C.R.I. PUMPS

Pumping trust. Worldwide.



SUBMERSIBLE PUMPS & MOTORS - 60Hz

An ISO 9001, ISO 14001 & OSHAS 18001 Company

CE*

*For specific models only.



C.R.I. PUMPS

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THE BEGINNING

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an in-house foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 2300 varieties of perfectly engineered pumps and motors and sells its products in numerous countries spread across 6 continents.

C.R.I. IS ONE AMONG

the few pioneers in the world to produce 100% stainless steel submersible pumps. Having achieved a record production capacity of over 2 million pumps per annum, today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

THE INFRASTRUCTURE

of C.R.I. is pretty comprehensive with state-of-the-art machineries and high potential in-house R&D recognised by the ministry of science and technology, Govt. of India - all within its own covered area of 300,000 square metres. The production environment is accredited with ISO 9001, ISO 14001 & OSHAS 18001 certifications and the products are CE, UR/UL, IEC, TSE & ISI certified. The R&D team always stays in tune with the changing scenario and seldom fails in coming up with outstanding solutions every time.

NEEDLESS TO SAY,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work. and, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos: " Commitment, Reliability, Innovation".



C.R.I. PUMPS
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Vision, Mission and Values

To be the industry leader providing best - in - class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of **commitment, reliability** and **innovation.**

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GENERAL INFORMATION

STAINLESS STEEL SERIES
MODEL IDENTIFICATION CODE

DEEPWELL SUBMERSIBLE PUMP

S X X - XXX - XX (X) (V) - (X)

- S — DEEPWELL SUBMERSIBLE PUMP
- X — NOMINAL PUMP DIAMETER
- X — TYPE OF MATERIALS OF CONSTRUCTION (M.O.C.)
- XXX — NOMINAL FLOW (gpm)
  Ex. : 5 = 5 gpm, 90 = 90 gpm, 625 = 625 gpm, A75 = 1075 gpm
- XX — NUMBER OF IMPELLERS
- (X) — R - Reduced impeller
  RR - Further reduced impeller
- (V) — This digit is applicable only when the pump supplied with viton bushes & wearing rings.
- (X) — NOMINAL MOTOR DIAMETER
  (This digit will be applicable only when the pump is suitable for lesser dia motor)

DEEPWELL SUBMERSIBLE PUMP SET (Pump + Motor)		
PUMP MODEL	**+**	**MOTOR MODEL**
S X X - XXX - XX	**+**	**X X X - XXX - XX**

DEEPWELL SUBMERSIBLE PUMP SET (Pump + Motor)		
PUMP MODEL	**+**	**MOTOR MODEL**
S6S - 240 - 10	**+**	**W6A - 300 - 4M**

GENERAL INFORMATION

STAINLESS STEEL SERIES

PERFORMANCE CURVE CONDITIONS

The conditions below apply to the curves shown on the following pages.

a. The Performance curves show pump performance at rated speed, voltage and @ 10ft minimum submergence.

The nominal speed of motor

4" motor	:	n = 3450 rpm
6" motor	:	n = 3450 rpm
8" motor	:	n = 3450 rpm
10" motor	:	n = 3450 rpm

b. The measurements were made with airless water at 68°F. When pumping liquids with a density higher than that of water, motors with correspondingly higher outputs must be used.

c. Pipe friction losses have not been included in the performance curves and performance tables.

d. The bold curves indicate the recommended performance range.

e. Q/H : The curves are inclusive of check valve and suction inter-connector losses at the actual speed.

f. Efficiency curve : "Eff" shows pump stage efficiency.

g. Curve tolerance according to ISO : 9906, Grade - 3B

h. The performances are at rated voltage and are only Indicative. Actual discharge depends on availability of water in well, based on strength of water source, height of water column, submergence of pump, etc.,.

I. The given performances are for specific materials of construction of pump.

j. The outlet size of the pumps are as per NPT standard.

STAINLESS STEEL SERIES



GENERAL INFORMATION

C.R.I. Submersible Pumps are the products of the expertise gained from over five decades of experience, endurance and workmanship. These products are engineered to perfection with utmost care and stringent quality control at all stages to ensure a trouble free service.

Description : C.R.I. 4", 6", 8" & 10" Stainless steel series submersible pumps are made of corrosion resistance stainless steel with built in check valve. All vital components of these pump models are made of high quality 304 / 316 grade stainless steel and the shaft is of S.S 304 / 329 / 431. The optimal design of impellers and diffusers enables the best possible hydraulic efficiency.

These pumps are of multistage centrifugal type, which can be firmly coupled to a submersible electric motor, which operates submerged beneath the surface of water. Built in check valve prevents back flow, and reduces the risk of water hammer. All mounting dimensions of pumps and motors are in accordance with NEMA standards. C.R.I. submersible pumps can be offered with either C.R.I. 'W' series, water filled rewindable submersible motors / C.R.I. 'R' series, Resin Filled encapsulated (water lubricated) submersible motors / C.R.I. 'L' Series, food grade liquid filled submersible motors or any other NEMA standard motors.

Features :

- Best operating efficiency
- Precise parts made of SS 304/316
- Highly durable & Hygiene
- Good resistance to sand
- Can be easily dismantled and repaired
- Can handle upthrust loads
- Available MOC : Type S&N
- Additional intermediate bearings in higher stage pumps
- Carbon thrust pad
- Rubber bush bearing in all stages
- SS 329 spline coupling for longer life

Applications :

- Residential
- Irrigation
- Civil Water supply
- Fountains
- Industrial & Rural water supply
- Fire Fighting & Pressure Boosting units
- Gardens
- Sprinkler Systems
- Mining
- Oil & Gas
- De-watering
- Food processing industry
- Golf Course
- De-salination plants
- CBM

STAINLESS STEEL SERIES

Pumped Liquids

Clean, Thin, Non-aggresive, Non explosive, Clear, Cold, Fresh Water without abrasives, Solid particles or fibre having the following characteristics

a)	Max. Temperature	NBR - 91.4°F (33°C) / VITON - 194°F (90°C)
b)	Permissible amount of sand	0.42 lb / 1000 gal (max)
c)	Chlorine ion density	500 ppm (max)
d)	Allowable solids	3000 ppm (max)
e)	Specific gravity	1.004 (max)
f)	Hardness (Drinking water)	300 ppm (max)
g)	Viscosity	1.75 x 10^{-6} m^2/sec (max)
h)	Turbidity	50 ppm silica scale (max)
i)	pH	6.5 to 8.5

PUMP OPERATING LIMITATIONS					
NOMINAL DIAMETER		4"(100mm)	6"(150mm)	8"(200mm)	10"(250mm)
POWER RANGE		0.25 - 20HP	1.5 - 85/100HP	7.5 - 125HP	15 - 300HP
SPEED		3450 rpm	3450 rpm	3450 rpm	3450 rpm
DISCHARGE RANGE	US gpm	1.5 - 90	21 - 400	150 - 635	200 - 1465
	m^3/h	0.3 - 20	5 - 91	34 - 144	46 - 332
TOTAL HEAD RANGE	ft	20 - 3366	10 - 2110	20 - 1400	25 - 1280
	m	6 - 1026	3 - 643	6 - 427	8 - 390
OUTLET SIZE IN INCHES		1,1¼, 1½ & 2	2,3 & 4	5	6
SHAFT COUPLING		Splines	Splines	Splines	Keyway / Splines

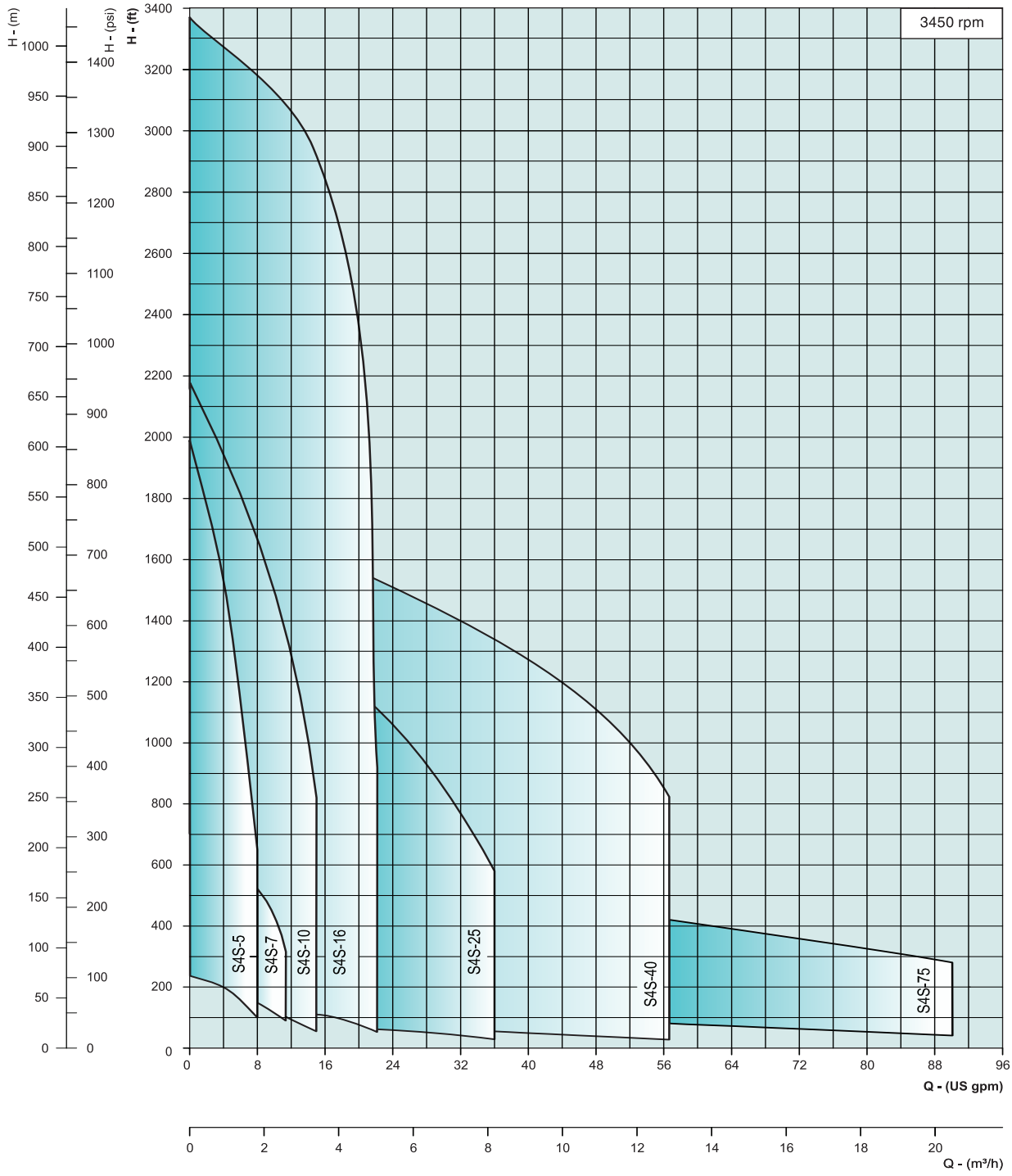
Maximum temperature of pumped liquid

Motor	Minimum cooling flow along the motor	Vertical installation	Horizontal installation minimum 30°angle
4"	0.25 ft/s	91.4°F(33 °C)	91.4°F(33 °C)
6" & 8"	0.5 ft/s	91.4°F(33 °C)	91.4°F(33 °C)
10"	0.5 ft/s	91.4°F(33 °C)	91.4°F(33 °C)

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

GENERAL INFORMATION

Group Performance Curves - 4"

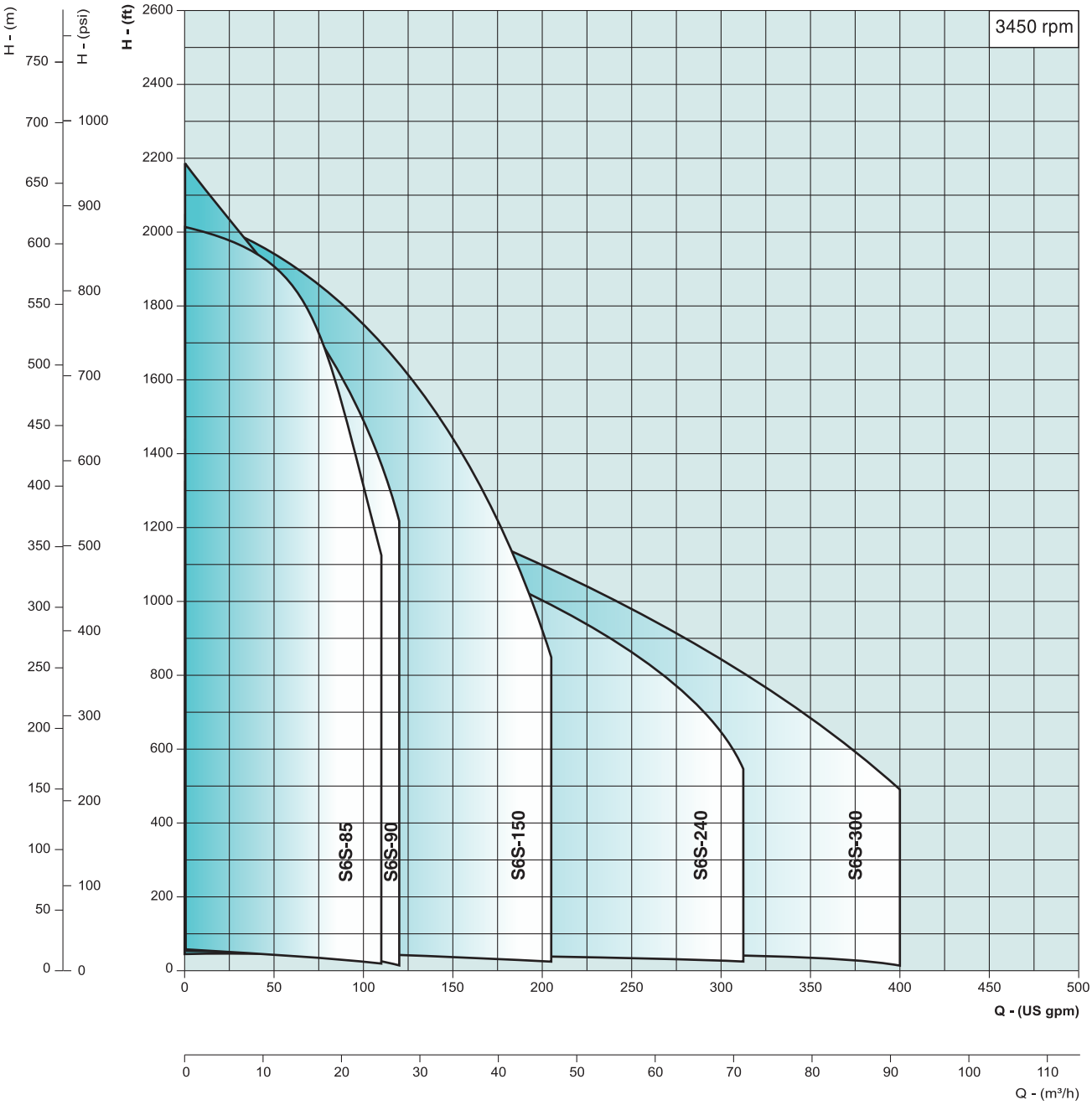


Refer general information for performance curve conditions and for other details.

Curve tolerances according to ISO 9906, Grade - 3B.

STAINLESS STEEL SERIES

Group Performance Curves - 6"

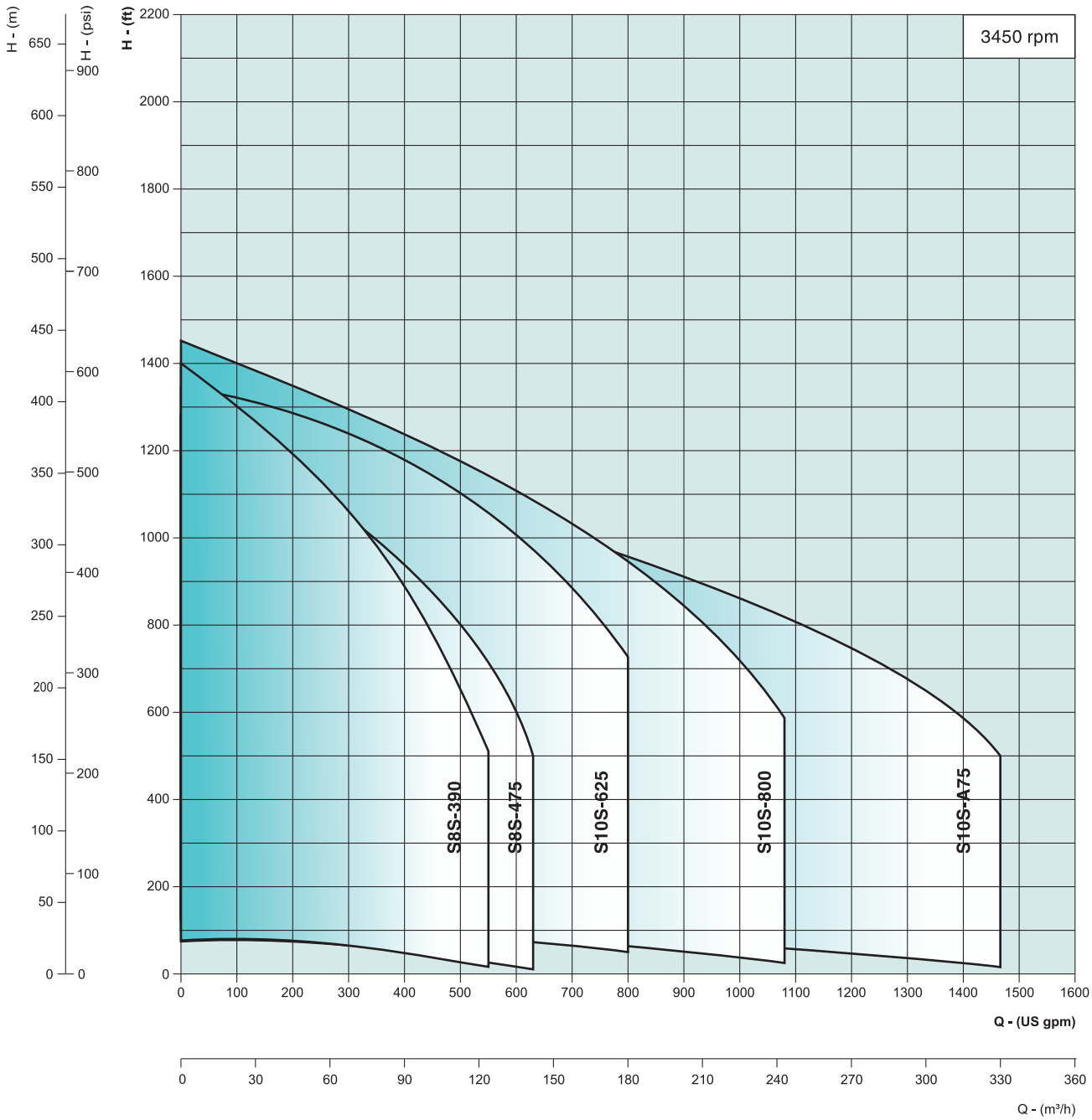


Refer general information for performance curve conditions and for other details.

Curve tolerances according to ISO 9906, Grade - 3B.

GENERAL INFORMATION

Group Performance Curves - 8" & 10"



Refer general information for performance curve conditions and for other details.

Curve tolerances according to ISO 9906, Grade - 3B.

STAINLESS STEEL SERIES

Materials of Construction

PART NAME	PART No.	NOMINAL DIA. 4"		NOMINAL DIA . 6", 8" & 10"	
		TYPE - S	TYPE - N	TYPE - S	TYPE - N
CHECK VALVE HOUSING	21.00	S.S - 304	S.S. - 316	S.S. - 304	S.S. - 316
CHECK VALVE DISC	21.06	S.S - 304	S.S. - 316	S.S. - 304	S.S. - 316
CHECK VALVE SEAT	21.01	NBR / VITON	NBR / VITON	NBR / VITON	NBR / VITON
DIFFUSER CHAMBER	18.03	S.S - 304	S.S. - 316	S.S. - 304	S.S. - 316
IMPELLER	19.00	S.S - 304	S.S. - 316	S.S. - 304	S.S. - 316
SPLIT CONE WITH NUT*	19.02	S.S - 304	S.S. - 316	S.S. - 304	S.S. - 316
IMPELLER WEAR RING / SEAL RING	17.01	NBR / VITON	NBR / VITON	NBR / VITON	NBR / VITON
UPTHRUST WASHER / UPTHRUST SLEEVE	13.03	S.S - 420	S.S - 420	S.S 420 / S.S 431	S.S 420 / S.S 431
BUSH - CT PAD	18.05	LTB	LTB	LTB / TEFLON	LTB / TEFLON
BUSH - DIFFUSER CHAMBER	18.06	NBR / VITON	NBR / VITON	NBR / VITON	NBR / VITON
BUSH - BRACKET	18.07	LTB	LTB	LTB	LTB
SUCTION INTER CONNECTOR	17.00	S.S. - 304	S.S - 316	S.S. - 304	S.S. - 316
INLET SCREEN	14.03	S.S. - 304	S.S. - 316	S.S. - 304	S.S. - 316
PUMP SHAFT ^	22.00	S.S. - 431#	S.S. - 329#	S.S. - 431	S.S. - 431
COUPLING SPLINES	22.01	S.S. - 329	S.S - 329	S.S. - 431	S.S. - 431
LOCKING STRAPS	17.03	S.S. - 304	S.S - 316	S.S. - 304	S.S. - 316
CABLE GUARD	17.04	S.S. - 304	S.S - 316	S.S. - 304	S.S. - 316

Provided only for 4", 75 gpm
* Applicable for 4", 75 gpm and 6" 85 gpm to 300 gpm pump models.
^ 4" 5 gpm to 40 gpm pumps are provided with hexagonal shaft and other 4" & 6" pumps are with round shaft.

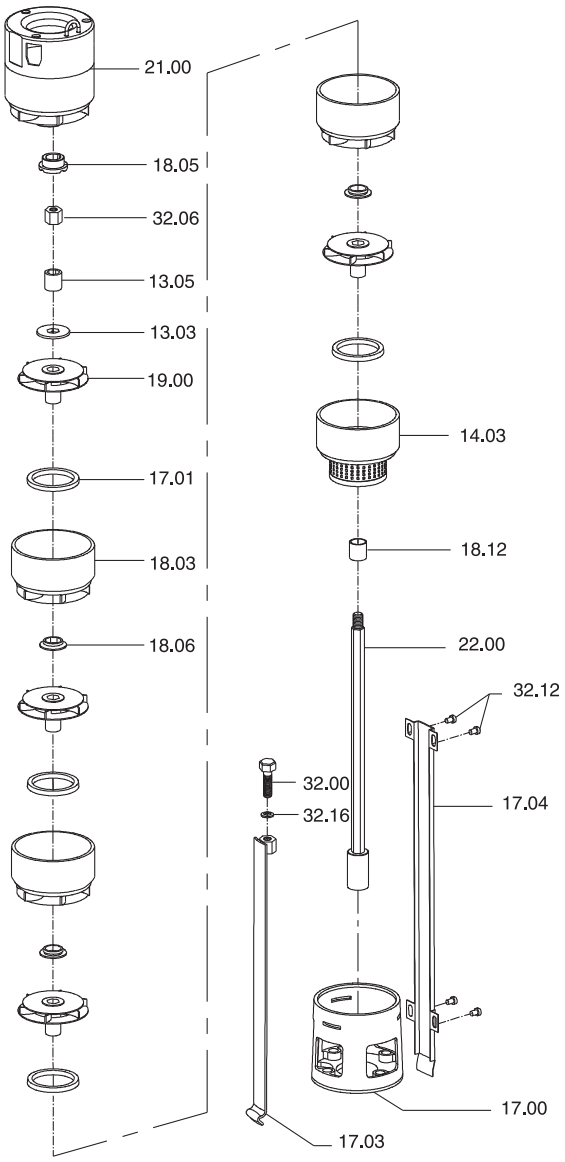
Note : VITON Components are optional

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GENERAL INFORMATION

Exploded View

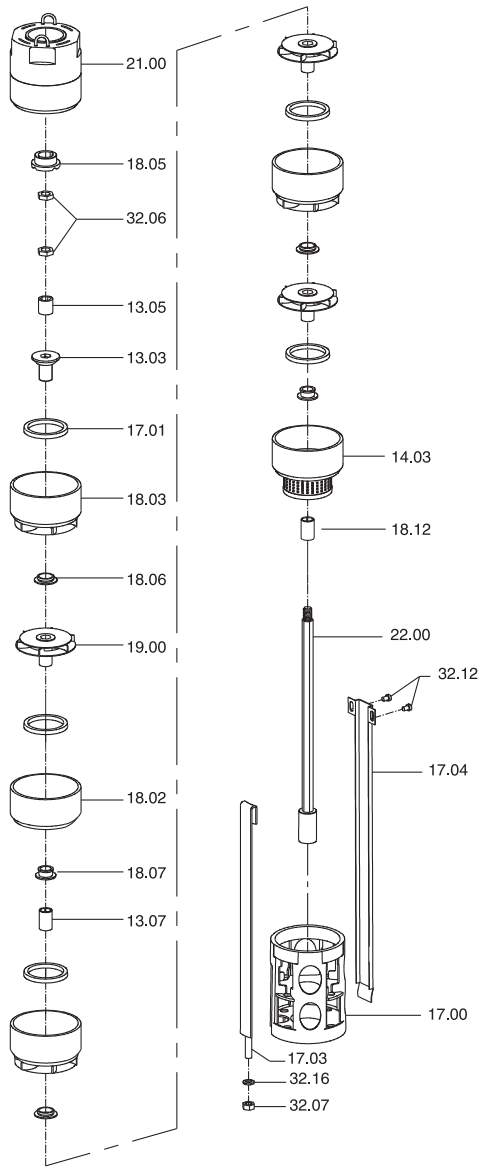
S4S-5 / S4S-10 / S4S-16 (Upto 29 Stages)



Part No.	Part Name
13.03	Upthrust Washer
13.05	Sleeve
14.03	Chamber-Inlet Screen
17.00	Suction Inter-connector
17.01	Wearing ring
17.03	Locking Straps
17.04	Cable Guard
18.03	Diffuser Chamber
18.05	Bush - CT Pad

Part No.	Part Name
18.06	Bush - Diffuser Chamber
18.12	Spacer Sleeve
19.00	Impeller
21.00	Check Valve Housing
22.00	Pump Shaft
32.00	Bolt
32.06	Lock Nut
32.12	Screw
32.16	Washer

S4S-5 / S4S-10 / S4S-16 (30 & above Stages)



Part No.	Part Name
13.03	Upthrust Sleeve
13.07	Sleeve - Bracket
13.05	Sleeve
14.03	Chamber-Inlet Screen
17.00	Suction Inter-connector
17.01	Wearing ring
17.03	Locking Straps
17.04	Cable Guard
18.02	Chamber - Bracket
18.03	Diffuser Chamber
18.05	Bush - CT Pad

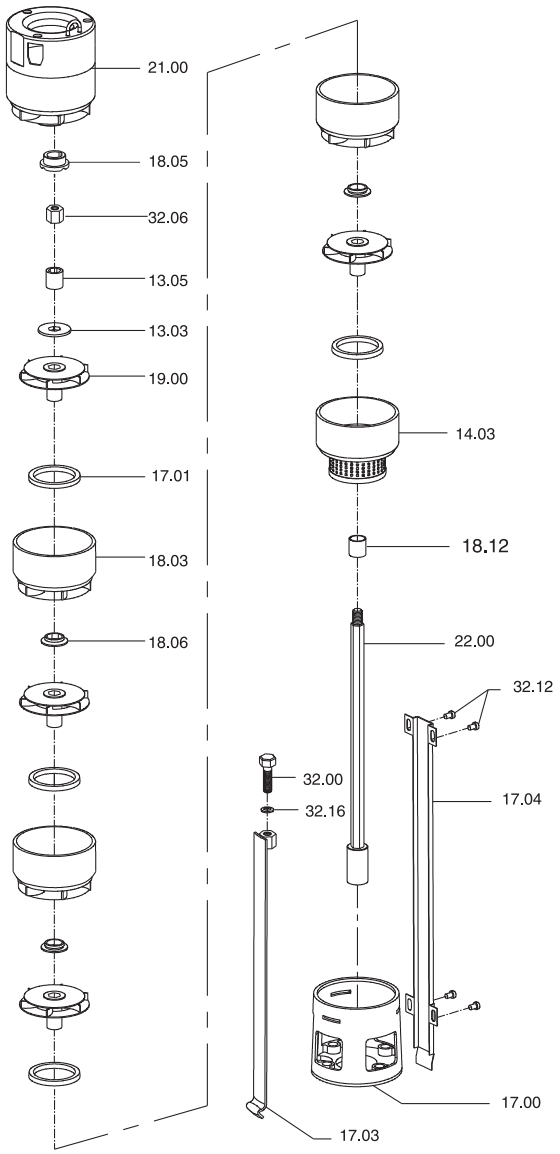
Part No.	Part Name
18.06	Bush - Diffuser Chamber
18.07	Bush - Bracket
18.12	Spacer Sleeve
19.00	Impeller
21.00	Check Valve Housing
22.00	Pump Shaft
32.06	Lock Nut
32.07	Nut
32.12	Screw
32.16	Washer

All mounting dimensions are in accordance with NEMA Standards

STAINLESS STEEL SERIES

Exploded View

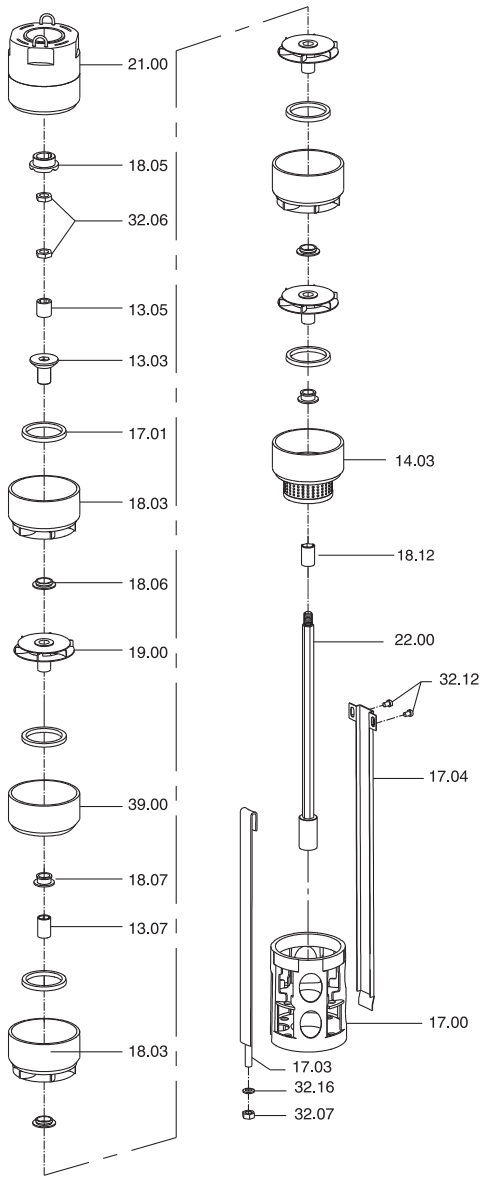
S4S-25 (Upto 25 Stages)



Part No.	Part Name
13.03	Upthrust Washer
13.05	Sleeve
14.03	Chamber-Inlet Screen
17.00	Suction Inter-connector
17.01	Wearing ring
17.03	Locking Straps
17.04	Cable Guard
18.03	Diffuser Chamber
18.05	Bush - CT Pad

Part No.	Part Name
18.06	Bush - Diffuser Chamber
18.12	Spacer Sleeve
19.00	Impeller
21.00	Check Valve Housing
22.00	Pump Shaft
32.00	Bolt
32.06	Lock Nut
32.12	Screw
32.16	Washer

S4S-25 (26 & Above Stages)



Part No.	Part Name
13.05	Sleeve
13.03	Upthrust Sleeve
13.07	Sleeve-Bracket
14.03	Chamber-Inlet Screen
17.00	Suction Inter-connector
17.01	Wear ring
17.03	Locking Straps
17.04	Cable Guard
18.03	Diffuser Chamber
18.05	Bush - CT Pad
18.06	Bush - Diffuser Chamber

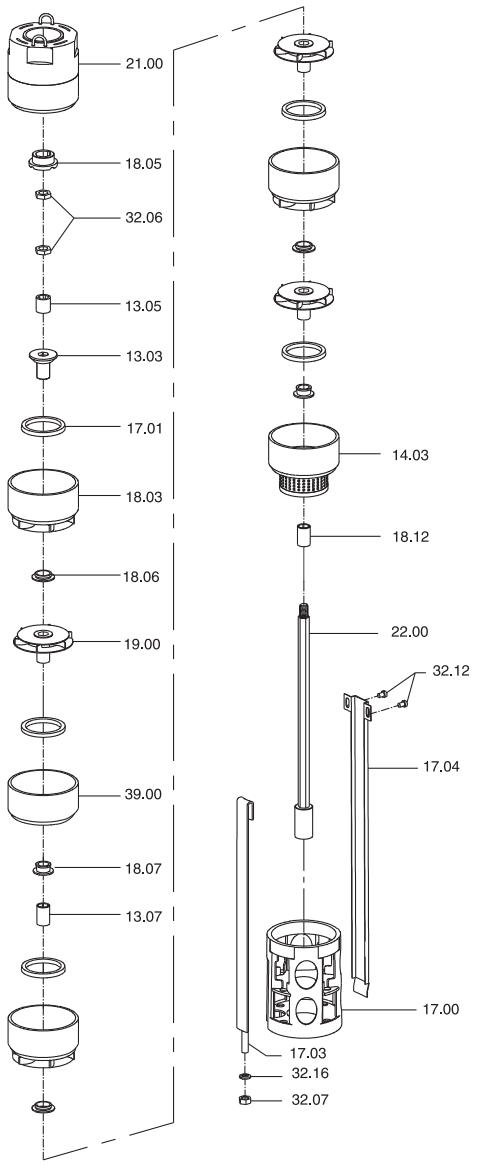
Part No.	Part Name
18.07	Bush - Bracket
18.12	Spacer Sleeve
19.00	Impeller
21.00	Check Valve Housing
22.00	Pump Shaft
32.06	Lock Nut
32.07	Nut
32.12	Screw
32.16	Washer
39.00	Chamber - Bracket

All mounting dimensions are in accordance with NEMA Standards

GENERAL INFORMATION

Exploded View

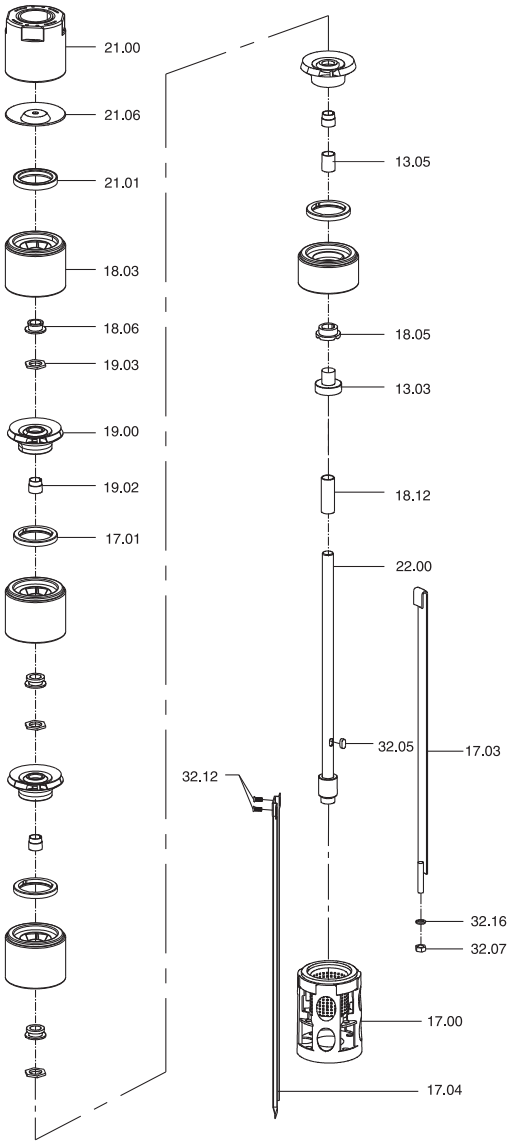
S4S-40



Part No.	Part Name
13.03	Upthrust Sleeve
13.05	Sleeve
13.07	Sleeve-Bracket
14.03	Chamber-Inlet Screen
17.00	Suction Inter-connector
17.01	Wear ring
17.03	Locking Straps
17.04	Cable Guard
18.03	Diffuser Chamber
18.05	Bush - CT Pad
18.06	Bush - Diffuser Chamber

Part No.	Part Name
18.07	Bush - Bracket
18.12	Spacer Sleeve
19.00	Impeller
21.00	Check Valve Housing
22.00	Pump Shaft
39.00	Chamber - Bracket
32.06	Lock Nut
32.07	Nut
32.12	Screw
32.16	Washer

S4S-75



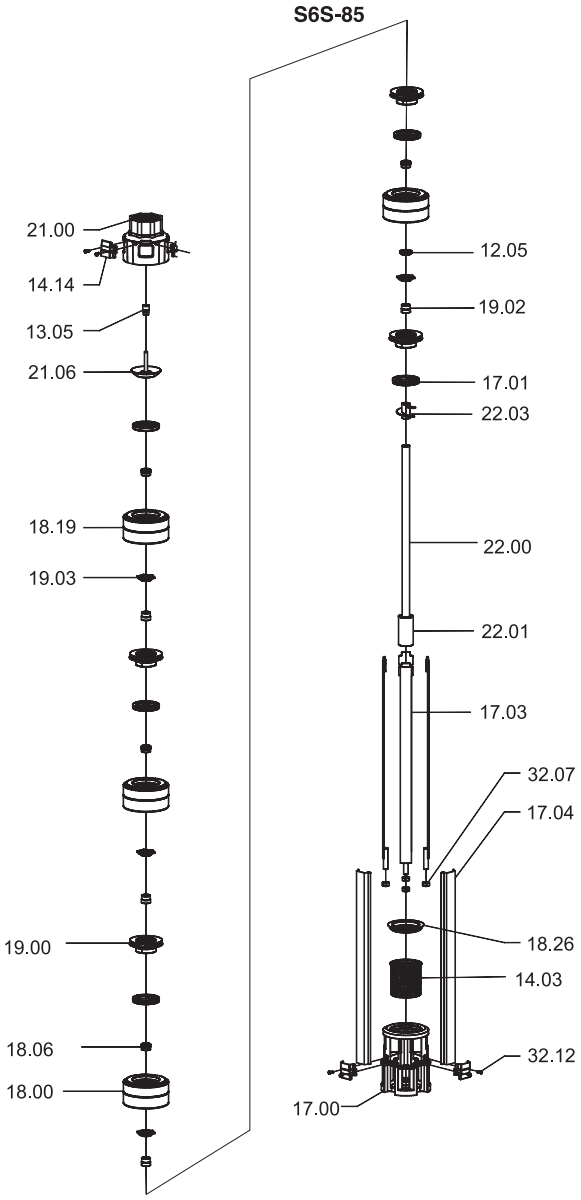
Part No.	Part Name
13.03	Upthrust Sleeve
13.05	Sleeve
17.00	Suction Inter-connector
17.01	Wear ring
17.03	Locking Straps
17.04	Cable Guard
18.03	Diffuser Chamber
18.05	Bush - CT Pad
18.06	Bush - Diffuser Chamber
18.12	Spacer Sleeve
19.00	Impeller

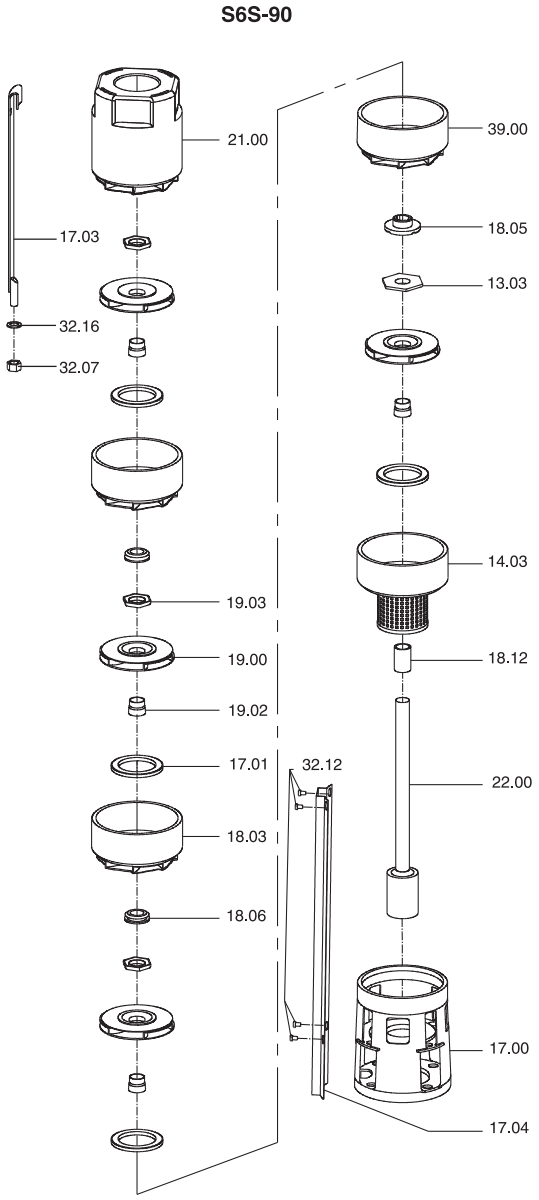
Part No.	Part Name
19.02	Split Cone
19.03	Split Cone Nut
21.00	Check Valve Housing
21.01	Check Valve Seat
21.06	Check Valve Disc
22.00	Pump Shaft
32.05	Key
32.07	Nut
32.12	Screw
32.16	Washer

All mounting dimensions are in accordance with NEMA Standards

STAINLESS STEEL SERIES

Exploded View





Part No.	Part Name
12.05	Counter Thrust Ring
13.05	Sleeve
14.03	Strainer
14.14	Cable Clamp
17.00	Suction Inter Connector
17.01	Wearing ring
17.03	Locking Strap-Pump
17.04	Cable Guard
18.00	Chamber -Rubber bush
18.06	Bush - Rubber
18.19	Chamber - Top

Part No.	Part Name
18.26	Wearing ring Guide
19.00	Impeller
19.02	Split Cone
19.03	Split Cone Nut
21.00	Valve Housing
21.06	Valve Disc
22.00	Pump Shaft
22.01	Coupling
22.03	Priming sleeve
32.06	Lock Nut
32.07	Nut
32.12	Screw

Part No.	Part Name
13.03	Upthrust Washer
14.03	Chamber Inlet Screen
17.00	Suction Inter-connector
17.01	Wear ring
17.03	Locking Straps
17.04	Cable Guard
18.03	Diffuser Chamber
18.05	Bush - CT Pad
18.06	Bush - Diffuser Chamber
18.12	Spacer Sleeve

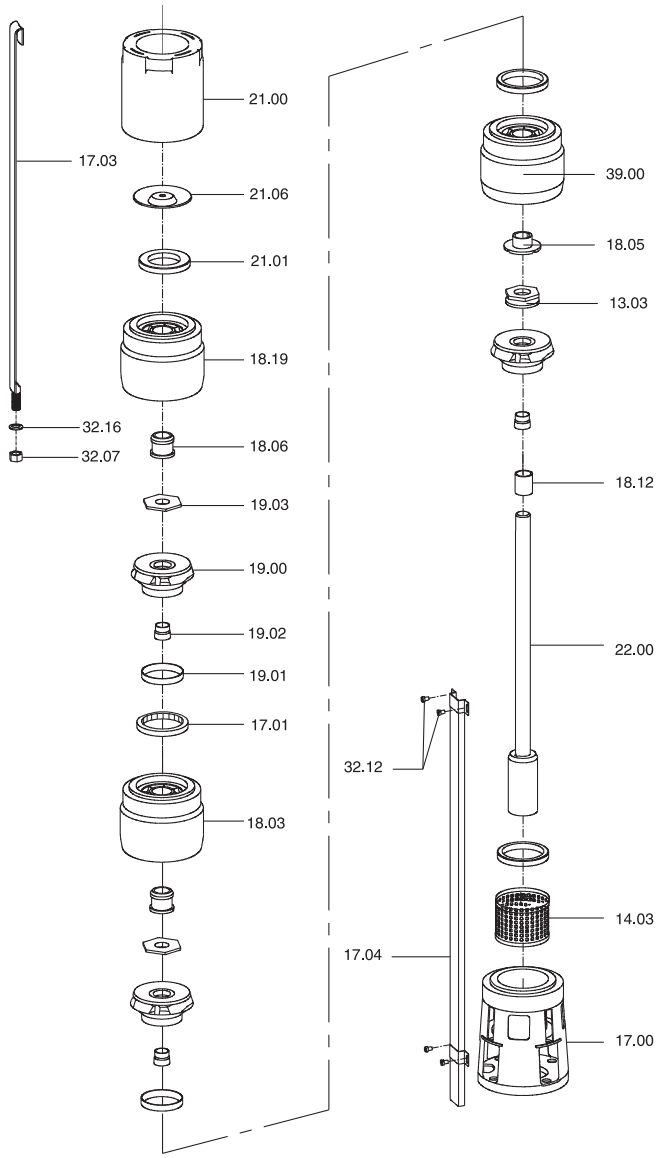
Part No.	Part Name
19.00	Impeller
19.02	Split Cone
19.03	Split Cone Nut
21.00	Check Valve Housing
22.00	Pump Shaft
32.07	Nut
32.12	Screw
32.16	Washer
39.00	Chamber - Bracket

All mounting dimensions are in accordance with NEMA Standards

GENERAL INFORMATION

Exploded View

S6S-150 / S6S-240 / S6S-300

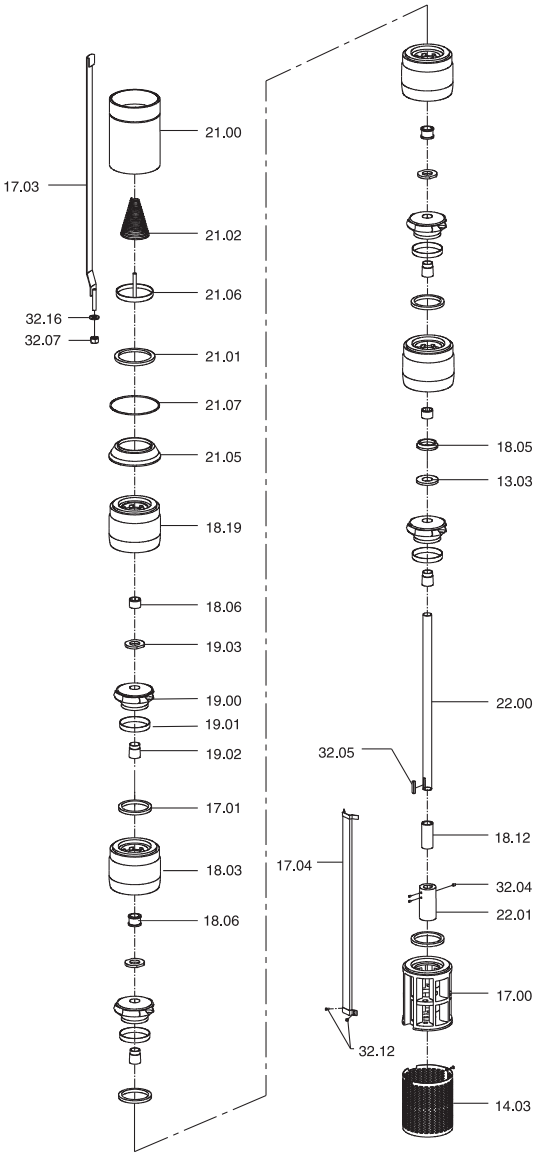


Part No.	Part Name
13.03	Upthrust Washer
14.03	Inlet Screen
17.00	Suction Inter-connector
17.01	Wear ring
17.03	Locking Straps
17.04	Cable Guard
18.05	Bush - CT Pad
18.06	Bush - Diffuser Chamber
18.03	Diffuser Chamber
18.12	Spacer Sleeve
18.19	Diffuser Chamber Top
19.00	Impeller

