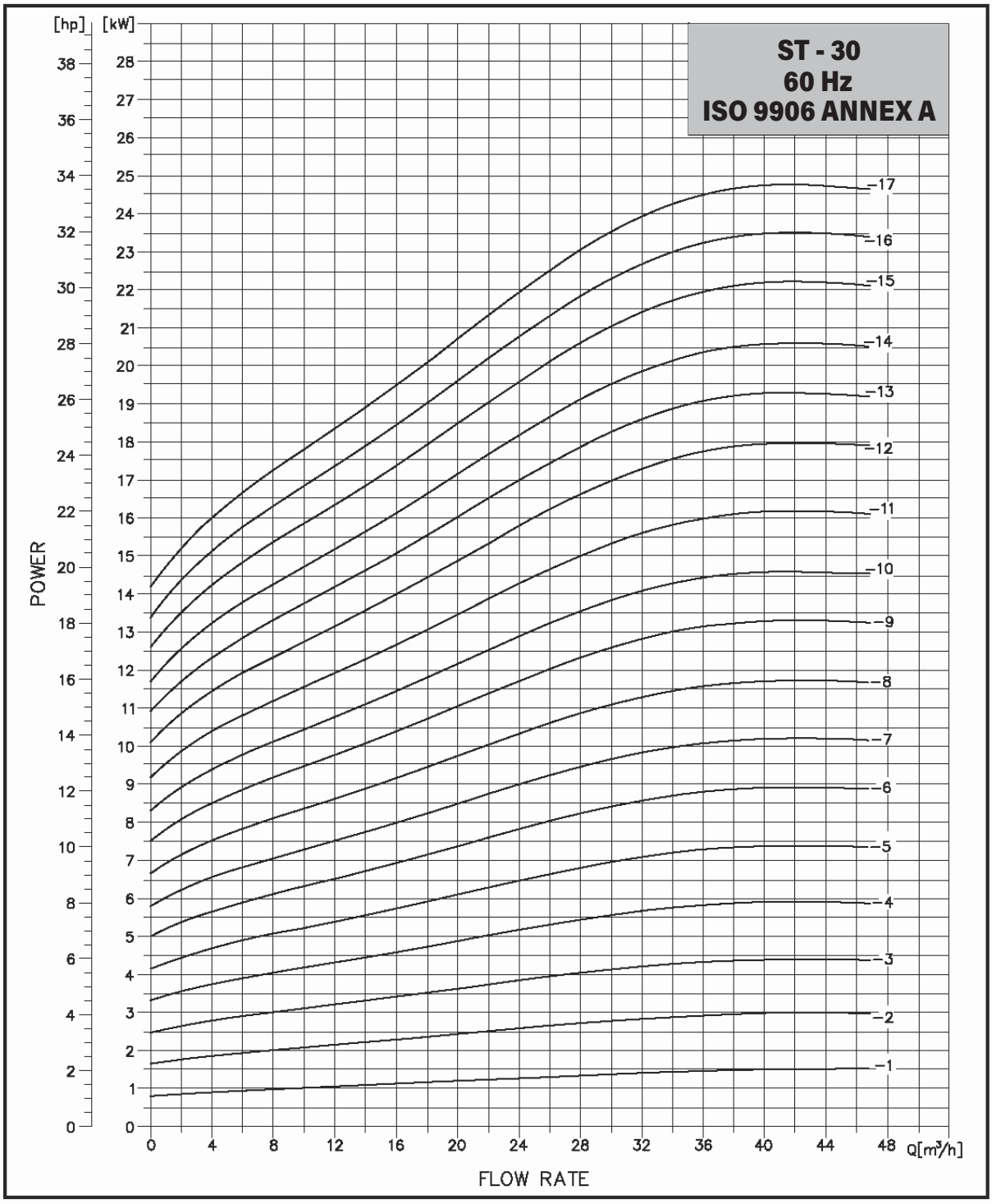
DIMENSIONS AND WEIGHTS



PERFORMANCE CURVE



PERFORMANCE CURVE



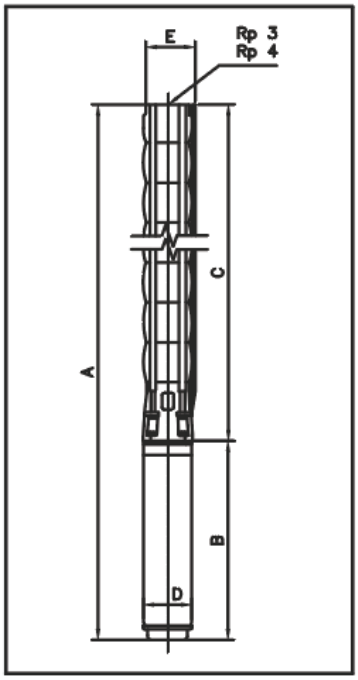
Solartive®

PERFORMANCE CHART ST-46

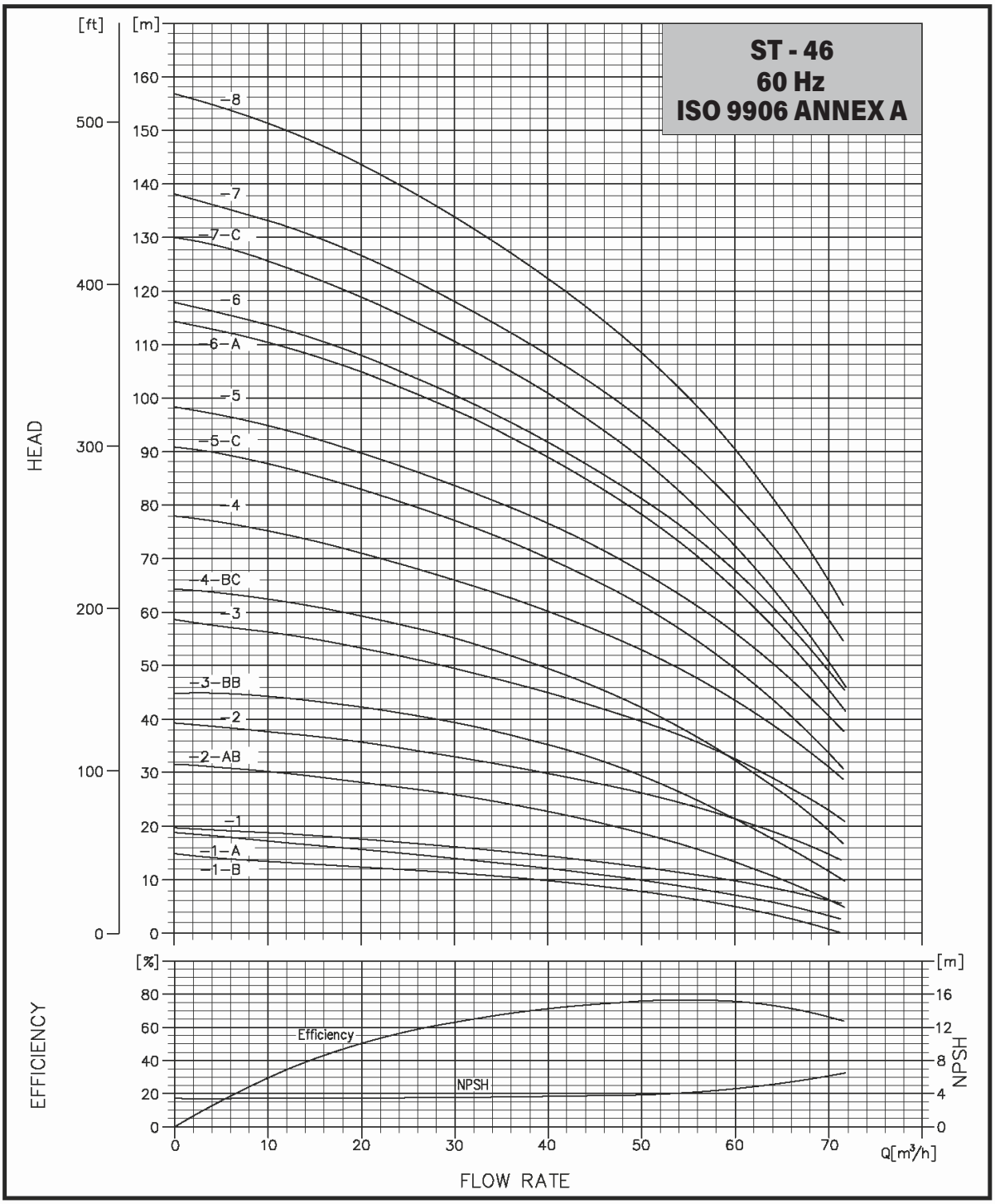
RADIAL FLOW PUMP

MODEL	MOTOR RATING		STAGE	PHASE	DELIVERY SIZE 100 MM (4.0")	Flow Q											
	kW	HP			l/min	0	430	540	650	740	830	900	960	1015	1065	1105	1150
ST46 - 0402	3.00	4.00	2	3		29	24	22	20	**18**	16	14	12	10	8	6	4
ST46 - 0503	3.70	5.00	3	3		44	36	33	30	**27**	24	21	18	15	12	9	6
ST46 - 7504	5.50	7.50	4	3		58	48	44	40	**36**	32	28	24	20	16	12	8
ST46 - 1005	7.50	10.0	5	3		73	60	55	50	**45**	40	35	30	25	20	15	10
ST46 - 12506	9.30	12.5	6	3		87	72	66	60	**54**	48	42	36	30	24	18	12
ST46 - 1508	11.0	15.0	8	3		116	96	88	80	**72**	64	56	48	40	32	24	16
ST46 - 17509	13.0	17.5	9	3		131	108	99	90	**81**	72	63	54	45	36	27	18
ST46 - 2010	15.0	20.0	10	3	H(m)	145	120	110	100	**90**	80	70	60	50	40	30	20
ST46 - 2512	18.5	25.0	12	3		174	144	132	120	**108**	96	84	72	60	48	36	24
ST46 - 3015	22.0	30.0	15	3		218	180	165	150	**135**	120	105	90	75	60	45	30
ST46 - 4018	30.0	40.0	18	3		262	216	198	180	**162**	144	126	108	90	72	54	36
ST46 - 4020	30.0	40.0	20	3		292	240	220	200	**180**	160	140	120	100	80	60	40
ST46 - 5022	37.5	50.0	22	3		321	264	242	220	**198**	176	154	132	110	88	66	44
ST46 - 5024	37.5	50.0	24	3		350	288	264	240	**216**	192	168	144	120	96	72	48

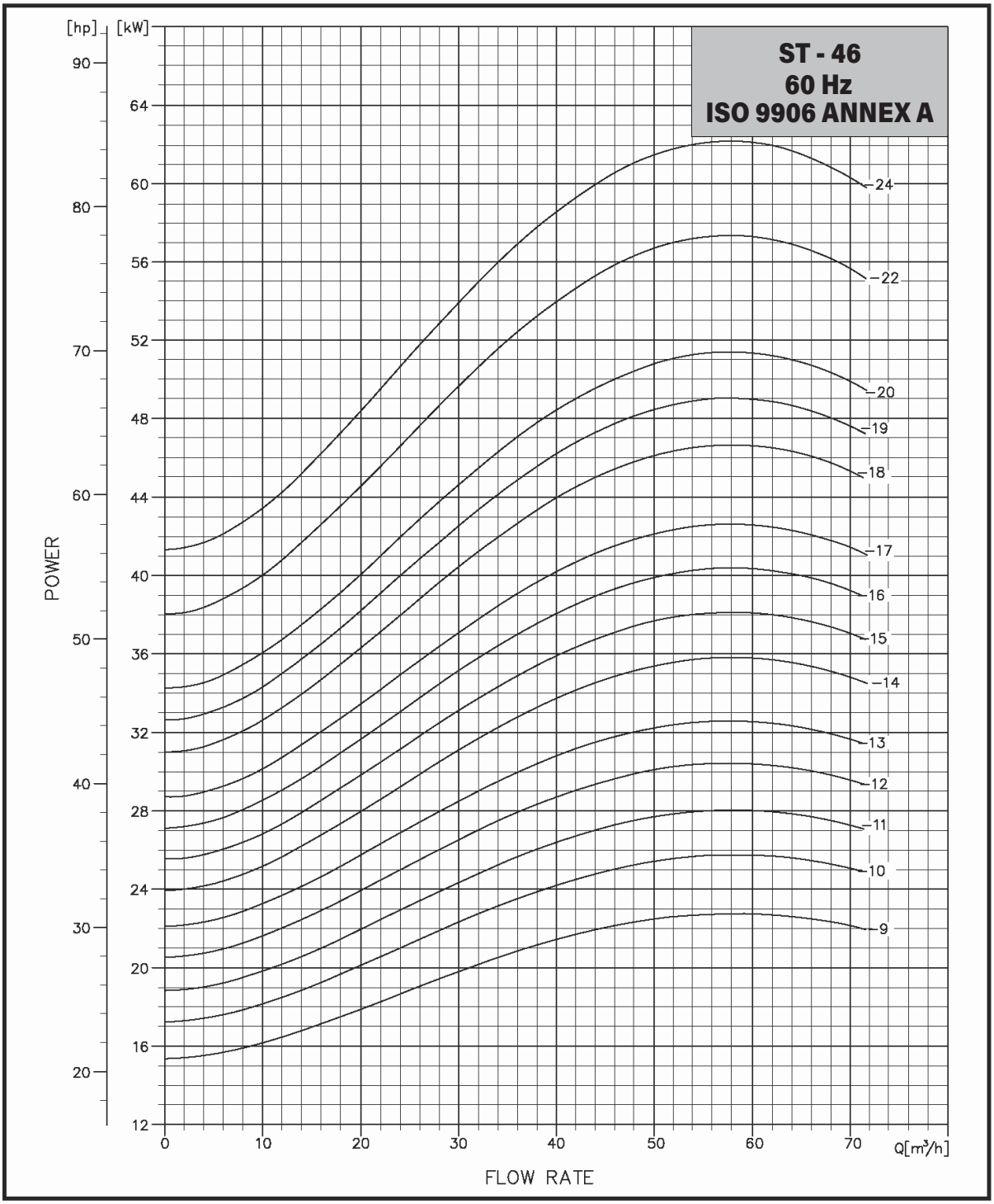
DIMENSIONS AND WEIGHTS



PERFORMANCE CURVE



PERFORMANCE CURVE



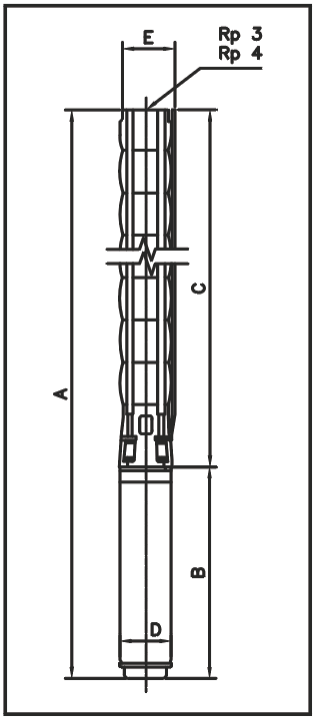
Solartive®

PERFORMANCE CHART ST-60

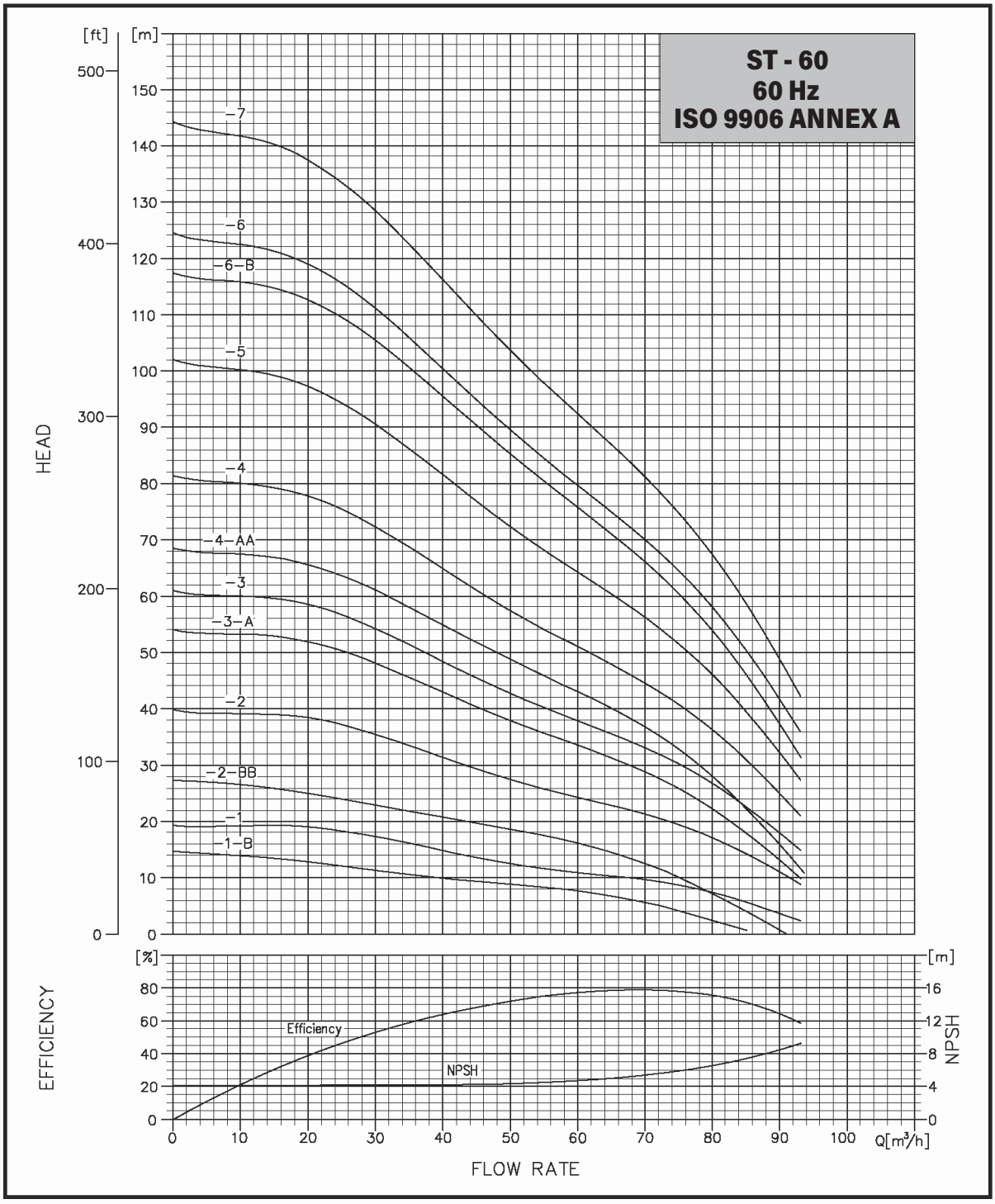
RADIAL FLOW PUMP

MODEL	MOTOR RATING		STAGE	PHASE	DELIVERY SIZE 100 MM (4.0")	Flow Q											
	kW	HP			l/min	0	410	580	750	880	980	1080	1160	1230	1300	1350	1400
ST60 - 0502	3.70	5.00	2	3	H(m)	28	24	22	20	**18**	16	14	12	10	8	6	4
ST60 - 7503	5.50	7.50	3	3		43	36	33	30	**27**	24	21	18	15	12	9	6
ST60 - 1004	7.50	10.00	4	3		57	48	44	40	**36**	32	28	24	20	16	12	8
ST60 - 12505	9.30	12.50	5	3		71	60	55	50	**45**	40	35	30	25	20	15	10
ST60 - 1506	11.00	15.00	6	3		85	72	66	60	**54**	48	42	36	30	24	18	12
ST60 - 17508	13.00	17.50	8	3		114	96	88	80	**72**	64	56	48	40	32	24	16
ST60 - 2009	15.00	20.00	9	3		128	108	99	90	**81**	72	63	54	45	36	27	18
ST60 - 2510	18.50	25.00	10	3		142	120	110	100	**90**	80	70	60	50	40	30	20
ST60 - 3012	22.00	30.00	12	3		170	144	132	120	**108**	96	84	72	60	48	36	24
ST60 - 4017	30.00	40.00	17	3		241	204	187	170	**153**	136	119	102	85	68	51	34
ST60 - 5019	37.50	50.00	19	3		269	228	209	190	**171**	152	133	114	95	76	57	38
ST60 - 5021	37.50	50.00	21	3		298	252	231	210	**189**	168	147	126	105	84	63	42