Part No.	Part Name
19.01	Neck Ring
19.02	Split Cone
19.03	Split Cone Nut
21.00	Check Valve Housing
21.01	Check Valve Seat
21.06	Check Valve Disc
22.00	Pump Shaft
32.07	Nut
32.12	Screw
32.16	Washer
39.00	Chamber - Bracket

All mounting dimensions are in accordance with NEMA Standards

S8S-390 / S8S-475 / S10S-625 / S10S-800 / S10S-A75



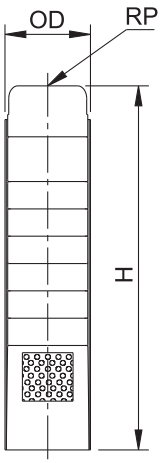
Part No.	Part Name
13.03	Upthrust Washer
14.03	Inlet Screen
17.00	Suction Inter-connector
17.01	Wear ring
17.03	Locking Straps
17.04	Cable Guard
18.03	Diffuser Chamber
18.05	Bush - CT Pad
18.06	Bush - Diffuser Chamber
18.12	Spacer Sleeve
18.19	Diffuser Chamber Top
19.01	Neck Ring
19.02	Split Cone
19.00	Impeller

Part No.	Part Name
19.03	Split Cone Nut
21.00	Check Valve Housing
21.01	Check Valve Seat
21.02	Check Valve Spring
21.05	Check Valve bracket
21.06	Check valve Disc
21.07	O-Ring
22.00	Pump Shaft
22.01	* Coupling
32.04	Crub Screw
32.05	Key
32.07	Nut
32.12	Screw
32.16	Washer

* Upto 125HP - Splines coupling
150HP & Above - Keyway coupling (standard)
Splines coupling (optional)

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **5 gpm** | Outlet Size : **1" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4S-5-09	0.18/0.37	0.25 / 0.5	3.82	1	14.06	8
S4S-5-13	0.37	0.5	3.82	1	17.52	10
S4S-5-18	0.55	0.75	3.82	1	21.85	14
S4S-5-22	0.75	1	3.82	1	25.31	17
S4S-5-26	1.1	1.5	3.82	1	28.78	20
S4S-5-31	1.1	1.5	3.82	1	38.35	23
S4S-5-39	1.5	2	3.82	1	45.91	33
S4S-5-48	2.2	3	3.82	1	55.35	40
S4S-5-75	3.7	5	3.82	1	87.90	71

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	1.5	3	4	5	6	7	8
			m^3/h	0	0.3	0.7	0.9	1.1	1.4	1.6	1.8
S4S-5-09	0.25/0.5	HEAD IN FEET		260	241	223	201	180	160	130	100
S4S-5-13	0.5			370	340	318	288	258	225	188	146
S4S-5-18	0.75			496	468	423	381	359	300	250	200
S4S-5-22	1			632	582	536	479	433	370	300	238
S4S-5-26	1.5			729	682	636	575	510	440	358	275
S4S-5-31	1.5			823	762	691	638	562	475	388	300
S4S-5-39	2			1040	999	923	850	761	654	550	428
S4S-5-48	3			1375	1321	1219	1107	977	838	670	477
S4S-5-75	5			1990	1845	1664	1536	1370	1120	884	653

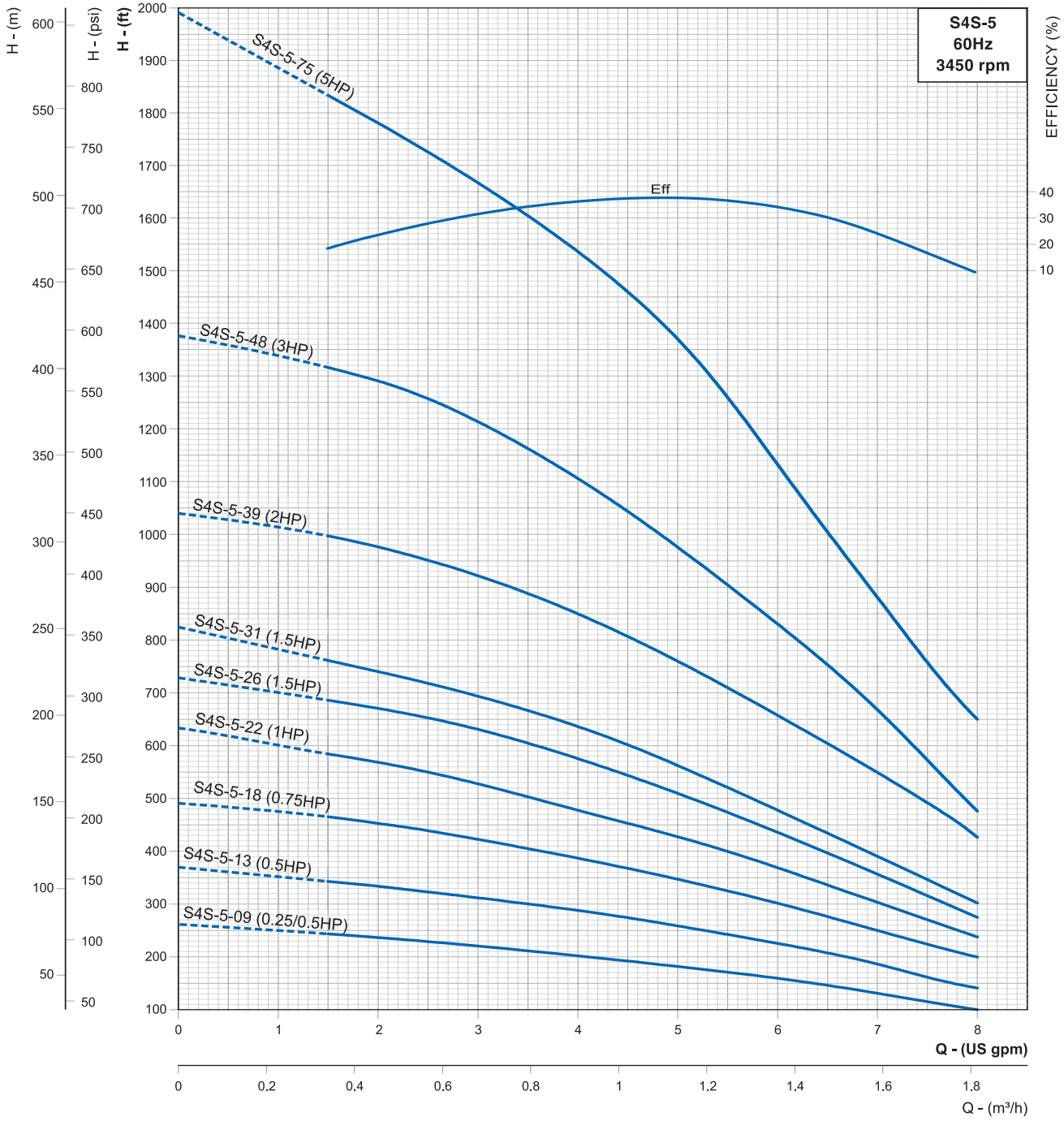
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **5 gpm** | Outlet Size : **1" NPT**

PERFORMANCE CURVES

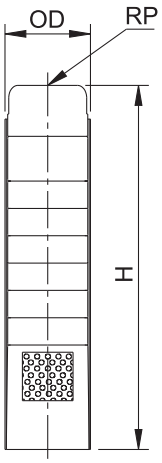
FLOW RANGE : 1.5 - 8 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **7 gpm** | Outlet Size : **1" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4S-7-08	0.18/0.37	0.25/0.5	3.82	1	13.19	8
S4S-7-11	0.37	0.5	3.82	1	15.79	9
S4S-7-15	0.55	0.75	3.82	1	19.25	12
S4S-7-19	0.75	1	3.82	1	22.72	14
S4S-7-26	1.1	1.5	3.82	1	28.78	20
S4S-7-32	1.5	2	3.82	1	39.29	24

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	3	5	6	7	8	9	11
			m^3/h	0	0.7	1.1	1.4	1.6	1.8	2	2.5
S4S-7-08	0.25/0.5	HEAD IN FEET		235	212	190	180	165	150	135	92
S4S-7-11	0.5			309	262	228	212	192	172	150	104
S4S-7-15	0.75			398	367	320	298	270	240	210	138
S4S-7-19	1			520	473	425	397	364	325	285	192
S4S-7-26	1.5			690	629	567	515	482	430	379	250
S4S-7-32	2			890	789	697	645	590	529	464	318

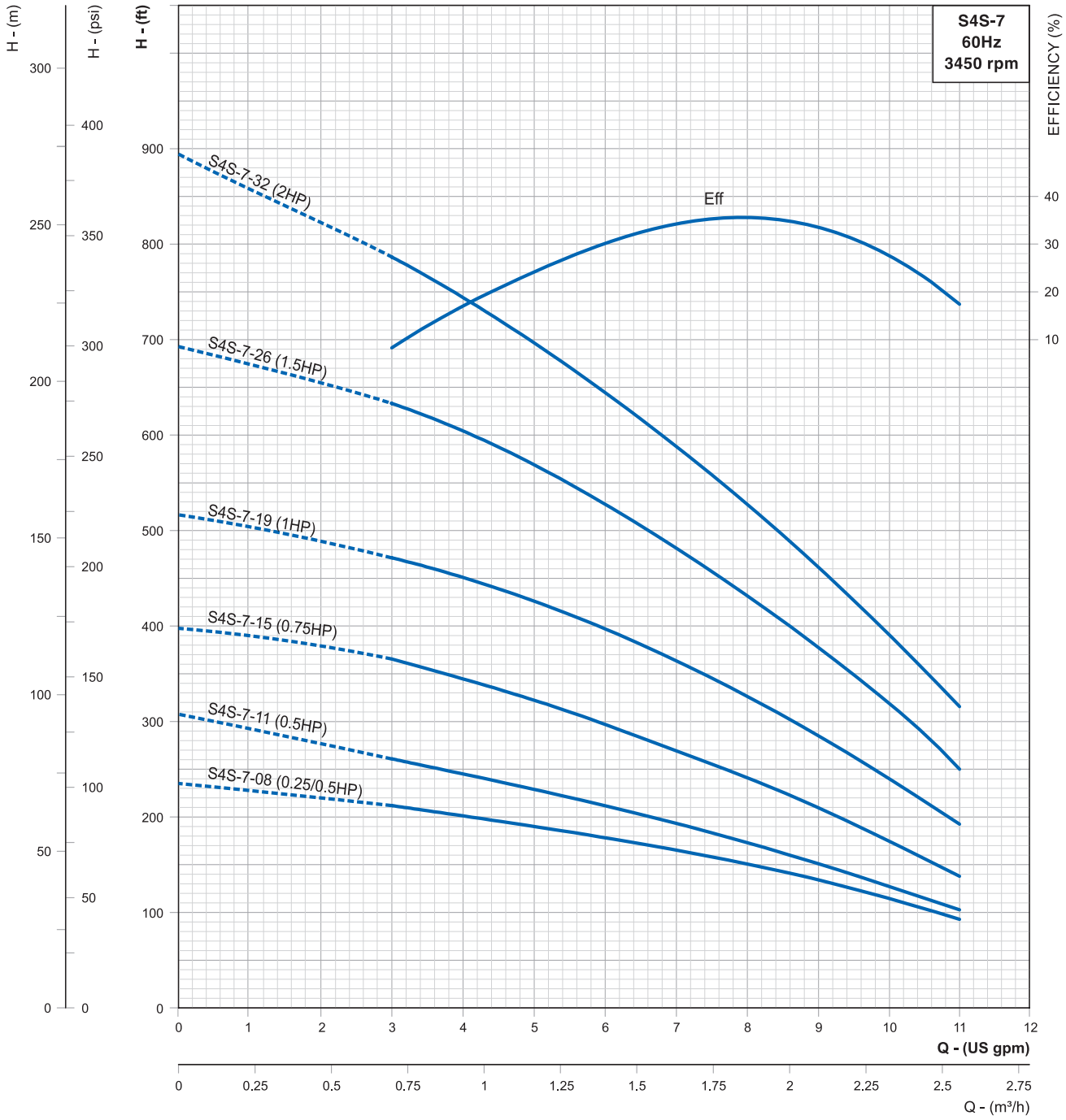
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **7 gpm** | Outlet Size : **1" NPT**

PERFORMANCE CURVES

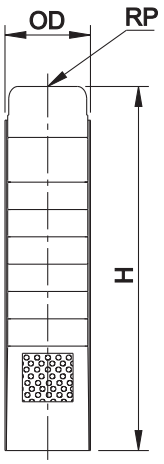
FLOW RANGE : 3 - 11 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **10 gpm** | Outlet Size : **1¼" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4S-10-06	0.18/0.37	0.25/0.5	3.82	1¼	11.46	6
S4S-10-09	0.37	0.5	3.82	1¼	14.06	7
S4S-10-12	0.55	0.75	3.82	1¼	16.65	9
S4S-10-15	0.75	1	3.82	1¼	19.25	11
S4S-10-21	1.1	1.5	3.82	1¼	24.41	15
S4S-10-27	1.5	2	3.82	1¼	29.65	17
S4S-10-34	2.2	3	3.82	1¼	41.18	27
S4S-10-48	3.7	5	3.82	1¼	54.41	37
S4S-10-58	3.7	5	3.82	1¼	63.86	46
S4S-10-75	5.5	7.5	3.82	1¼	85.00	54

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	4.75	6	8	9	10	12	15
			m³/h	0	1.1	1.4	1.8	2	2.3	2.7	3.4
S4S-10-06	0.25/0.5	HEAD IN FEET		191	178	169	150	143	120	90	40
S4S-10-09	0.5			280	280	250	221	200	185	130	55
S4S-10-12	0.75			375	300	280	247	219	200	170	70
S4S-10-15	1			445	380	371	322	300	277	200	87
S4S-10-21	1.5			628	564	542	478	432	386	297	125
S4S-10-27	2			786	725	700	635	585	535	428	188
S4S-10-34	3			975	925	895	805	750	700	550	237
S4S-10-48	5			1435	1220	1160	1025	941	850	660	265
S4S-10-58	5			1785	1596	1515	1375	1278	1150	865	375
S4S-10-75	7.5			2180	1924	1829	1684	1591	1500	1280	820

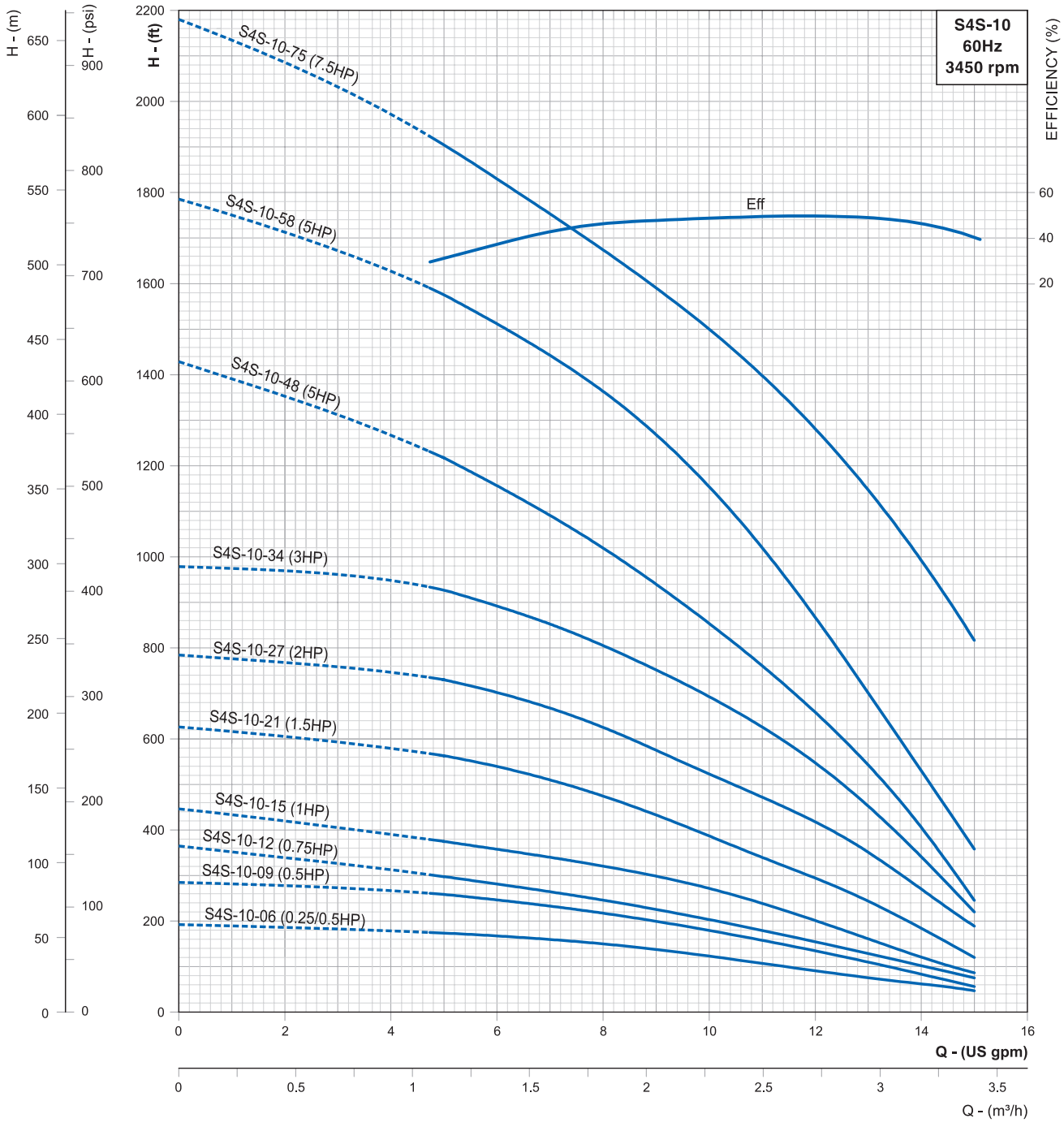
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **10 gpm** | Outlet Size : **1¼" NPT**

PERFORMANCE CURVES

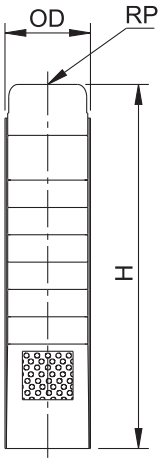
FLOW RANGE : 4.75 - 15 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **16 gpm** | Outlet Size : **1¼" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4S-16-05	0.37	0.5	3.82	1¼	10.59	6
S4S-16-08	0.55	0.75	3.82	1¼	13.19	7
S4S-16-10	0.75	1	3.82	1¼	14.92	8
S4S-16-14	1.1	1.5	3.82	1¼	18.39	11
S4S-16-18	1.5	2	3.82	1¼	21.85	13
S4S-16-21	2.2	3	3.82	1¼	24.45	15
S4S-16-24	2.2	3	3.82	1¼	27.05	17
S4S-16-29	3/3.7	4/5	3.82	1¼	31.38	19
S4S-16-33	3.7	5	3.82	1¼	40.24	27

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	8	12	14	16	18	20	22
			m^3/h	0	1.8	2.7	3.2	3.6	4.1	4.5	5
S4S-16-05	0.5	HEAD IN FEET		150	137	127	120	110	90	80	50
S4S-16-08	0.75			240	208	190	180	170	145	116	80
S4S-16-10	1			300	280	270	250	230	190	150	120
S4S-16-14	1.5			415	380	350	340	299	260	201	160
S4S-16-18	2			540	483	445	420	380	330	264	180
S4S-16-21	3			640	579	530	480	445	380	310	240
S4S-16-24	3			700	647	590	550	490	430	350	260
S4S-16-29	4/5			798	760	680	640	560	486	396	290
S4S-16-33	5			940	890	810	750	670	570	457	340

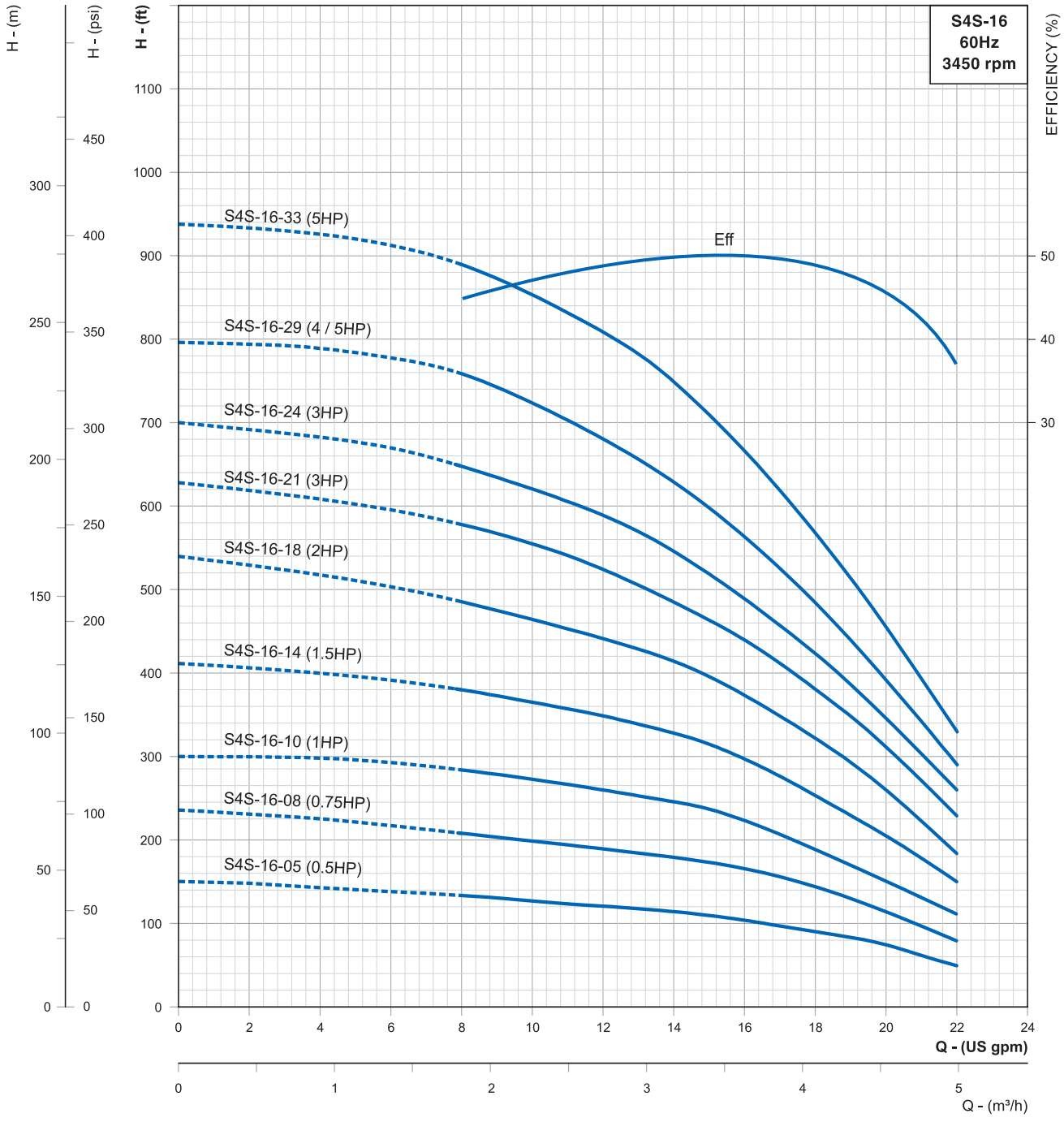
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **16 gpm** | Outlet Size : **1¼" NPT**

PERFORMANCE CURVES

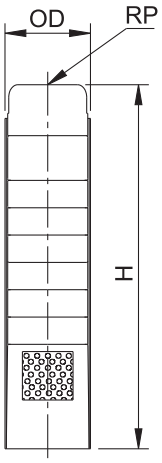
FLOW RANGE : 8 - 22 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **16 gpm** | Outlet Size : **1¼" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4S-16-38	3.7	5	3.82	1¼	44.96	30
S4S-16-42	4.5/5.5	6/7.5	3.82	1¼	49.69	34
S4S-16-46	4.5/5.5	6/7.5	3.82	1¼	53.46	36
S4S-16-51	5.5	7.5	3.82	1¼	58.19	39
S4S-16-56	5.5	7.5	3.82	1¼	61.97	43
S4S-16-60	5.5	7.5	3.82	1¼	67.64	46
S4S-16-65	7.5	10	3.82	1¼	72.36	52
S4S-16-70	7.5	10	3.82	1¼	77.09	55
S4S-16-75	7.5	10	3.82	1¼	81.81	59
S4S-16-110	11	15	3.82	1¼	120.00	86

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	8	12	14	16	18	20	22
			m³/h	0	1.8	2.7	3.2	3.6	4.1	4.5	5
S4S-16-38	5	HEAD IN FEET		1100	1023	929	860	780	671	540	389
S4S-16-42	6/7.5			1254	1147	1040	960	862	740	600	436
S4S-16-46	6/7.5			1392	1286	1051	1060	945	810	651	480
S4S-16-51	7.5			1543	1410	1269	1170	1050	900	724	550
S4S-16-56	7.5			1672	1517	1369	1260	1140	990	848	600
S4S-16-60	7.5			1780	1600	1461	1360	1244	1095	900	680
S4S-16-65	10			1923	1720	1544	1455	1332	1180	992	771
S4S-16-70	10			2083	1857	1684	1574	1448	1280	1089	860
S4S-16-75	10			2220	2000	1824	1700	1560	1440	1180	952
S4S-16-110	15			3366	3147	3070	2957	2790	2490	2178	1864

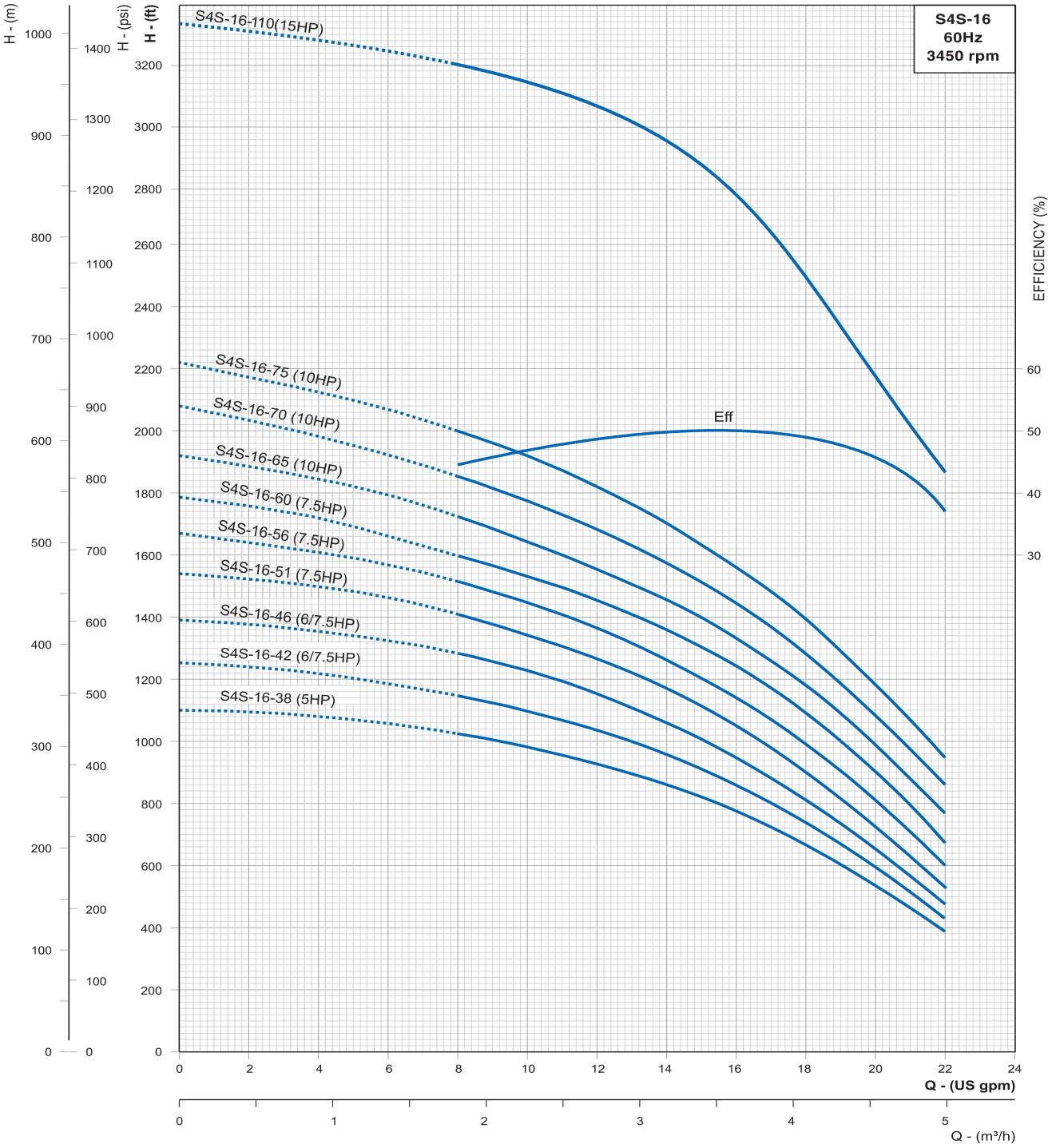
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **16 gpm** | Outlet Size : **1¼" NPT**

PERFORMANCE CURVES

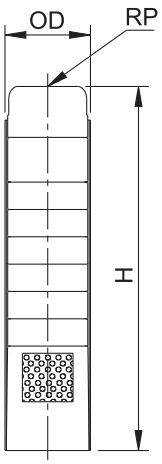
FLOW RANGE : 8 - 22 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **25 gpm** | Outlet Size : **1½" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4S-25-03	0.37	0.5	3.82	1½	9.09	5
S4S-25-05	0.55	0.75	3.82	1½	10.91	6
S4S-25-07	0.75	1	3.82	1½	12.87	7
S4S-25-09	1.1	1.5	3.82	1½	14.69	9
S4S-25-11	1.5	2	3.82	1½	16.42	9
S4S-25-15	2.2	3	3.82	1½	20.20	12
S4S-25-21	3/3.7	4/5	3.82	1½	26.10	15
S4S-25-26	3.7	5	3.82	1½	33.62	21
S4S-25-39	5.5	7.5	3.82	1½	45.91	31
S4S-25-52	7.5	10	3.82	1½	59.13	40

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	14	18	22	25	28	32	36
			m³/h	0	3.2	4.1	5	5.7	6.4	7.3	8.2
S4S-25-03	0.5	HEAD IN FEET		90	75	68	64	60	50	40	25
S4S-25-05	0.75			140	116	115	100	96	80	75	36
S4S-25-07	1			200	172	160	148	138	122	97	65
S4S-25-09	1.5			278	249	235	220	200	175	147	105
S4S-25-11	2			350	300	288	270	247	223	177	136
S4S-25-15	3			472	401	379	357	335	300	247	180
S4S-25-21	4/5			640	533	500	469	434	391	336	260
S4S-25-26	5			786	675	640	587	542	477	392	298
S4S-25-39	7.5			1180	1006	937	847	780	704	597	469
S4S-25-52	10			1586	1302	1230	1125	1038	950	766	585

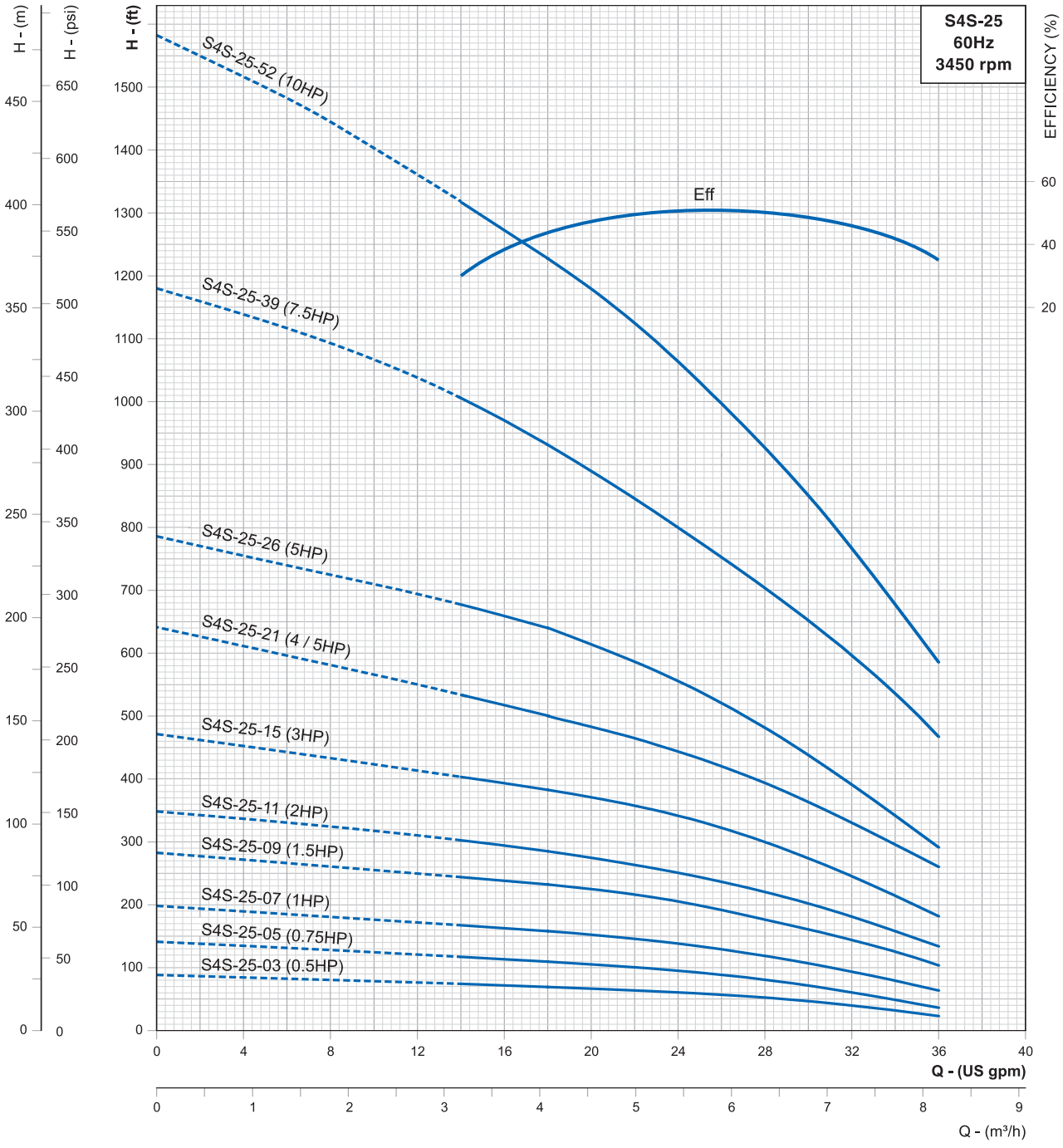
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **25 gpm** | Outlet Size : **1½" NPT**

PERFORMANCE CURVES

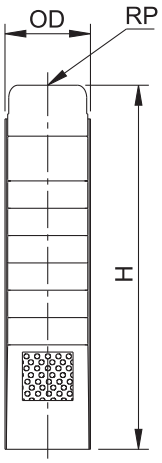
FLOW RANGE : 14 - 36 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **40 gpm** | Outlet Size : **2" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4S-40-03	0.75	1	3.82	2	13.31	9
S4S-40-05	1.1	1.5	3.82	2	16.14	10
S4S-40-07	1.5	2	3.82	2	18.98	11
S4S-40-09	2.2	3	3.82	2	21.81	13
S4S-40-12	3.7	5	3.82	2	26.06	16
S4S-40-15	3.7	5	3.82	2	30.31	19
S4S-40-18	5.5	7.5	3.82	2	34.57	22
S4S-40-21	5.5	7.5	3.82	2	38.74	25
S4S-40-25	5.5	7.5	3.82	2	45.35	29
S4S-40-30	7.5	10	3.82	2	52.44	33
S4S-40-37	9.3/11	12.5/15	3.82	2	62.36	40
S4S-40-44	11	13/15	3.82	2	73.23	49
S4S-40-50	13/15	17.5/20	3.82	2	81.73	56
S4S-40-58	15	20	3.82	2	93.07	61
S4S-40-66	15	20	3.82	2	104.41	67

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	26	30	35	40	45	50	55
			m^3/h	0	5.9	6.8	7.9	9.1	10.2	11.4	12.7
S4S-40-03	1	HEAD IN FEET		88	70	62	58	48	40	30	20
S4S-40-05	1.5			158	122	120	110	100	90	80	60
S4S-40-07	2			212	184	170	160	150	135	115	100
S4S-40-09	3			280	222	220	200	180	160	148	126
S4S-40-12	5			370	302	296	270	260	226	200	178
S4S-40-15	5			440	398	375	360	325	296	267	223
S4S-40-18	7.5			540	468	448	420	390	358	310	260
S4S-40-21	7.5			650	540	513	490	458	420	386	325
S4S-40-25	7.5			750	640	606	577	540	496	440	390
S4S-40-30	10			910	750	715	678	625	585	522	460
S4S-40-37	12.5/15			1015	825	800	770	720	660	589	500
S4S-40-44	15			1210	995	950	906	859	785	699	599
S4S-40-50	17.5/20			1377	1121	1183	1030	977	900	800	696
S4S-40-58	20			1590	1307	1270	1205	1130	1040	930	800
S4S-40-66	20			1810	1515	1420	1375	1280	1179	1037	899

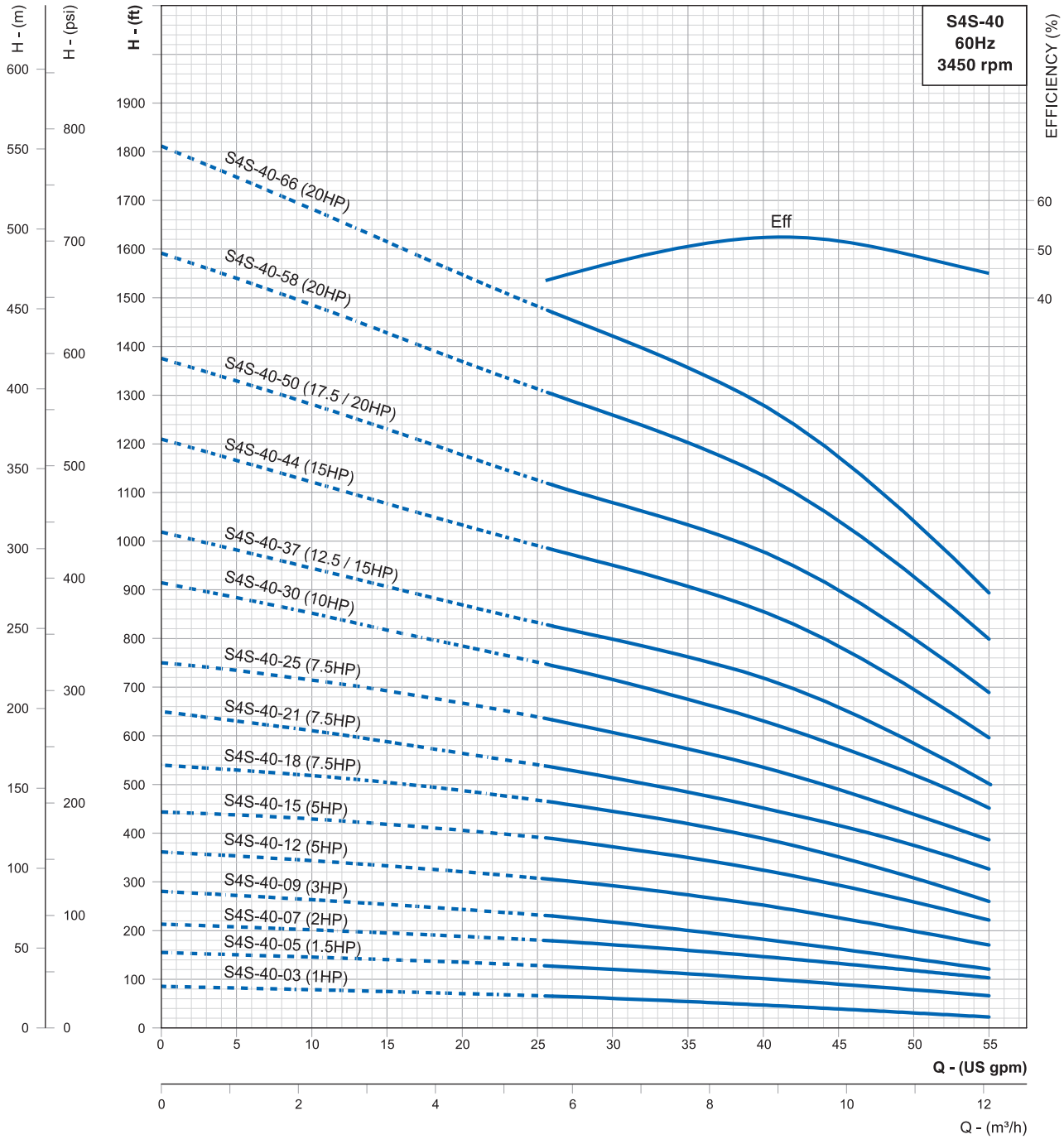
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **40 gpm** | Outlet Size : **2" NPT**

PERFORMANCE CURVES

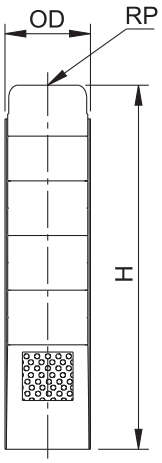
FLOW RANGE : 26 - 55 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **75 gpm** | Outlet Size : **2" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4S-75-03	1.5	2	3.82	2	17.44	11
S4S-75-05	2.2	3	3.82	2	22.56	14
S4S-75-07	3.7	5	3.82	2	27.68	17
S4S-75-08	3.7	5	3.82	2	30.24	18
S4S-75-10	5.5	7.5	3.82	2	35.35	22
S4S-75-12	5.5	7.5	3.82	2	40.47	25
S4S-75-14	7.5	10	3.82	2	45.59	28
S4S-75-16	7.5	10	3.82	2	50.71	31

PERFORMANCE TABLE

PUMP MODEL	HP	gpm	0	40	50	60	70	75	80	90
		m^3/h	0	9.1	11.4	13.6	15.9	17	18.2	20.4
S4S-75-03	2	HEAD IN FEET	99	87	82	77	68	62	57	47
S4S-75-05	3		158	149	140	130	115	107	98	80
S4S-75-07	5		220	202	192	173	158	149	130	108
S4S-75-08	5		258	235	222	208	188	178	162	135
S4S-75-10	7.5		320	292	276	254	229	216	200	167
S4S-75-12	7.5		379	349	330	308	278	264	247	210
S4S-75-14	10		440	404	383	357	327	310	288	248
S4S-75-16	10		507	463	440	410	373	355	332	281

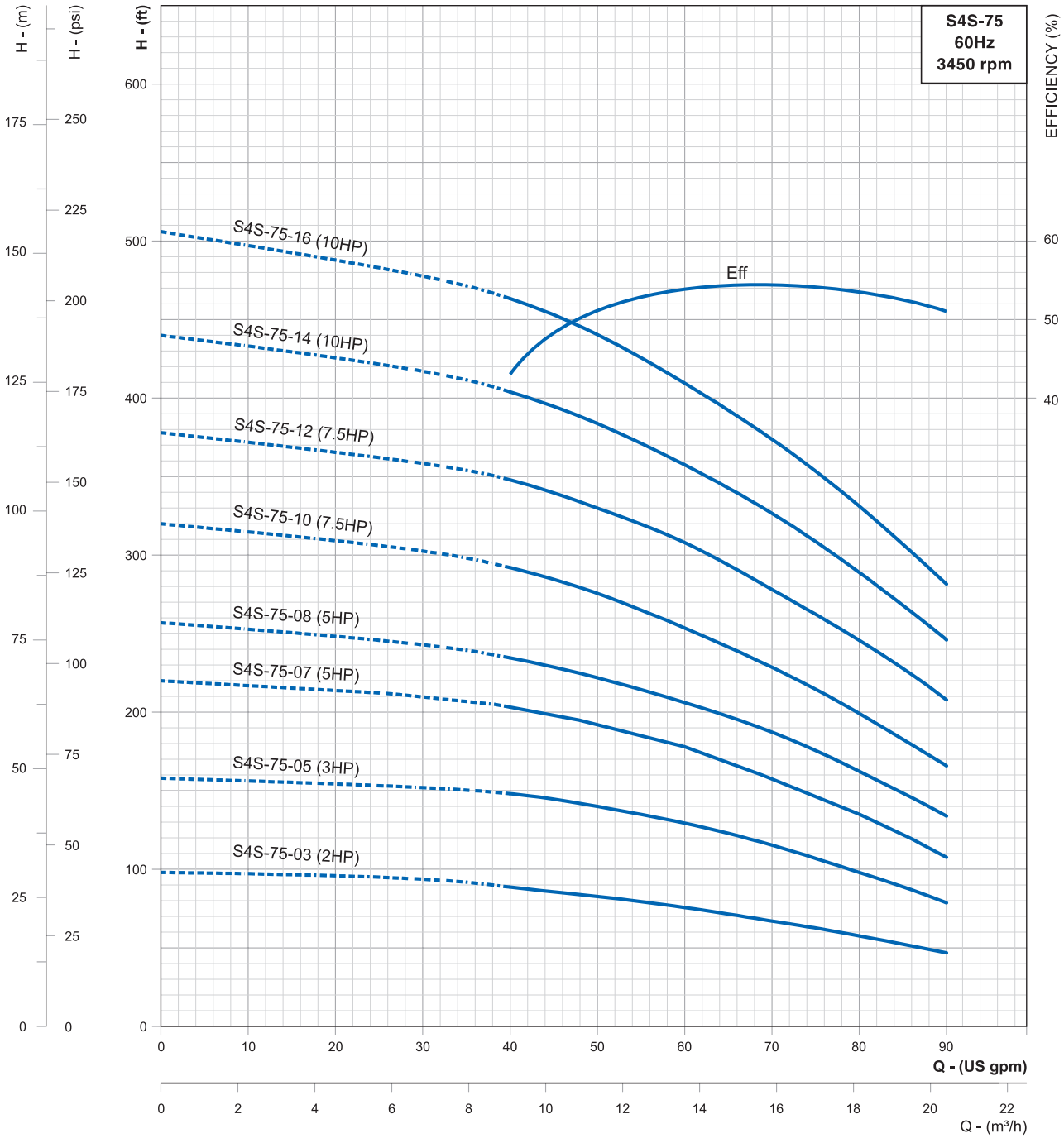
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **4"** | Nominal Flow : **75 gpm** | Outlet Size : **2" NPT**

PERFORMANCE CURVES

FLOW RANGE : 40 - 90 gpm

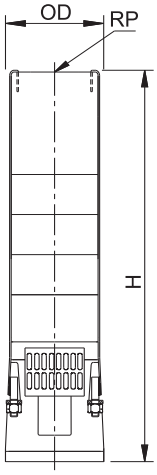


Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **85 gpm** | Outlet Size : **2½"/3"* NPT**

New



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S6S-85-01	1.1	1.5	1	5.7	2½	13	27
S6S-85-02	2.2	3	1	5.7	2½	15	35
S6S-85-03	3.7	5	1	5.7	2½	17	34
S6S-85-04	3.7	5	1	5.7	2½	20	44
S6S-85-05	5.5	7.5	1 / 2	5.7	2½	22	48
S6S-85-06	5.5	7.5	1 / 2	5.7	2½	24	53
S6S-85-07	7.5	10	1 / 2	5.7	2½	27	63
S6S-85-08	7.5	10	1 / 2	5.7	2½	30	68
S6S-85-09	7.5	10	1 / 2	5.7	2½	32	77
S6S-85-10	11	15	1 / 2	5.7	2½	34	82
S6S-85-11	11	15	1 / 2	5.7	2½	37	92
S6S-85-12	11	15	1 / 2	5.7	2½	39	97
S6S-85-13	11	15	1 / 2	5.7	2½	41	106
S6S-85-14	15	20	1 / 2	5.7	2½	44	114
S6S-85-15	15	20	1 / 2	5.7	2½	46	119
S6S-85-16	15	20	1 / 2	5.7	2½	48	123

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	30	50	60	70	80	90	110
			m³/h	0	7	11	14	16	18	20	25
S6S-85-01	1.5	HEAD IN FEET		56	54	49	46	39	38	35	22
S6S-85-02	3			106	103	97	94	86	78	74	53
S6S-85-03	5			156	155	146	136	114	118	108	78
S6S-85-04	5			210	208	194	186	175	159	126	109
S6S-85-05	7.5			261	257	245	233	221	204	186	137
S6S-85-06	7.5			310	308	291	277	262	241	220	161
S6S-85-07	10			364	358	334	329	308	284	271	194
S6S-85-08	10			412	407	388	371	349	326	293	215
S6S-85-09	10			461	454	431	410	388	363	328	220
S6S-85-10	15			518	509	485	466	456	407	369	274
S6S-85-11	15			566	560	532	507	477	425	404	298
S6S-85-12	15			620	612	582	559	526	487	444	325
S6S-85-13	15			668	660	629	601	566	524	475	335
S6S-85-14	20			722	717	681	654	619	572	502	388
S6S-85-15	20			774	762	721	698	659	609	553	414
S6S-85-16	20			822	817	783	751	707	658	600	447
S6S-85-17	20			876	868	829	793	749	696	632	471
S6S-85-18	20			926	915	873	836	789	734	662	494

* Optional outlet size.

Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N". The given performance curves are same for Type - S & N.

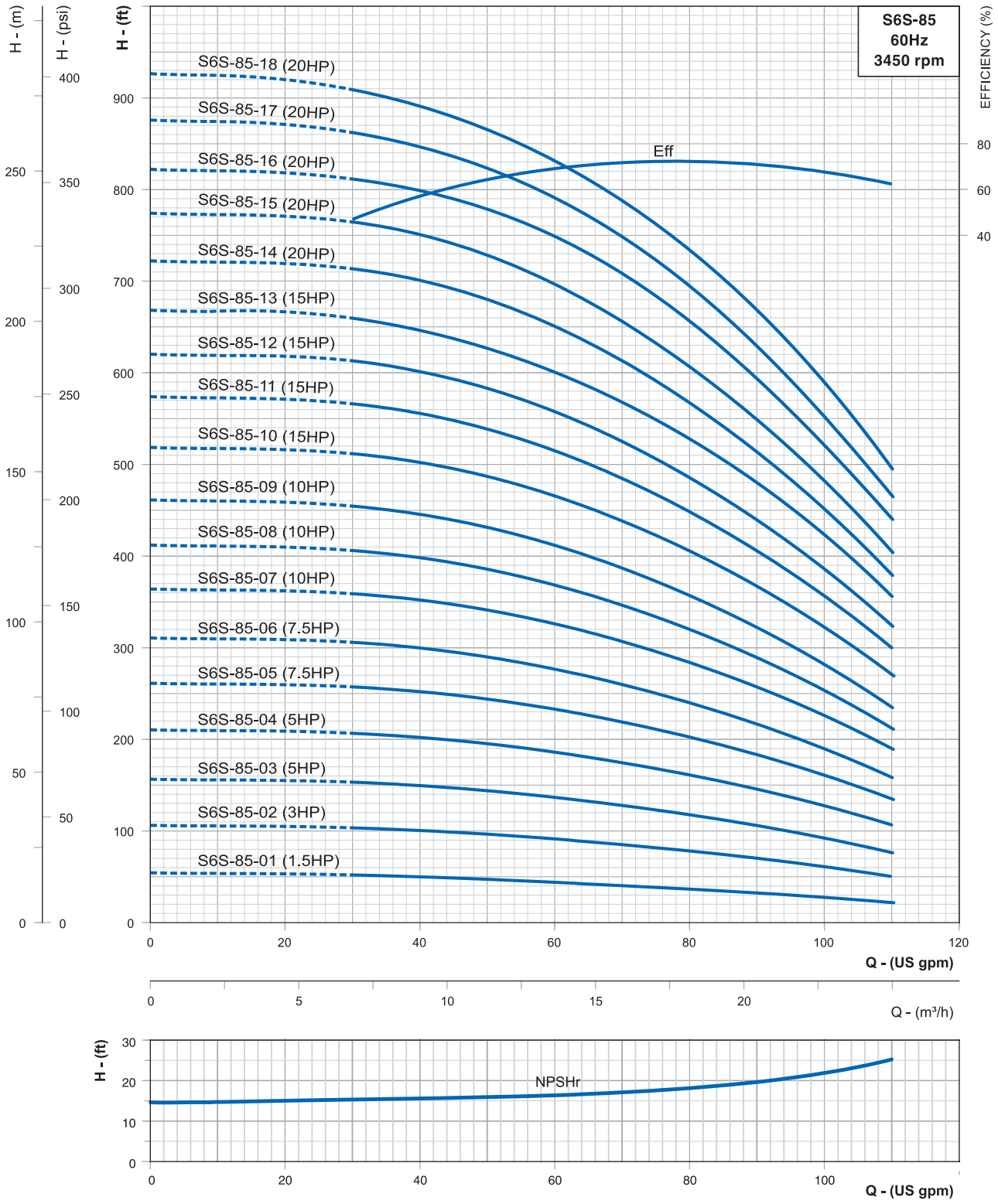
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **85 gpm** | Outlet Size : **2½"/3"* NPT**

PERFORMANCE CURVES

FLOW RANGE : 30 - 110 gpm

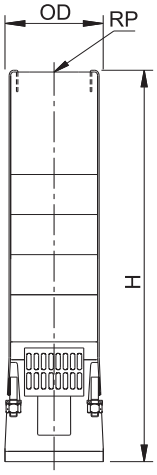


Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **85 gpm** | Outlet Size : **2½"/3"* NPT**

New



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S6S-85-17	15	20	1 / 2	5.7	2½	51	128
S6S-85-18	15	20	1 / 2	5.7	2½	53	133
S6S-85-19	18.5	25	1 / 2	5.7	2½	55	143
S6S-85-20	18.5	25	1 / 2	5.7	2½	58	152
S6S-85-21	18.5	25	1 / 2	5.7	2½	60	162
S6S-85-22	18.5	25	1 / 2	5.7	2½	63	167
S6S-85-23	22	30	1 / 2	5.7	2½	65	172
S6S-85-24	22	30	1 / 2	5.7	2½	67	182
S6S-85-25	22	30	1 / 2	5.7	2½	70	186
S6S-85-26	22	30	1 / 2	5.7	2½	72	191
S6S-85-27	22	30	1 / 2	5.7	2½	74	201
S6S-85-28	30	40	1 / 2	5.7	2½	77	208
S6S-85-29	30	40	1 / 2	5.7	2½	79	213
S6S-85-30	30	40	1 / 2	5.7	2½	81	218
S6S-85-33	30	40	1 / 2	5.7	2½	88	242
S6S-85-36	30	40	1 / 2	5.7	2½	95	261
S6S-85-39	37	50	1 / 2	5.7	2½	102	281

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	30	50	60	70	80	90	110
			m³/h	0	7	11	14	16	18	20	25
S6S-85-19	25	HEAD IN FEET		990	972	937	897	847	785	722	534
S6S-85-20	25			1037	1022	980	935	888	825	752	574
S6S-85-21	25			1088	1071	1020	990	924	864	786	593
S6S-85-22	25			1139	1119	1067	1020	970	899	822	620
S6S-85-23	30			1188	1186	1118	1083	1019	948	870	639
S6S-85-24	30			1237	1221	1171	1124	1065	987	897	678
S6S-85-25	30			1286	1281	1213	1164	1104	1019	925	701
S6S-85-26	30			1336	1319	1261	1212	1141	1064	963	726
S6S-85-27	30			1405	1395	1333	1278	1211	1118	1021	775
S6S-85-28	40			1454	1436	1379	1318	1251	1164	1065	800
S6S-85-29	40			1503	1492	1427	1368	1298	1211	1092	825
S6S-85-30	40			1552	1535	1474	1407	1331	1336	1119	851
S6S-85-33	40			1700	1695	1613	1549	1457	1358	1237	877
S6S-85-36	40			1849	1838	1746	1673	1577	1466	1333	996
S6S-85-39	50			2013	1989	1913	1840	1740	1612	1473	1116

* Optional outlet size.

Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N". The given performance curves are same for Type - S & N.

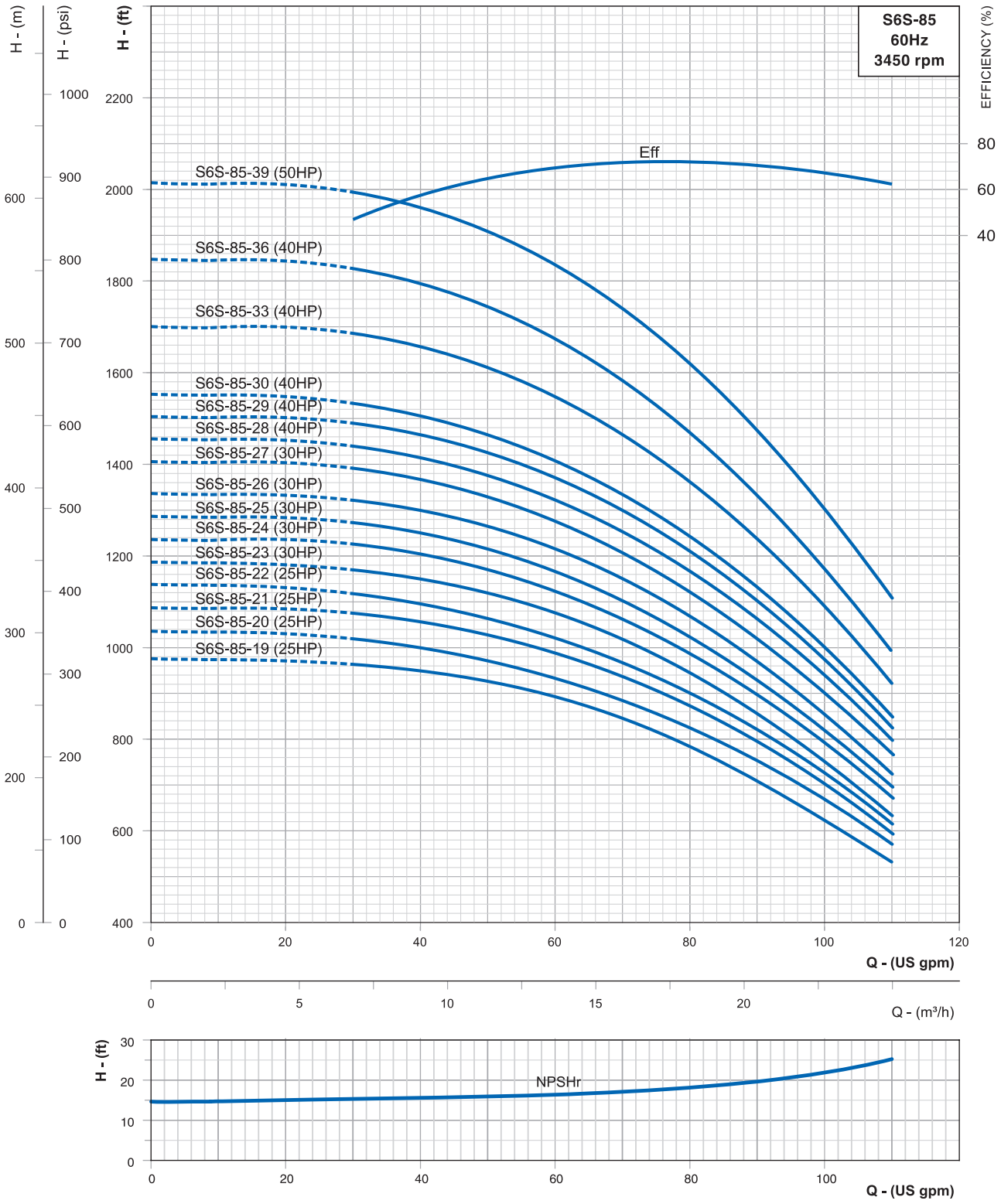
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **85 gpm** | Outlet Size : **2½"/3"* NPT**

PERFORMANCE CURVES

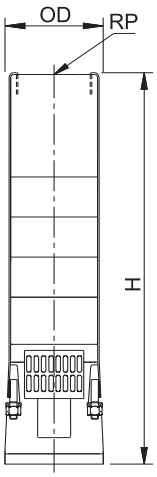
FLOW RANGE : 30 - 110 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **90 gpm** | Outlet Size : **3" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S6S-90-01	1.1	1.5	1	5.4	3	12.95	19
S6S-90-02	2.2	3	1	5.4	3	14.69	19.91
S6S-90-03	3	4	1	5.4	3	16.81	22
S6S-90-04	4/4.4	5.5/6	1	5.4	3	18.54	24
S6S-90-05	5.5	7.5	1 / 2	5.4 / 5.7	3	20.28	26
S6S-90-06	5.5	7.5	1 / 2	5.4 / 5.7	3	22.01	29
S6S-90-07	7.5	10	1 / 2	5.4 / 5.7	3	23.74	31
S6S-90-08	7.5	10	1 / 2	5.4 / 5.7	3	25.47	33
S6S-90-09	9.3/11	12.5/15	1 / 2	5.4 / 5.7	3	27.20	35
S6S-90-10	11	15	1 / 2	5.4 / 5.7	3	28.94	37
S6S-90-11	11	15	1 / 2	5.4 / 5.7	3	30.67	39
S6S-90-12	13	17.5	1 / 2	5.4 / 5.7	3	32.40	41
S6S-90-13	13/15	17.5/20	1 / 2	5.4 / 5.7	3	34.13	44
S6S-90-14	15	20	1 / 2	5.4 / 5.7	3	35.87	46
S6S-90-15	15	20	1 / 2	5.4 / 5.7	3	37.60	48
S6S-90-16	18.5	25	1 / 2	5.4 / 5.7	3	39.33	50

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	50	60	70	80	90	100	120
			m^3/h	0	11	14	16	18	20	23	27
S6S-90-01	1.5	HEAD IN FEET		52	50	49	47	45	40	35	22
S6S-90-02	3			117	100	98	97	93	86	74	50
S6S-90-03	4			173	150	148	142	137	125	120	70
S6S-90-04	5.5/6			235	200	196	180	173	160	140	96
S6S-90-05	7.5			280	248	236	228	222	200	180	128
S6S-90-06	10			331	298	287	278	264	251	235	175
S6S-90-07	10			389	350	337	330	313	299	280	215
S6S-90-08	12.5			448	402	390	379	362	344	316	250
S6S-90-09	12.5/15			500	454	445	425	410	385	353	283
S6S-90-10	15			552	511	497	480	459	435	404	322
S6S-90-11	15			622	563	549	534	510	477	448	352
S6S-90-12	17.5			675	620	598	577	552	544	489	386
S6S-90-13	17.5/20			733	671	651	627	600	570	525	403
S6S-90-14	20			796	723	695	664	637	602	556	425
S6S-90-15	20			840	759	732	700	670	637	584	450
S6S-90-16	25			883	798	768	735	700	663	612	475

Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N". The given performance curves are same for Type - S & N.

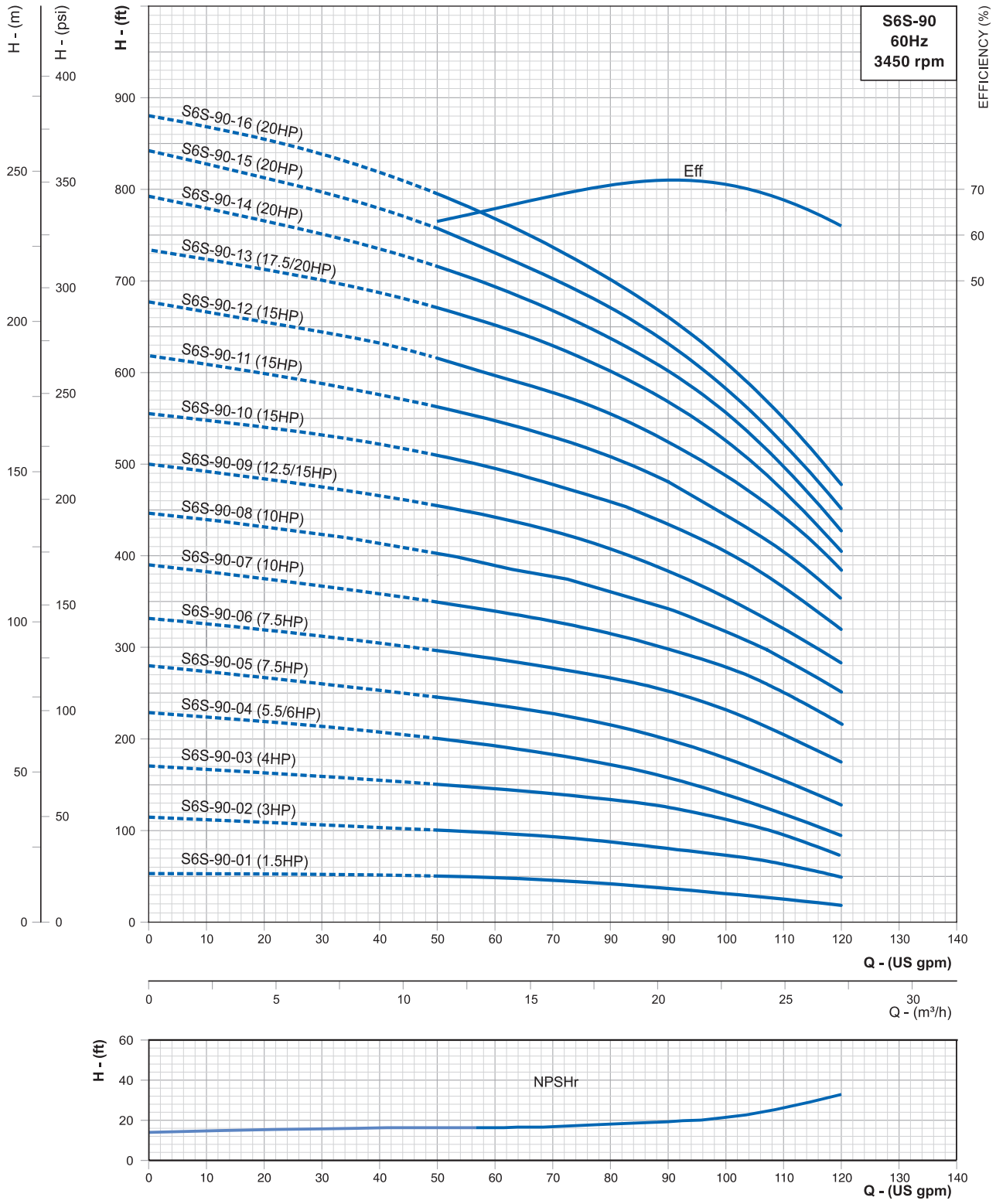
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **90 gpm** | Outlet Size : **3" NPT**

PERFORMANCE CURVES

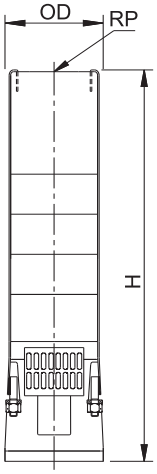
FLOW RANGE : 50 - 120 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **90 gpm** | Outlet Size : **3" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S6S-90-17	18.5	25	1 / 2	5.4 / 5.7	3	41.06	52
S6S-90-18	18.5	25	1 / 2	5.4 / 5.7	3	42.80	54
S6S-90-19	22	30	1 / 2	5.4 / 5.7	3	44.53	57
S6S-90-20	22	30	1 / 2	5.4 / 5.7	3	46.26	59
S6S-90-21	22	30	1 / 2	5.4 / 5.7	3	47.99	61
S6S-90-22	22	35	1 / 2	5.4 / 5.7	3	49.72	63
S6S-90-23	22	35	1 / 2	5.4 / 5.7	3	51.46	65
S6S-90-24	22	35	1 / 2	5.4 / 5.7	3	53.19	67
S6S-90-26	26	40	1 / 2	5.4 / 5.7	3	56.65	72
S6S-90-27	26	40	1 / 2	5.4 / 5.7	3	58.39	74

PERFORMANCE TABLE

PUMP MODEL	HP	gpm	0	50	60	70	80	90	100	120
		m^3/h	0	11	14	16	18	20	23	27
S6S-90-17	25	HEAD IN FEET	975	859	838	810	775	726	661	520
S6S-90-18	25		1031	918	896	871	829	781	716	563
S6S-90-19	30		1080	965	947	914	870	819	750	607
S6S-90-20	30		1132	1017	990	953	912	859	797	620
S6S-90-21	30		1175	1060	1038	997	950	899	827	655
S6S-90-22	35		1231	1107	1078	1039	987	929	859	676
S6S-90-23	35		1280	1163	1125	1083	1035	969	880	700
S6S-90-24	35		1345	1220	1189	1145	1089	1013	925	726
S6S-90-26	40		1445	1305	1261	1230	1164	1087	984	765
S6S-90-27	40		1491	1345	1306	1145	1200	1116	1022	797

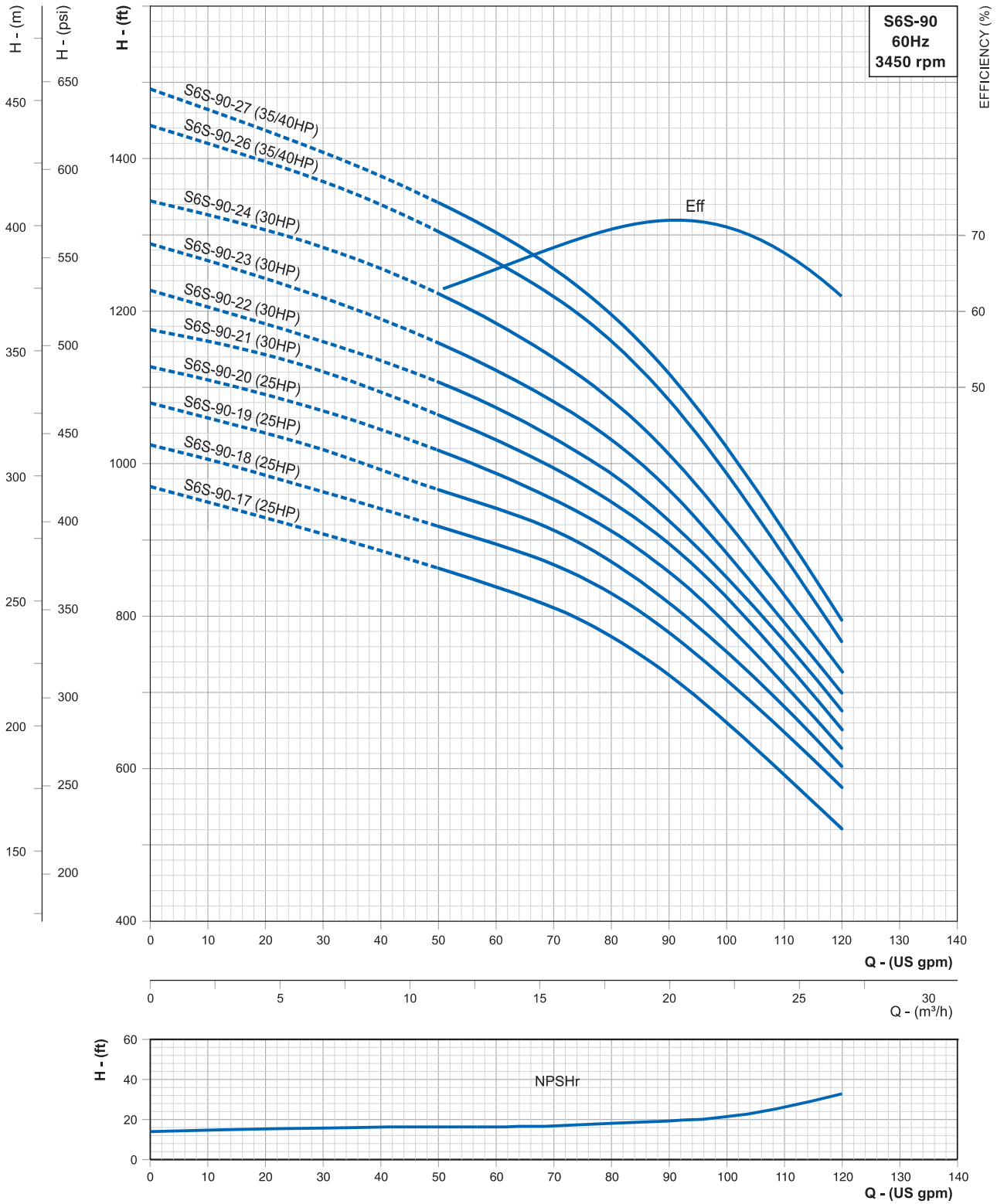
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **90 gpm** | Outlet Size : **3" NPT**

PERFORMANCE CURVES

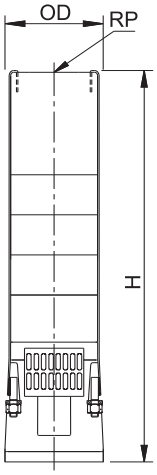
FLOW RANGE : 50 - 120 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **90 gpm** | Outlet Size : **3" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S6S-90-28	26	40	1 / 2	5.4 / 5.7	3	60.12	76
S6S-90-29	30	40	1 / 2	5.4 / 5.7	3	61.85	78
S6S-90-30	37	50	1 / 2	5.4 / 5.7	3	63.58	80
S6S-90-31	37	50	1 / 2	5.4 / 5.7	3	65.31	82
S6S-90-32	37	50	1 / 2	5.4 / 5.7	3	67.05	85
S6S-90-34	37	50	1 / 2	5.4 / 5.7	3	70.51	89
S6S-90-35	37	50	1 / 2	5.4 / 5.7	3	72.24	91
S6S-90-36	37	60	1 / 2	5.4 / 5.7	3	73.98	93
S6S-90-37	37	60	1 / 2	5.4 / 5.7	3	75.71	95

PERFORMANCE TABLE

PUMP MODEL	HP	gpm	0	50	60	70	80	90	100	120
		m^3/h	0	11	14	16	18	20	23	27
S6S-90-28	40	HEAD IN FEET	1520	1390	1345	1297	1230	1152	1050	815
S6S-90-29	40		1600	1462	1415	1369	1300	1220	1123	890
S6S-90-30	50		1674	1524	1489	1426	1360	1288	1198	946
S6S-90-31	50		1714	1575	1523	1462	1410	1321	1223	985
S6S-90-32	50		1790	1620	1581	1517	1445	1372	1275	1010
S6S-90-34	50		1900	1698	1640	1585	1510	1422	1332	1060
S6S-90-35	50		1950	1752	1700	1636	1574	1492	1398	1113
S6S-90-36	60		1996	1812	1760	1697	1615	1536	1445	1172
S6S-90-37	60		2184	1854	1803	1750	1680	1596	1499	1216

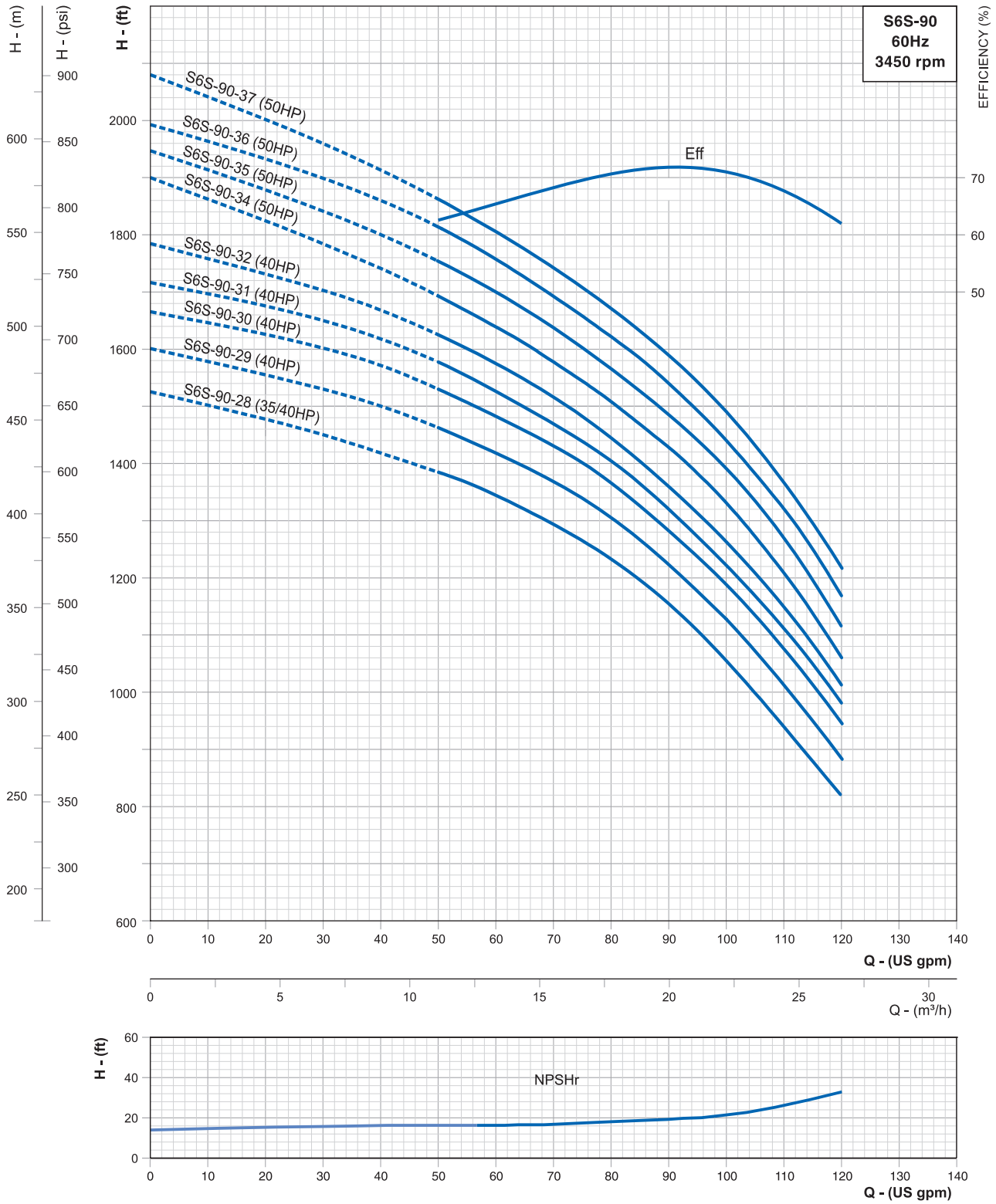
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **90 gpm** | Outlet Size : **3" NPT**

PERFORMANCE CURVES

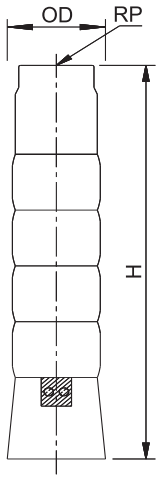
FLOW RANGE : 50 - 120 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **150 gpm** | Outlet Size : **3" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S6S-150-01	1.5	2	1	5.4	3	15.20	18
S6S-150-02	3.0	4	1	5.4	3	18.98	22
S6S-150-03	4.0/4.4	5.5/6	1	5.4	3	22.76	26
S6S-150-04	5.5	7.5	1 / 2	5.4 / 5.7	3	26.54	30
S6S-150-05	7.5	10	1 / 2	5.4 / 5.7	3	30.31	34
S6S-150-06	9.3/11	12.5/15	1 / 2	5.4 / 5.7	3	34.09	39
S6S-150-07	9.3/11	12.5/15	1 / 2	5.4 / 5.7	3	37.87	43
S6S-150-08	11.0	15	1 / 2	5.4 / 5.7	3	41.65	47
S6S-150-09	13.0/15.0	17.5/20	1 / 2	5.4 / 5.7	3	45.43	51
S6S-150-10	15.0	20	1 / 2	5.4 / 5.7	3	49.21	55
S6S-150-11	15.0	20	1 / 2	5.4 / 5.7	3	52.99	59
S6S-150-12	18.5	25	1 / 2	5.4 / 5.7	3	56.77	63
S6S-150-13	18.5	25	1 / 2	5.4 / 5.7	3	60.55	67
S6S-150-14	18.5	25	1 / 2	5.4 / 5.7	3	64.33	72
S6S-150-15	22.0	30	1 / 2	5.4 / 5.7	3	68.11	76
S6S-150-16	22.0	30	1 / 2	5.4 / 5.7	3	71.89	80
S6S-150-17	22.0	30	1 / 2	5.4 / 5.7	3	75.67	84
S6S-150-18	26/30	35/40	1 / 2	5.4 / 5.7	3	79.45	88

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	50	75	100	125	150	175	200
			m³/h	0	11	17	23	28	34	40	45
S6S-150-01	2	HEAD IN FEET		55	50	49	48	45	39	31	25
S6S-150-02	4			107	103	100	97	88	78	68	45
S6S-150-03	5.5/6			158	146	141	138	129	118	97	59
S6S-150-04	7.5			213	200	190	184	174	153	125	95
S6S-150-05	10			283	263	252	236	217	191	160	125
S6S-150-06	12.5/15			335	313	300	288	270	236	195	145
S6S-150-07	12.5/15			375	367	344	324	300	278	232	172
S6S-150-08	15			435	407	391	374	348	310	260	190
S6S-150-09	17.5/20			497	467	441	419	389	350	297	223
S6S-150-10	20			548	515	497	469	432	390	328	250
S6S-150-11	20			600	564	545	513	478	432	368	272
S6S-150-12	25			655	614	590	565	519	468	400	300
S6S-150-13	25			700	660	631	597	554	500	433	334
S6S-150-14	25			760	719	688	650	600	543	463	350
S6S-150-15	30			813	769	742	697	645	569	490	378
S6S-150-16	30			872	804	773	736	677	604	523	406
S6S-150-17	30			912	862	823	777	722	648	553	432
S6S-150-18	35/40			982	940	891	836	776	697	586	453

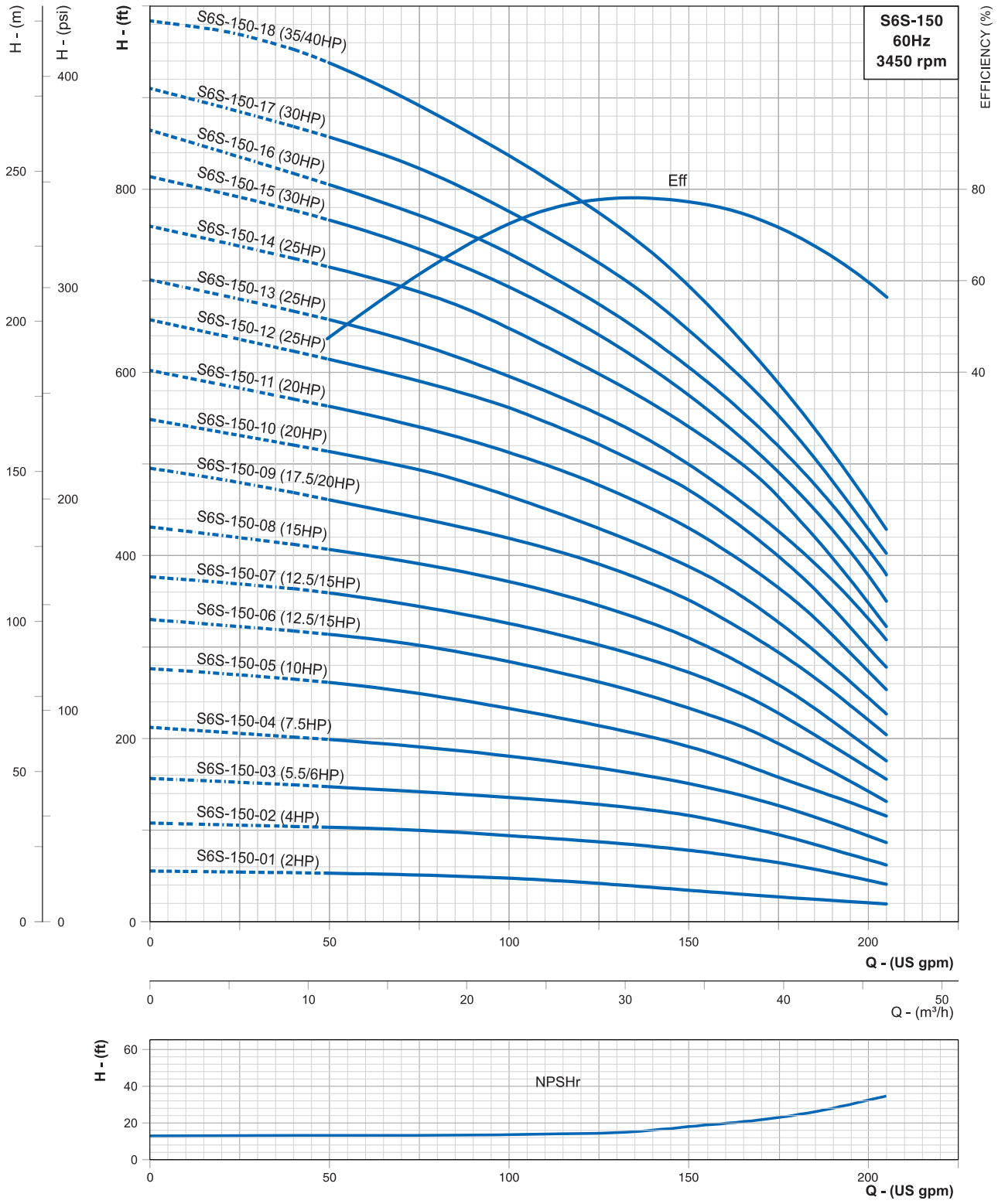
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **150 gpm** | Outlet Size : **3" NPT**

PERFORMANCE CURVES

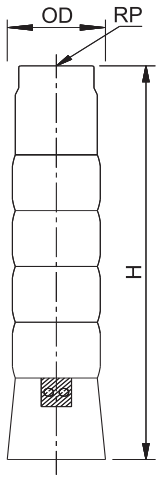
FLOW RANGE : 50 - 205 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **150 gpm** | Outlet Size : **3" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S6S-150-19	26/30	35/40	1 / 2	5.4 / 5.7	3	83.23	92
S6S-150-20	26/30	35/40	1 / 2	5.4 / 5.7	3	87.01	97
S6S-150-21	30	40	1 / 2	5.4 / 5.7	3	90.79	101
S6S-150-22	30	40	1 / 2	5.4 / 5.7	3	94.57	105
S6S-150-23	30	40	1 / 2	5.4 / 5.7	3	98.35	109
S6S-150-24	37	50	1 / 2	5.4 / 5.7	3	102.13	113
S6S-150-25	37	50	1 / 2	5.4 / 5.7	3	105.91	117
S6S-150-26	37	50	1 / 2	5.4 / 5.7	3	109.69	122
S6S-150-27	37	50	1 / 2	5.4 / 5.7	3	113.46	126
S6S-150-28	37	50	1 / 2	5.4 / 5.7	3	117.24	130
S6S-150-29	45	60	1 / 2	5.4 / 5.7	3	121.02	134
S6S-150-31	45	60	1 / 2	5.4 / 5.7	3	128.58	143
S6S-150-33	45	60	1 / 2	5.4 / 5.7	3	136.14	151
S6S-150-36	55	75	1 / 2	5.4 / 5.7	3	147.48	166
S6S-150-39	55	75	1 / 2	5.4 / 5.7	3	158.82	178

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	50	75	100	125	150	175	200
			m^3/h	0	11	17	23	28	34	40	45
S6S-150-19	35/40	HEAD IN FEET		1013	968	918	870	802	722	618	468
S6S-150-20	35/40			1071	1011	971	910	845	764	654	481
S6S-150-21	40			1133	1066	1022	960	890	801	689	513
S6S-150-22	40			1199	1112	1061	1000	932	848	721	540
S6S-150-23	40			1268	1168	1110	1043	971	885	750	550
S6S-150-24	50			1304	1212	1150	1085	1001	912	765	561
S6S-150-25	50			1338	1265	1200	1124	1048	947	795	583
S6S-150-26	50			1403	1315	1249	1176	1099	988	822	600
S6S-150-27	50			1443	1370	1300	1223	1132	1014	860	621
S6S-150-28	50			1500	1417	1353	1275	1183	1069	896	667
S6S-150-29	60			1579	1498	1416	1335	1243	1109	934	690
S6S-150-31	60			1625	1571	1475	1380	1280	1150	970	720
S6S-150-33	60			1725	1624	1560	1471	1369	1222	1025	775
S6S-150-36	75			1891	1820	1720	1608	1500	1345	1120	825
S6S-150-39	75			2045	1957	1835	1730	1605	1430	1200	880

Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N". The given performance curves are same for Type - S & N.

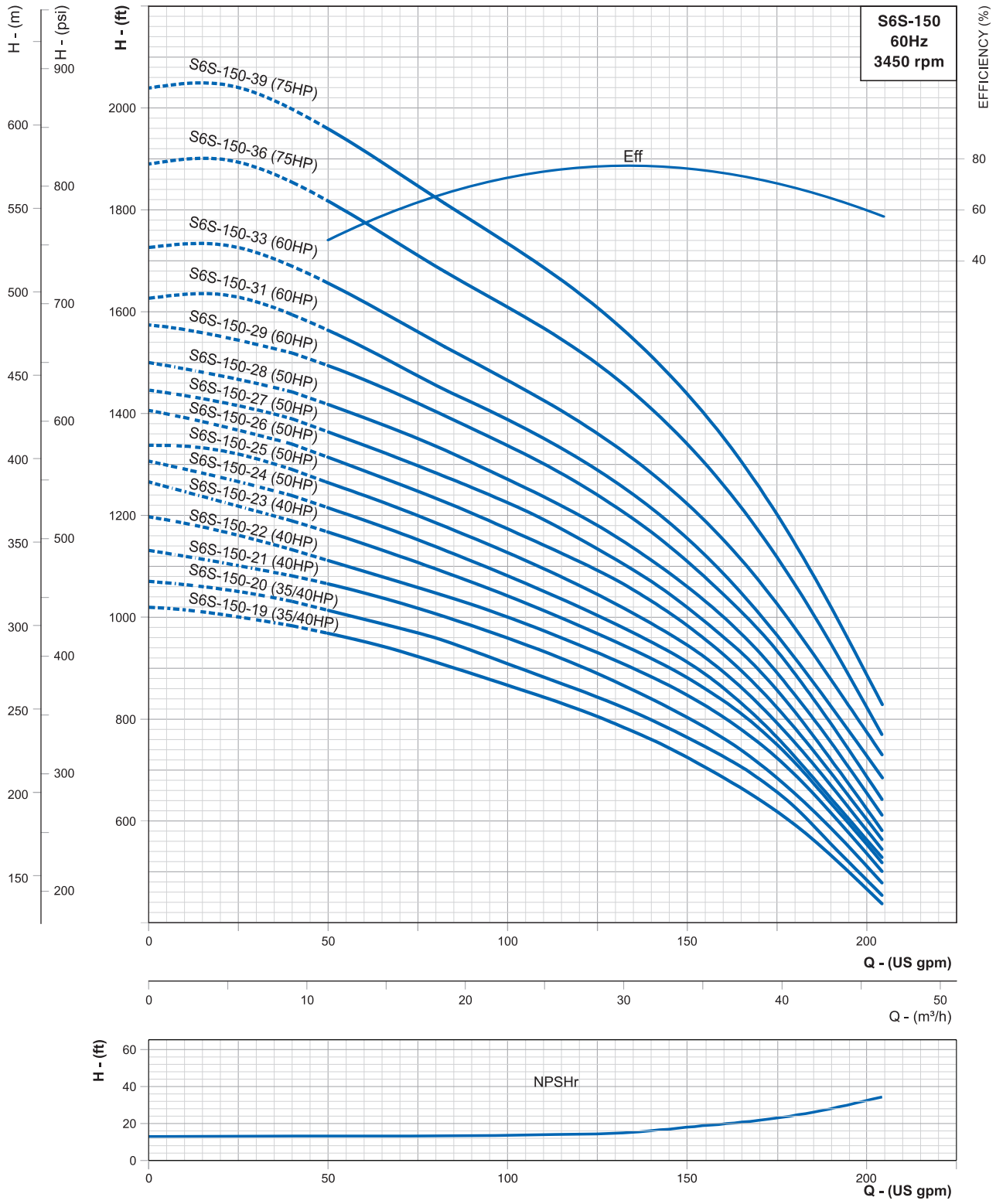
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **150 gpm** | Outlet Size : **3" NPT**

PERFORMANCE CURVES

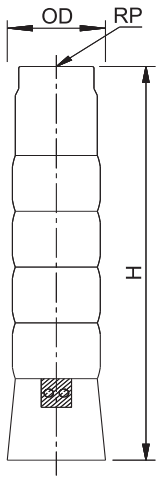
FLOW RANGE : 50 - 205 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **240 gpm** | Outlet Size : **3" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S6S-240-01R	2.2	3	1	6.0	3	15.87	19
S6S-240-01	3	4	1	6.0	3	15.87	19
S6S-240-02R	4/4.4	5.5/6	1 / 2	6.0	3	20.31	24
S6S-240-02	5.5	7.5	1 / 2	5.8 / 5.9	3	20.31	24
S6S-240-3RR	5.5	7.5	1 / 2	5.8 / 5.9	3	24.76	29
S6S-240-03	7.5	10	1 / 2	5.8 / 5.9	3	24.76	29
S6S-240-4RR	7.5	10	1 / 2	5.8 / 5.9	3	29.21	34
S6S-240-04	9.3/11	12.5/15	1 / 2	5.8 / 5.9	3	29.21	34
S6S-240-5R	11	15	1 / 2	5.8 / 5.9	3	33.66	39
S6S-240-05	13/15	17.5/20	1 / 2	5.8 / 5.9	3	33.66	39
S6S-240-06	15	20	1 / 2	5.8 / 5.9	3	38.11	45
S6S-240-7R	15	20	1 / 2	5.8 / 5.9	3	42.56	50
S6S-240-07	18.5	25	1 / 2	5.8 / 5.9	3	42.56	50
S6S-240-08	18.5	25	1 / 2	5.8 / 5.9	3	47.01	55
S6S-240-09	22	30	1 / 2	5.8 / 5.9	3	51.46	60

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	50	100	150	200	250	300	325
			m^3/h	0	11	23	34	45	57	68	74
S6S-240-01R	3	HEAD IN FEET		49	45	43	35	25	19	10	
S6S-240-01	4			53	60	57	49	40	33	23	15
S6S-240-02R	5.5/6			100	100	93	80	67	50	28	18
S6S-240-02	7.5			125	103	117	104	92	99	47	40
S6S-240-3RR	7.5			151	145	137	120	106	86	46	32
S6S-240-03	10			197	188	177	160	140	120	80	66
S6S-240-4RR	10			206	200	193	178	153	123	87	55
S6S-240-04	12.5/15			261	247	230	203	182	160	117	83
S6S-240-5R	15			289	281	265	242	212	176	126	95
S6S-240-05	17.5/20			323	317	296	264	230	193	143	113
S6S-240-06	20			390	387	345	322	280	239	179	138
S6S-240-7R	20			424	400	372	340	303	247	187	150
S6S-240-07	25			450	442	412	373	320	280	197	172
S6S-240-08	25			520	503	467	423	372	322	242	194
S6S-240-09	30			583	560	527	483	422	363	277	221

Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N". The given performance curves are same for Type - S & N.

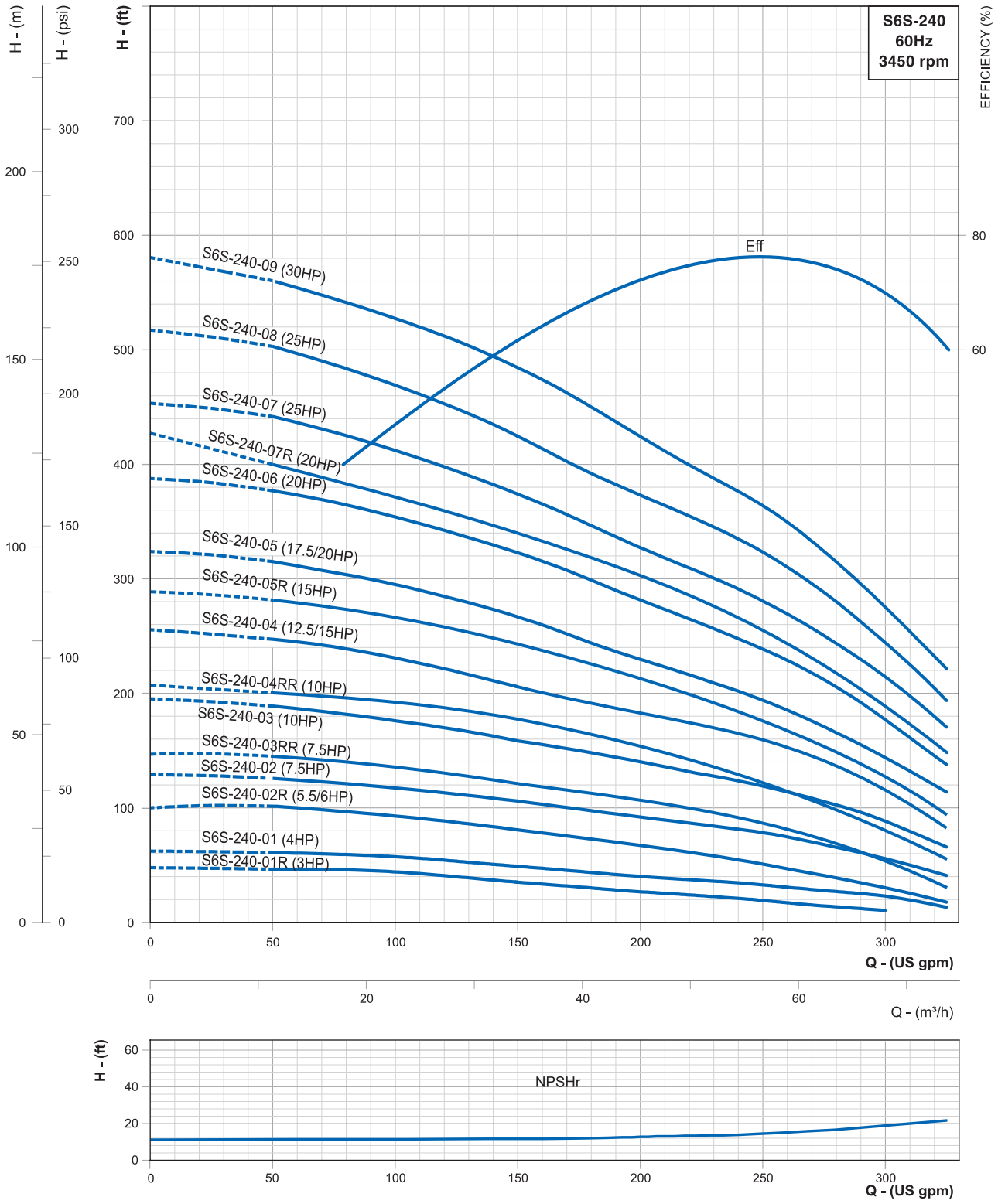
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **240 gpm** | Outlet Size : **3" NPT**

PERFORMANCE CURVES

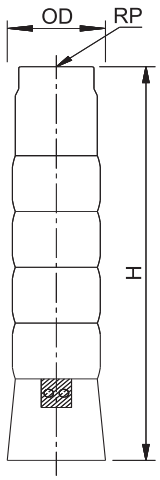
FLOW RANGE : 150 - 325 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **240 gpm** | Outlet Size : **3" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S6S-240-10	22	30	1 / 2	5.8 / 5.9	3	55.91	65
S6S-240-11	26/30	35/40	1 / 2	5.8 / 5.9	3	60.35	70
S6S-240-12	30	40	1 / 2	5.8 / 5.9	3	64.80	75
S6S-240-13	30	40	1 / 2	5.8 / 5.9	3	69.25	80
S6S-240-14	37	50	1 / 2	5.8 / 5.9	3	73.70	85
S6S-240-15	37	50	1 / 2	5.8 / 5.9	3	78.15	90
S6S-240-16	37	50	1 / 2	5.8 / 5.9	3	82.60	95
S6S-240-17	37	50	1 / 2	5.8 / 5.9	3	87.05	100
S6S-240-18	45	60	1 / 2	5.8 / 5.9	3	91.50	105
S6S-240-19	45	60	1 / 2	5.8 / 5.9	3	95.94	110
S6S-240-20	45	60	1 / 2	5.8 / 5.9	3	100.39	115
S6S-240-21	55	75	1 / 2	5.8 / 5.9	3	104.84	123
S6S-240-22	55	75	1 / 2	5.8 / 5.9	3	200.00	123

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	50	100	150	200	250	300	325
			m^3/h	0	11	23	34	45	57	68	74
S6S-240-10	30	HEAD IN FEET		642	530	593	446	418	374	302	249
S6S-240-11	35/40			704	686	650	498	449	416	340	269
S6S-240-12	40			775	756	717	532	490	442	378	296
S6S-240-13	40			842	808	760	590	530	475	404	325
S6S-240-14	50			896	865	814	637	564	503	440	356
S6S-240-15	50			960	932	877	678	616	554	473	378
S6S-240-16	50			1028	997	933	732	644	593	506	410
S6S-240-17	50			1086	1068	1010	775	704	636	540	453
S6S-240-18	60			1140	1117	1065	820	746	670	591	496
S6S-240-19	60			1218	1163	1106	844	765	672	568	523
S6S-240-20	60			1280	1237	1164	878	812	717	621	552
S6S-240-21	75			1335	1283	1224	942	869	783	673	575
S6S-240-22	75			1397	1320	1260	1166	1043	886	700	590

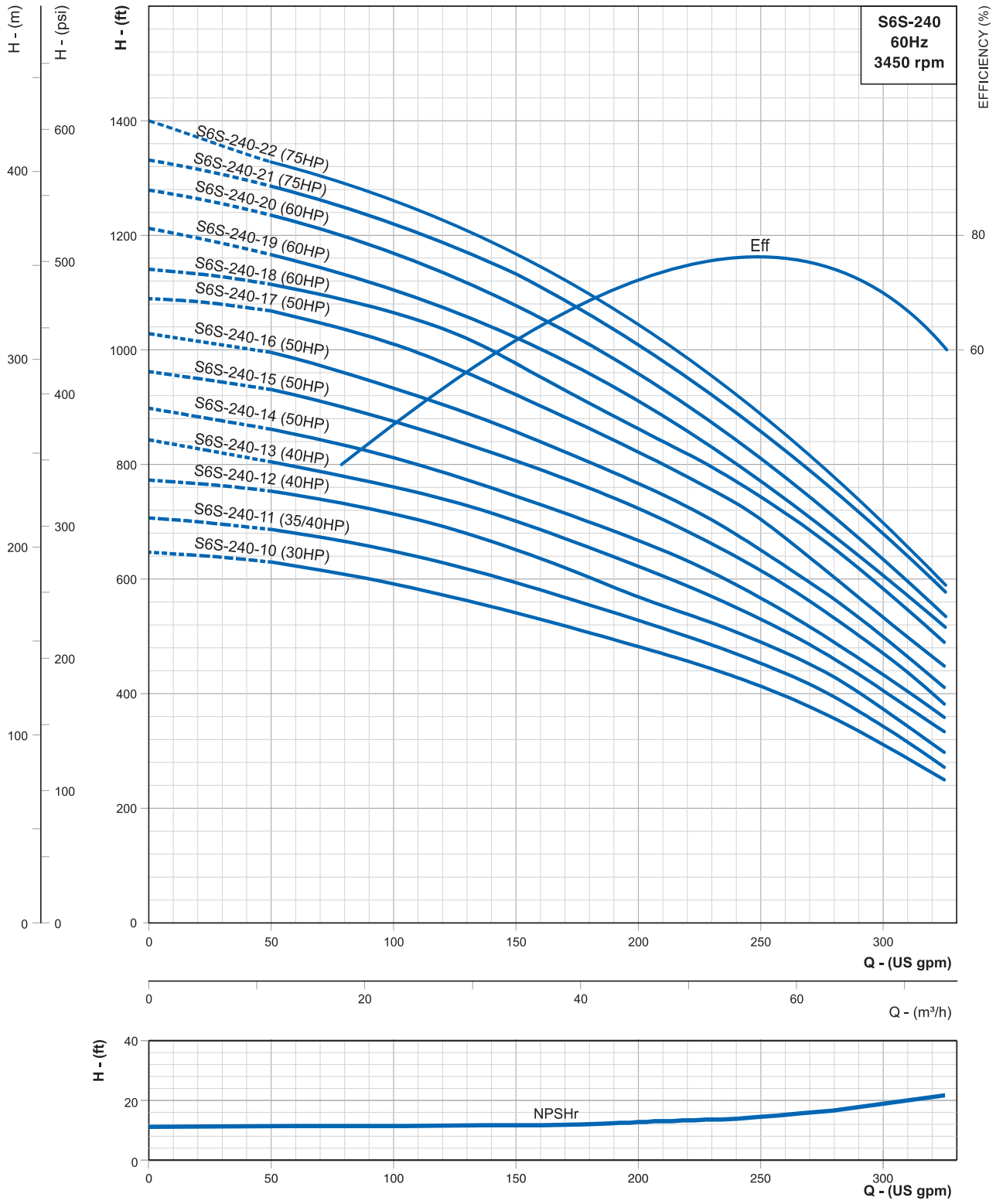
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **240 gpm** | Outlet Size : **3" NPT**

PERFORMANCE CURVES

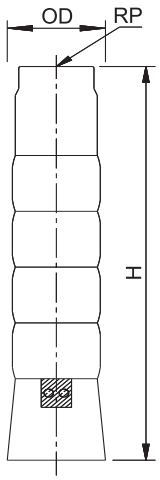
FLOW RANGE : 150 - 325 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **300 gpm** | Outlet Size : **3"/4"* NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S6S-300-01R	2.2	3	1	5.8	3	15.87	19
S6S-300-01	4	5.5	1	5.8	3	15.87	19
S6S-300-02RR	3.7	5	1 / 2	5.8 / 5.9	3	20.31	24
S6S-30-02	5.5	7.5	1 / 2	5.8 / 5.9	3	20.31	24
S6S-300-03R	7.5	10	1 / 2	5.8 / 5.9	3	24.76	30
S6S-300-03	9.3/11	12.5/15	1 / 2	5.8 / 5.9	3	24.76	30
S6S-300-04RR	11	15	1 / 2	5.8 / 5.9	3	29.21	35
S6S-300-04	11	15	1 / 2	5.8 / 5.9	3	29.21	35
S6S-300-05RR	15	20	1 / 2	5.8 / 5.9	3	33.66	40
S6S-300-05	13/15	17.5/20	1 / 2	5.8 / 5.9	3	33.66	40
S6S-300-06R	15	20	1 / 2	5.8 / 5.9	3	38.11	45
S6S-300-06	15	25	1 / 2	5.8 / 5.9	3	38.11	45
S6S-300-07	18.5	25	1 / 2	5.8 / 5.9	3	42.56	50
S6S-300-08	22	30	1 / 2	5.8 / 5.9	3	47.01	56
S6S-300-09R	22	30	1 / 2	5.8 / 5.9	3	51.46	61
S6S-300-09	26/30	35/40	1 / 2	5.8 / 5.9	3	51.46	61
S6S-300-10	26/30	35/40	1 / 2	5.8 / 5.9	3	55.91	66

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	150	200	250	275	300	350	400
			m^3/h	0	34	46	57	63	68	80	91
S6S-300-01R	3	HEAD IN FEET		51	37	35	33	30	31	22	0
S6S-300-01	5.5			71	50	43	39	38	35	24	18
S6S-300-02RR	5			87	70	63	54	49	42	24	8
S6S-300-02	7.5			123	111	100	87	77	73	50	36
S6S-300-03R	10			173	146	138	120	105	95	72	39
S6S-300-03	12.5/15			190	172	154	137	125	119	87	48
S6S-300-04RR	15			218	186	165	144	132	121	91	47
S6S-300-04	15			251	231	209	180	170	158	122	70
S6S-300-05RR	20			286	247	221	194	177	161	124	68
S6S-300-05	17.5/20			323	285	261	230	213	199	153	95
S6S-300-06R	20			372	320	291	260	238	220	175	114
S6S-300-06	25			389	350	321	281	264	248	198	110
S6S-300-07	25			451	402	365	327	309	282	232	140
S6S-300-08	30			521	452	414	367	347	322	253	169
S6S-300-09R	30			562	481	427	377	354	325	261	174
S6S-300-09	35/40			599	517	467	412	380	350	278	197
S6S-300-10	35/40			663	562	500	440	410	376	300	212

* Optional outlet size.

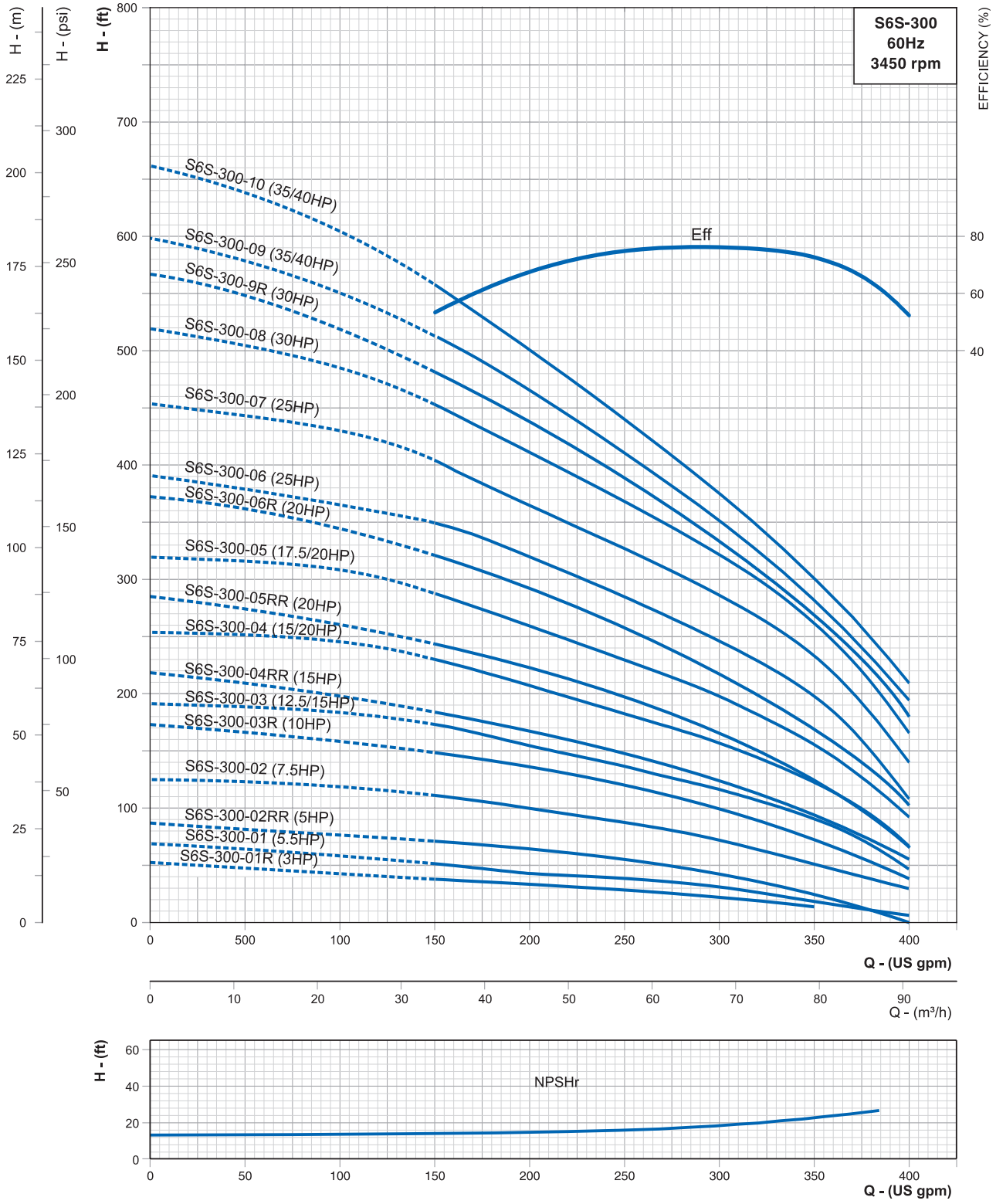
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **300 gpm** | Outlet Size : **3"/4" NPT**

PERFORMANCE CURVES

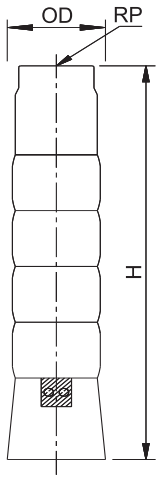
FLOW RANGE : 150 - 400 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **300 gpm** | Outlet Size : **3"/4"* NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S6S-300-11	30	40	1 / 2	5.8 / 5.9	3	60.35	71
S6S-300-12	37	50	1 / 2	5.8 / 5.9	3	64.80	76
S6S-300-13	37	50	1 / 2	5.8 / 5.9	3	69.25	82
S6S-300-14	45	60	1 / 2	5.8 / 5.9	3	73.70	87
S6S-300-15	45	60	1 / 2	5.8 / 5.9	3	78.15	92
S6S-300-16	45	60	1 / 2	5.8 / 5.9	3	82.60	97
S6S-300-17	45	60	1 / 2	5.8 / 5.9	3	87.05	102
S6S-300-18	55	75	1 / 2	5.8 / 5.9	3	91.50	110
S6S-300-19	55	75	1 / 2	5.8 / 5.9	3	95.94	115
S6S-300-20	55	75	1 / 2	5.8 / 5.9	3	100.39	120
S6S-300-21	63/75	85/100	1 / 2	5.8 / 5.9	3	104.84	126

PERFORMANCE TABLE

PUMP MODEL	HP	gpm	0	150	200	250	275	300	350	400
		m^3/h	0	34	46	57	63	68	80	91
S6S-300-11	40	HEAD IN FEET	729	617	551	486	450	414	331	236
S6S-300-12	50		800	680	615	540	500	461	371	264
S6S-300-13	50		863	730	653	580	535	488	398	279
S6S-300-14	60		930	778	700	616	573	525	420	300
S6S-300-15	60		1004	861	764	673	630	584	480	329
S6S-300-16	60		1071	919	816	718	672	618	500	343
S6S-300-17	60		1136	976	865	763	709	670	541	363
S6S-300-18	75		1212	941	925	814	750	700	578	399
S6S-300-19	75		1293	1113	990	864	812	760	621	433
S6S-300-20	75		1358	1177	948	923	876	798	653	448
S6S-300-21	85/100		1439	1244	1100	973	904	846	697	497

* Optional outlet size.

Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N". The given performance curves are same for Type - S & N.

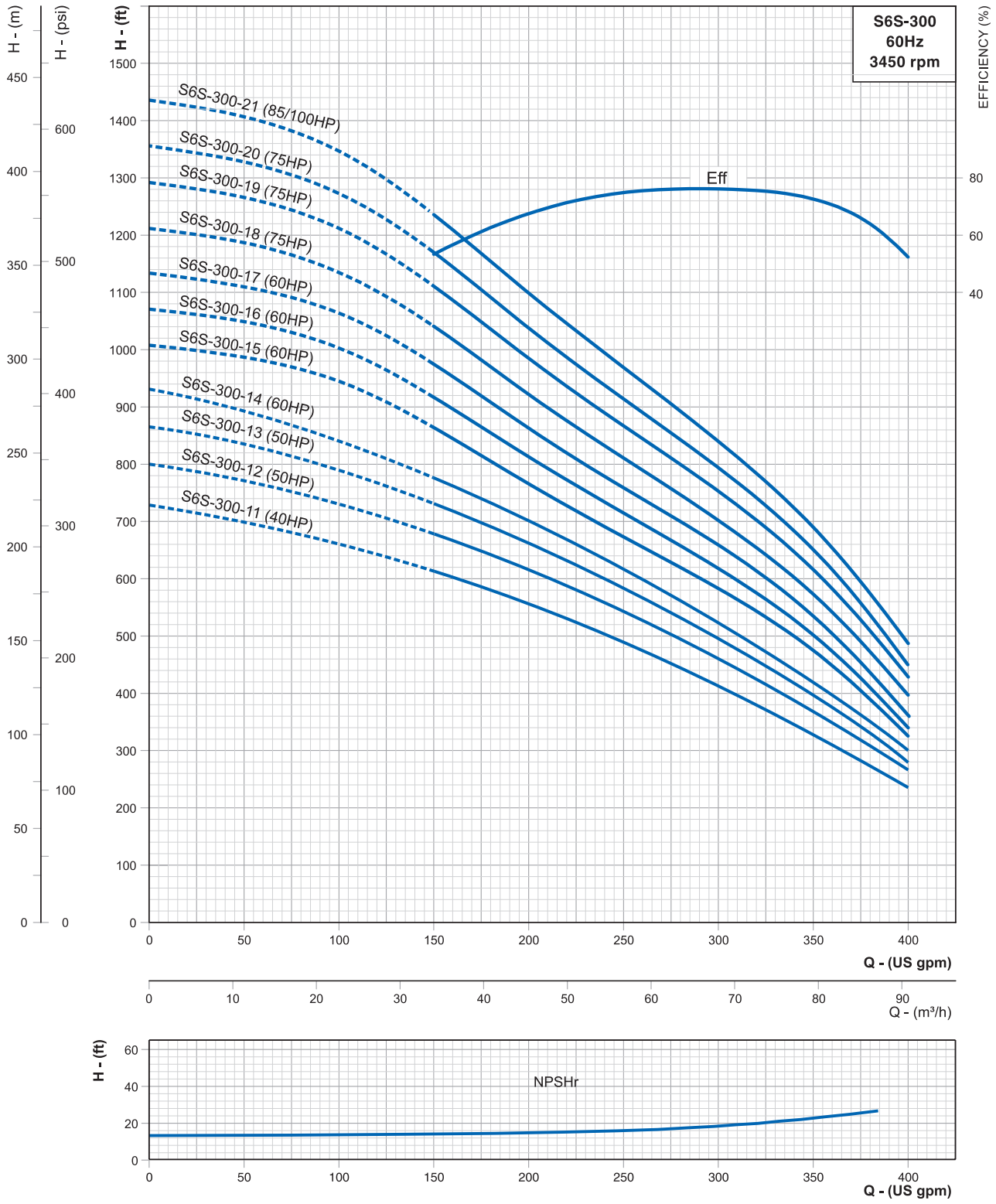
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **6"** | Nominal Flow : **300 gpm** | Outlet Size : **3"/4" NPT**

PERFORMANCE CURVES

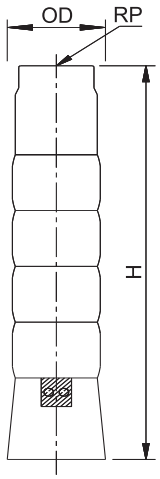
FLOW RANGE : 150 - 400 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **8"** | Nominal Flow : **390 gpm** | Outlet Size : **5" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S8S-390-01R	5.5	7.5	1 / 2	6.8 / 7.0	5	21.81	48
S8S-390-01	5.5	7.5	1 / 2	6.8 / 7.0	5	21.81	48
S8S-390-02RR	7.5	10	1 / 2	6.8 / 7.0	5	26.85	56
S8S-390-02R	11.0	15	1 / 2	6.8 / 7.0	5	26.85	56
S8S-390-02	11.0	15	1 / 2	6.8 / 7.0	5	26.85	56
S8S-390-03R	15	20	1 / 2	6.8 / 7.0	5	31.89	65
S8S-390-03	18.5	25	1 / 2	6.8 / 7.0	5	31.89	65
S8S-390-04R	18.5	25	1 / 2	6.8 / 7.0	5	36.93	73
S8S-390-04	22.0	30	1 / 2	6.8 / 7.0	5	36.93	73
S8S-390-05RR	22.0	30	1 / 2	6.8 / 7.0	5	41.97	81
S8S-390-05	30.0	40	1 / 2	6.8 / 7.0	5	41.97	81
S8S-390-06R	30.0	40	1 / 2	6.8 / 7.0	5	47.01	90

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	150	250	300	350	400	450	500
			m^3/h	0	34	57	68	80	91	102	114
S8S-390-01R	7.5	HEAD IN FEET		81	75	69	63	59	52	42	29
S8S-390-01	7.5			100	90	80	74	70	63	51	40
S8S-390-02RR	10			129	118	104	95	85	72	60	43
S8S-390-02R	15			141	139	127	118	105	90	74	52
S8S-390-02	15			190	178	160	148	135	121	108	87
S8S-390-03R	20			250	228	200	184	167	146	120	92
S8S-390-03	25			282	260	238	220	200	180	155	128
S8S-390-04R	25			335	304	269	245	220	192	163	131
S8S-390-04	30			385	348	308	284	258	227	192	160
S8S-390-05RR	30			400	368	325	300	270	238	200	159
S8S-390-05	40			470	442	389	360	328	290	250	202
S8S-390-06R	40			520	442	424	396	362	322	280	228

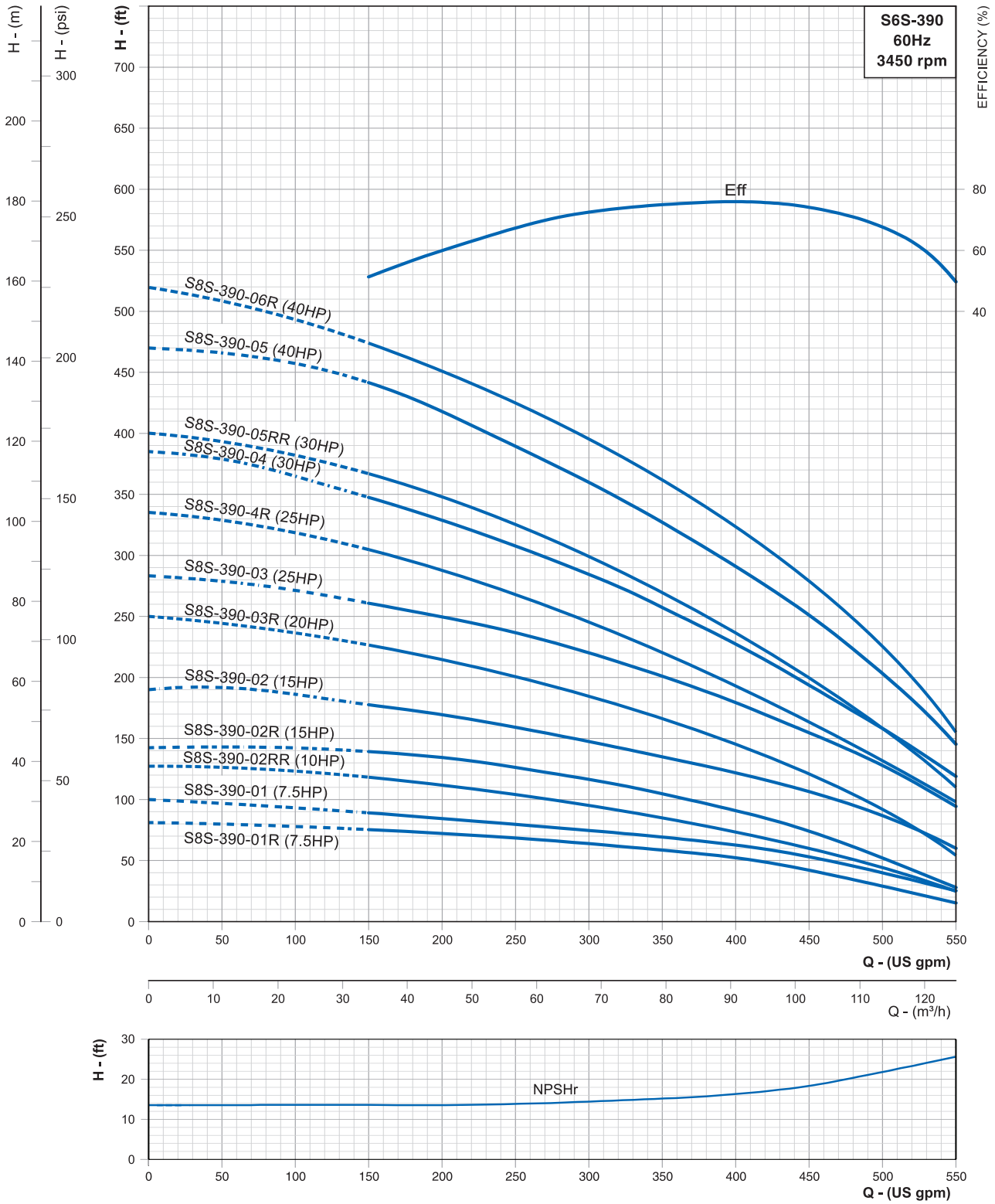
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **8"** | Nominal Flow : **390 gpm** | Outlet Size : **5" NPT**

PERFORMANCE CURVES

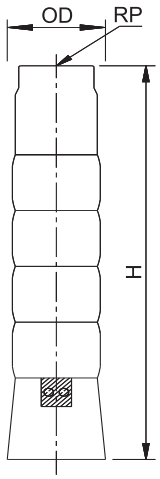
FLOW RANGE : 150 - 550 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **8"** | Nominal Flow : **390 gpm** | Outlet Size : **5" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S8S-390-06	37	50	1 / 2	6.8 / 7.0	5	47.01	90
S8S-390-07	45	60	1 / 2	6.8 / 7.0	5	52.05	98
S8S-390-08	45	60	1 / 2	6.8 / 7.0	5	57.09	107
S8S-390-09	55	75	1 / 2	6.8 / 7.0	5	62.13	115
S8S-390-10	55	75	1 / 2	6.8 / 7.0	5	67.17	123
S8S-390-11	63/75	85/100	1 / 2	6.8 / 7.0	5	72.20	131
S8S-390-12	75	100	1 / 2	6.8 / 7.0	5	77.24	139
S8S-390-13	75	100	1 / 2	6.8 / 7.0	5	82.28	147
S8S-390-14	93	125	1 / 2	6.8 / 7.0	5	87.32	156
S8S-390-15	93	125	1 / 2	6.8 / 7.0	5	92.36	164

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	150	250	300	350	400	450	500
			m^3/h	0	34	57	68	80	91	102	114
S8S-390-06	50	HEAD IN FEET		534	500	432	400	374	318	275	220
S8S-390-07	60			638	585	517	475	436	396	342	276
S8S-390-08	60			716	683	600	555	503	450	397	325
S8S-390-09	75			844	776	699	648	597	523	457	379
S8S-390-10	75			939	868	779	737	685	612	539	448
S8S-390-11	85/100			1041	969	862	810	750	686	597	497
S8S-390-12	100			1124	1022	918	868	797	714	623	525
S8S-390-13	100			1202	1120	1000	930	854	772	673	560
S8S-390-14	125			1303	1225	1075	999	921	841	722	600
S8S-390-15	125			1400	1320	1150	1060	984	887	772	648

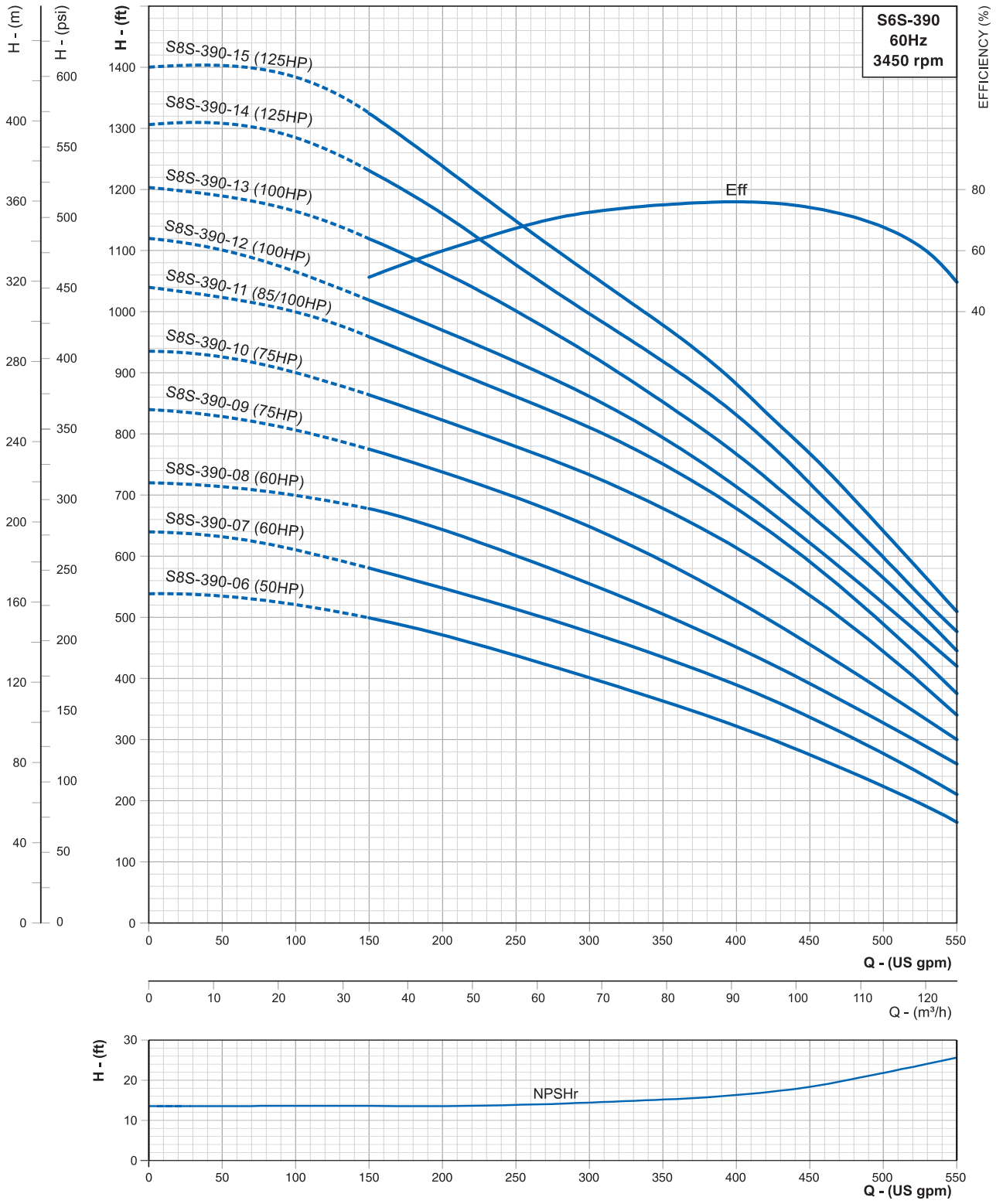
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **8"** | Nominal Flow : **390 gpm** | Outlet Size : **5" NPT**

PERFORMANCE CURVES

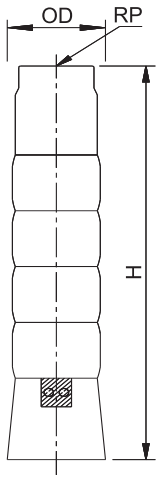
FLOW RANGE : 150 - 550 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **8"** | Nominal Flow : **475 gpm** | Outlet Size : **5" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S8S-475-01R	5.5	7.5	1 / 2	6.8 / 7.0	5	21.81	49
S8S-475-01	7.5	10	1 / 2	6.8 / 7.0	5	21.81	49
S8S-475-02R	13/15	17.5/20	1 / 2	6.8 / 7.0	5	26.85	57
S8S-475-02	13/15	17.5/20	1 / 2	6.8 / 7.0	5	26.85	57
S8S-475-03	22	30	1 / 2	6.8 / 7.0	5	31.89	65
S8S-475-04RR	22	30	1 / 2	6.8 / 7.0	5	36.93	73
S8S-475-04	30	40	1 / 2	6.8 / 7.0	5	36.93	73
S8S-475-05R	30	40	1 / 2	6.8 / 7.0	5	41.97	82
S8S-475-05	37	50	1 / 2	6.8 / 7.0	5	41.97	82
S8S-475-06	45	60	1 / 2	6.8 / 7.0	5	47.01	91

PERFORMANCE TABLE

PUMP MODEL	HP	gpm	0	200	300	350	400	450	500	600
		m^3/h	0	46	68	80	91	102	114	136
S8S-475-01R	7.5	HEAD IN FEET	78	74	67	56	54	49	40	20
S8S-475-01	10		102	90	78	74	73	69	59	29
S8S-475-02R	17.5/20		188	167	148	135	128	119	99	61
S8S-475-02	17.5/20		207	179	168	150	139	130	120	75
S8S-475-03	30		310	279	248	226	212	192	171	122
S8S-475-04RR	30		338	288	252	237	222	203	169	107
S8S-475-04	40		416	361	323	300	280	257	227	163
S8S-475-05R	40		455	392	343	332	294	278	248	175
S8S-475-05	50		504	440	392	366	348	322	289	204
S8S-475-06	60		610	538	478	450	422	387	397	250

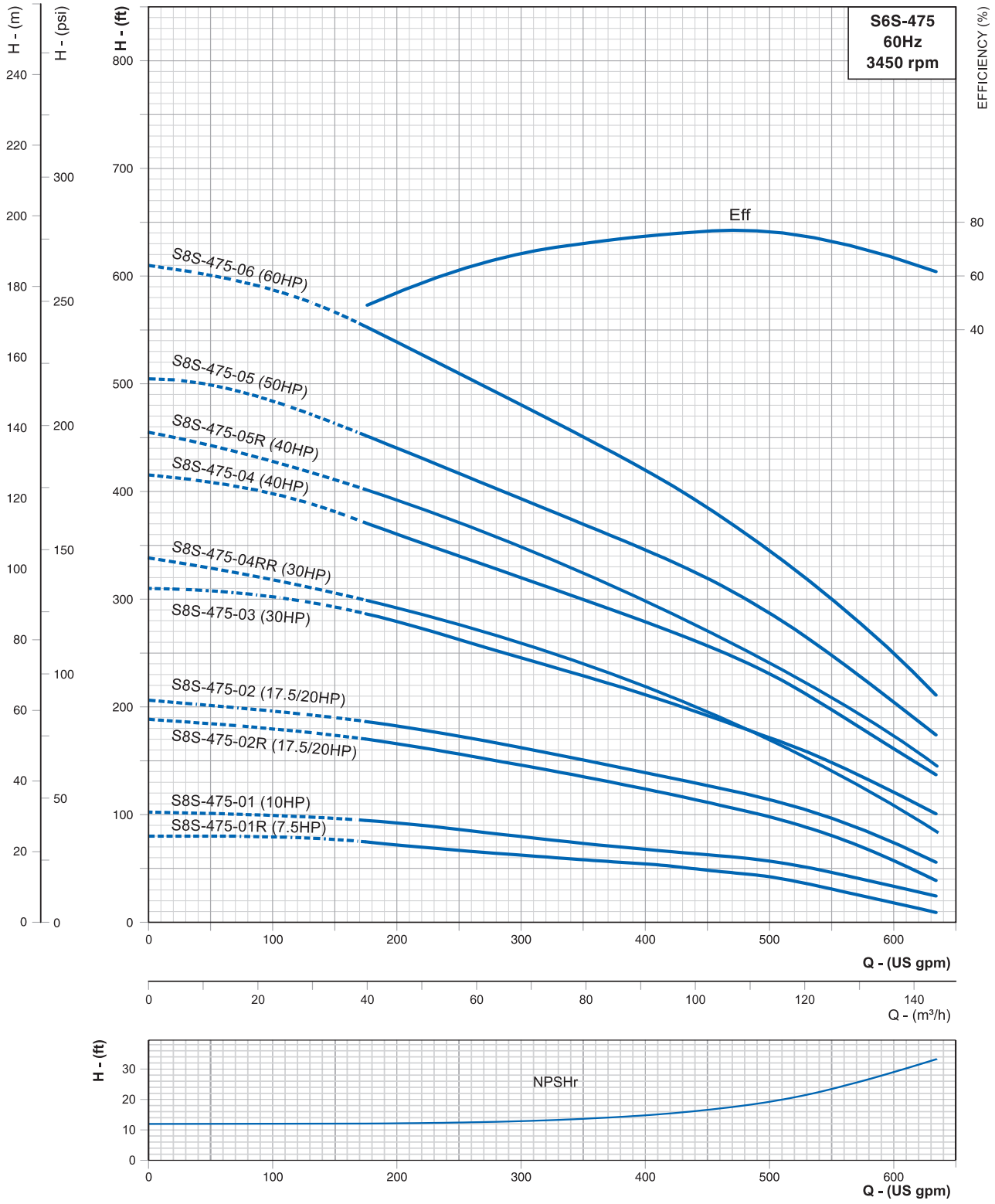
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **8"** | Nominal Flow : **475 gpm** | Outlet Size : **5" NPT**

PERFORMANCE CURVES

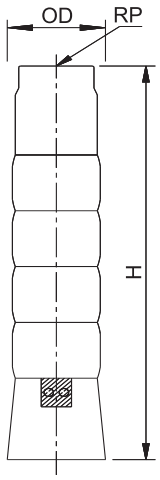
FLOW RANGE : 175 - 630 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **8"** | Nominal Flow : **475 gpm** | Outlet Size : **5" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S8S-475-07	45	60	1 / 2	6.8 / 7.0	5	52.05	100
S8S-475-08	55	75	1 / 2	6.8 / 7.0	5	57.09	108
S8S-475-09	75	100	1 / 2	6.8 / 7.0	5	62.13	117
S8S-475-10	75	100	1 / 2	6.8 / 7.0	5	67.17	125
S8S-475-11	75	100	1 / 2	6.8 / 7.0	5	72.20	134
S8S-475-12	93	125	1 / 2	6.8 / 7.0	5	77.24	142
S8S-475-13	93	125	1 / 2	6.8 / 7.0	5	82.28	151

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	200	300	350	400	450	500	600
			m^3/h	0	46	68	80	91	102	114	136
S8S-475-07	60	HEAD IN FEET		718	613	540	512	475	441	398	283
S8S-475-08	75			817	726	642	600	567	522	477	348
S8S-475-09	100			913	816	724	675	638	589	541	403
S8S-475-10	100			1011	900	804	750	708	666	610	450
S8S-475-11	100			1100	995	879	827	776	723	671	498
S8S-475-12	125			1188	1081	972	909	850	793	725	547
S8S-475-13	125			1278	1169	1039	975	914	852	778	598

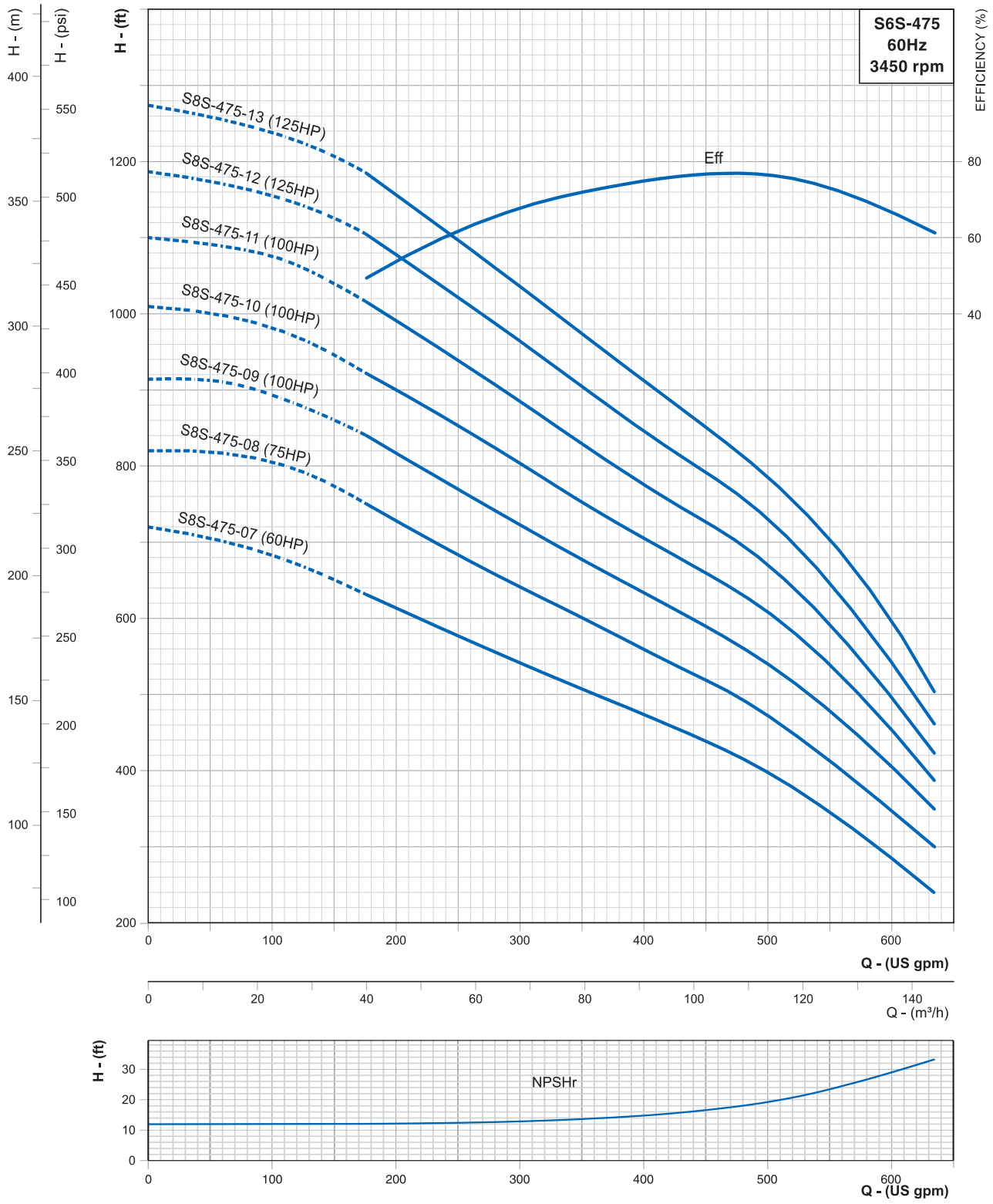
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **8"** | Nominal Flow : **475 gpm** | Outlet Size : **5" NPT**