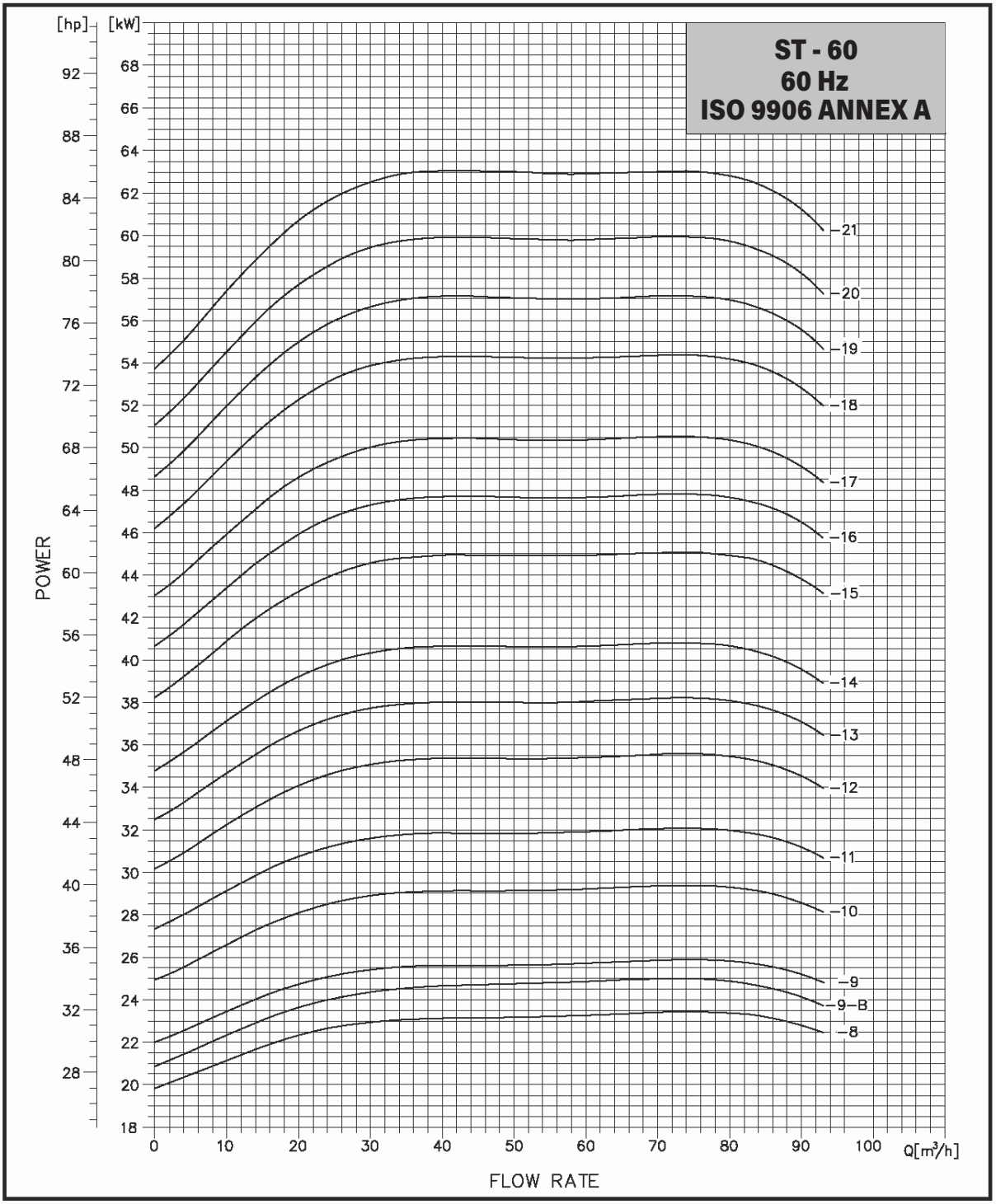
DIMENSIONS AND WEIGHTS



PERFORMANCE CURVE



PERFORMANCE CURVE



Solartive®

ST-77, ST-95

8” Submersible Pump

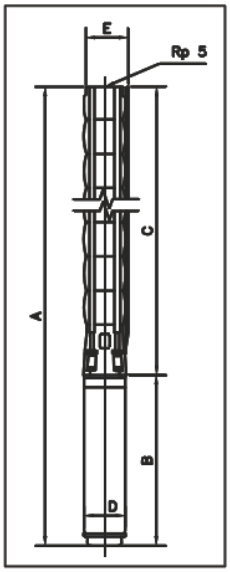
Solartive®

PERFORMANCE CHART ST-77

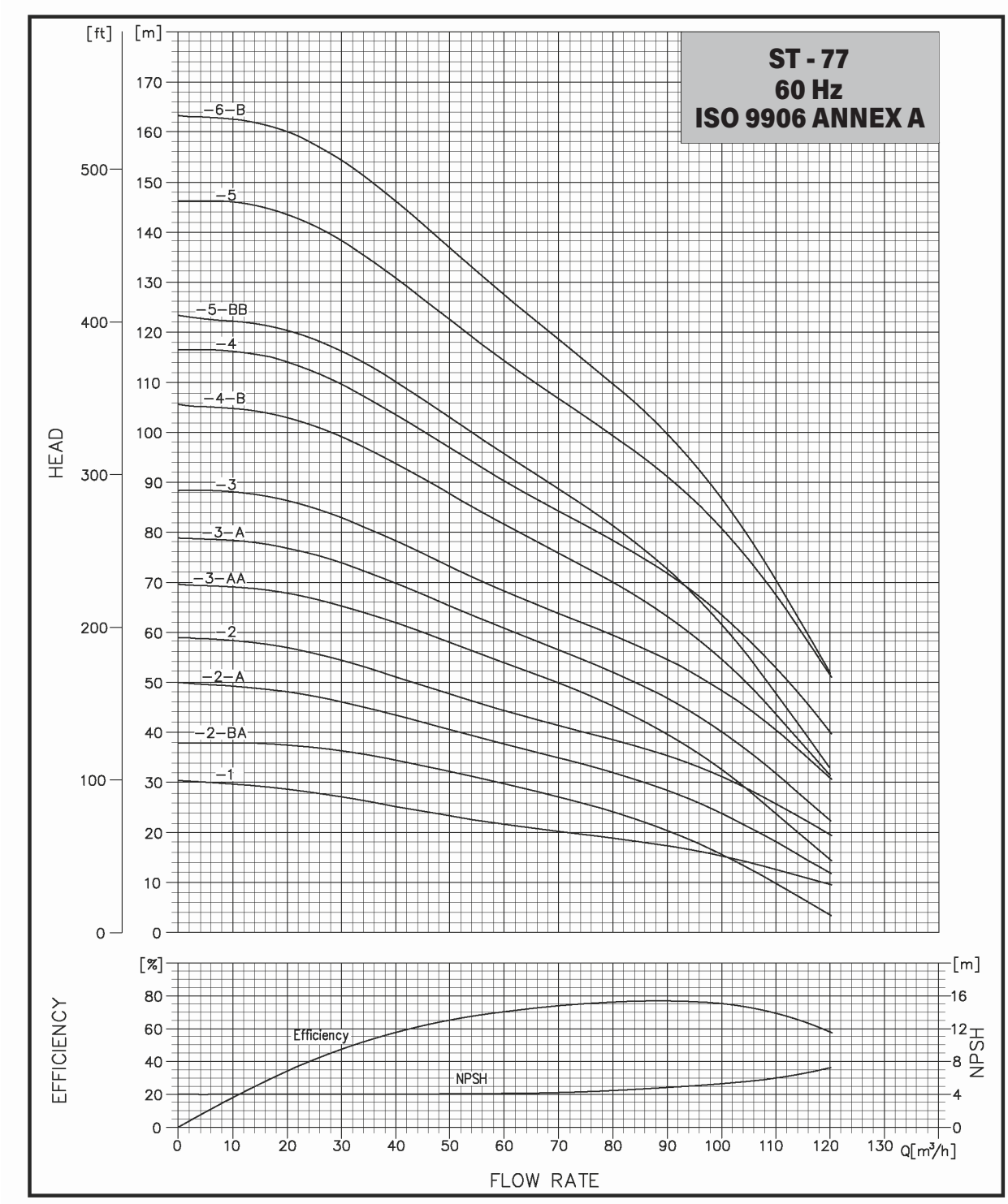
RADIAL FLOW PUMP

MODEL	MOTOR RATING		STAGE	PHASE	DELIVERY SIZE 65 MM (2.5")	Flow Q									
	kW	HP			l/min	0	170	250	320	385	425	485	530	575	625
ST77 - 0504	3.70	5.00	4	3		60	52	48	44	**40**	36	28	20	12	4
ST77 - 0605	4.50	6.00	5	3		75	65	60	55	**50**	45	35	25	15	5
ST77 - 7506	5.50	7.50	6	3		90	78	72	66	**60**	54	42	30	18	6
ST77 - 1008	7.50	10.00	8	3		120	104	96	88	**80**	72	56	40	24	8
ST77 - 1009	7.50	10.00	9	3		135	117	108	99	**90**	81	63	45	27	9
ST77 - 12511	9.30	12.50	11	3		165	143	132	121	**110**	99	77	55	33	11
ST77 - 1513	11.00	15.00	13	3	H(m)	191	169	156	143	**130**	117	91	65	39	13
ST77 - 17515	13.00	17.50	15	3		221	195	180	165	**150**	135	105	75	45	15
ST77 - 2017	15.00	20.00	17	3		250	221	204	187	**170**	153	119	85	51	17
ST77 - 2521	18.50	25.00	21	3		309	273	252	231	**210**	189	147	105	63	21
ST77 - 3025	22.00	30.00	25	3		368	325	300	275	**250**	225	175	125	75	25
ST77 - 4030	30.00	40.00	30	3		441	390	360	330	**300**	270	210	150	90	30
ST77 - 5035	37.50	50.00	35	3		515	455	420	385	**350**	315	245	175	105	35