PERFORMANCE CURVES

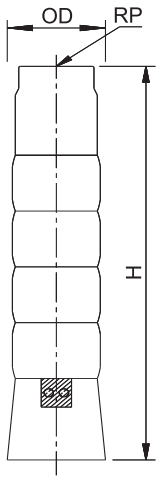
FLOW RANGE : 175 - 630 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **10"** | Nominal Flow : **625 gpm** | Outlet Size : **6" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S10S-625-01R	11	15	1 / 2	8.3 / 8.5	6	25.35	68
S10S-625-01	18.5	25	1 / 2	8.3 / 8.5	6	25.35	68
S10S-625-02RR	22	30	1 / 2	8.3 / 8.5	6	31.42	81
S10S-625-02R	22	30	1 / 2	8.3 / 8.5	6	31.42	81
S10S-625-02	30	40	1 / 2	8.3 / 8.5	6	31.42	81
S10S-625-03RR	37	50	1 / 2	8.3 / 8.5	6	37.48	95
S10S-625-03R	37	50	1 / 2	8.3 / 8.5	6	37.48	95
S10S-625-03	45	60	1 / 2	8.3 / 8.5	6	37.48	95
S10S-625-04RR	55	75	1 / 2	8.3 / 8.5	6	43.54	108
S10S-625-04R	55	75	1 / 2	8.3 / 8.5	6	43.54	108
S10S-625-04	63/75	85/100	1 / 2	8.3 / 8.5	6	43.54	108

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	200	300	400	500	600	700	800
			m^3/h	0	46	68	91	114	136	159	182
S10S-625-01R	15	HEAD IN FEET		100	96	90	88	77	67	57	47
S10S-625-01	25			160	146	136	125	113	102	86	61
S10S-625-02RR	30			191	190	180	169	156	139	113	85
S10S-625-02R	30			230	225	213	198	184	165	141	107
S10S-625-02	40			298	275	265	248	230	210	182	142
S10S-625-03RR	50			335	315	299	280	259	233	200	155
S10S-625-03R	50			364	358	337	314	292	265	229	178
S10S-625-03	60			410	394	380	352	327	300	260	200
S10S-625-04RR	75			477	453	431	406	377	334	271	187
S10S-625-04R	75			540	505	479	449	418	373	305	220
S10S-625-04	85/100			570	543	520	493	462	418	355	250

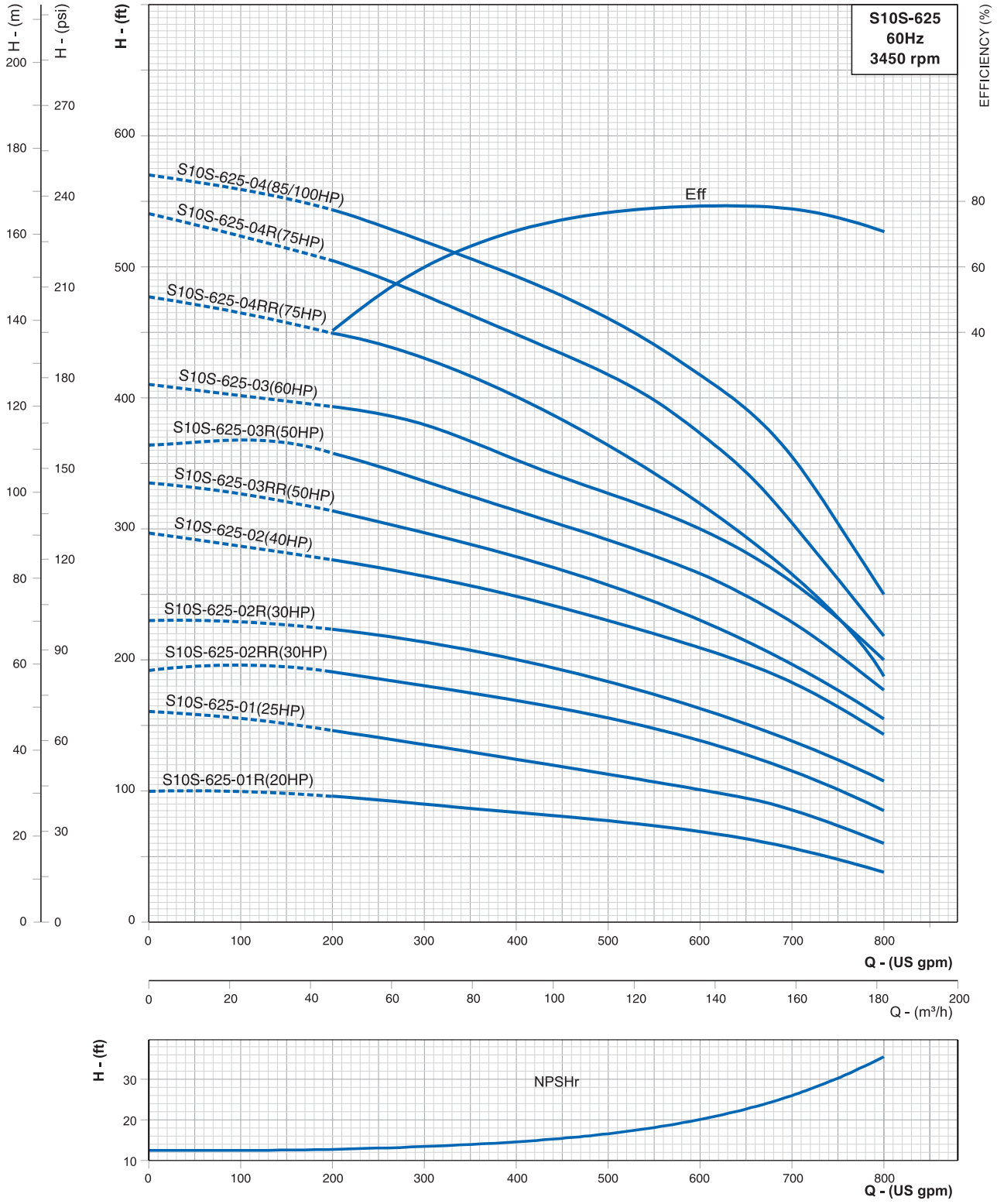
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
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STAINLESS STEEL SERIES

Nominal Diameter : **10"** | Nominal Flow : **625 gpm** | Outlet Size : **6" NPT**

PERFORMANCE CURVES

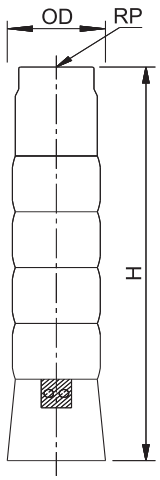
FLOW RANGE : 200 - 800 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **10"** | Nominal Flow : **625 gpm** | Outlet Size : **6" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S10S-625-05RR	75	100	1 / 2	8.3 / 8.5	6	49.61	122
S10S-625-05R	75	100	1 / 2	8.3 / 8.5	6	49.61	122
S10S-625-05	75	100	1 / 2	8.3 / 8.5	6	49.61	122
S10S-625-06RR	75	100	1 / 2	8.3 / 8.5	6	55.67	135
S10S-625-06	93	125	1 / 2	8.3 / 8.5	6	55.67	135
S10S-625-07RR	93	125	1 / 2	8.3 / 8.5	6	61.73	149
S10S-625-07R	110	150	1 / 2	8.3 / 8.5	6	61.73	149
S10S-625-07	110	150	1 / 2	8.3 / 8.5	6	61.73	149
S10S-625-08	132	175	1 / 2	8.3 / 8.5	6	67.80	162
S10S-625-09	132	175	1 / 2	8.3 / 8.5	6	73.86	176
S10S-625-10	150	200	1 / 2	8.3 / 8.5	6	79.92	189

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	200	300	400	500	600	700	800
			m^3/h	0	46	68	91	114	136	159	182
S10S-625-05RR	100	HEAD IN FEET		586	584	560	524	488	446	388	307
S10S-625-05R	100			629	625	597	559	545	485	412	315
S10S-625-05	100			695	660	635	603	567	520	444	326
S10S-625-06RR	100			718	703	675	632	590	539	460	350
S10S-625-06	125			810	794	758	710	662	610	530	430
S10S-625-07RR	125			858	926	806	754	700	638	550	438
S10S-625-07R	150			884	881	834	783	728	668	590	446
S10S-625-07	150			945	926	881	827	772	710	623	510
S10S-625-08	175			1090	1073	1034	972	900	815	713	590
S10S-625-09	175			1210	1184	1135	1060	987	910	806	650
S10S-625-10	200			1342	1308	1256	1180	1098	1008	890	725

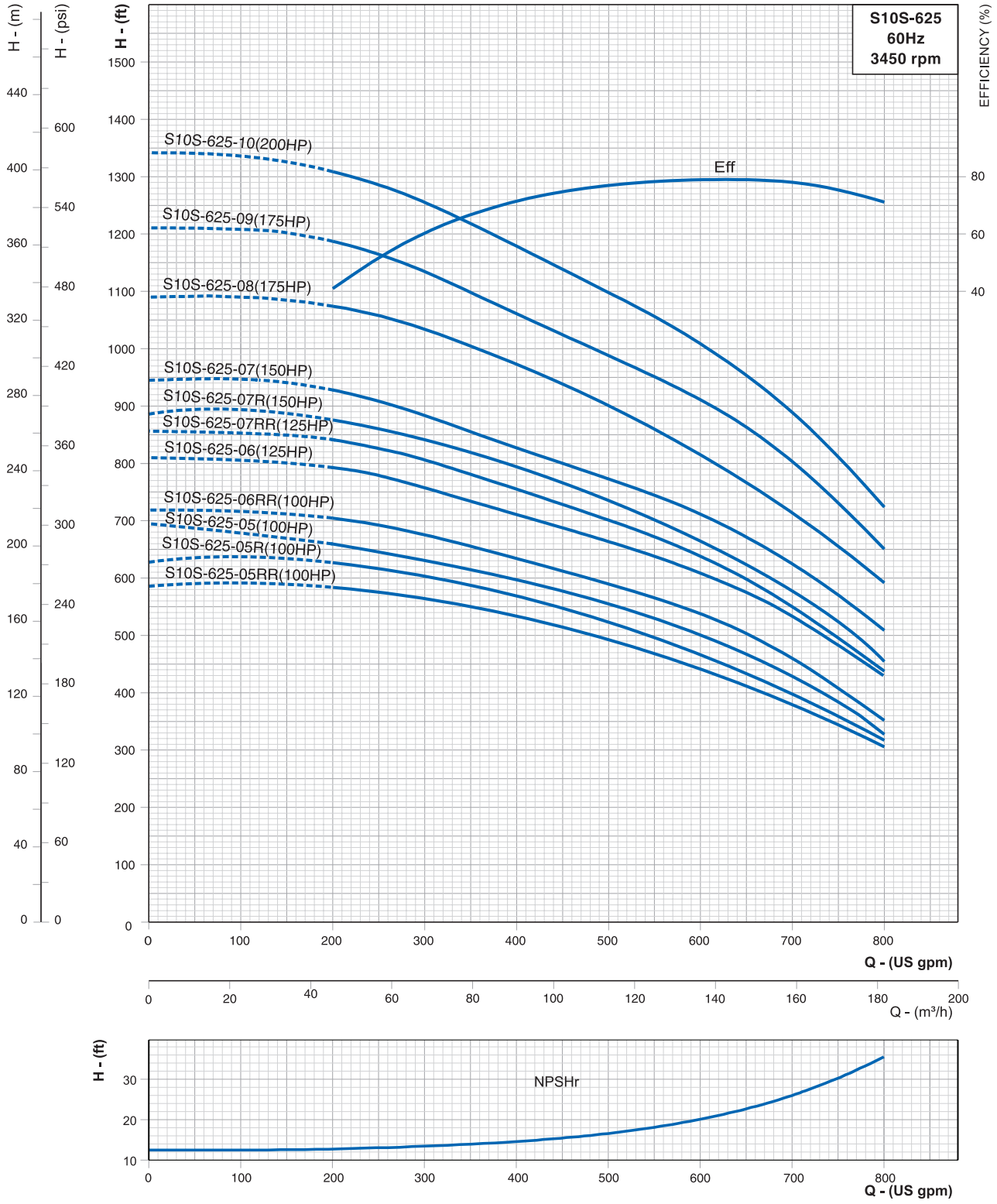
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **10"** | Nominal Flow : **625 gpm** | Outlet Size : **6" NPT**

PERFORMANCE CURVES

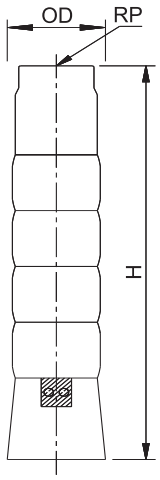
FLOW RANGE : 200 - 800 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **10"** | Nominal Flow : **800 gpm** | Outlet Size : **6" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S10S-800-01R	15	20	1 / 2	8.3 / 8.6	6	25.43	67
S10S-800-01	22	30	1 / 2	8.3 / 8.6	6	25.43	67
S10S-800-02RR	26/60	35/40	1 / 2	8.3 / 8.6	6	31.57	80
S10S-800-02R	37	50	1 / 2	8.3 / 8.6	6	31.57	80
S10S-800-02	37	50	1 / 2	8.3 / 8.6	6	31.57	80
S10S-800-03RR	45	60	1 / 2	8.3 / 8.6	6	37.72	94
S10S-800-03R	55	75	1 / 2	8.3 / 8.6	6	37.72	94
S10S-800-03	55	75	1 / 2	8.3 / 8.6	6	37.72	94
S10S-800-04RR	75	100	1 / 2	8.3 / 8.6	6	43.86	108
S10S-800-04R	75	100	1 / 2	8.3 / 8.6	6	43.86	108
S10S-800-04	75	100	1 / 2	8.3 / 8.6	6	43.86	108
S10S-800-05RR	93	125	1 / 2	8.3 / 8.6	6	50.00	123
S10S-800-05R	93	125	1 / 2	8.3 / 8.6	6	50.00	123
S10S-800-05	93	125	1 / 2	8.3 / 8.6	6	50.00	123

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	200	400	600	800	900	1000	1080
			m^3/h	0	46	91	136	182	205	227	246
S10S-800-01R	20	HEAD IN FEET		120	108	92	80	67	55	40	25
S10S-800-01	30			161	156	134	113	100	93	77	63
S10S-800-02RR	35/40			223	212	188	165	135	114	80	54
S10S-800-02R	50			262	253	226	195	165	146	118	90
S10S-800-02	50			287	288	252	215	189	171	148	118
S10S-800-03RR	60			370	363	330	292	238	206	165	125
S10S-800-03R	75			410	403	360	310	266	239	199	150
S10S-800-03	75			449	442	392	338	295	270	230	182
S10S-800-04RR	100			509	500	444	387	328	287	230	175
S10S-800-04R	100			545	538	478	415	357	314	260	207
S10S-800-04	100			588	580	510	440	383	343	290	238
S10S-800-05RR	125			650	642	572	500	426	373	300	232
S10S-800-05R	125			690	680	605	522	450	400	330	247
S10S-800-05	125			733	720	638	552	480	430	364	300

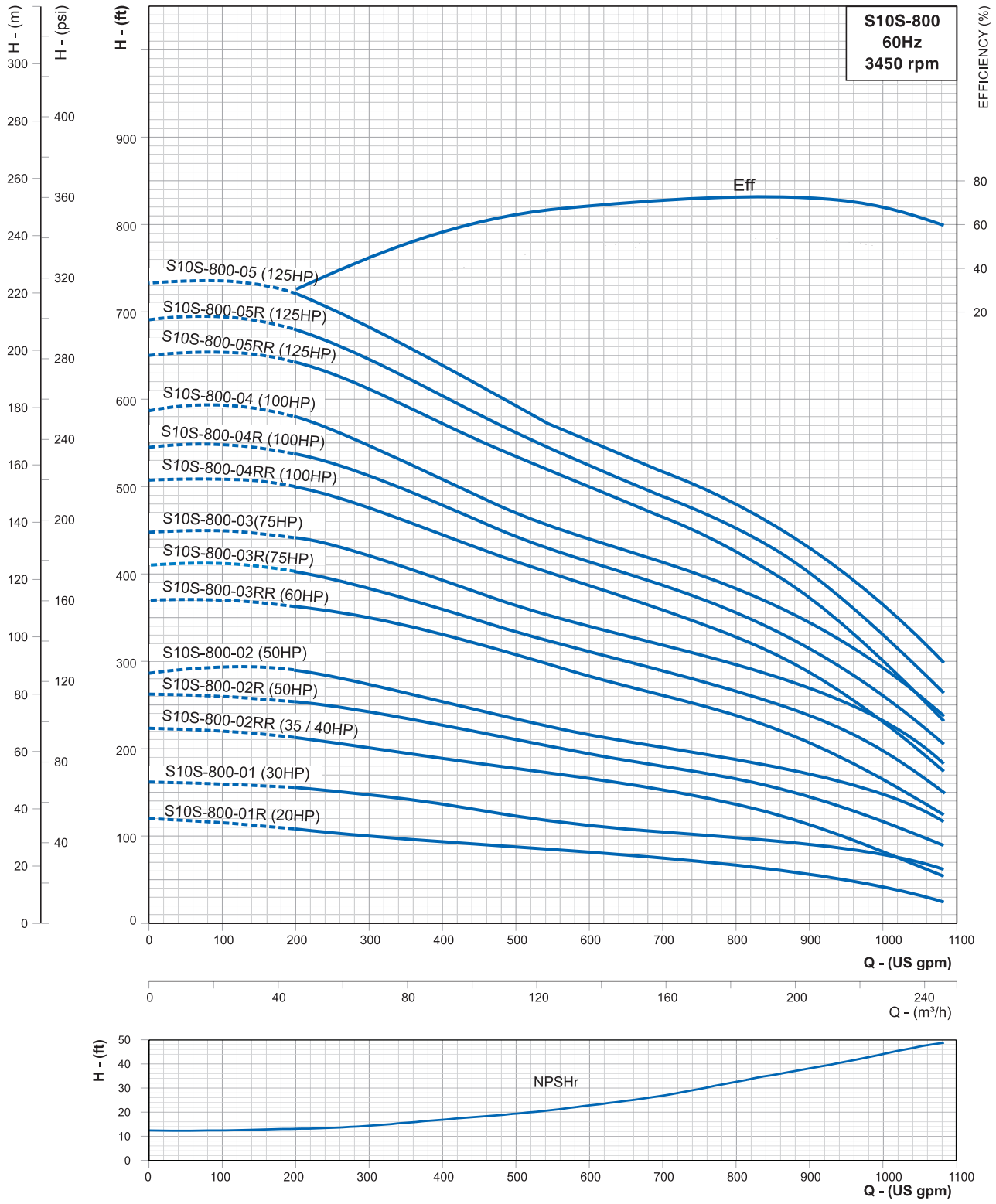
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **10"** | Nominal Flow : **800 gpm** | Outlet Size : **6" NPT**

PERFORMANCE CURVES

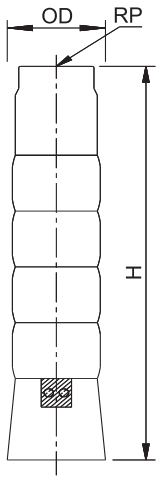
FLOW RANGE : 200 - 1080 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **10"** | Nominal Flow : **800 gpm** | Outlet Size : **6" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S10S-800-06	110	150	1 / 2	8.3 / 8.6	6	56.14	136
S10S-800-07	132	175	1 / 2	8.3 / 8.6	6	62.28	150
S10S-800-08	150	200	1 / 2	8.3 / 8.6	6	68.43	164
S10S-800-09	170/187	225/250	1 / 2	8.3 / 8.6	6	74.57	184
S10S-800-10	187	250	1 / 2	8.3 / 8.6	6	80.71	198

PERFORMANCE TABLE

PUMP MODEL	HP	gpm	0	200	400	600	800	900	1000	1080
		m^3/h	0	46	91	136	182	205	227	246
S10S-800-06	150	HEAD IN FEET	854	850	748	662	565	515	425	364
S10S-800-07	175		1017	998	868	768	688	583	495	400
S10S-800-08	200		1155	1138	1011	858	765	675	563	469
S10S-800-09	225/250		1265	1284	1126	985	859	765	645	513
S10S-800-10	250		1454	1425	1262	1110	945	825	720	585

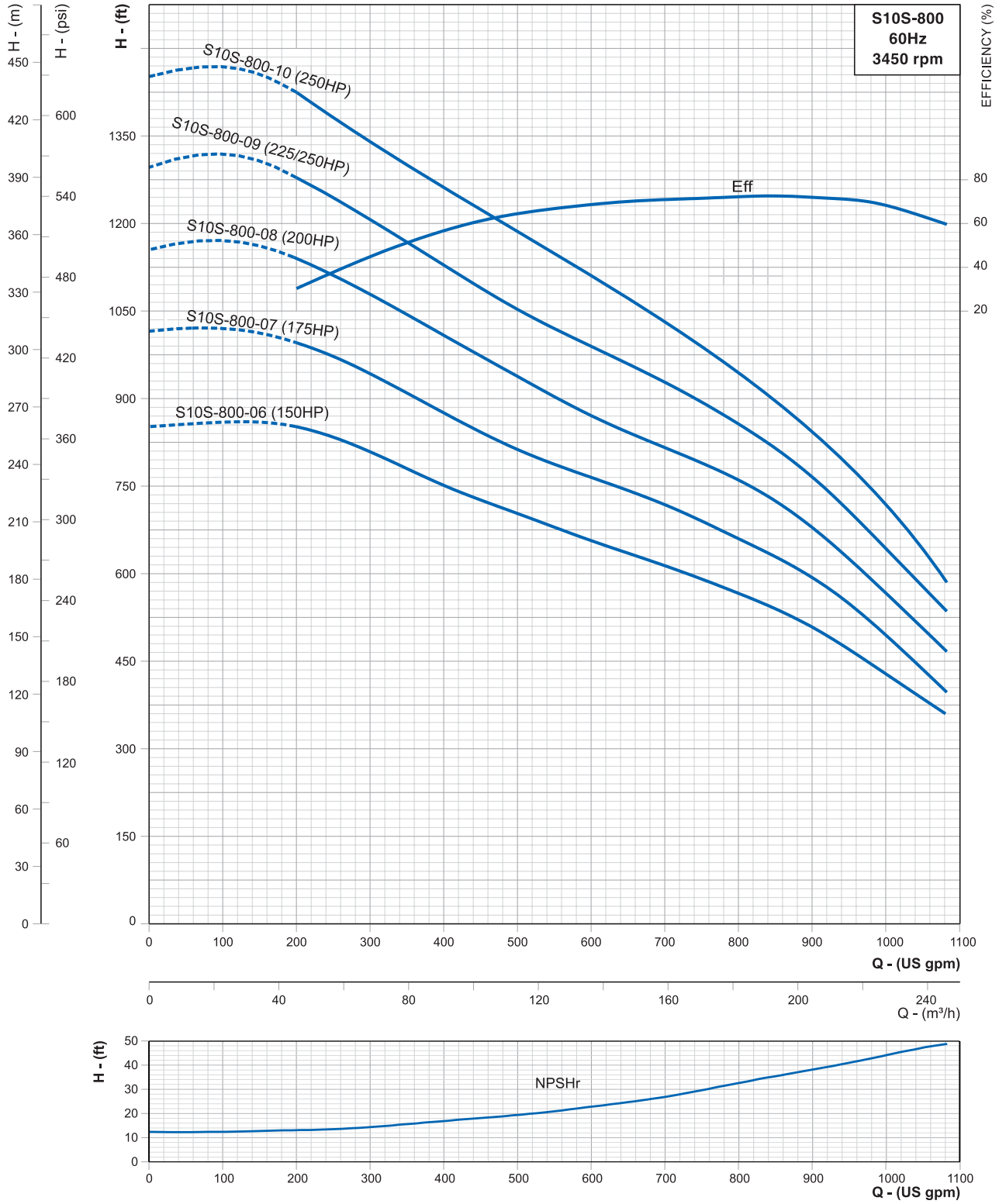
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
The given performance curves are same for Type - S & N.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

STAINLESS STEEL SERIES

Nominal Diameter : **10"** | Nominal Flow : **800 gpm** | Outlet Size : **6" NPT**

PERFORMANCE CURVES

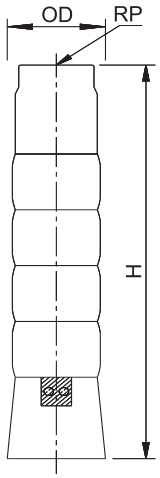
FLOW RANGE : 200 - 1080 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

STAINLESS STEEL SERIES

Nominal Diameter : **10"** | Nominal Flow : **A75 gpm** | Outlet Size : **6" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	REQUIRED MOTOR POWER		No OF CABLE GUARD	DIMENSIONS (Inches)			APPROX NETT. WEIGHT (lbs)
	kW	HP		OD	RP	H	
S10S-A75-01R	22	30	1 / 2	9.7 / 10.0	6	31	118
S10S-A75-01	30	40	1 / 2	9.7 / 10.0	6	31	118
S10S-A75-02RR	45	60	1 / 2	9.7 / 10.0	6	38	145
S10S-A75-02R	55	75	1 / 2	9.7 / 10.0	6	38	145
S10S-A75-02	75	100	1 / 2	9.7 / 10.0	6	38	145
S10S-A75-03RR	75	100	1 / 2	9.7 / 10.0	6	45	173
S10S-A75-03R	93	125	1 / 2	9.7 / 10.0	6	45	173
S10S-A75-03	93	125	1 / 2	9.7 / 10.0	6	45	173
S10S-A75-04RR	110	150	1 / 2	9.7 / 10.0	6	52	201
S10S-A75-04R	110	150	1 / 2	9.7 / 10.0	6	52	201
S10S-A75-04	110	150	1 / 2	9.7 / 10.0	6	52	201
S10S-A75-05RR	130	175	1 / 2	9.7 / 10.0	6	59	228
S10S-A75-05R	130	175	1 / 2	9.7 / 10.0	6	59	228
S10S-A75-05	150	200	1 / 2	9.7 / 10.0	6	59	228
S10S-A75-06RR	170/187	225/250	1 / 2	9.7 / 10.0	6	66	256
S10S-A75-06R	187	250	1 / 2	9.7 / 10.0	6	66	256
S10S-A75-06	187	250	1 / 2	9.7 / 10.0	6	66	256
S10S-A75-07	220	300	1 / 2	9.7 / 10.0	6	73	283

PERFORMANCE TABLE

PUMP MODEL	HP		gpm	0	300	400	600	800	1000	1200	1400
			m^3/h	0	68	91	136	182	227	273	318
S10S- A75-01R	30	HEAD IN FEET		123	119	115	105	90	79	53	25
S10S- A75-01	40			180	170	160	140	130	117	100	70
S10S- A75-02RR	60			250	242	235	222	199	170	130	70
S10S- A75-02R	75			303	290	280	258	232	210	175	110
S10S- A75-02	100			361	342	330	295	266	240	210	156
S10S- A75-03RR	100			431	415	400	370	338	304	250	157
S10S- A75-03R	125			485	468	450	410	371	335	286	200
S10S- A75-03	125			538	512	490	445	400	364	315	236
S10S- A75-04RR	150			610	588	560	520	475	430	360	250
S10S- A75-04R	150			660	634	613	556	505	453	390	275
S10S- A75-04	150			710	680	654	592	534	484	420	315
S10S- A75-05RR	175			788	759	734	670	610	550	478	318
S10S- A75-05R	175			836	802	770	704	638	580	498	365
S10S- A75-05	200			894	854	822	743	670	608	530	405
S10S- A75-06RR	225/250			970	928	890	820	753	679	575	415
S10S- A75-06R	250			1020	980	943	858	775	704	605	445
S10S- A75-06	250			1070	1023	986	890	804	732	638	484
S10S- A75-07	300			1280	1180	1135	1036	942	865	756	573

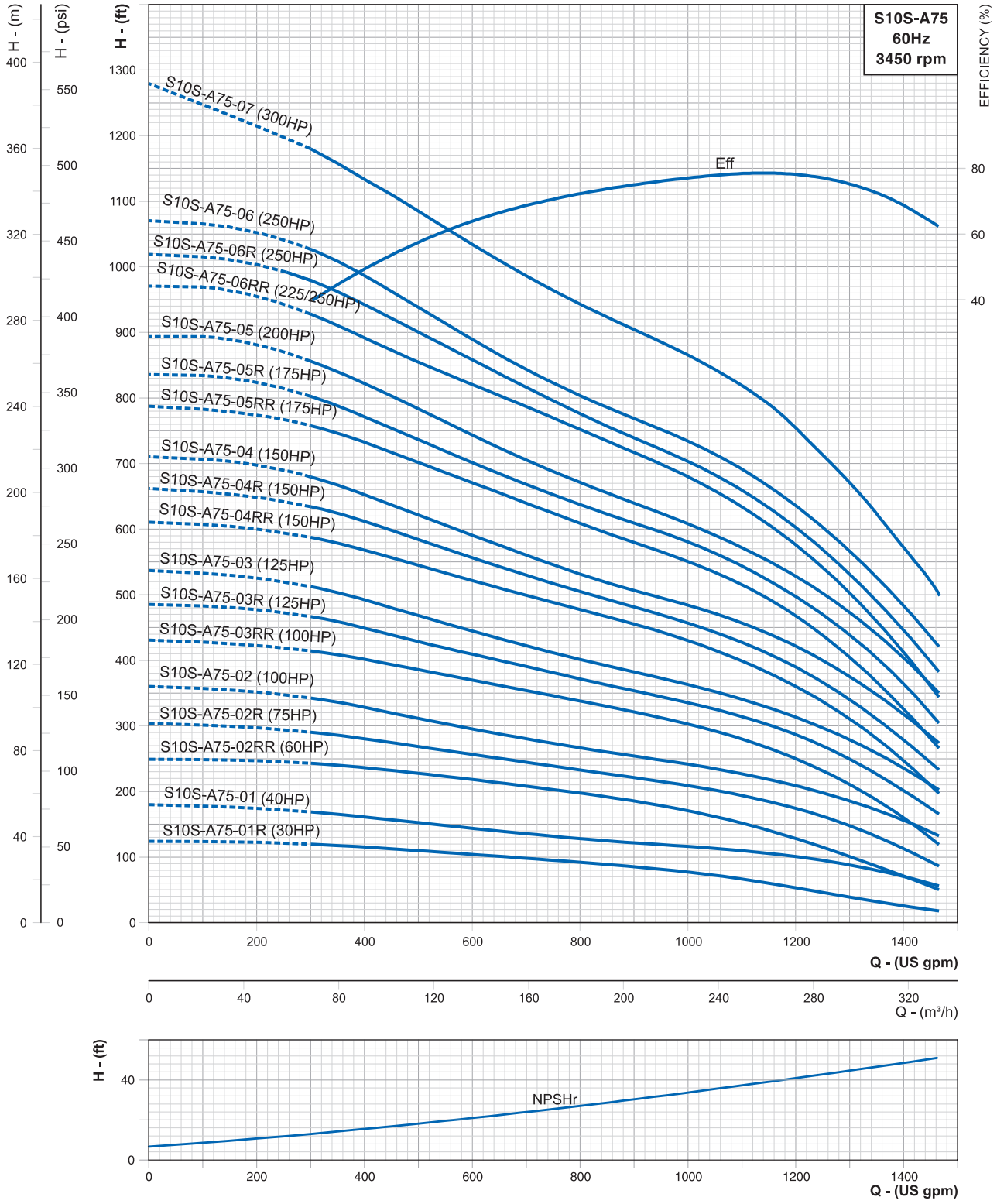
Available types of materials of construction : S (S.S-304) and N (S.S-316). In case of M.O.C Type - N the third digit of the pump model "S" will be replaced with "N".
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STAINLESS STEEL SERIES

Nominal Diameter : **10"** | Nominal Flow : **A75 gpm** | Outlet Size : **6" NPT**

PERFORMANCE CURVES

FLOW RANGE : 300 - 1465 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SILVER LINE SERIES



GENERAL INFORMATION

SILVER LINE SERIES SUBMERSIBLE PUMPS

C.R.I. Submersible Pumps are the products of the expertise gained from over six decades of experience, endurance and workmanship. These products are engineered to perfection with utmost care and stringent quality control at all stages to ensure a trouble free service.

C.R.I. 4" Silver line series submersible pumps are built with thermoplastic impellers, diffusers and inbulit check valve. All vital components of these pumps are made of corrosive resistance thermoplastic and the shaft is of SS 304/431. Pumps are multi stage centrifugal type. The optimal design of impellers and diffusers enables the best possible hydraulic efficiency.

The pump is firmly coupled to a submersible electric motor upto 1.5 HP and flow upto 25 gpm. Above 1.5 HP pump will be supplied separately. Built in check valve prevents back flow and reduces the risk of water hammering. All mounting dimensions of pumps & motors are in accordance with **NEMA standard**.

C.R.I. Submersible pumps can be offered with either C.R.I. 'W' Series, water filled rewindable submersible motors / C.R.I. 'R' Series, encapsulated semi wet type submersible motor / C.R.I. "L" Series edible oil filled submersible motors.

Features : • High efficiency • Floating impeller Technology • S.S. NRV & suction inter connector • Can be easily dismantled and repaired.

Applications : • Residential • Irrigation • Civil water supply • Fountains • Gardens • Sprinkler systems • Industrial and rural water supply • Fire fighting • Pressure boosting units.



SILVER LINE SERIES

Pumped Liquids

Clean, Thin, Non-aggresive, Non explosive, Clear, Cold, Fresh Water without abrasives, Solid particles or fibre having the following characteristics

a)	**Temperature**	91.4°F (33 °C) (max)
b)	**Permissible amount of sand**	0.82 lb/1000 gal (max)
c)	**Chlorine ion density**	500 ppm (max)
d)	**Allowable solids**	3000 ppm (max)
e)	**Specific gravity**	1.004 (max)
f)	**Hardness (Drinking water)**	300 ppm (max)
g)	**Viscosity**	1.75 x $10^{6}m^{2}$/sec (max)
h)	**Turbidity**	50 ppm silica scale (max)
i)	**pH**	6.5 to 8.5

TECHNICAL SPECIFICATIONS		
NOMINAL DIAMETER		**4"(100mm)**
POWER RANGE		½ - 10 HP
SPEED		3450 rpm
Discharge Range	**US gpm**	3 - 120
	m^3/h	0.7 - 27
Head Range	**ft**	15 - 1020
	m	4.5 - 311
Outlet size in inches		1, 1¼, 1½ & 2
Minimum cooling flow along the motor		0.25 ft/s

Performance Curve Conditions

a) The performance curves show pump performance at rated Speed and voltage

b) The measurements were made with clear, cold, fresh airless water at a temperature of 68°F (20°C)

c) Pipe friction losses have not been included in the performance curves and charts.

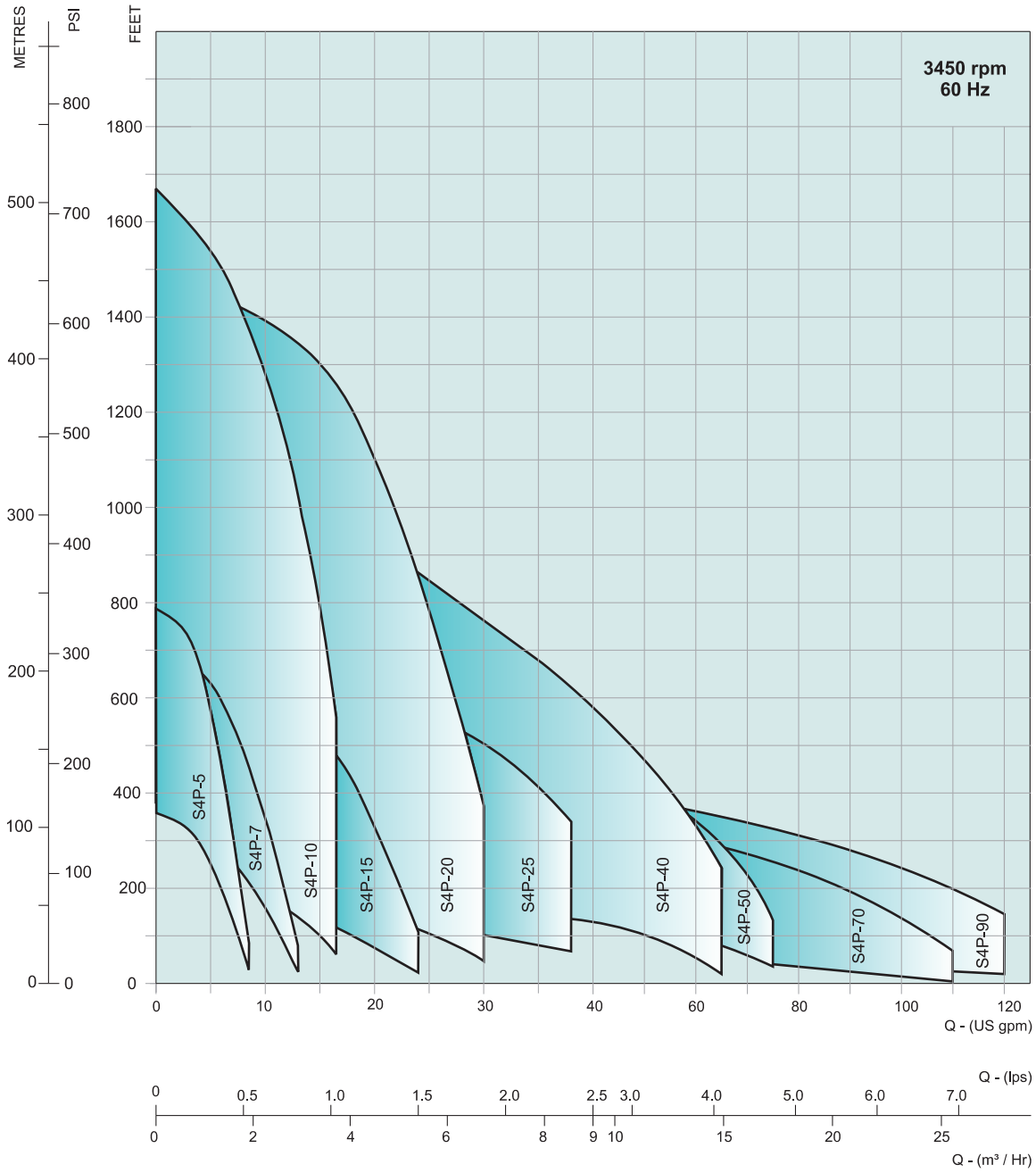
d) Efficiency curve "Eff%" shows pump stage efficiency

e) Curves tolerances according to ISO : 9906, Grade - 3B

f) The performance are at rated voltage and are only indicative actual discharge depends on availability of water in well, height of water column & submergence of pump, etc.,

GENERAL INFORMATION

Group Performance Curves



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SILVER LINE SERIES

Materials of Construction

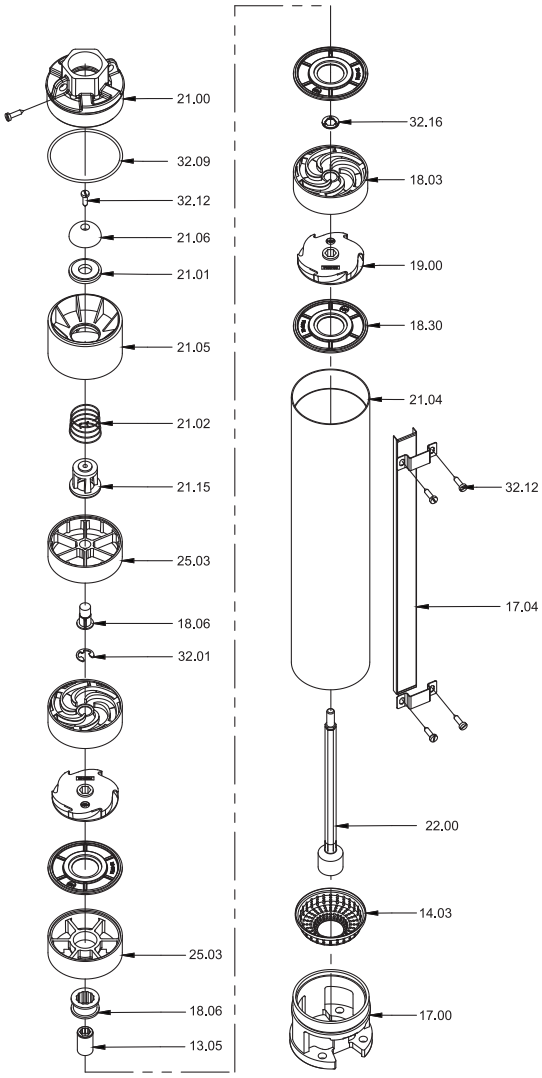
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	TYPE - P	TYPE - V
CHECK VALVE HOUSING	SS - 304	NYLON
CHECK VALVE	DELRIN	DELRIN
CHECK VALVE SEAT	NBR	NBR
OUTER SHELL	SS 304	SS 304
IMPELLER	DELRIN / NORYL / POLYCARBONATE	DELRIN / NORYL / POLYCARBONATE
DIFFUSER CHAMBER	NORYL / POLYCARBONATE	NORYL / POLYCARBONATE
INTERMEDIATE BEARING (SLEEVE)	SS 304	SS - 304
INTERMEDIATE BEARING (BUSH)	NBR	NBR
SUCTION INTER CONNECTOR	SS 304	PPO GF - 20% NORYL GTX830
INLET SCREEN	SS 304	SS - 304
PUMP SHAFT HEXAGONAL	SS 304	SS - 304
CABLE GUARD	SS 304	SS - 304
COUPLING	SS 304 + 329	SS - 304 + 329

Delrin is the registered trademark of Dupont. *Noryl, is the registered trademark of GE plastics.

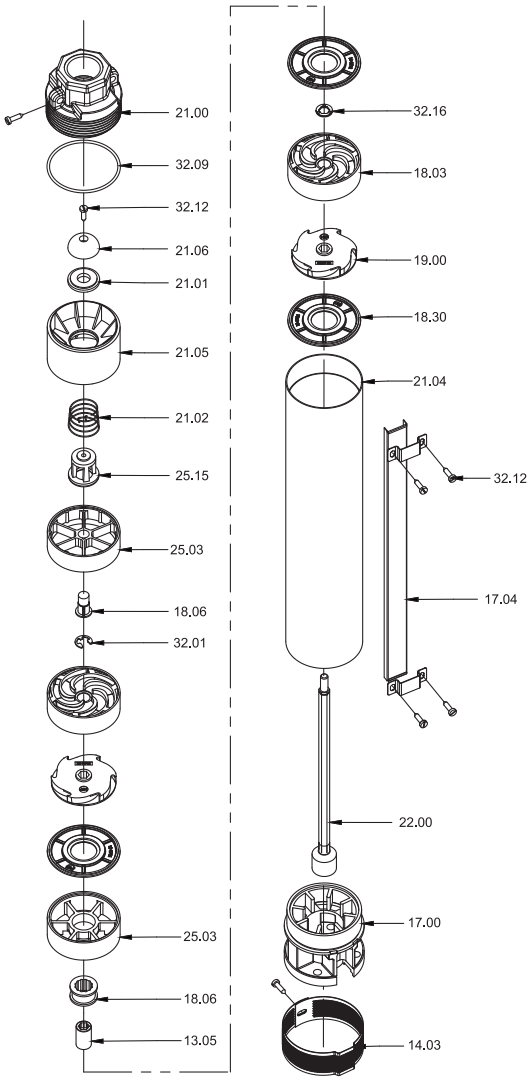
GENERAL INFORMATION

Exploded View

S4P (5 - 25 gpm)



S4V (5 - 25 gpm)



Part No.	Description
13.05	Sleeve
14.03	Strainers
17.00	Suction Inter connecter
17.04	Cable Guard
18.03	Diffuser
18.30	Diffuser Plate
18.06	Bush
19.00	Impeller

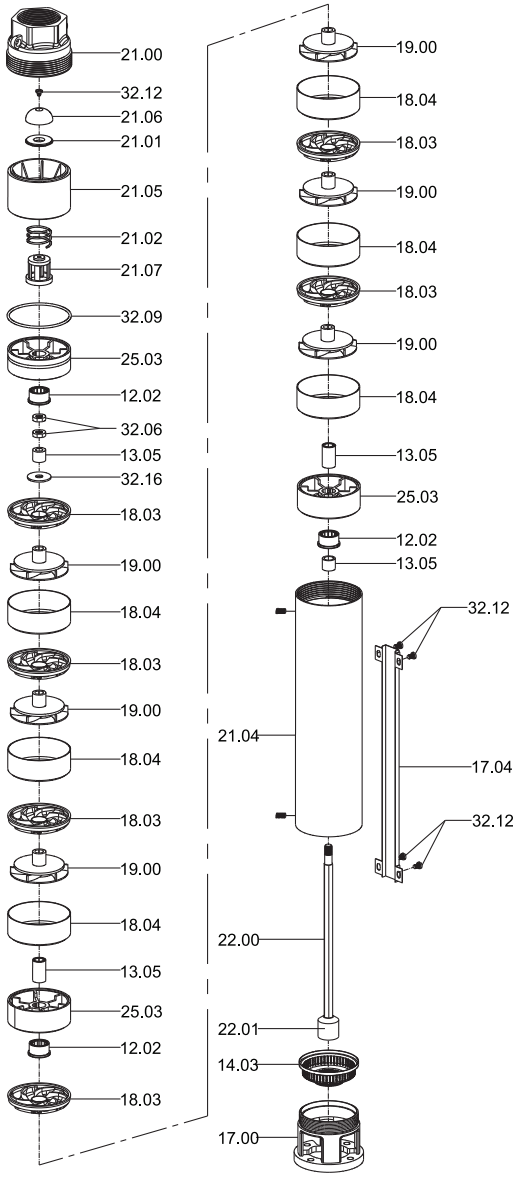
Part No.	Description
21.00	Pumps Shell
21.01	Valve Disc
21.02	Valve Bracket
21.15	Pump Shaft
21.04	Valve Housing
21.06	Valve Seat
21.05	Valve Spring
22.00	Valve Cone

Part No.	Description
22.01	Coupling
25.03	Bracket
32.06	Lock Nut
32.09	O-ring
32.12	Screw
32.16	Washer
32.01	Circlip

SILVER LINE SERIES

Exploded View

S4P (40 gpm)

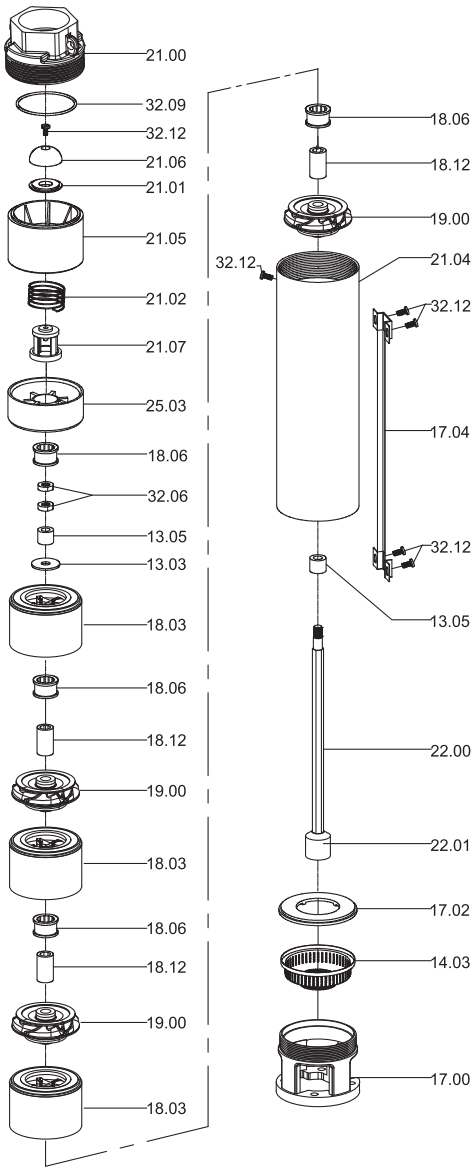


Part No.	Description
12.02	Bush-LTB
13.05	Sleeve
14.03	Strainer
17.00	Suction Inter Connecter
17.04	Cable Guard
18.03	Diffuser
18.04	Chamber Cover

Part No.	Description
19.00	Impeller
21.00	Valve Housing
21.01	Valve Seat
21.02	Valve Spring
21.04	Pump Shell
21.05	Valve Bracket
21.06	Valve Disc

Part No.	Description
21.07	Valve
22.00	Pump Shaft
22.01	Coupling
25.03	Bracket
32.06	Lock Nut
32.09	O-Ring
32.12	Screw
32.16	Washer

S4P (50 gpm)



Part No.	Description
13.03	Up Thrust Washer
13.05	Sleeve
14.03	Strainer
17.00	Suction Inter Connecter
17.02	Suction inter Connector plate
17.04	Cable Guard

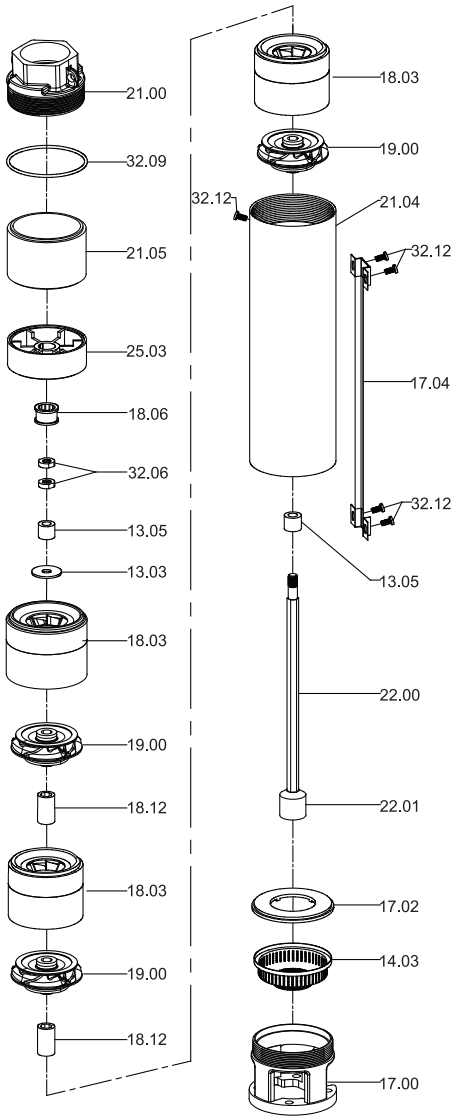
Part No.	Description
18.03	Diffuser
18.06	Bush-Rubber
18.12	Spacer
19.00	Impeller
21.00	Valve Housing
21.01	Valve Seat
21.02	Valve Spring
21.04	Pump Shell
21.05	Valve Bracket

Part No.	Description
21.06	Valve Disc
21.07	Suction valve
22.00	Pump Shaft
22.01	Coupling
25.03	Bracket
32.06	Lock Nut
32.12	Screw
32.09	O Ring

GENERAL INFORMATION

Exploded View

S4P (70 gpm)

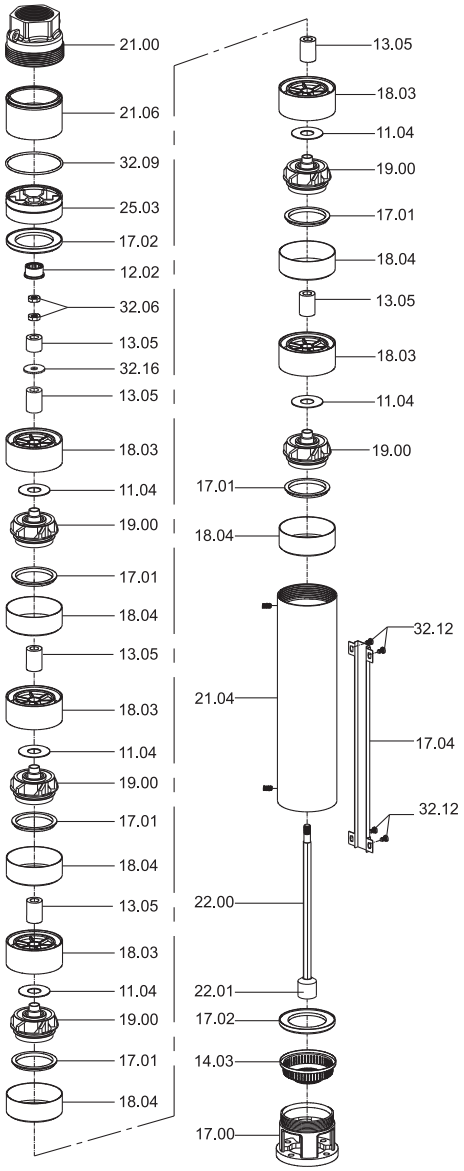


Part No.	Description
13.03	Up Thrust Washer
13.05	Sleeve
14.03	Strainer
17.00	Suction Inter Connecter
17.02	Suction inter Connector plate
17.04	Cable Guard

Part No.	Description
18.03	Diffuser
18.06	Bush-Rubber
18.12	Spacer
19.00	Impeller
21.00	Valve Housing
21.01	Valve Seat
21.02	Valve Spring
21.04	Pump Shell
21.05	Valve Bracket

Part No.	Description
21.06	Valve Disc
21.07	Suction valve
22.00	Pump Shaft
22.01	Coupling
25.03	Bracket
32.06	Lock Nut
32.09	O Ring
32.12	Screw

S4P (90 gpm)



Part No.	Description
12.02	Bush-LTB
13.03	Up Thrust Washer
13.05	Sleeve
14.03	Strainer
17.00	Suction Inter Connector
17.04	Cable Guard
11.04	Thrust Pad
18.03	Diffuser
17.01	Wearing Ring

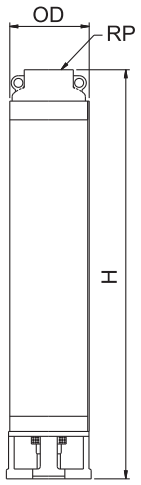
Part No.	Description
18.12	Spacer
19.00	Impeller
21.00	Valve Housing
21.01	Valve Seat
21.02	Valve Spring
21.04	Pump Shell
21.05	Valve Bracket
21.06	Valve Disc
18.04	Chamber Cover

Part No.	Description
21.07	Valve
22.00	Pump Shaft
22.01	Coupling
25.03	Bracket
32.06	Lock Nut
32.09	O-Ring
32.12	Screw
32.16	Washer
17.02	Suction Inter Connector Plate

* For 70 gpm internal NRV is not provided.

SILVER LINE SERIES

Nominal Diameter : **4"** | Nominal Flow : **5 gpm** | Outlet Size : **1¼" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	POWER		DIMENSIONS (Inches)			NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4P-05-14	0.37	0.5	3.9	1	18.43	17
S4P-05/19	0.55	0.75	3.9	1	23.31	19
S4P-05/22	0.75	1	3.9	1	25.51	6
S4P-05/30	1.1	1.5	3.9	1	32.6	8

PERFORMANCE TABLE

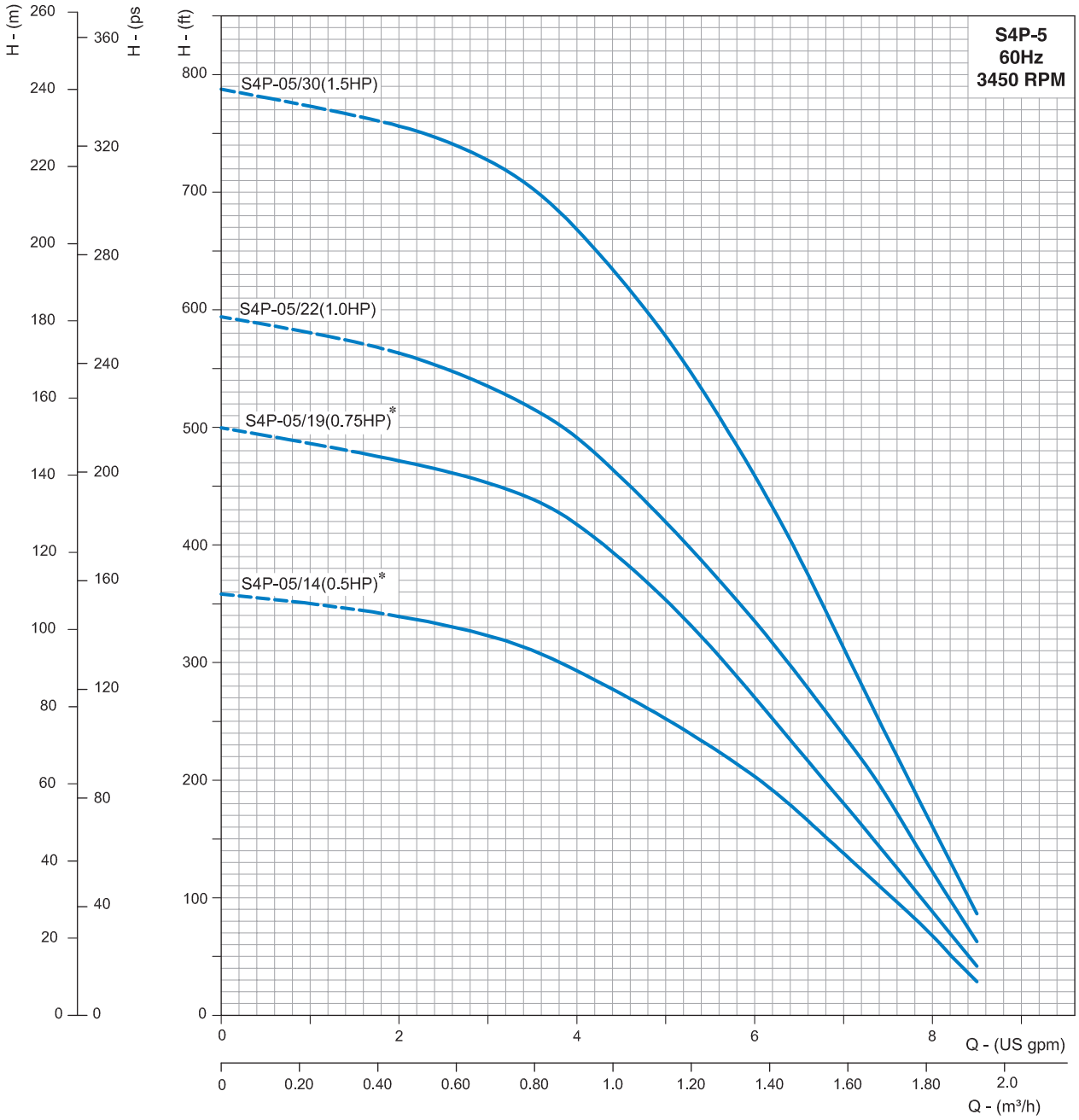
PUMP MODEL	HP	gpm	0	2	4	6	8	8.5
		m^3/h	0	0.5	0.9	1.4	1.8	1.9
S4P-05/14	0.5	HEAD IN FEET	360	341	291	202	65	30
S4P-05/19	0.75		500	469	417	268	89	41
S4P-05/22	1		593	566	482	336	125	63
S4P-05/30	1.5		788	757	669	457	156	86

SILVER LINESERIES

Nominal Diameter : **4"** | Nominal Flow : **5 gpm** | Outlet Size : **1¼" NPT**

PERFORMANCE CURVES

FLOW RANGE : 2 - 8.5 gpm

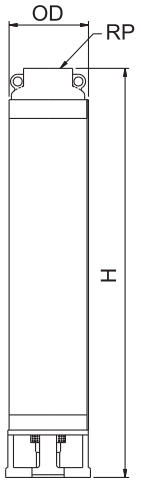


* Marked models are also available in Type-V construction.

Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SILVER LINE SERIES

Nominal Diameter : **4"** | Nominal Flow : **7 gpm** | Outlet Size : **1¼" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	POWER		DIMENSIONS (Inches)			NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4P-07-11	0.37	0.5	3.9	1	17.6	9
S4P-07/15	0.55	0.75	3.9	1	21.1	7
S4P-07/18	0.75	1	3.9	1	4.84	7
S4P-07/22	1.1	1.5	3.9	1	28.31	8

PERFORMANCE TABLE

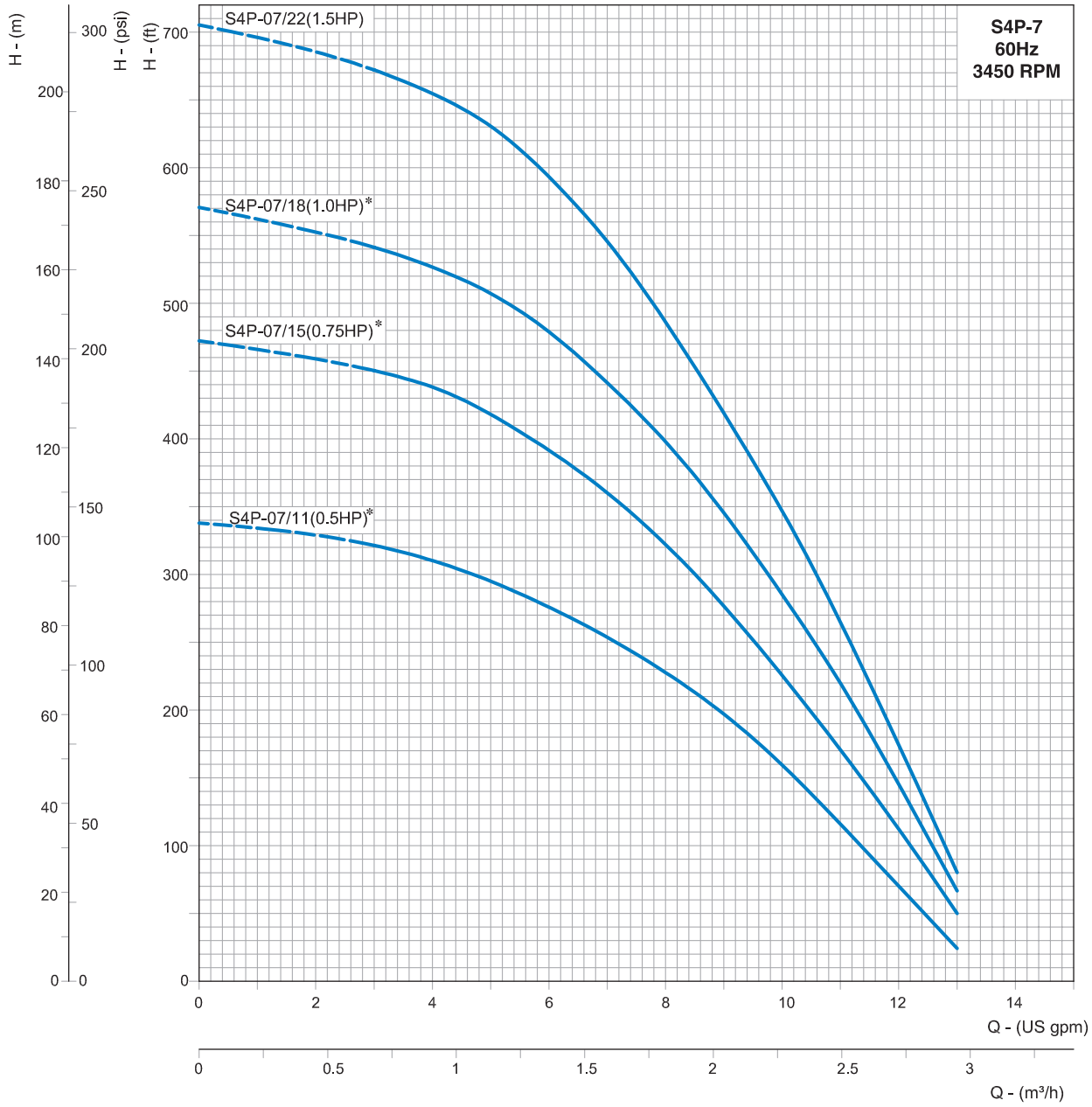
PUMP MODEL	HP	gpm	0	2	4	6	8	10	12	13
		m³/h	0	0.5	0.9	1.4	1.8	2.3	2.7	3.0
S4P-07/11	0.5	HEAD IN FEET	338	332	309	274	227	157	68	24
S4P-07/15	0.75		471	466	436	390	320	224	105	51
S4P-07/18	1		570	545	525	478	399	280	143	66
S4P-07/22	1.5		705	684	651	588	486	342	170	79

SILVER LINESERIES

Nominal Diameter : **4"** | Nominal Flow : **7 gpm** | Outlet Size : **1¼" NPT**

PERFORMANCE CURVES

FLOW RANGE : 3.0 - 13 gpm

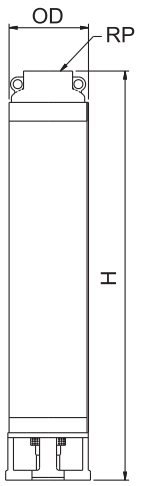


* Marked models are also available in Type-V construction.

Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SILVER LINE SERIES

Nominal Diameter : **4"** | Nominal Flow : **10 gpm** | Outlet Size : **1¼" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	POWER		DIMENSIONS (Inches)			NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4P-10-08	0.37	0.5	3.9	1¼	15.8	15
S4P-10-11	0.55	0.75	3.9	1¼	17.72	19
S4P-10-13	0.75	1	3.9	1¼	19.49	28
S4P-10-17	1.1	1.5	3.9	1¼	23.03	4
S4P-10-22	1.5	2	3.9	1¼	28.66	5
S4P-10-30	2.2	3	3.9	1¼	36.89	6
S4P-10-50	3.7	5	3.9	1¼	55.71	7

PERFORMANCE TABLE

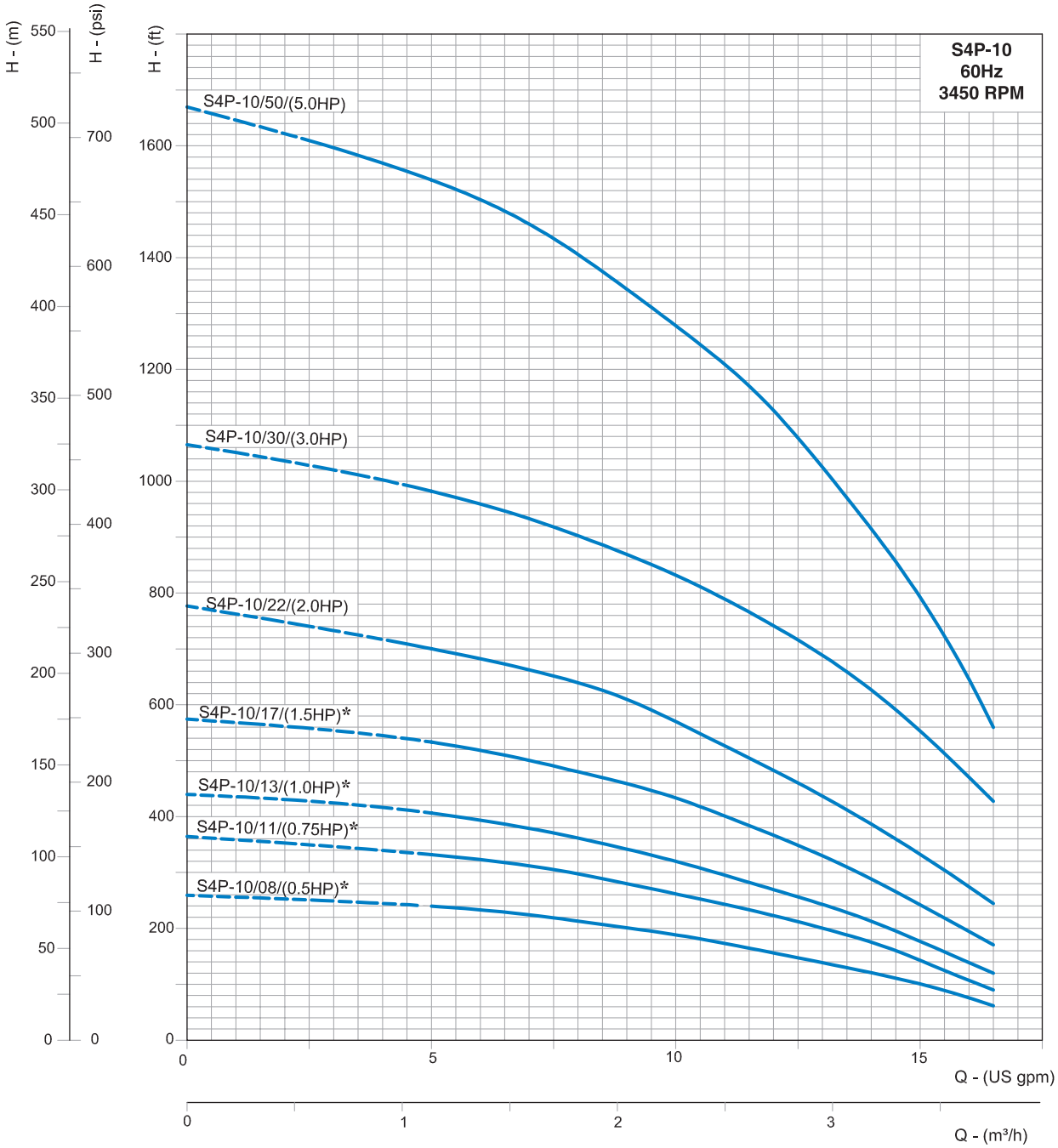
PUMP MODEL	HP	gpm	0	4	8	12	16	16.5
		m^3/h	0	0.9	1.8	2.7	3.6	3.7
S4P-10/08	0.5	HEAD IN FEET	260	245	212	156	73	59
S4P-10/11	0.75		360	342	293	223	110	90
S4P-10/13	1		441	413	359	269	139	121
S4P-10/17	1.5		575	541	479	366	193	169
S4P-10/22	2		780	713	635	484	272	246
S4P-10/30	3		1064	1000	901	738	472	428
S4P-10/50	5		1668	1570	1400	1120	638	563

SILVER LINESERIES

Nominal Diameter : **4"** | Nominal Flow : **10 gpm** | Outlet Size : **1¼" NPT**

PERFORMANCE CURVES

FLOW RANGE : 5 - 16.5 gpm

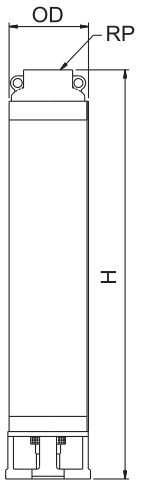


* Marked models are also available in Type-V construction.

Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SILVER LINE SERIES

Nominal Diameter : **4"** | Nominal Flow : **15 gpm** | Outlet Size : **1¼" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	POWER		DIMENSIONS (Inches)			NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4P-15-06	0.37	0.5	3.9	1¼	14.06	6
S4P-15-08	0.55	0.75	3.9	1¼	16.06	7
S4P-15-10	0.75	1	3.9	1¼	18.11	8
S4P-15-12	1.1	1.5	3.9	1¼	20.16	8
S4P-15-15	1.5	2	3.9	1¼	23.11	10
S4P-15-22	2.2	3	3.9	1¼	31.38	17

PERFORMANCE TABLE

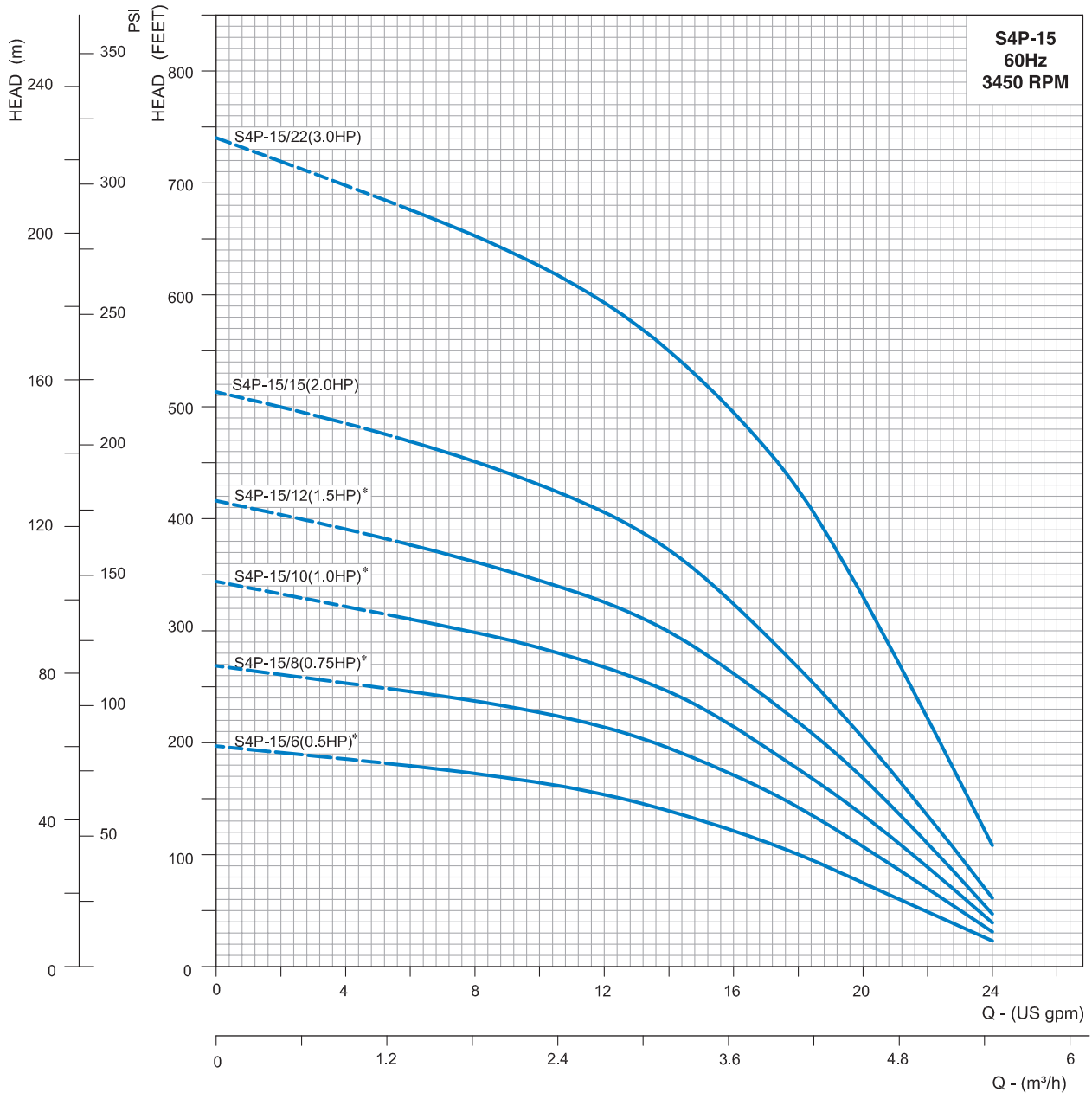
PUMP MODEL	HP	gpm	0	4	8	12	16	20	24
		m^3/h	0	0.9	1.8	2.7	3.6	4.5	5.4
S4P-15/06	0.5	HEAD IN FEET	199	184	172	152	122	76	23
S4P-15/08	0.75		270	253	237	213	172	109	33
S4P-15/10	1		344	322	299	268	214	136	40
S4P-15/12	1.5		417	388	364	326	263	168	50
S4P-15/15	2		512	479	453	405	323	204	66
S4P-15/22	3		740	693	653	595	495	334	110

SILVER LINESERIES

Nominal Diameter : **4"** | Nominal Flow : **15 gpm** | Outlet Size : **1¼" NPT**

PERFORMANCE CURVES

FLOW RANGE : 6 - 24 gpm

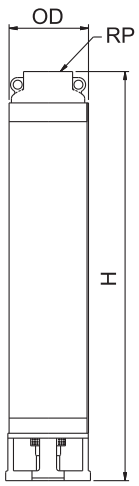


* Marked models are also available in Type-V construction.

Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SILVER LINE SERIES

Nominal Diameter : **4"** | Nominal Flow : **20 gpm** | Outlet Size : **1¼" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	POWER		DIMENSIONS (Inches)			NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4P-20/06	0.55	0.75	3.9	1½	14.8	4
S4P-20/07	0.75	1	3.9	1½	15.98	5
S4P-20/10	1.1	1.5	3.9	1½	19.29	6
S4P-20/12	1.5	2	3.9	1½	21.54	6
S4P-20/17	2.2	3	3.9	1½	27.17	7
S4P-20/28	3.7	5	3.9	1½	40.71	8
S4P-20/40	5.5	7.5	3.9	1½	55.39	9

PERFORMANCE TABLE

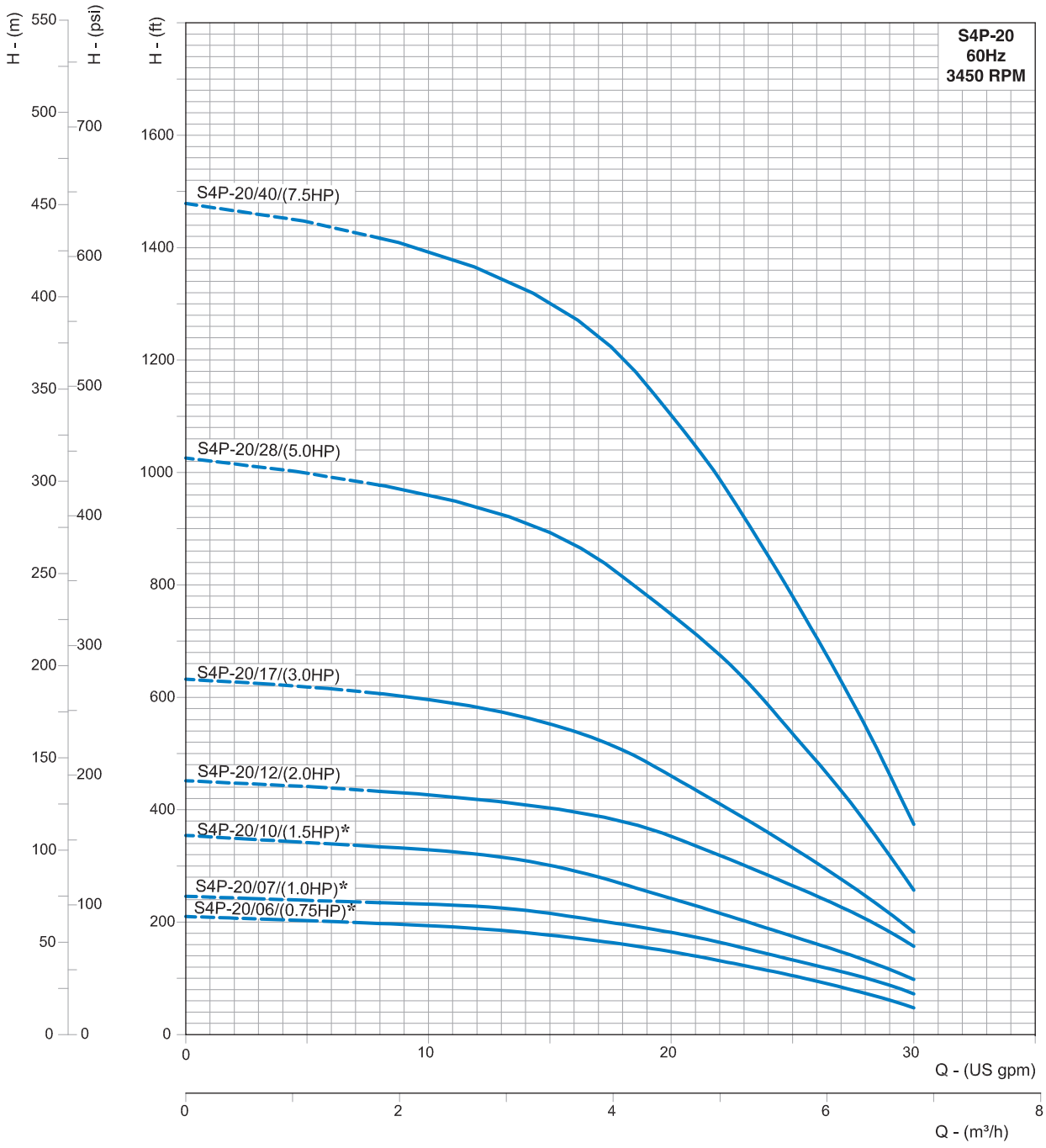
PUMP MODEL	HP	gpm	0	10	15	20	25	30
		m^3/h	0	2.3	3.4	4.5	5.7	6.8
S4P-20/06	0.75	HEAD IN FEET	210	192	180	146	100	44
S4P-20/07	1		248	234	220	176	130	70
S4P-20/10	1.5		351	333	300	239	180	95
S4P-20/12	2		450	433	400	344	260	155
S4P-20/17	3		631	594	550	462	330	179
S4P-20/28	5		1026	958	890	749	540	257
S4P-20/40	7.5		1475	1400	1300	1090	780	367

SILVER LINESERIES

Nominal Diameter : **4"** | Nominal Flow : **20 gpm** | Outlet Size : **1¼" NPT**

PERFORMANCE CURVES

FLOW RANGE : 8 - 30 gpm

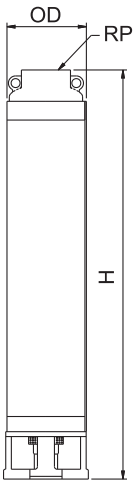


* Marked models are also available in Type-V construction.

Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SILVER LINE SERIES

Nominal Diameter: **4"** | Nominal Flow : **25 gpm** | Oultlet Size : **1½" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	POWER		DIMENSIONS (Inches)			NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4P-25/04	0.75	1	3.9	1½	15.35	6
S4P-25/06	1.1	1.5	3.9	1½	18.27	7
S4P-25/08	1.5	2	3.9	1½	21.18	8
S4P-25/11	2.2	3	3.9	1½	26.97	10
S4P-25/19	3.7	5	3.9	1½	41.22	20

PERFORMANCE TABLE

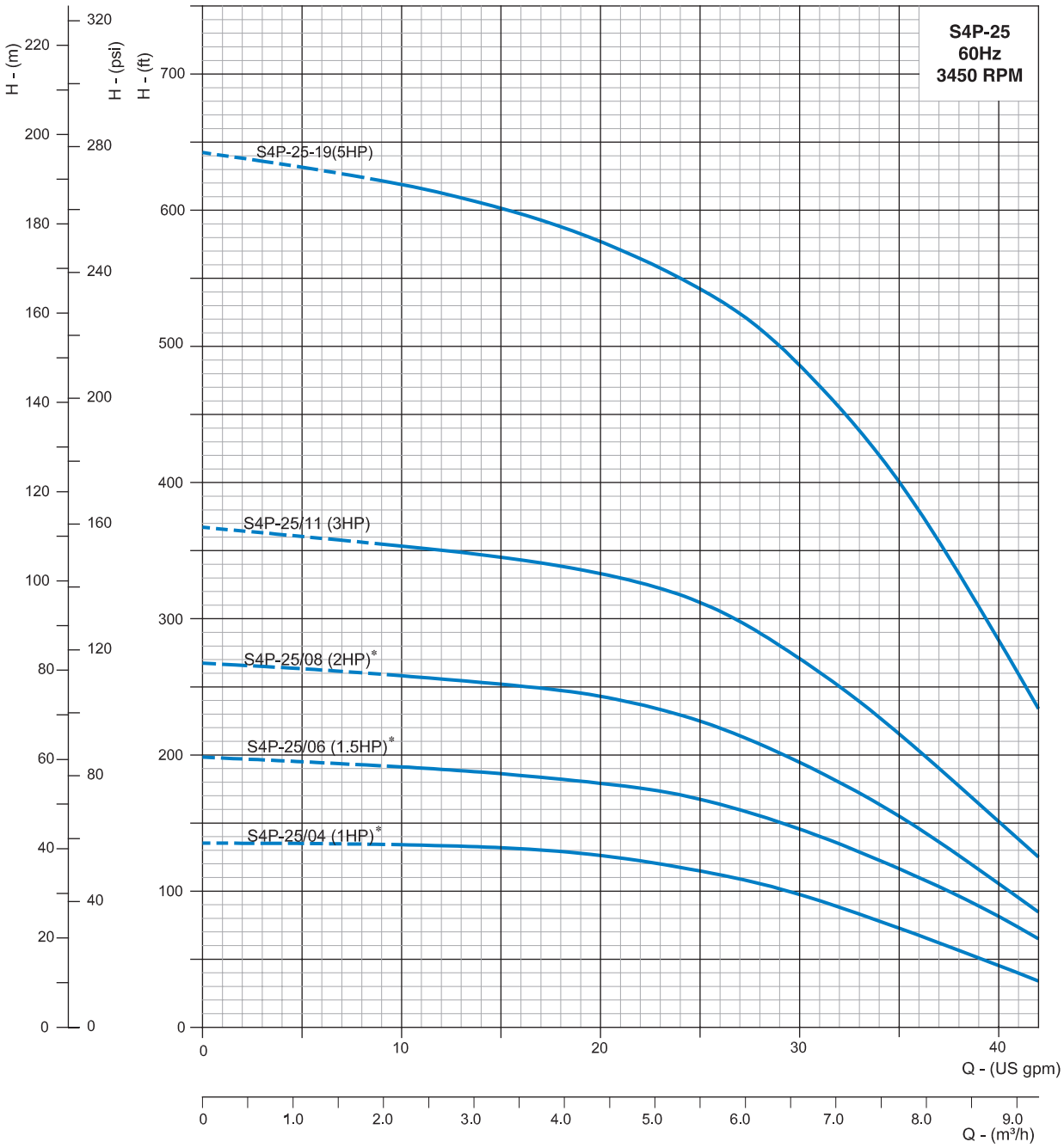
PUMP MODEL	HP	gpm	0	10	20	30	40	42
		m^3/h	0	2.3	4.5	6.8	9.1	9.5
S4P-25/04	1	HEAD IN FEET	135	134	124	96	46	34
S4P-25/06	1.5		198	192	178	145	79	63
S4P-25/08	2		267	259	240	194	106	85
S4P-25/11	3		367	352	335	270	149	126
S4P-25/19	5		642	619	576	486	279	235

SILVER LINESERIES

Nominal Diameter: **4"** | Nominal Flow : **25 gpm** | Oultlet Size : **1½" NPT**

PERFORMANCE CURVES

FLOW RANGE : 9.8 - 40.7 gpm

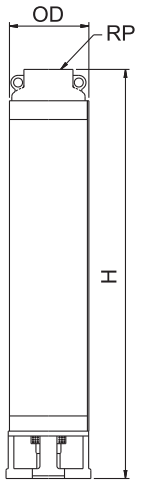


* Marked models are also available in Type-V construction.

Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SILVER LINE SERIES

Nominal Diameter: **4"** | Nominal Flow : **40 gpm** | Oultlet Size : **2" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	POWER		DIMENSIONS (Inches)			NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4P-40/04	1.1	1.5	3.9	2	15	8
S4P-40/06	1.5	2	3.9	2	17	10
S4P-40/09	2.2	3	3.9	2	21	12
S4P-40/12	3	4	3.9	2	24	14
S4P-40/15	3.7	5	3.9	2	29	16
S4P-40/18	4.5	6	3.9	2	33	18
S4P-40/23	5.5	7.5	3.9	2	39	22
S4P-40/30	7.5	10	3.9	2	49	28

PERFORMANCE TABLE

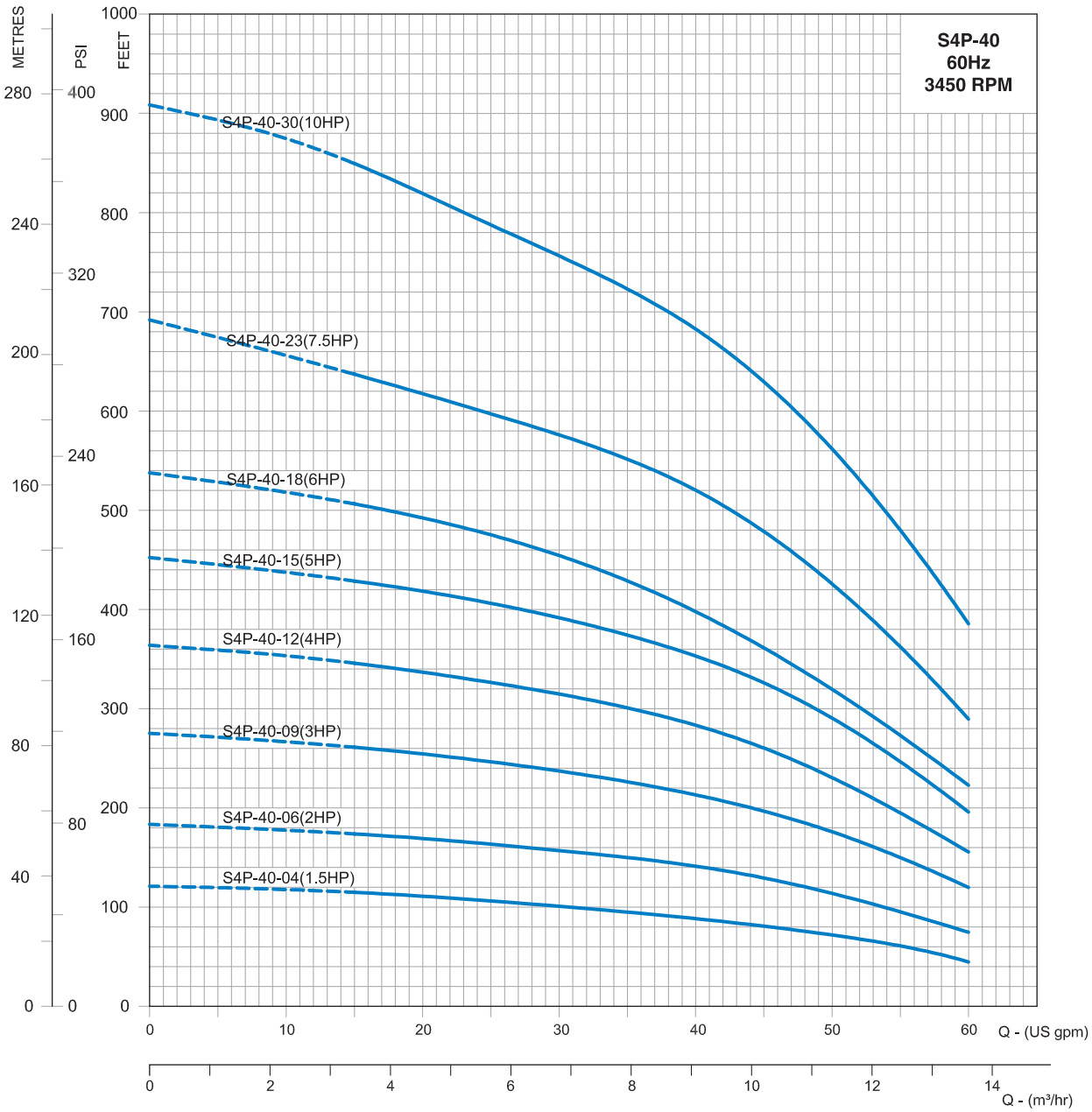
PUMP MODEL	HP	gpm	0	10	20	30	40	50	60
		m^3/h	0	2.3	4.5	6.8	9.1	11.4	13.6
S4P-40/04	1.5	HEAD IN FEET	122	119	110	100	89	72	43
S4P-40/06	2		183	178	169	157	140	114	74
S4P-40/09	3		275	266	254	238	211	173	119
S4P-40/12	4		365	354	337	313	280	231	154
S4P-40/15	5		453	436	417	392	351	289	195
S4P-40/18	6		538	516	491	453	396	317	223
S4P-40/23	7.5		693	654	618	574	516	425	288
S4P-40/30	10		909	869	818	758	680	560	384

SILVER LINESERIES

Nominal Diameter: **4"** | Nominal Flow : **40 gpm** | Oultlet Size : **2" NPT**

PERFORMANCE CURVES

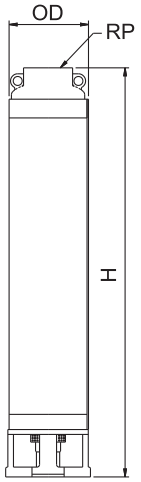
FLOW RANGE : 14.8 - 60 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SILVER LINE SERIES

Nominal Diameter: **4"** | Nominal Flow : **50 gpm** | Oultlet Size : **2" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	POWER		DIMENSIONS (Inches)			NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4P-50/05	1.5	2	3.9	2	20	9
S4P-50/06	1.5	2	3.9	2	22	11
S4P-50/08	2.2	3	3.9	2	27	13
S4P-50/11	3.7	5	3.9	2	33	17
S4P-50/13	3.7	5	3.9	2	38	19
S4P-50/17	5.5	7.5	3.9	2	47	23
S4P-50/20	5.5	7.5	3.9	2	54	25

PERFORMANCE TABLE

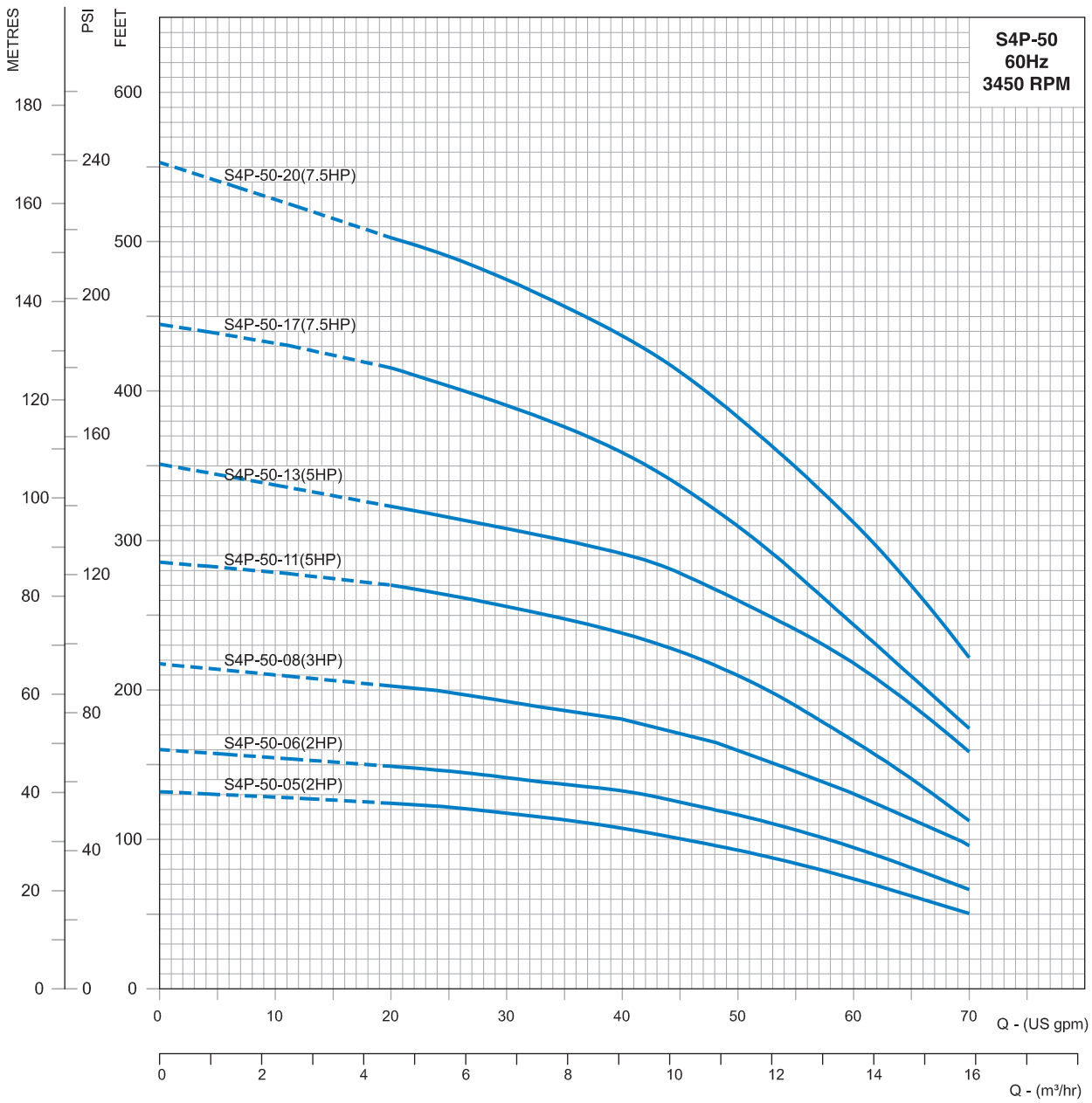
PUMP MODEL	HP	gpm	0	15	30	45	60	70
		m^3/h	0	3.4	3.8	10.2	13.6	15.9
S4P-50/05	2	HEAD IN FEET	132	127	118	102	75	51
S4P-50/06	2		160	152	142	124	95	67
S4P-50/08	3		217	208	194	170	132	97
S4P-50/11	5		286	275	257	225	168	113
S4P-50/13	5		350	330	310	276	217	160
S4P-50/17	7.5		444	426	389	331	247	175
S4P-50/20	7.5		553	513	473	408	308	222