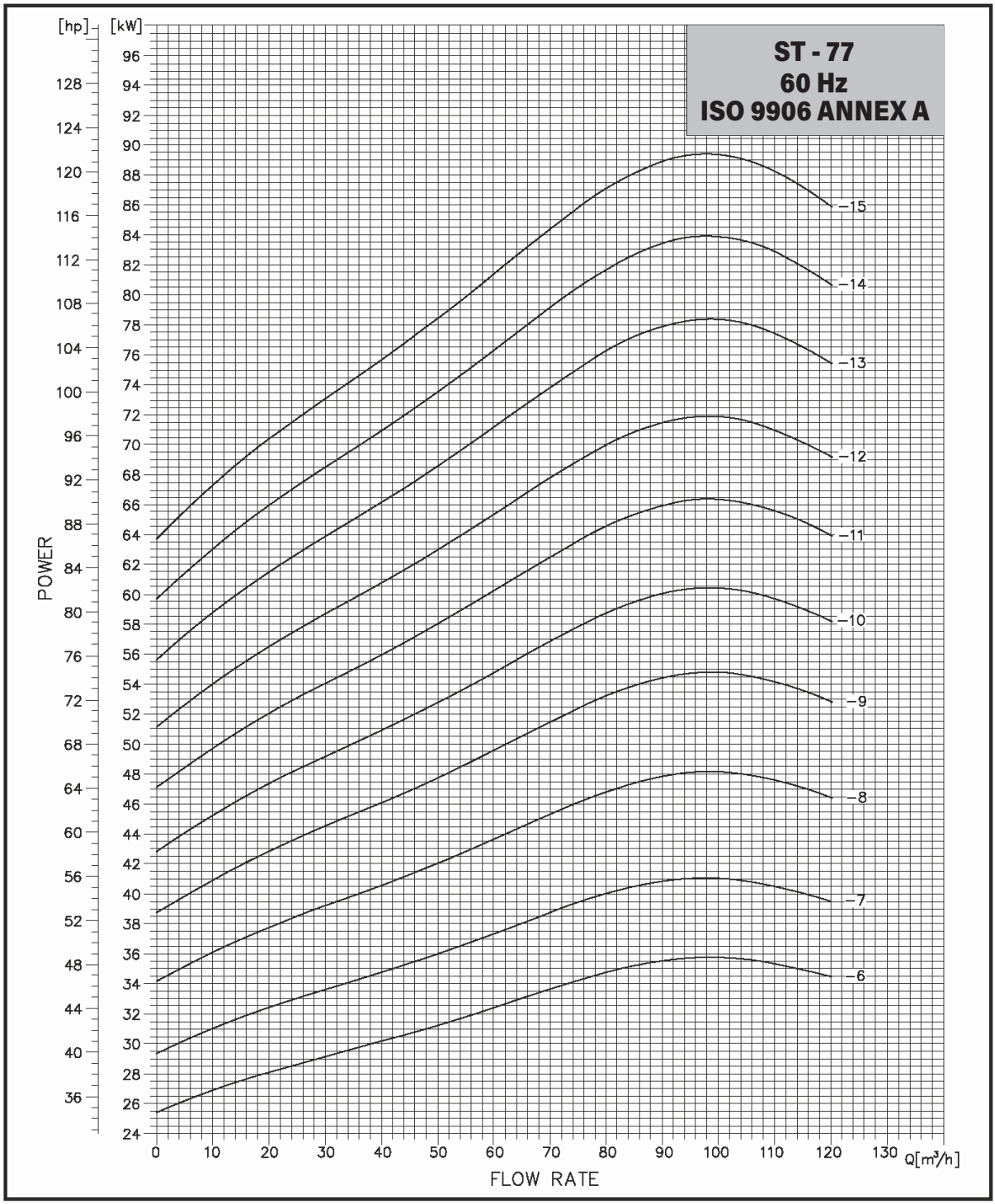
DIMENSIONS AND WEIGHTS



PERFORMANCE CURVE



PERFORMANCE CURVE



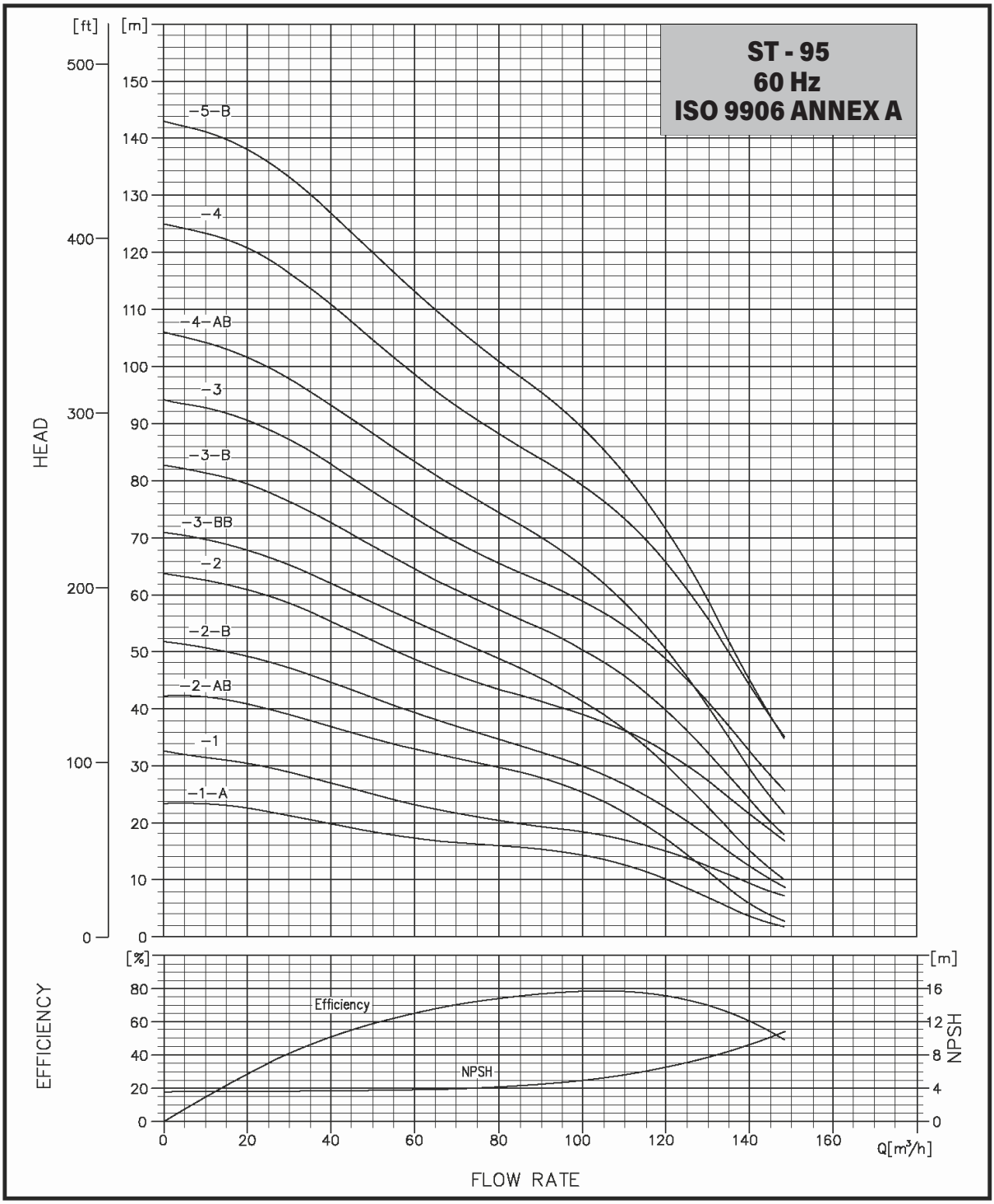
Solartive®

PERFORMANCE CHART ST-95

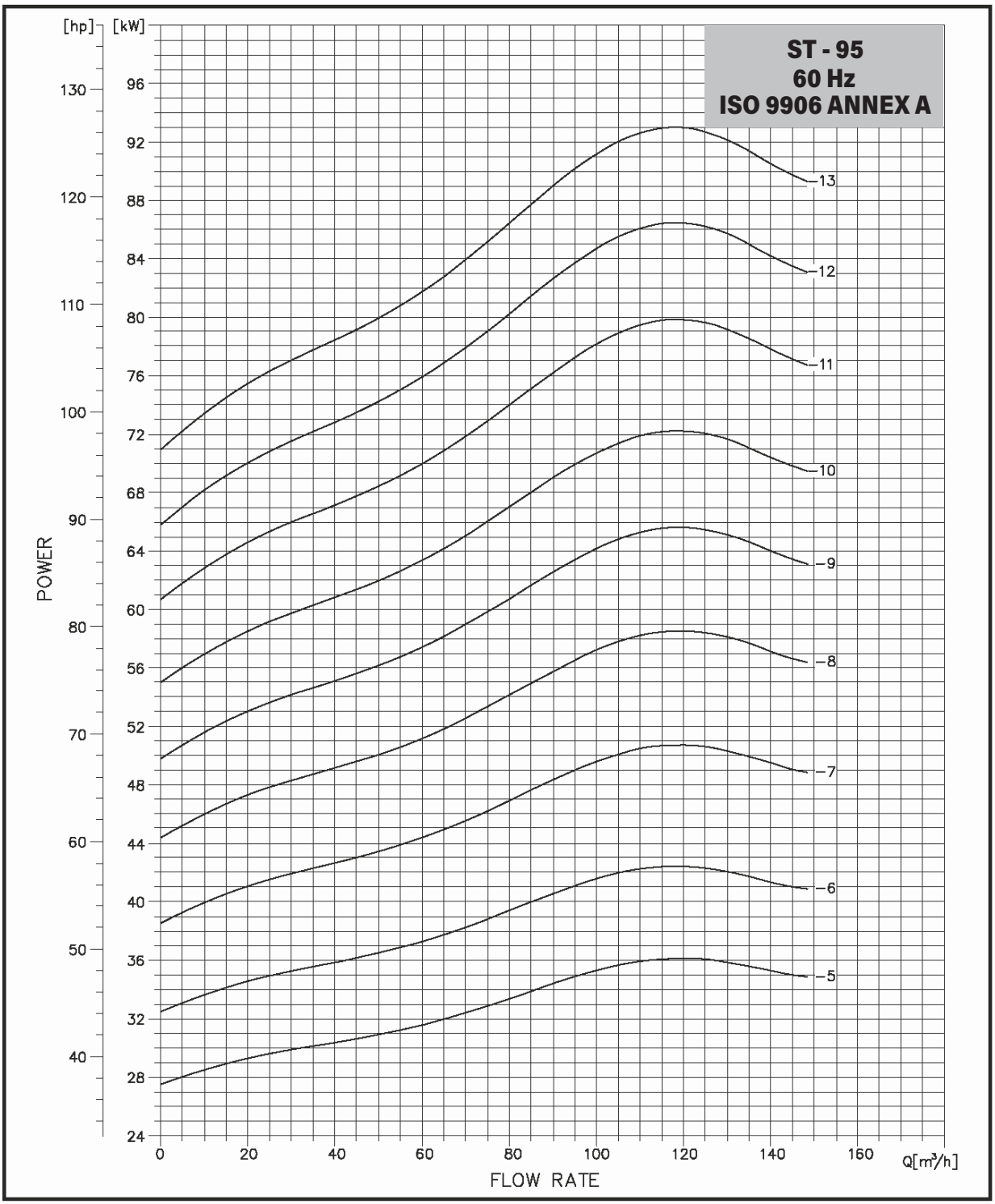
RADIAL FLOW PUMP

MODEL	MOTOR RATING		STAGE	PHASE	DELIVERY SIZE 65 MM (2.5")	Flow Q									
	kW	HP			l/min	0	220	310	390	470	530	625	680	725	770
ST95 - 0302	2.20	3.00	2	3	H(m)	31	28	26	24	**22**	20	16	12	8	4
ST95 - 0503	3.70	5.00	3	3		46	42	39	36	**33**	30	24	18	12	6
ST95 - 0604	4.50	6.00	4	3		61	56	52	48	**44**	40	32	24	16	8
ST95 - 7505	5.50	7.50	5	3		77	70	65	60	**55**	50	40	30	20	10
ST95 - 1006	7.50	10.00	6	3		92	84	78	72	**66**	60	48	36	24	12
ST95 - 1007	7.50	10.00	7	3		107	98	91	84	**77**	70	56	42	28	14
ST95 - 12508	9.30	12.50	8	3		122	112	104	96	**88**	80	64	48	32	16
ST95 - 12509	9.30	12.50	9	3		138	126	117	108	**99**	90	72	54	36	18
ST95 - 1510	11.00	15.00	10	3		153	140	130	120	**110**	100	80	60	40	20
ST95 - 1511	11.00	15.00	11	3		168	154	143	132	**121**	110	88	66	44	22
ST95 - 17512	13.00	17.50	12	3		184	168	156	144	**132**	120	96	72	48	24
ST95 - 17513	13.00	17.50	13	3		199	182	169	156	**143**	130	104	78	52	26
ST95 - 2014	15.00	20.00	14	3		214	196	182	168	**154**	140	112	84	56	28
ST95 - 2015	15.00	20.00	15	3		230	210	195	180	**165**	150	120	90	60	30
ST95 - 2516	18.50	25.00	16	3		245	224	208	192	**176**	160	128	96	64	32
ST95 - 2518	18.50	25.00	18	3		275	252	234	216	**198**	180	144	108	72	36
ST95 - 3020	22.00	30.00	20	3		306	280	260	240	**220**	200	160	120	80	40
ST95 - 3021	22.00	30.00	21	3		321	294	273	252	**231**	210	168	126	84	42
ST95 - 4025	30.00	40.00	25	3		382	350	325	300	**275**	250	200	150	100	50
ST95 - 5030	37.50	50.00	30	3		459	420	390	360	**330**	300	240	180	120	60

PERFORMANCE CURVE



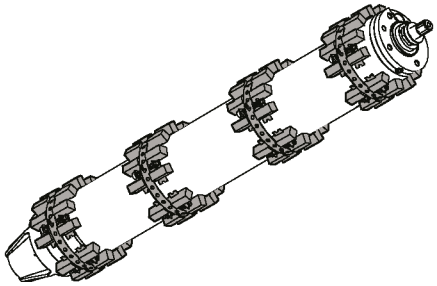
PERFORMANCE CURVE



APPLICATIONS

Cathodic protection by means of zinc can be used for corrosion protection of ST pumps in chloride-containing liquids, such as brackish water and seawater.

Sacrificial anodes are placed on the outside of the pump and motor as protection against corrosion.



Submersible motor fitted with anode strings

The number of anodes required depends on the pump and motor in question.

FLOW SLEEVES

Solartive Pumps offers a complete range of stainless-steel flow sleeves for both vertical and horizontal operation. Flow sleeves are recommended for all applications in which motor cooling is insufficient. The result is a general extension of motor life. Flow sleeves are to be fitted in these cases:

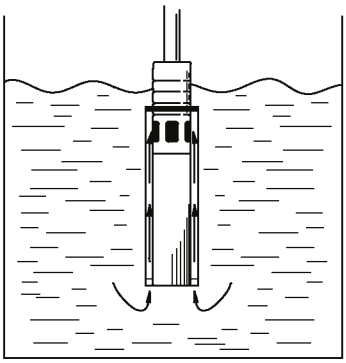
- If the submersible pump is exposed to high thermal load such as current unbalance, dry running, overload, high ambient temperature and bad cooling conditions.
- If aggressive liquids are pumped, since corrosion is doubled for every 10 °C the temperature rises.
- If sedimentation or deposits occur around and/or on the motor.

See example

Note: More information about flow sleeves is available on request.

Example of calculated flow sleeve

The flow sleeve is fitted to the submersible motor so that the liquid passes close by the motor on its way towards the pump suction interconnector, thus **ensuring optimum cooling of the motor. See fig.** .



Flow sleeve function

The flow sleeve is designed so that the flow velocity past the motor is minimum 0.5 m/s and maximum 3 m/s to ensure optimum pump operating conditions.

Use this formula to calculate flow velocity:

$$V = \frac{Q \times 353}{D^2 - d^2} \text{ [m/s]}$$

Q	m^3/h	Flow rate
D	mm	Sleeve diameter
d	mm	Pump diameter

Solartive®

NOTES

Solartive®

Toll Free No. - 1800 889 3813

SOLARTIVE TECHNO INDUSTRIES PVT. LTD.
Plot No. 32, Ecotech-1, Extension-1, Greater Noida - 201310, (UP) INDIA
E-mail: info@solartive.com | www.solartive.com