SILVER LINESERIES

Nominal Diameter : **4"** | Nominal Flow : **50 gpm** | Oultlet Size : **2" NPT**

PERFORMANCE CURVES

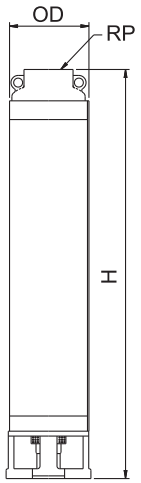
FLOW RANGE : 19.8 - 70 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SILVER LINE SERIES

Nominal Diameter: **4"** | Nominal Flow : **70 gpm** | Oultlet Size : **2" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	POWER		DIMENSIONS (Inches)			NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4P-70/04	1.5	2	3.9	2	21	9
S4P-70/05	2.2	3	3.9	2	24	12
S4P-70/07	3	4	3.9	2	31	17
S4P-70/09	3.7	5	3.9	2	37	22
S4P-70/13	5.5	7.5	3.9	2	49	30

PERFORMANCE TABLE

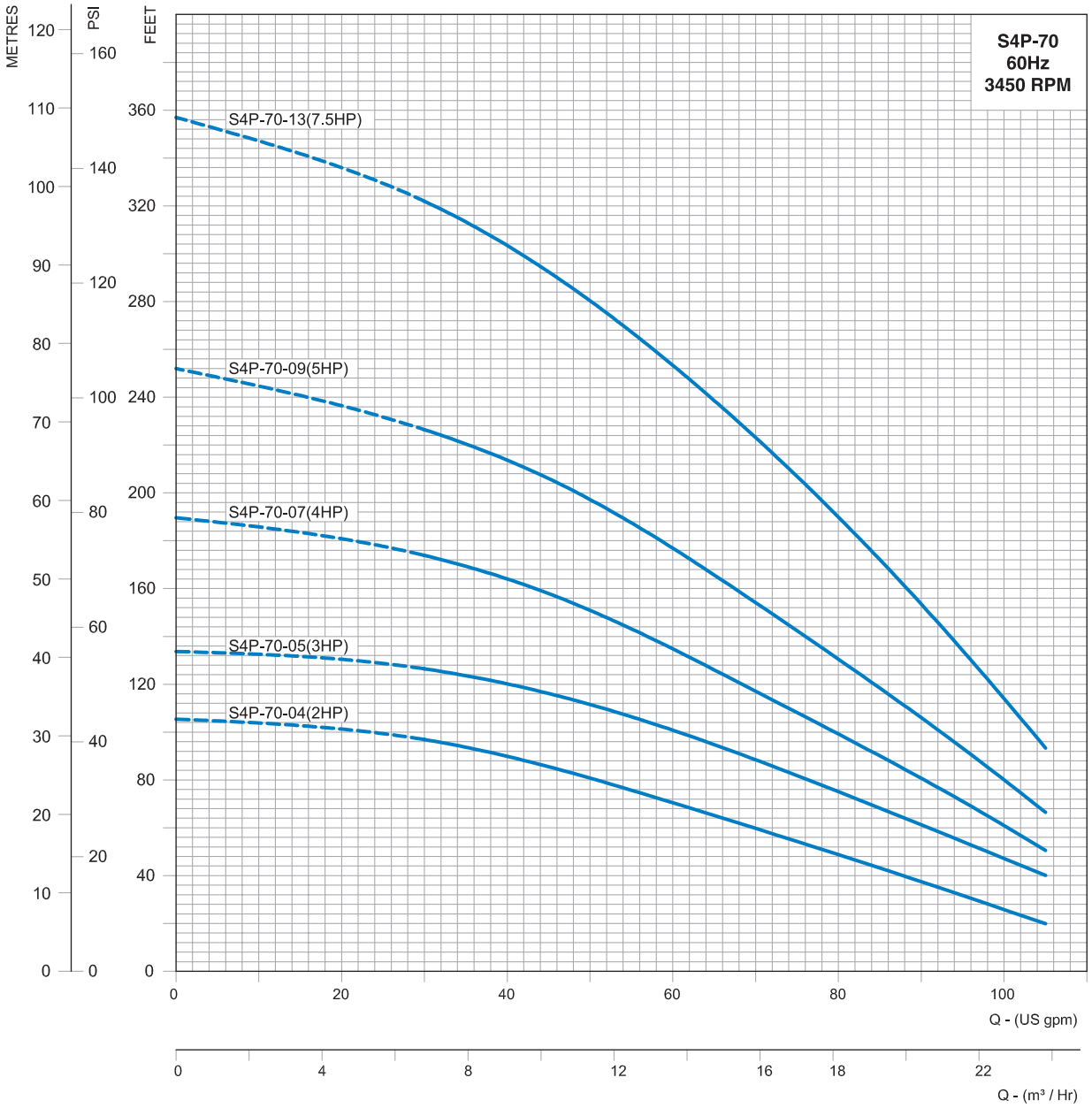
PUMP MODEL	HP	gpm	0	25	50	75	100	105
		m³/h	0	5.7	11.4	17.0	22.7	23.8
S4P-70/04	2	HEAD IN FEET	105	100	80	53	25	20
S4P-70/05	3		134	128	110	81	47	40
S4P-70/07	4		190	178	149	109	59	50
S4P-70/09	5		252	232	195	143	78	66
S4P-70/13	7.5		357	330	278	206	113	93

SILVER LINESERIES

Nominal Diameter : **4"** | Nominal Flow : **70 gpm** | Oultlet Size : **2" NPT**

PERFORMANCE CURVES

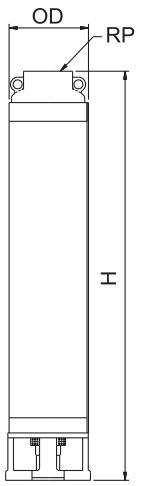
FLOW RANGE : 29.6 - 105 gpm



Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SILVER LINE SERIES

Nominal Diameter: **4"** | Nominal Flow : **90 gpm** | Oultlet Size : **2" NPT**



DIMENSIONS & WEIGHT TABLE

PUMP MODEL	POWER		DIMENSIONS (Inches)			NETT. WEIGHT (lbs)
	kW	HP	OD	RP	H	
S4P-90/03	1.1	1.5	3.9	2	17	10
S4P-90/04	1.5	2	3.9	2	20	11
S4P-90/06	2.2	3	3.9	2	26	13
S4P-90/09	3	4	3.9	2	34	17
S4P-90/11	3.7	5	3.9	2	39	20
S4P-90/13	4	6	3.9	2	45	22
S4P-90/16	5.5	7.5	3.9	2	53	26
S4P-90/20	7.5	10	3.9	2	64	30
S4P-90/22	7.5	10	3.9	2	70	34

PERFORMANCE TABLE

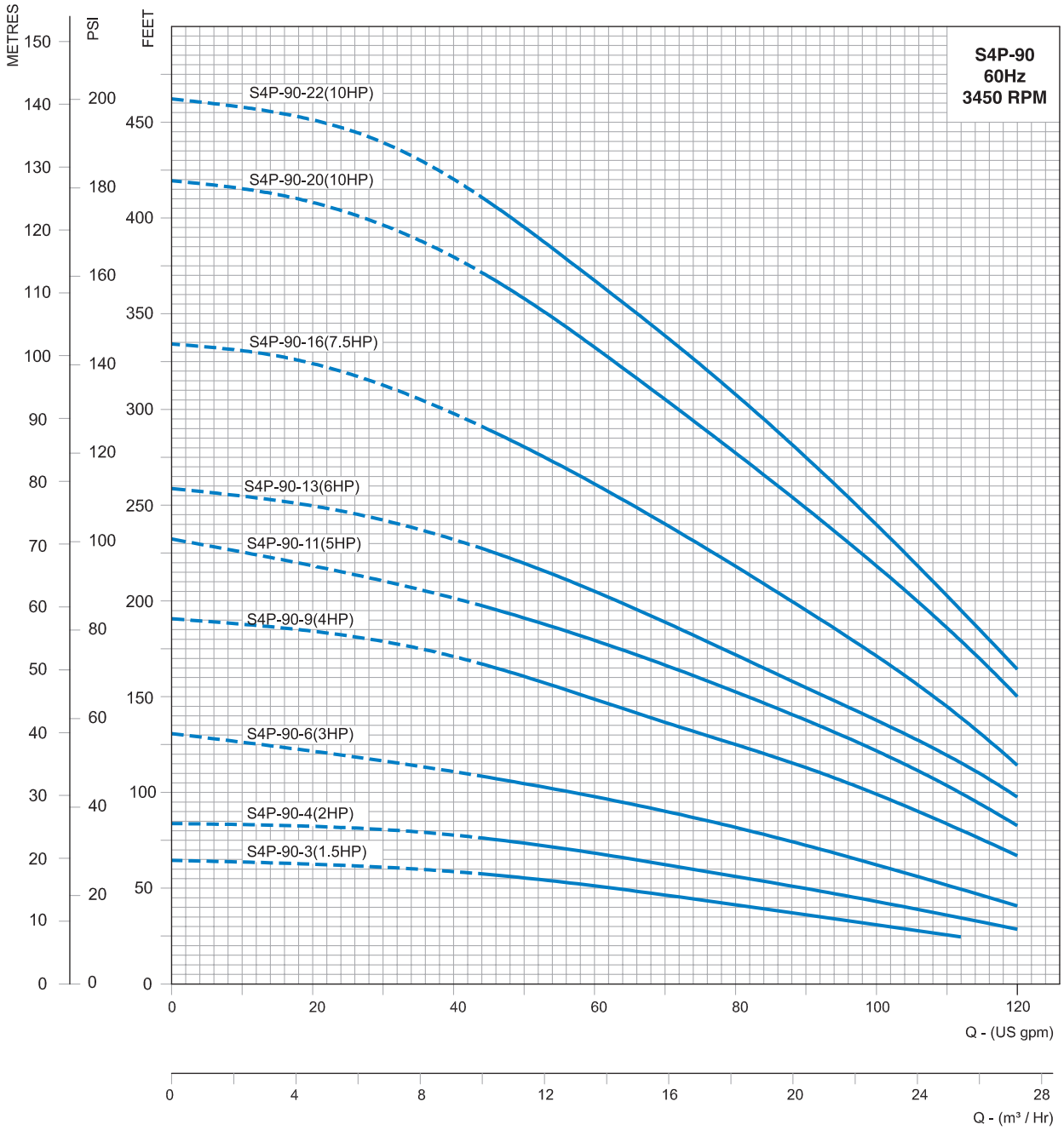
PUMP MODEL	HP	gpm	0	25	50	75	100	112	120
		m^3/h	0	5.7	11.4	17.0	22.7	25.4	27.2
S4P-90/03	1.5	HEAD IN FEET	65	62	54	43	30	25	
S4P-90/04	2		84	82	73	59	42	34	28
S4P-90/06	3		131	119	104	85	63	49	41
S4P-90/09	4		191	181	161	132	97	79	67
S4P-90/11	5		233	214	190	160	120	98	83
S4P-90/13	6		259	246	218	181	135	112	98
S4P-90/16	7.5		334	316	280	229	168	136	114
S4P-90/20	10		419	402	356	292	214	176	150
S4P-90/22	10		461	445	395	322	237	193	165

SILVER LINESERIES

Nominal Diameter : **4"** | Nominal Flow : **90 gpm** | Oultlet Size : **2" NPT**

PERFORMANCE CURVES

FLOW RANGE : 45 - 120 gpm



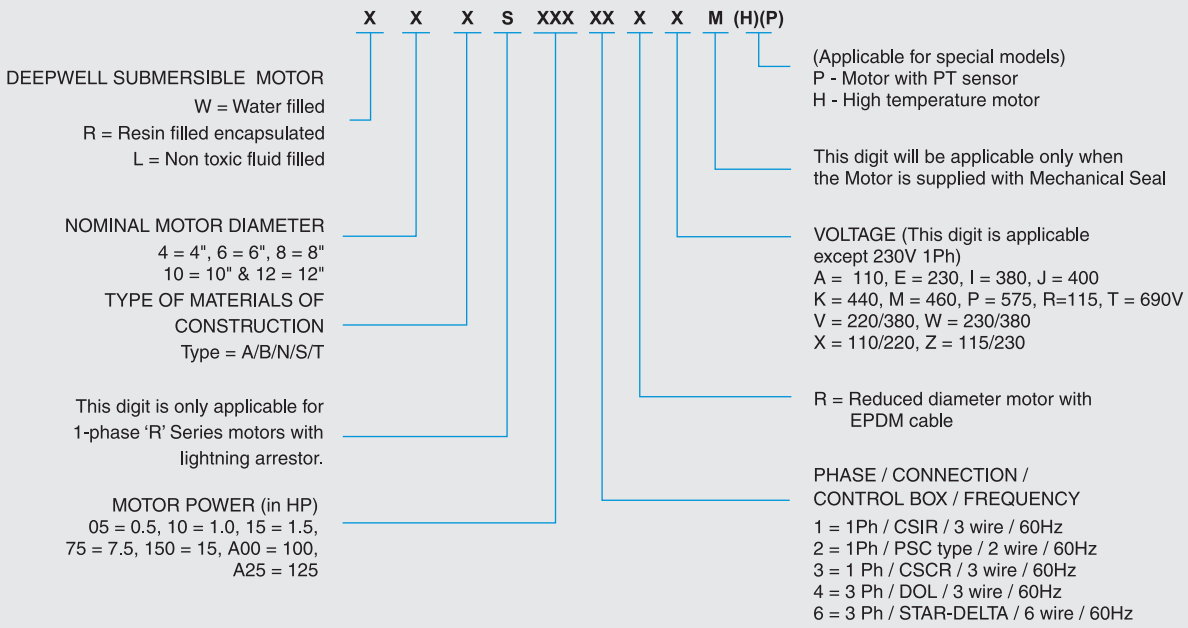
Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade - 3B

SUBMERSIBLE MOTORS



MODEL IDENTIFICATION CODE

DEEPWELL SUBMERSIBLE MOTOR



In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

OIL FILLED SUBMERSIBLE MOTORS

Nominal Diameter : **4"** **"L"** Series

Description

These oil filled motors are one among the proven & successful products from the house of C.R.I. These motors are developed with due diligence complying with all safety standards and giving importance to the customers' need. All the components that are in contact with water are made of AISI 304 stainless steel and the motor is pre-filled with edible grade oil, which acts as coolant media as well as lubricant. The freezing point of the oil used is 14°F.

Ball and angular contact bearings are used to withstand radial & axial thrust loads.

High quality carbon/ceramic mechanical seal and oil seal made of Nitrile rubber are used to ensure better sealing system. Pressure equalizing rubber diaphragm is provided to balance the pressure and volume variations due to thermal expansion of the oil inside the motor. Motor sealings are made by means of 'O' rings & mechanical seal. Shaft seals and sand guard prevents ingress of well water, sand and fiber particles into the motor. Care should be taken to ensure that the motor does not run when it is not submerged in the water. To prevent the motor from dry running, install dry run preventer . The motor needs a constant flow of water passed over it's body to keep it at correct operating temperature. Ideally the motors should be set just above the final yield point of bore well and when the level is not ascertained, fit a "flow inducer pipe" over the pumpset to ensure adequate cooling. It is mandatory to use C.R.I. Control boxes for all motors with adequate protection & control systems. Mounting dimensions of these motors are in accordance with NEMA standard.

Features

- High operating efficiency and lesser power consumption
- Extremely hardwearing ball & angular contact bearings
- Corrosive resistance stainless steel body
- Filled with non-toxic food grade oil
- Can be easily dismantled and repaired

Applications

These submersible motors are suitable to couple with deepwell submersible pump ends used for

- Residential
- Irrigation
- Fountains
- Gardens
- Industrial water supply
- Sprinkler systems
- Pressure boosting units
- Ponds
- Mining
- CBM (coal bed methane)

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

OIL FILLED SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"L" Series

Technical Specifications

Nominal Dia	**4" (100mm)**
Maximum Outer Diameter	3.74"
Power Range	0.5 HP to 3 HP - Single Phase
	0.5 HP to 10 HP - Three Phase
Speed	3450 rpm
Version	Single Phase - 115V & 230V, 60Hz, A.C Supply
	Three Phase - 230V, 380V, 400V & 460V, 60Hz, A.C Supply
Class of Insulation	F
Degree of Protection	IP 68
Direction of Rotation	CCW - Single Phase
	Electrically Reversible - Three Phase
Type of Duty	S1 (Continuous)
Down Thrust Load	0.5 HP to 1 HP - 337 lbs
	1.5 HP to 5 HP - 562 lbs
	7.5 HP to 10 HP - 1011 lbs
Minimum Cooling Flow Along the Motor	0.5 ft/sec
Maximum Liquid Temperature	86°F
Maximum Immersion Depth	492 ft
Starts per Hour	Single phase - 4 Times
	Three phase - 12 Times
Shaft Type	Splined as per NEMA Standard
Mounting Standard	NEMA Standard
Method of Starting	Single Phase - Permanent Split Capacitor (PSC)
	Three Phase - Direct On Line (DOL)
Cable Lead out	2 Wire Permanent Type TPE Flat Cable upto 2 HP
	3 Wire Permanent Type TPE Flat Cable



Materials of Construction

Part Name	Type - A
Outer Shell	SS - 304
Shaft	SS - 420 (0.5 HP to 2 HP) - EN 8 (3 HP to 10 HP)
'O' Ring	High Nitrile Rubber
Mechanical Seal	Carbon / Ceramic
Diaphragm	High Nitrile Rubber
Cable	TPE
Shaft Extension	17 - 4 PH (3 HP to 10 HP)

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

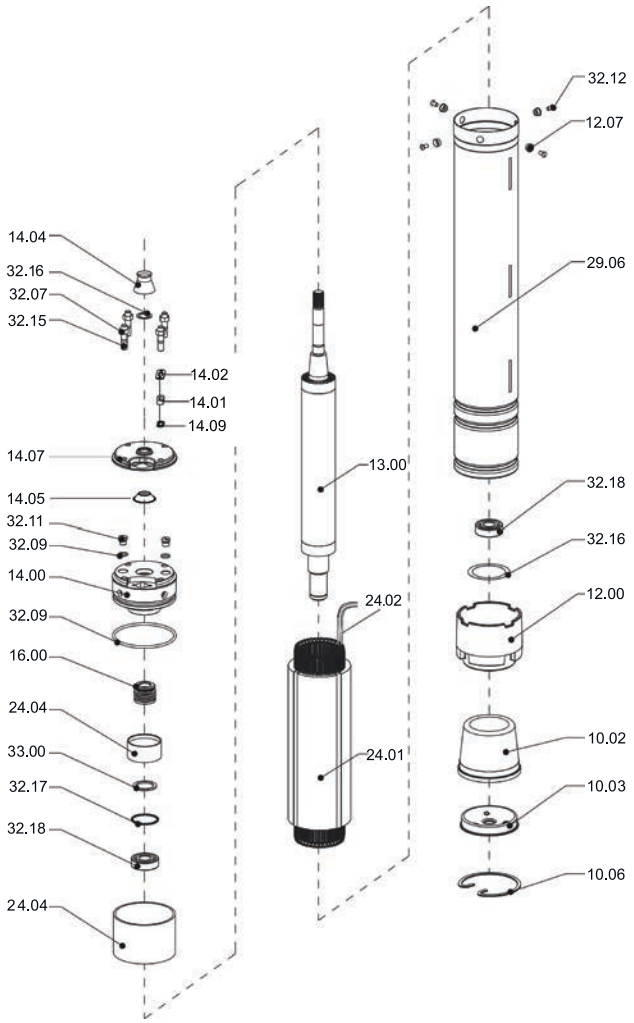
OIL FILLED SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

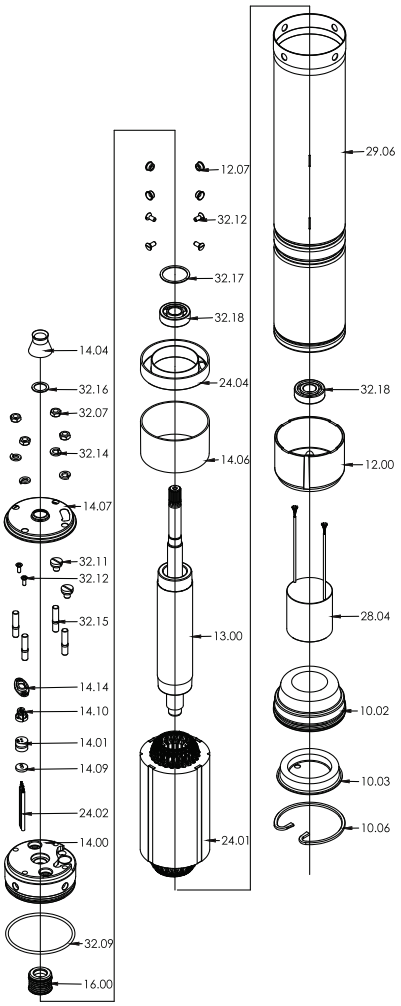
"L" Series

Exploded View

0.5 HP to 10 HP



0.5 HP to 2 HP (2 wire)



Part No.	Part Name
10.03	Diaphragm bottom plate
10.02	Diaphragm
10.06	Snap ring
12.00	Lower housing
12.07	Guide bush
13.00	Rotor
14.00	Upper Housing
14.01	Cable Grommet
14.02	Grommet locking plate
14.04	Rubber sand guard
14.05	Sand guard
14.07	Upper housing shell
14.09	Grommet washer

Part No.	Part Name
16.00	Mechanical seal
24.01	Wound stator
24.02	Lead out cable
24.04	Winding guard
29.06	Outer shell
32.07	Nut
32.09	O-Ring
32.11	Drain plug
32.12	Screw
32.13	Sand guard washer
32.15	Stud
32.16	Washer
32.17	Wave washer
32.18	Bearing

Part No.	Part Name
10.02	Diaphragm
10.03	Diaphragm Bottom Plate
10.06	Snap ring
12.00	Lower housing
12.07	Guide bush
13.00	Rotor
14.00	Upper Housing
14.01	Cable Grommet
14.04	Sand Guard - Rubber
14.06	Upper housing Pipe
14.07	Upper housing shell
14.09	Grommet washer
14.10	Cable Guide Plug
14.14	Cable Clamp
16.00	Mechanical seal

Part No.	Part Name
24.01	Wound stator
24.02	Cable
24.04	Winding guard
29.06	Outer shell
32.07	Nut
32.09	O-Ring
32.11	Plug
32.12	Screw
32.14	Spring Washer
32.15	Stud
32.16	Washer
32.17	Wave washer
32.18	Bearing
28.04	In-built capacitor

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

OIL FILLED SUBMERSIBLE MOTORS

Nominal Diameter : **4"** — **"L"** Series

115V, SINGLE PHASE

ELECTRICAL & DIMENSIONAL DATA

Models	kW	HP	S.F.	PF Cosf	EFF.%	Capacitor MFD		Amps		Max Down Thrust load (lbs)	Height H1	Nett Weight		Cable Size (sq.mm)
						Starting	Running	F.L	Starting		(mm)	(kg)	lbs	
L4A-10-3R	0.75	1	1.5	0.98	65	-	60	12.9	46	337	381	8.16	18	1.5
L4A-15-3R	1.1	1.5	1.4	0.98	67	-	80	14.9	58	562	399	9.07	20	1.5

230V, SINGLE PHASE

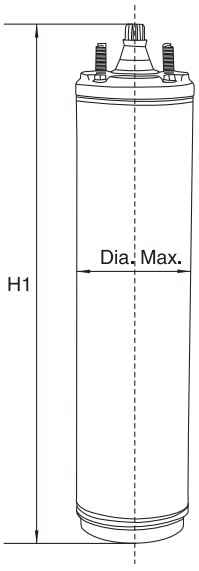
ELECTRICAL & DIMENSIONAL DATA

Models	kW	HP	S.F.	PF Cosf	EFF.%	Capacitor MFD	Amps		Max Down Thrust load (lbs)	Height H1	Nett Weight		Cable Size (sq.mm)	KVA Code
						Running	F.L	Starting		(mm)	(kg)	lbs		
L4A-05-3E	0.37	0.5	1.6	0.90	48	15	3.2	10.4	337	361	7.2	16	1.5	J
L4A-07-3E	0.55	0.75	1.5	0.94	53	20	4.9	15	337	381	8.16	18	1.5	J
L4A-10-3E	0.75	1	1.4	0.93	54	25	6	20	337	399	9.51	21	1.5	J
L4A-15-3E	1.1	1.5	1.3	0.96	58	36	7.5	28	562	429	10.43	23	1.5	J
L4A-20-3E	1.5	2	1.25	0.97	63	40	10.2	35	562	480	12.24	27	2	H
L4A-30-3E	2.2	3	1.15	0.98	69	60	15.2	50	562	521	14.51	32	2.3	H

230V, THREE PHASE

ELECTRICAL & DIMENSIONAL DATA

Model	kW	HP	S.F.	S.F. Amps	Current (Amps)		Eff. (%)	PF Cosf	Max Down Thrust Load	Height H1	Nett Weight		Cable size (Sq.mm)	KVA Code
					F. L	Starting				(mm)	(kg)	lbs		
L4A-05-4E	0.37	0.5	1.6	3.2	2	10	62	0.7	337	409	8.16	18	1.5	J
L4A-07-4E	0.55	0.75	1.5	4.8	3.2	16	65	0.71	337	409	8.16	18	1.5	K
L4A-10-4E	0.75	1	1.4	6.2	4.4	20.0	70	0.72	337	429	9.07	20	1.5	J
L4A-15-4E	1.1	1.5	1.3	8.4	6.5	28.0	71	0.7	562	450	9.97	22	1.5	J
L4A-20-4E	1.5	2	1.25	9.5	7.6	34	72	0.7	562	480	11.79	26	1.5	H
L4A-30-4E	2.2	3	1.15	12	10.5	45	75	0.72	562	541	14.06	31	1.5	G
L4A-40-4E	3	4	1.15	16.3	14.2	63	74	0.76	562	602	18.14	40	1.5	G
L4A-50-4E	3.7	5	1.15	18.6	16.2	71	77	0.75	562	650	20.41	45	2	F
L4A-55-4E	4	5.5	1.15	20.7	18	82	78	0.76	1011	650	20.41	45	2	G
L4A-75-4E	5.5	7.5	1.15	27	23.5	104	78	0.78	1011	762	26.30	58	2.3	F
L4A-100-4E	7.5	10	1.15	37	32	128	78	0.80	1011	879	32.65	72	2.3	E



Splined shaft 14 Teeth - module 1.5875 Pressure angle 30°
A.N.S.I.B - 92 - 1 - 1970
Coupling Class 5

380V, THREE PHASE

ELECTRICAL & DIMENSIONAL DATA

Model	kW	HP	S.F.	SF Amps	Current (Amps)		Eff. (%)	PF Cosf	Max Down Thrust Load	Height H1	Nett Weight		Cable size (Sq.mm)	KVA Code
					F. L	Starting				(mm)	(kg)	lbs		
L4A-05-4I	0.37	0.5	1.6	2.1	1.3	6.5	62	0.7	337	409	8.16	18	1.5	K
L4A-07-4I	0.55	0.75	1.5	3.0	2	11	65	0.71	337	409	8.16	18	1.5	L
L4A-10-4I	0.75	1	1.4	3.6	2.6	14	70	0.72	337	429	9.07	20	1.5	L
L4A-15-4I	1.1	1.5	1.3	4.7	3.6	20	71	0.7	562	450	9.97	22	1.5	K
L4A-20-4I	1.5	2	1.25	6.1	4.9	25	72	0.7	562	480	11.79	26	1.5	K
L4A-30-4I	2.2	3	1.15	6.9	6	30	75	0.72	562	541	14.06	31	1.5	H
L4A-40-4I	3	4	1.15	9.4	8.2	37	74	0.76	562	602	18.14	40	2	G
L4A-50-4I	3.7	5	1.15	10.7	9.3	42	77	0.75	562	650	20.41	45	2	F
L4A-55-4I	4	5.5	1.15	12	10.4	47	78	0.76	1011	650	20.41	45	2	G
L4A-75-4I	5.5	7.5	1.15	15.8	13.7	65	77	0.78	1011	762	26.30	58	2.3	G
L4A-100-4I	7.5	10	1.15	21.8	19	76	78	0.80	1011	879	32.65	72	2.3	F

460V, THREE PHASE

ELECTRICAL & DIMENSIONAL DATA

Model	kW	HP	S.F.	SF Amps	Current (Amps)		Eff. (%)	PF Cosf	Max Down Thrust Load	Height H1	Nett Weight		Cable size (Sq.mm)	KVA Code
					F. L	Starting				(mm)	(kg)	lbs		
L4A-05-4M	0.37	0.5	1.6	1.8	1.1	5.5	62	0.76	337	409	8.16	18	1.5	K
L4A-07-4M	0.55	0.75	1.5	2.4	1.6	8	66	0.75	337	409	8.16	18	1.5	K
L4A-10-4M	0.75	1	1.4	2.8	2	10	70	0.75	337	429	9.07	20	1.5	J
L4A-15-4M	1.1	1.5	1.3	3.6	2.8	14	72	0.74	562	450	9.97	22	1.5	J
L4A-20-4M	1.5	2	1.25	4.8	3.8	19	74	0.73	562	480	11.79	26	2	J
L4A-30-4M	2.2	3	1.15	6.3	5.5	26	74	0.74	562	541	14.06	31	2.3	H
L4A-40-4M	3	4	1.15	8.0	6.9	34	76	0.74	562	602	18.14	40	2.3	H
L4A-50-4M	3.7	5	1.15	10	8.7	43	75	0.77	562	650	20.41	45	2.3	H
L4A-55-4M	4	5.5	1.15	11.5	10	50	76	0.78	1011	650	20.41	45	2.3	J
L4A-75-4M	5.5	7.5	1.15	14.7	12.8	65	78	0.78	1011	762	26.30	58	2.3	H
L4A-100-4M	7.5	10	1.15	18.5	16	87	80	0.82	1012	879	32.65	72	2.3	H

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

"R" Series

Description

These motors are hermetically sealed, encapsulated and water lubricated type with removable cable lead out. The stator windings are of enameled copper wire and the wound stator is mounted in a stainless steel shell and is completely protected by a stainless steel cylinder and stator room is pre-filled with resin. The resin filled in the space between the stator & the stainless steel cylinder dissipates heat quickly resulting in longer motor life. Except stator, other portions of the motor is pre-filled with deionised water containing propylene glycol (anti-freeze agent) which serves as coolant & lubricant for rotor, bushes and thrust bearing. Dynamically balanced rotors of these motors maintain uniform clearance thereby giving better efficiency and increase the life cycle of the water lubricated bush bearings. Specially designed high performance thrust bearings are used that can withstand high axial thrust loads and upthrust loads with minimum wear and tear.

Pressure equalizing rubber diaphragm is provided to balance the pressure and volume variations due to thermal expansion of the water inside the motor. Motor sealings are made by means of 'O' rings, lip seal & Mechanical seal. Shaft seals and sand guard prevents ingress of well water, sand and fiber particles into the motor. Care should be taken to ensure that the motor does not run when it is not submerged in the water. To prevent the motor from dry running, install dry run preventor. The motor needs a constant flow of water passed over it's body to keep it at correct operating temperature. Ideally the motors should be set just above the final yield point of bore well and when the level is not ascertained, fit a "flow inducer pipe" over the pumpset to ensure adequate cooling. It is mendatory to use C.R.I. Control boxes for all motors (expect 2 wire motors) with adequate protection & control systems. Mounting dimensions of these motors are in accordance with NEMA standard. Cooling sleeve is mandatory if borewell size is beyond motor size.

Features

- Can be easily dismantled & Repaired
- High operating efficiency
- Extremely hardwearing water lubricated bearings
- Specially designed thrust bearing to withstand high axial thrust loads
- Larger shaft diameter for better power transmission
- Corrosive resistant stainless steel body

Applications

These submersible motors are suitable to couple with deepwell submersible pumpends used for

- Residential
- Irrigation
- Fountains
- Industrial water supply
- Pressure boosting units
- Gardens
- Sprinkler systems and mining
- Mining
- Oil & Gas
- De-Watering

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"R" Series

Technical data & Specification

Nominal Diameter	4" (100mm)
Maximum Diameter	3.78" (95.5mm)
Power range	0.5HP to 1.5HP - 2Wire, 1Phase
	0.5HP to 2.0HP - 3Wire, 1Phase
	0.5HP to 10HP - 3Wire, 3Phase
Speed	3450 rpm
Versions	Single Phase : 115V, 230V, 60Hz, AC Supply
	Three Phase : 230V, 380V, 400V & 460V, 60Hz, AC Supply
Class of Insulation	F
Degree of Protection	IP 58
Direction of rotation	Counter Clock Wise : Single Phase
	Electrically reversible : Three Phase
Type of Duty	S1 (Continuous)
Thrust load	0.5HP & 0.75 HP : 300 lbs 1Phase & 3Phase
	1HP to 2 HP : 650 lbs 3Phase
	3HP to 10HP - 1500 lbs 3Phase
Minimum cooling flow along the motor	0.25 ft / sec
Max. Temperature of Liquid	86°F (30°C)
Starts per hour	Single phase - 4 times
	Three phase - 12 times
Shaft	Spline as per NEMA Standard
Mounting Standard	NEMA Standard
Method of Starting	1Phase - CSIR (Capacitor Start Induction Run) (0.5HP - 1.0HP)
	1Phase - CSCR (Capacitor Start Capacitor Run) (1.5 & 2.0HP)
	3 Phase - DOL (Direct On Line)
Cable Lead Out	2 / 3 Wire removable type XLPE Individual leads



Materials of construction (3 Wire) 0.5 to 10.0 HP

Part Name	Material
Oil Seal	NBR
Stator Shell	SS 304
Bush	Carbon Graphite
Thrust Segment	SS 420
Motor Base	SS 304
Thrust Pad	Carbon Graphite
Diaphragm	NBR
Rubber Sand Guard	NBR
Fasteners	SS 304
Upper Housing Shell	SS 304
'O' Ring	NBR
Shaft	SS 431 (Upto 3 HP)
	EN 8 D (3 HP to 10 HP)
Shaft Extension	17-4 PH (3 HP to 10 HP)

Materials of construction (2 Wire) 0.5 to 1.5 HP

Part Name	Material
Shaft	SS 431
Oil Seal	NBR
Stator Shell	SS 304
Bush	Carbon Graphite
Thrust Segment	SS 420
Motor Base / Capacitor Plate	Nylon - 6
Thrust Pad	Carbon Graphite
Diaphragm	NBR
Rubber Sand Guard	NBR
Fasteners	SS 304
Upper Housing Shell	SS 304
'O' Ring	NBR

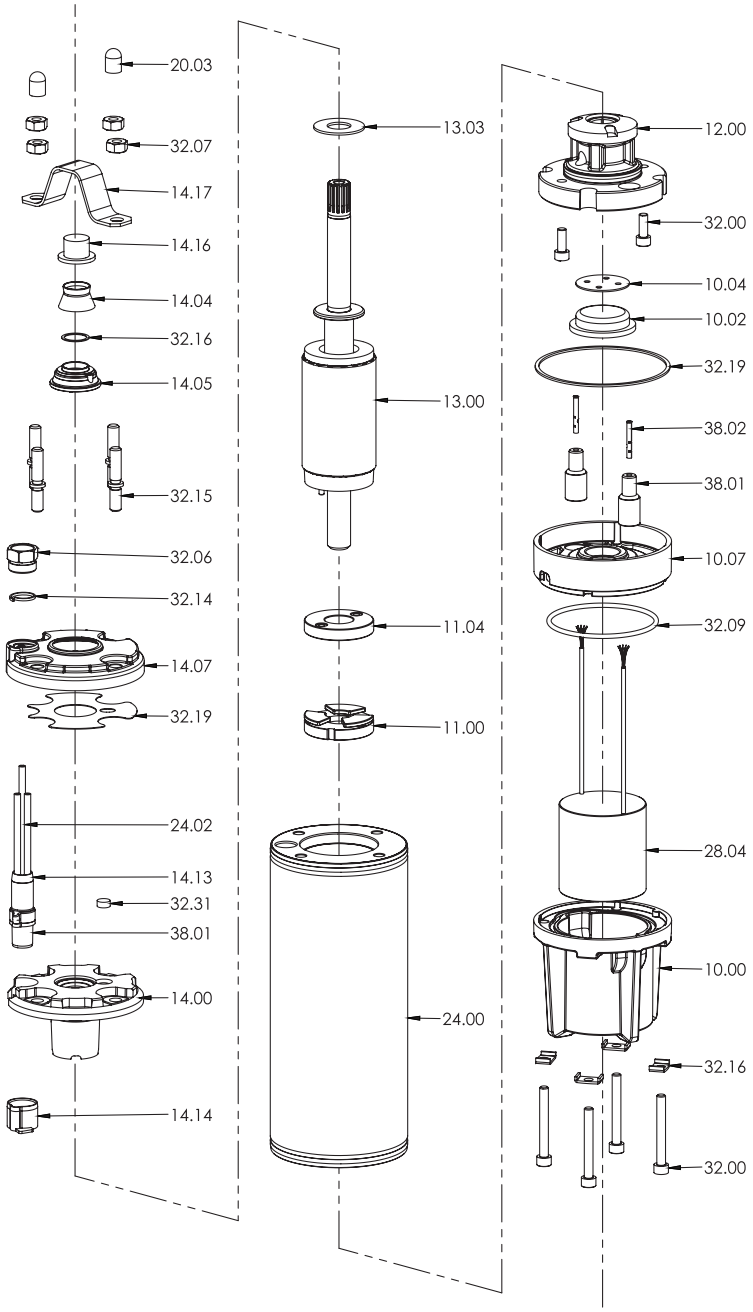
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RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"R" Series
(0.5 to 1.5HP)
(2 wire)

Exploded View



Part No.	Part Name
32.00	Bolt
32.16	Washer
10.00	Motor base
28.04	Capacitor
32.09	O Ring
10.07	Capacitor Plate
38.01	Connector Bush
38.02	Cable Socket Pin
32.19	Gasket
10.02	Diaphragm
10.04	Diaphragm Plate
12.00	Lower Housing
24.00	Stator Body
11.00	Thrust Base
11.04	Thrust Pad
13.00	Rotor Shaft
13.03	Upthrust Washer
14.14	Cable plug sleeve
14.00	Upper housing
38.01	Connector Bush
32.31	Valve Filter Sponge
14.13	Cable Plug Shell
24.02	Cable
14.07	Upper housing shell
32.14	Spring Washer
32.06	Cable Plug nut
32.15	Stud
14.05	Plastic Sand Guard
14.04	Rubber Sand Guard
14.16	Motor Cap
14.17	Motor Clamp
32.07	Nut
20.03	Stud Cap

* 2 wire motor's stator is in-built with permanent split capacitor

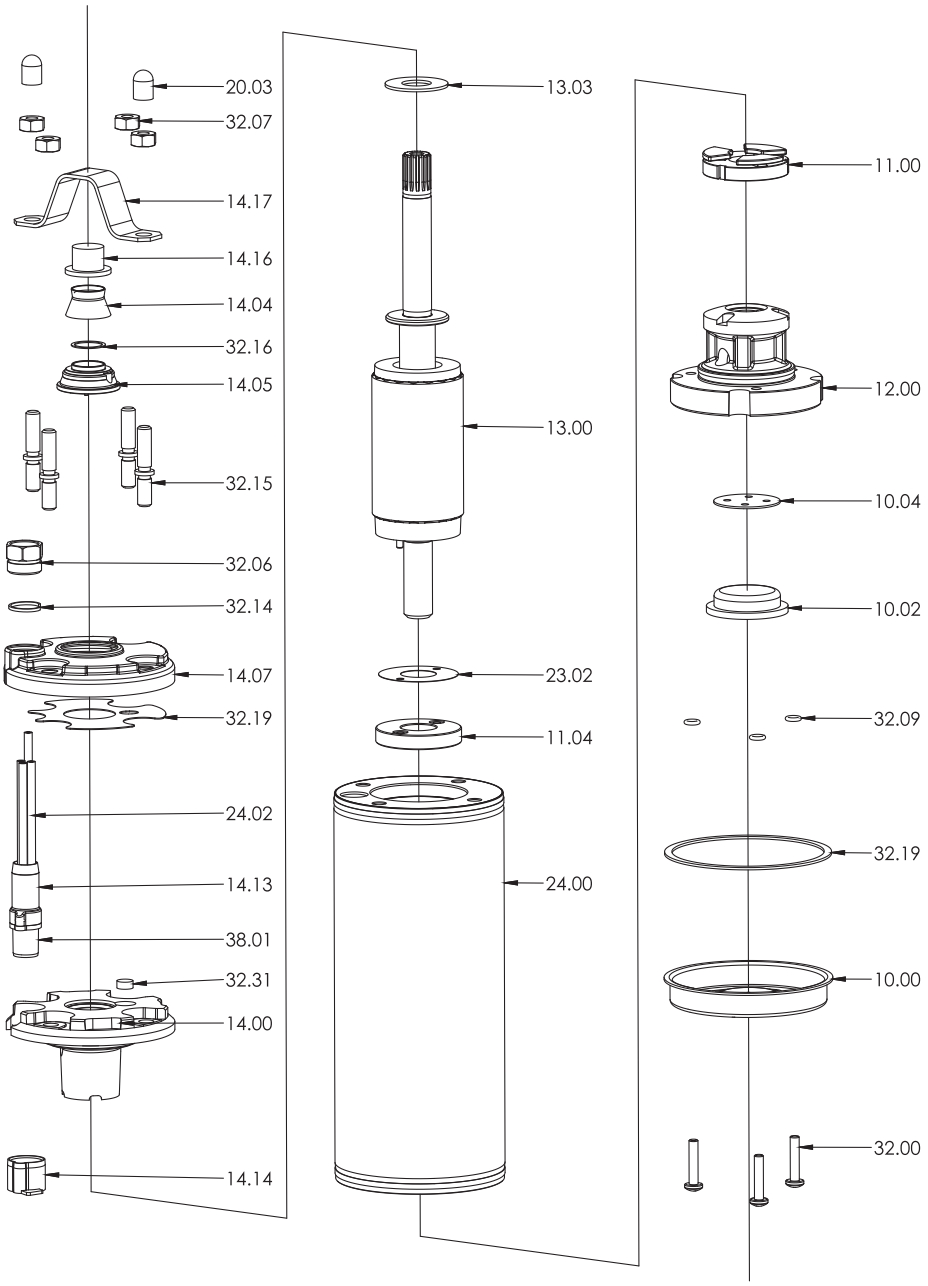
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RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"R" Series
(0.5HP to 3 HP
3 wire)

Exploded View



Part No.	Part Name
32.00	Bolt
10.00	Motor base
32.19	Gasket
32.09	O Ring
10.02	Diaphragm
10.04	Diaphragm Plate
12.00	Lower Housing
11.00	Thrust Base
24.00	Stator Body
11.04	Thrust Pad
23.02	Shim Washer
13.00	Rotor Shaft
13.03	Upthrust Washer
14.14	Cable plug sleeve
14.00	Upper housing
32.31	Valve Filter Sponge
38.01	Connector Bush
14.13	Cable Plug Shell
24.02	Cable
14.07	Upper housing shell
32.14	Spring Washer
32.06	Cable Plug nut
32.15	Stud
14.05	Plastic Sand Guard
32.16	Washer
14.04	Rubber Sand Guard
14.16	Motor Cap
14.17	Motor Clamp
32.07	Nut
20.03	Stud Cap

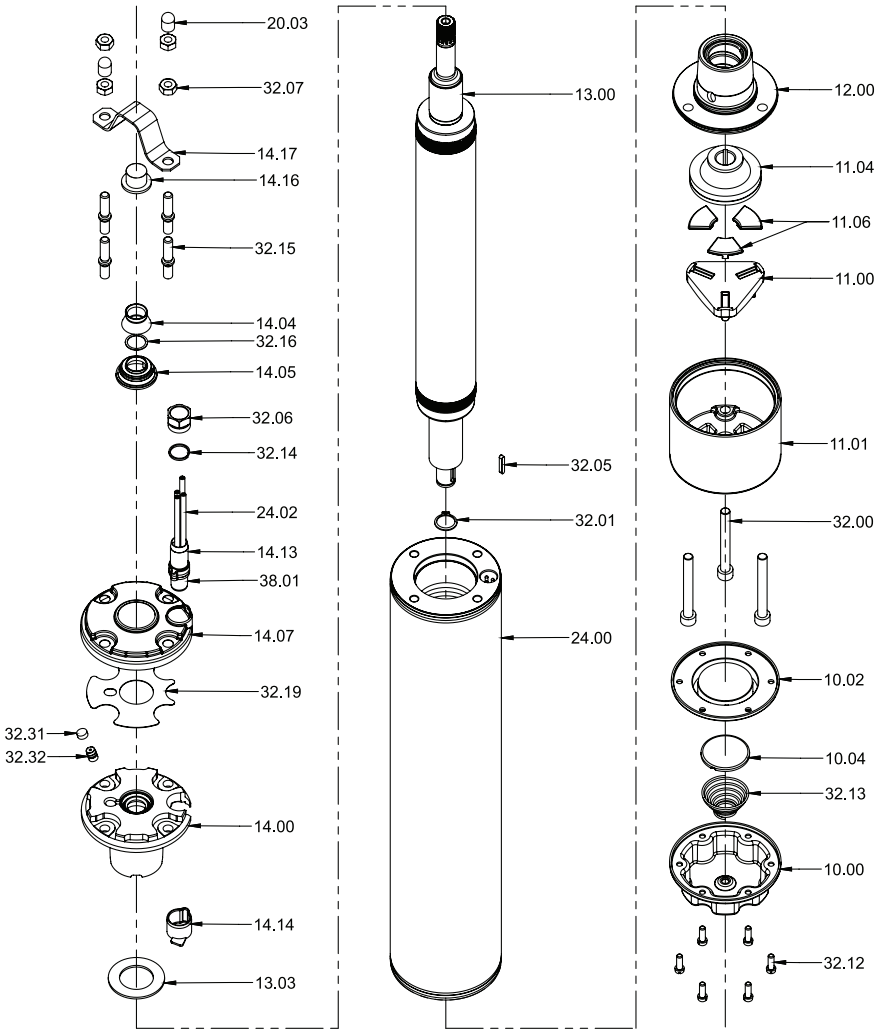
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RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"R" Series
(3HP and above)

Exploded View



Part No.	Part Name
32.12	Screw
10.00	Motor base
32.13	Spring
10.04	Diaphragm Plate
10.02	Diaphragm
32.00	Bolt
11.01	Thrust Base Housing
11.00	Thrust Base
11.06	Thrust Base Segment
11.04	Thrust Pad
12.00	Lower Housing
24.00	Stator Body
32.01	Circlip
32.05	Key
13.00	Rotor Shaft
13.03	Upthrust Washer
14.14	Cable plug sleeve
14.00	Upper housing
32.32	Inlet Valve
32.31	Valve Sponge
32.19	Gasket
14.07	Upper housing shell
38.01	Connector Bush
14.13	Cable Plug Shell
24.02	Cable
32.14	Spring Washer
32.06	Cable Plug nut
14.05	Plastic Sand Guard
32.16	Washer
14.04	Rubber Sand Guard
32.15	Stud
14.16	Motor Cap
14.17	Motor Clamp
32.07	Nut

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"R" Series

4" 2 WIRE SINGLE PHASE - 230V

TECHNICAL & ELECTRICAL DATA

Models	Voltage	HP	S.F.	Rated (F.L.)		Maximum (S.F.)		Eff. %		P.F. %		Locked Rotor Amps	Max. Down Thrust Load (lbs)	KVA Code	Panel TYPE	Run Cap (µF)
				Amps	Watts	Amps	Watts	S.F.	F.L.	S.F.	F.L.					
R4AS-05-2E	230	0.5	1.6	4.8	920	5.5	1160	51	40	92	87	21	300	K	CSR	20
R4AS-07-2E	230	0.75	1.5	5.8	1310	6.2	1420	58	42	99	99	26	300	J	CSR	30
R4AS-10-2E	230	1	1.4	6.4	1460	7.5	1720	61	51	99	99	31	650	H	CSR	35
R4AS-15-2E	230	1.5	1.3	8.4	1900	10	2250	66	57	99	99	46	650	H	CSR	45

4" 3 WIRE SINGLE PHASE, 115V

TECHNICAL & ELECTRICAL DATA

Models	Voltage	HP	S.F.	Rated (F.L.)		Maximum (S.F.)		Eff. %		P.F. %		Locked Rotor Amps	Max. Down Thrust Load (lbs)	KVA Code	Panel Type	Capacitor Value µf
				Amps	Watts	Amps	Watts	S.F.	F.L.	S.F.	F.L.					Start
R4AS-05-1R	115	0.5	1.6	10.0	708	12.0	922	65	53	75	66	45	300	M	CSIR	250/300

4" 3 WIRE SINGLE PHASE, 230V

TECHNICAL & ELECTRICAL DATA

Models	Voltage	HP	S.F.	Rated (F.L.)		Maximum (S.F.)		Eff. %		P.F. %		Locked Rotor Amps	Max. Down Thrust Load (lbs)	KVA Code	Panel Type	Capacitor Value µf	
				Amps	Watts	Amps	Watts	S.F.	F.L.	S.F.	F.L.					Start	Run
R4AS-05-1E	230	0.5	1.6	4.50	630	6.00	960	64	59	70	61	23	300	M	CSIR	60/80	-
R4AS-07-1E	230	0.75	1.5	6.70	980	8.00	1310	66	56	71	64	32	300	M	CSIR	80/100	-
R4AS-10-1E	230	1	1.4	8.50	1210	10.40	1600	70	62	67	62	44	650	M	CSIR	100/120	-
R4AS-15-3E	230	1.5	1.3	8.10	1620	11.50	2080	71	67	79	87	52	650	J	CSCR	100/120	15
R4AS-20-3E	230	2	1.25	10.30	2130	13.10	2600	72	71	86	90	63	650	J	CSCR	150/200	20

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RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"R" Series

TECHNICAL & ELECTRICAL DATA

4" Three Phase, 230 V

Models	Voltage	HP	S.F.	Rated (F.L.)		Maximum (S.F.)		Eff. %		P.F. %		Locked Rotor Amps	Max. Down Thrust Load (lbs)	KVA Code
				Amps	Watts	Amps	Watts	S.F.	F.L.	S.F.	F.L.			
R4A-05-4E	230	0.5	1.6	2.10	570	2.90	890	69	65	81	71	13	300	M
R4A-07-4E	230	0.75	1.5	3.1	810	3.80	1160	71	69	80	71	20	300	M
R4A-10-4E	230	1	1.4	3.70	1110	4.70	1530	69	68	85	79	21	650	K
R4A-15-4E	230	1.5	1.3	5.50	1570	6.20	1970	73	72	83	75	34	650	K
R4A-20-4E	230	2	1.25	7.50	2000	8.10	2470	76	75	80	70	46	650	L
R4A-30-4E	230	3	1.15	11.00	3050	11.9	3470	74	74	77	73	67	1500	K
R4A-50-4E	230	5	1.15	15.90	4800	17.80	5500	78	78	81	79	102	1500	K
R4A-75-4E	230	7.5	1.15	23.00	7150	26.40	8200	78	78	82	82	152	1500	K
R4A-100-4E	230	10	1.15	31.00	10000	35.00	11450	75	74	86	85	230	1500	M

4" Three Phase, 380 V

Models	Voltage	HP	S.F.	Rated (F.L.)		Maximum (S.F.)		Eff. %		P.F. %		Locked Rotor Amps	Max. Down Thrust Load (lbs)	KVA Code
				Amps	Watts	Amps	Watts	S.F.	F.L.	S.F.	F.L.			
R4A-05-4I	380	0.5	1.6	1.20	570	2.10	900	68	66	65	72	7.40	300	L
R4A-07-4I	380	0.75	1.5	1.80	830	2.4	1180	70	67	81	70	12	300	M
R4A-10-4I	380	1	1.4	2.20	1100	2.70	1500	70	69	84	76	13	650	K
R4A-15-4I	380	1.5	1.3	3.00	1530	3.50	1920	74	73	83	77	20	650	K
R4A-20-4I	380	2	1.25	4.20	2050	4.9	2460	76	75	81	74	27	650	K
R4A-30-4I	380	3	1.15	6.00	2950	6.50	3380	75	75	79	75	39	1500	K
R4A-50-4I	380	5	1.15	9.60	4800	10.80	5500	78	78	77	76	60	1500	J
R4A-75-4I	380	7.5	1.15	13.90	7150	16.00	8200	78	78	78	78	92	1500	K
R4A-100-4I	380	10	1.15	19.30	10000	21.00	11400	75	75	82	79	140	1500	L

4" Three Phase, 460 V

Models	Voltage	HP	S.F.	Rated (F.L.)		Maximum (S.F.)		Eff. %		P.F. %		Locked Rotor Amps	Max. Down Thrust Load (lbs)	KVA Code
				Amps	Watts	Amps	Watts	S.F.	F.L.	S.F.	F.L.			
R4A-05-4M	460	0.5	1.6	1.20	590	1.50	870	68	63	73	62	7.50	300	N
R4A-07-4M	460	0.75	1.5	1.40	760	1.90	1130	74	73	75	68	8	300	K
R4A-10-4M	460	1	1.4	2.00	1100	2.30	1470	72	69	80	69	13.50	650	M
R4A-15-4M	460	1.5	1.3	2.50	1510	3.00	1930	74	73	81	76	15.50	650	K
R4A-20-4M	460	2	1.25	3.50	2080	4.00	2560	74	73	80	75	22	650	K
R4A-30-4M	460	3	1.15	4.80	2970	5.50	3360	76	76	81	78	32	1500	K
R4A-50-4M	460	5	1.15	8.50	5010	9.20	57.20	75	75	84	81	54	1500	K
R4A-75-4M	460	7.5	1.15	11.60	7060	13.00	8110	78	78	80	76	80	1500	K
R4A-100-4M	460	10	1.15	15.70	10100	17.00	11550	75	75	85	81	90	1500	J

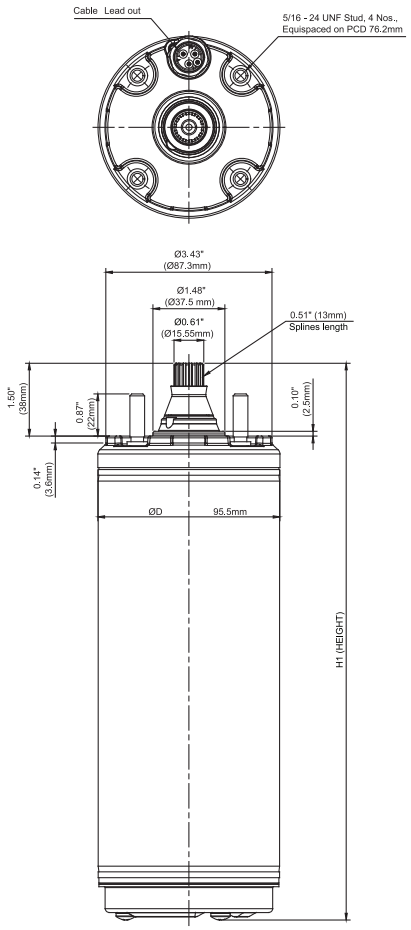
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RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"R" Series

(0.5HP to 10HP)



SINGLE PHASE 2 & 3 WIRE MOTORS

DIMENSIONS & WEIGHT DATA

Models		HP	Leadout Cable Size (Sq.mm)	Height H1		Nett Weight (Approx.)			
				2 wire	3 wire	2 wire		3 wire	
2 wire	3 wire			(mm)	(mm)	(kg)	(lbs)	(kg)	(lbs)
R4AS-05-2	R4AS-05-3	0.5	2	388	306.5	9..97	22	9.52	21
R4AS-07-2	R4AS-07-3	0.75	2	413	331.5	10.88	24	10.43	23
R4AS-10-2	R4AS-10-3	1	2	438	356.5	11.79	26	11.79	26
R4AS-15-2	R4AS-15-3	1.5	2	463	371.5	13.60	30	12.70	28
NA	R4AS-20-3	2	2	-	421.5	-	-	14.96	33

THREE PHASE 3 WIRE MOTORS

DIMENSIONS & WEIGHT DATA

Models	HP	Leadout Cable Size (Sq.mm)	Height H1	Nett Weight (Approx.)	
			(mm)	(kg)	(lbs)
R4A-05-4	0.5	2	291.5	8.61	19
R4A-07-4	0.75	2	306.5	9.52	21
R4A-10-4	1	2	331.5	10.88	24
R4A-15-4	1.5	2	356.5	11.79	26
R4A-20-4	2	2	381.5	13.15	29
R4A-30-4	3	2	441.5	15.87	35
R4A-50-4	5	2	616.5	23.13	51
R4A-75-4	7.5	2	771.5	30.84	68
R4A-100-4	10	2	846.5	34.47	76

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RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"R" Series

Technical Specifications

Nominal Dia	**6”**
Maximum Outer Diameter	5.66" (144 mm)
Power Range	5.0 HP to 50 HP
Speed	3450 rpm
Version	Three Phase - 230V, 380V, 400V & 460 V, 60 Hz, A.C Supply
Class of Insulation	F
Degree of Protection	IP 68
Direction of Rotation	Electrically Reversible : Three Phase
Type of Duty	S1 (Continuous)
Down Thrust Load	5.0 HP to 30.0 HP - 3500 lbs, 40 & 50 HP - 6182 lbs
Minimum Cooling Flow Along the Motor	0.25 ft/sec
Maximum Liquid Temperature	86°F (30°C)
Starts per Hour	4 Times
Shaft Type	Splined as per NEMA Standard
Mounting Standard	NEMA Standard
Method of Starting	3 Phase - Direct On Line (DOL)
Cable Lead out	Removable type XLPE individual leads (3 + 1)



Materials of Construction

Part Name	Material
Shaft	SS 431
Mechanical Seal	NBR / Ceramic Carbon
Stator Shell	SS 304
Bush	Carbon Graphite
Thrust Segment	SS 420
Housing	CI
Thrust Pad	Carbon Graphite
Diaphragm	NBR
Rubber Sand Guard	NBR
Fasteners	SS 304
Upper Housing Shell	SS 304
'O' Ring	NBR

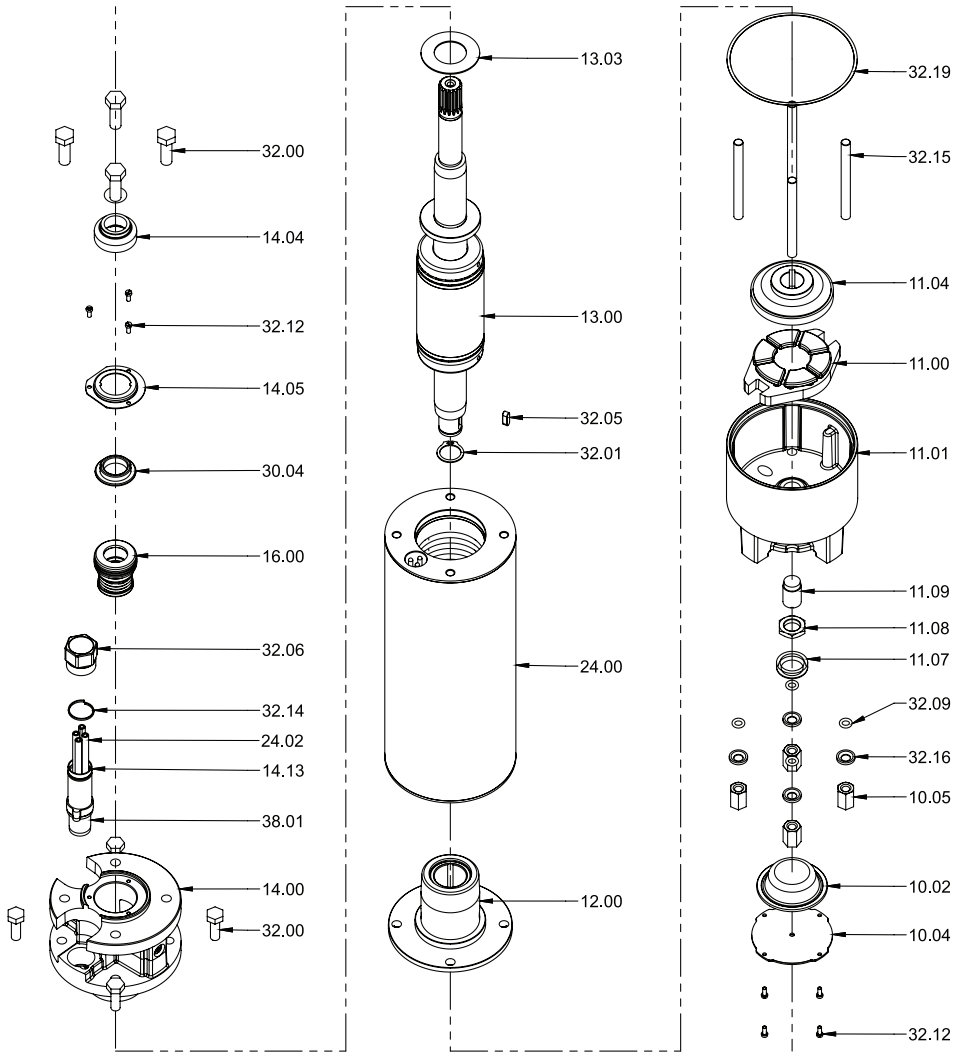
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RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"R" Series

Exploded View



Part No.	Part Name
32.12	Screw
10.04	Diaphragm Plate
10.02	Diaphragm
10.05	Doom Nut
32.16	Washer
32.09	O Ring
11.07	Rocker Cap
11.08	Rocker Lock Nut
11.09	Rocker Screw
11.01	Thrust Base Housing
11.00	Thrust Base
11.04	Thrust Pad
32.15	Stud
32.19	Gasket
12.00	Lower Housing
24.00	Stator Body
32.01	Circlip
32.05	Key
13.00	Rotor Shaft
13.03	Upthrust Washer
14.00	Upthrust Housing
32.00	Bolt
38.01	Connector Bush
14.13	Cable plug Shell
24.02	Cable
32.14	Spring Washer
32.06	Cable Plug nut
16.00	Mechanical Seal
30.04	Seal Lock Plate
14.05	SS Sand Guard
14.04	Rubber Sand Guard

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"R" Series

TECHNICAL & ELECTRICAL DATA

6" Three Phase, 230 V

Models	Voltage	HP	S.F.	Rated (F.L.)		Maximum (S.F.)		Eff. %		P.F. %		Locked Rotor Amps	Max. Down Thrust Load (lbs)	KVA Code
				Amps	Watts	Amps	Watts	S.F.	F.L.	S.F.	F.L.			
R6A-55-4E	230	5.0	1.15	15.00	4700	17.60	5400	79	79	77	79	86	3485	H
R6A-75-4E	230	7.5	1.15	21.80	7000	24.60	8000	80	80	82	81	130	3485	H
R6A-100-4E	230	10.0	1.15	28.40	9400	32.20	10800	79	79	84	83	172	3485	H
R6A-150-4E	230	15.0	1.15	41.60	13700	47.40	15800	81	81	84	83	306	3485	H
R6A-200-4E	230	20.0	1.15	53.80	18100	60.60	20900	82	82	87	84	362	3485	J
R6A-225-4E	230	25.0	1.15	67.00	22500	75.00	25700	83	83	84	84	480	3485	J
R6A-300-4E	230	30.0	1.15	79.00	26900	90.40	31100	83	83	86	85	568	3485	J

6" Three Phase, 380 V

Models	Voltage	HP	S.F.	Rated (F.L.)		Maximum (S.F.)		Eff. %		P.F. %		Locked Rotor Amps	Max. Down Thrust Load (lbs)	KVA Code
				Amps	Watts	Amps	Watts	S.F.	F.L.	S.F.	F.L.			
R6A-55-4E	380	5.0	1.15	9.10	4700	10.70	5400	79	79	77	78	52	3485	H
R6A-75-4E	380	7.5	1.15	13.40	7000	15.00	8000	80	80	81	79	79	3485	H
R6A-100-4E	380	10.0	1.15	17.60	9400	19.60	10800	79	79	84	81	104	3485	H
R6A-150-4E	380	15.0	1.15	25.80	13700	28.90	15800	81	81	83	81	161	3485	H
R6A-200-4E	380	20.0	1.15	33.00	18100	37.30	20900	82	82	85	83	219	3485	J
R6A-225-4E	380	25.0	1.15	41.00	22500	46.00	25700	83	83	85	83	291	3485	J
R6A-300-4E	380	30.0	1.15	48.80	26900	55.40	31100	83	83	85	84	317	3485	J
R6A-400-4E	380	40.0	1.15	66.50	35600	74.60	42400	83	83	86	81	481	6182	J
R6A-500-4E	380	50.0	1.15	83.50	45100	95.00	52200	82	83	83	82	501	6182	H

6" Three Phase, 460 V

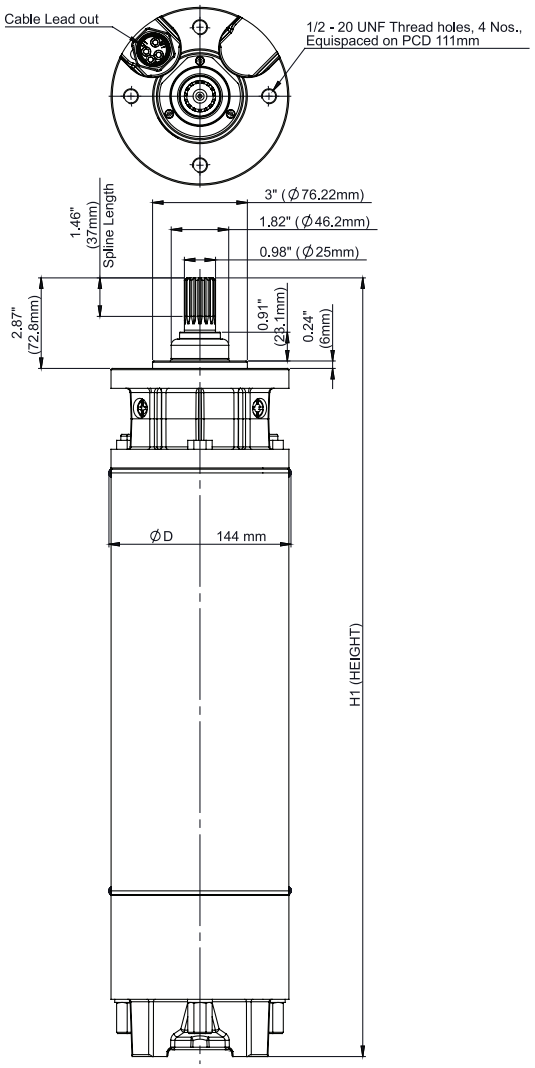
Models	Voltage	HP	S.F.	Rated (F.L.)		Maximum (S.F.)		Eff. %		P.F. %		Locked Rotor Amps	Max. Down Thrust Load (lbs)	KVA Code
				Amps	Watts	Amps	Watts	S.F.	F.L.	S.F.	F.L.			
R6A-55-4M	460	5.0	1.15	8.00	5110	9.20	5920	72	72.7	81	80	43	3485	H
R6A-75-4M	460	7.5	1.15	10.90	6970	12.30	8010	79	79	82	80	60	3485	H
R6A-100-4M	460	10.0	1.15	14.40	9440	16.20	10860	80	80	84	82	75	3485	G
R6A-125-4M	460	12.5	1.15	18.20	11700	20.40	13480	80	80	83	81	81	3485	F
R6A-150-4M	460	15.0	1.15	20.90	13750	23.70	15850	80	80	84	83	123	3485	H
R6A-175-4M	460	17.5	1.15	23.90	15770	26.90	18120	83	83	85	83	140	3485	H
R6A-200-4M	460	20.0	1.15	26.90	17950	30.50	20690	84	84	85	84	170	3485	H
R6A-225-4M	460	25.0	1.15	33.90	22530	38.40	26000	82	82	85	83	230	3485	J
R6A-300-4M	460	30.0	1.15	40.00	27000	45.00	31100	82	82	87	85	274	3485	J
R6A-400-4M	460	40.0	1.15	54.90	35600	61.60	42400	83	83	86	81	397	6182	J
R6A-500-4M	460	50.0	1.15	67.70	45100	77.00	52200	83	83	85	84	414	6182	H

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

RESIN FILLED ENCAPSULATED SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"R" Series



THREE PHASE, 3 WIRE MOTORS

DIMENSIONS & WEIGHT DATA

Models	HP	Height H1	Nett Weight (Approx.)	
		(mm)	(kg)	(lbs)
R6A-50-4M	5	626	40.36	89
R6A-75-4M	7.5	661	47.17	104
R6A-100-4M	10	686	49.89	110
R6A-150-4M	15	741	55.33	122
R6A-200-4M	20	851	67.58	149
R6A-250-4M	25	896	72.57	160
R6A-300-4M	30	961	76.65	169

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WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **4", 6", 7", 8", 10" & 12"** **"W"** Series

Description

These motors are eco-friendly, wet, water filled and rewindable type. The stator windings are of water proof synthetic film insulated copper winding wires. It features water lubricated thrust and juournal bearings. Motor is pre-filled with clear, cold, pure, fresh water mixed with propylene glycol (anti-freez agent). Before installation, ensure the pre-filled level of water inside the motor. If any loss of volume is noticed, refill with clear, cold, pure, fresh, filtered water, through water filling plugs provided in the upper housing. Dynamically balanced rotors maintains uniform clearance thereby giving better efficiency and increase the life cycle of the water lubricated bush bearings. Specially designed thrust bearings are used to withstand high axial thrust loads and up thrust loads with minimum wear and tear.

Pressure equalizing rubber diaphragm is provided to balance the pressure and volume variations of the water inside the motor. Motor sealing are made by means of 'O' rings, lip seal & Mechanical seal etc. Shaft seals and sand guard prevents ingress of well water, sand and fibre particles into the motor. Care should be taken to ensure that the motor does not run when it is not submerged in the water. To prevent the motor from dry running, install dry run preventer. The motor needs a constant flow of water passed over it's body to keep it at correct operating temperature. Ideally the motors should be set just above the final yield point of bore well and when the level is not as certained, fit a "flow inducer pipe" over the pumpset to ensure adequate cooling. It is mandatory to use C.R.I. Control boxes for all motors with adequate protection & control systems. Mounting dimensions of these motors are in accordance with NEMA standard. Cooling sleeve is mandatory if borewell size is beyond motor size.



Features

- Water cooled Re-windable motor
- Can be easily dismantled and repaired
- High operating efficiency
- Extremely hardwearing and water lubricated bearings
- Specially designed thrust bearing to withstand high axial loads.
- AISI 630 (17.4 PH) motor shaft extension for longer life.

Applications

These submersible motors are suitable to couple with deepwell submersible pumpends used for

- Residential
- Irrigation
- Fountains
- Industrial water supply
- Pressure boosting units
- Gardens
- Sprinkler systems
- Mining
- Oil & Gas
- De-watering
- CBM (Coal bed methane)
- Mining

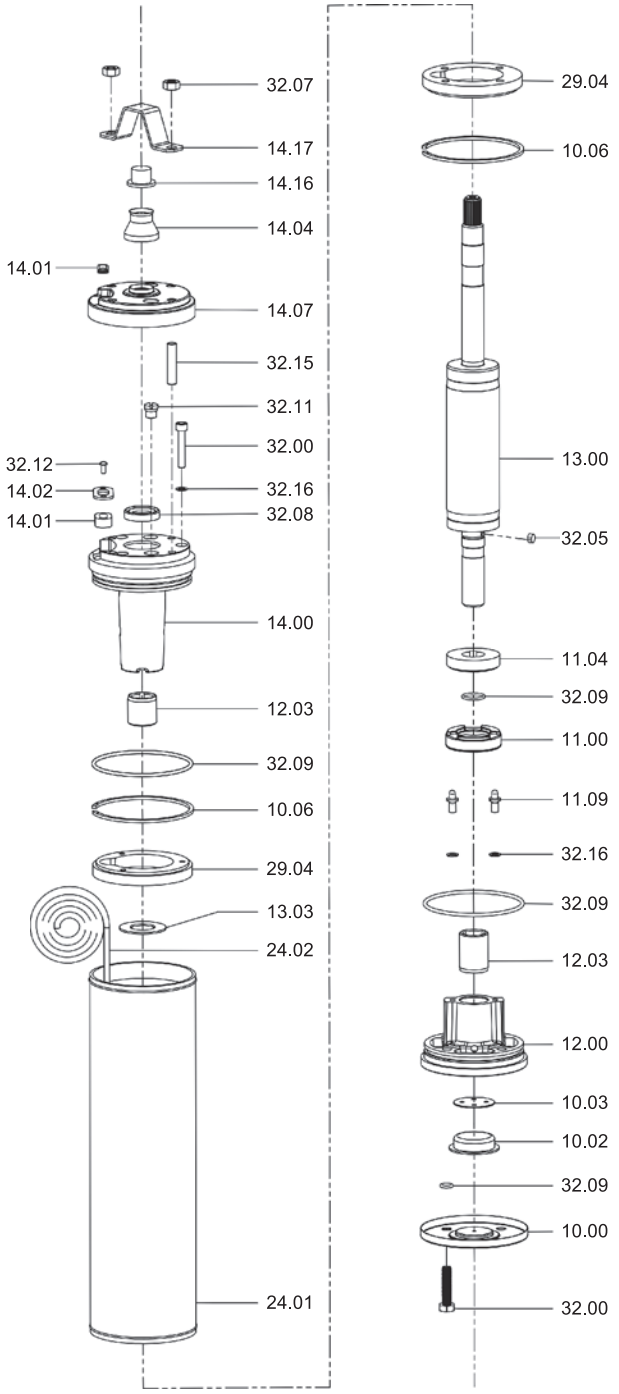
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"W" Series
(0.5HP to 2 HP)

Exploded view



Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
10.03	Diaphragm Plate
10.06	Snap Ring
11.00	Thrust Base
11.04	Thrust Pad
11.09	Rocker Screw
12.00	Lower Housing
12.03	Bush
13.00	Rotor
13.03	Up Thrust Washer
14.00	Upper Housing
14.01	Cable Grommet
14.02	Grommet Clamp
14.04	Rubber Sand Guard
14.07	Upper Housing Shell
14.16	Motor Cap
14.17	Motor Clamp
24.01	Wound Stator
24.02	Lead Out Cable
29.04	Flange
32.00	Bolt
32.05	Key
32.07	Nut
32.08	Oil Seal
32.09	O Ring
32.11	Drain Plug
32.12	Screw
32.15	Stud
32.16	Washer

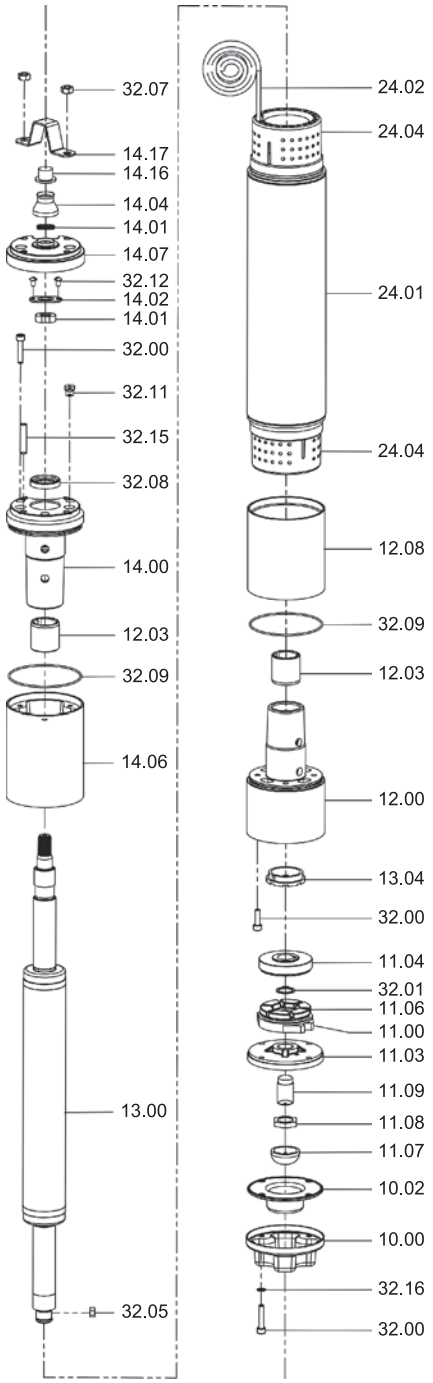
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"W" Series
(3 HP to 10 HP)

Exploded view



Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
11.00	Thrust Base
11.03	Thrust Base Plate
11.04	Thrust Pad
11.06	Thrust Segment
11.07	Rocker Screw Cap
11.08	Rocker Screw Nut
11.09	Rocker Screw
12.00	Lower Housing
12.03	Bush
12.08	Lower Pipe
13.00	Rotor
13.04	Counter Thrust Pad
14.00	Upper Housing
14.01	Cable Grommet
14.02	Grommet Clamp
14.04	Rubber Sand Guard
14.06	Upper Pipe
14.07	Upper Housing Shell
14.16	Motor Cap
14.17	Motor Clamp
24.01	Wound Stator
24.02	Lead Out Cable
24.04	Winding Guard
32.00	Bolt
32.01	Circlip
32.05	Key
32.07	Nut
32.08	Oil Seal
32.09	O Ring
32.11	Drain Plug
32.12	Screw
32.15	Stud
32.16	Washer

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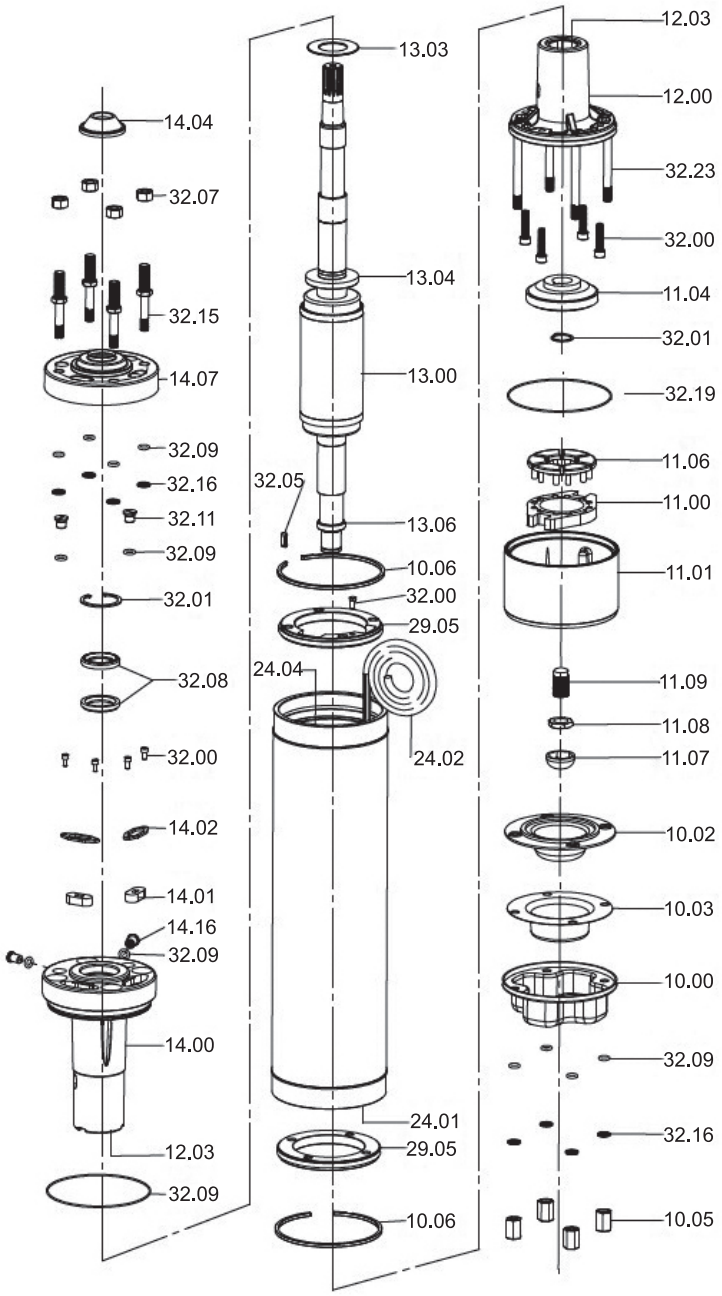
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series
(5 HP to 30 HP)

Standard Flange type Motor

Exploded view



Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
10.03	Diaphragm Bottom Plate
10.05	Doom Nut
10.06	Snap Ring
11.00	Thrust Base
11.01	Thrust Base Housing
11.04	Thrust pad
11.06	Thrust Segment
11.07	Rocker cap
11.08	Rocker Lock Nut
11.09	Rocker Screw
12.00	Lower Housing
12.03	Bush-Carbon
13.00	Rotor
13.03	Up Thrust Washer
13.04	Counter Thrust Pad
13.06	Pad Supporting Ring
14.00	Upper Housing
14.01	Cable Grommet
14.02	Cable Grommet Lock Plate
14.04	Sand Guard Rubber
14.07	Upper Housing Shell
14.16	Inlet / Outlet Valve
24.01	Wound Stator
24.02	Cable
24.04	Winding Guard
29.05	Retaining Ring
32.00	Bolt
32.01	Circlip
32.05	Key
32.07	Nut
32.08	Oil Seal
32.09	O-Ring
32.11	Plug
32.15	Stud
32.16	Washer
32.19	Gasket
32.23	Tie Rod

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

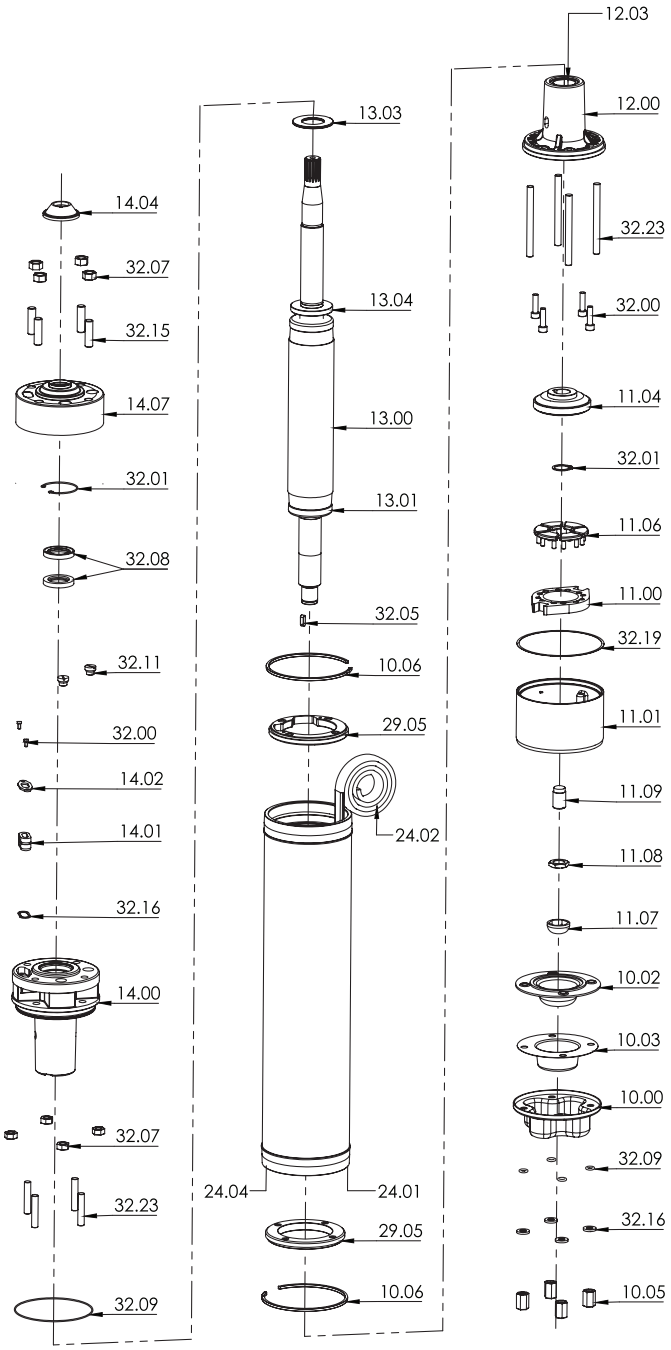
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series
(3HP to 25 HP)

Reduced diameter Flange type Motor (OD 139 mm)

Exploded view



Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
10.03	Diaphragm Bottom Plate
10.05	Doom Nut
10.06	Snap Ring
11.00	Thrust Base
11.01	Thrust Base Housing
11.04	Thrust pad
11.06	Thrust Segment
11.07	Rocker cap
11.08	Rocker Lock Nut
11.09	Rocker Screw
12.00	Lower Housing
12.03	Bush-Carbon
13.00	Rotor
13.01	Balancing Ring
13.03	Up Thrust Washer
13.04	Counter Thrust Pad
14.00	Upper Housing
14.01	Cable Grommet
14.02	Cable Grommet Lock Plate
14.04	Sand Guard Rubber
14.07	Upper Housing Shell
24.01	Wound Stator
24.02	Cable
24.04	Winding Guard
29.05	Retaining Ring
32.00	Bolt
32.01	Circlip
32.05	Key
32.07	Nut
32.08	Oil Seal
32.09	O-Ring
32.11	Plug
32.15	Stud
32.16	Washer
32.19	Gasket
32.23	Tie Rod

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WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

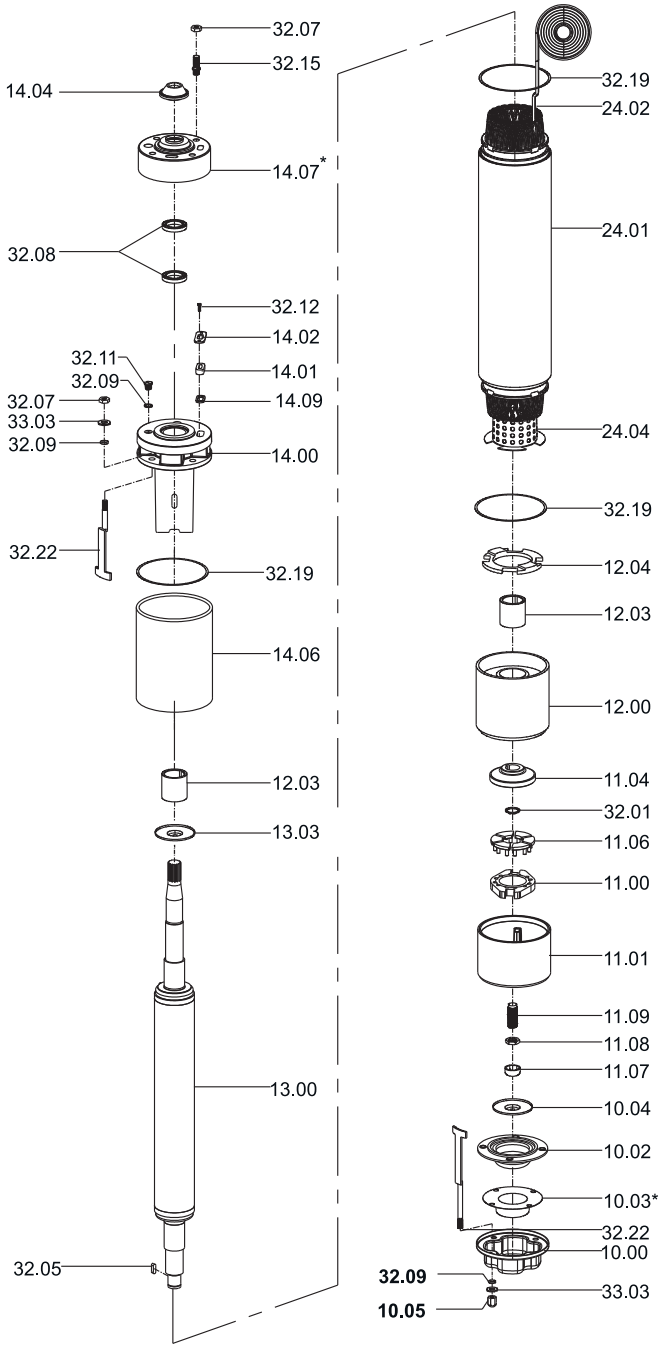
Nominal Diameter : **6"**

"W" Series

T-bolt Motor (A- Type)

(5.5HP to 60 HP)

Exploded view



Part No.	Part Name
10.00	Motor base
10.02	Diaphragm
10.03*	Diaphragm bottom plate
10.04	Diaphragm guide plate
10.05	Doom nut
11.00	Thrust Base
11.01	Thrust base housing
11.04	Thrust Pad
11.06	Thrust segment
11.07	Rocker screw cap
11.08	Rocker screw nut
11.09	Rocker screw
12.00	Lower housing
12.03	Bush
12.04	Supporting ring
13.00	Rotor
13.03	Upthrust washer
14.00	Upper housing
14.01	Cable grommet
14.02	Grommet locking plate
14.04	Rubber sand guard
14.06	Upper housing Pipe
14.07	Upper housing shell
14.09*	Grommet washer
24.01	Wound stator
24.02	lead out cable
24.04	Winding guard
32.01	Circlip
32.05	Pad key
32.07	Nut
32.08	Oil seal
32.09	O - Ring
32.11	Drain plug
32.12	Screw
32.15	Stud
32.16	Washer
32.19	Gasket
32.22	T' bolt
33.03	Bend washer

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

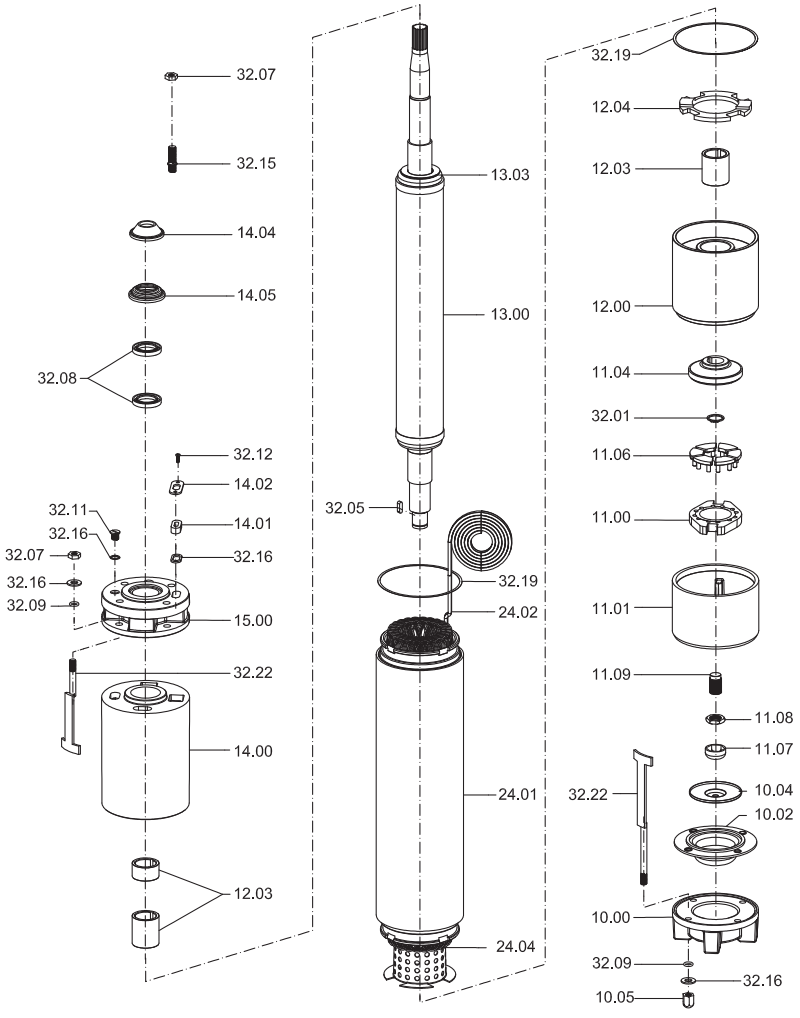
Nominal Diameter : **6"**

"W" Series

T-bolt Motor (B- Type)

(5HP to 25 HP)

Exploded view



Part No.	Part Name
10.00	Motor base
10.02	Diaphragm
10.04	Diaphragm plate
10.05	Doom nut
11.00	Thrust Base
11.01	Thrust base housing
11.04	Thrust Pad
11.06	Thrust segment
11.07	Rocker cap
11.08	Rocker Lock nut
11.09	Rocker screw
12.00	Lower housing
12.03	Bush - Carbon
12.04	Supporting ring
13.00	Rotor
13.03	Upthrust washer
14.00	Upper housing
14.01	Cable grommet
14.02	Cable Grommet lock plate
14.04	Rubber sand guard
14.05	Sand guard - SS/Bakelite
15.00	Oil seal housing
24.01	Wound stator
24.02	Cable
24.04	Winding guard
32.01	Circlip
32.05	Key
32.07	Nut
32.08	Oil seal
32.09	O - Ring
32.11	Plug
32.12	Screw
32.15	Stud
32.16	Washer
32.19	Gasket
32.22	Tie bolt

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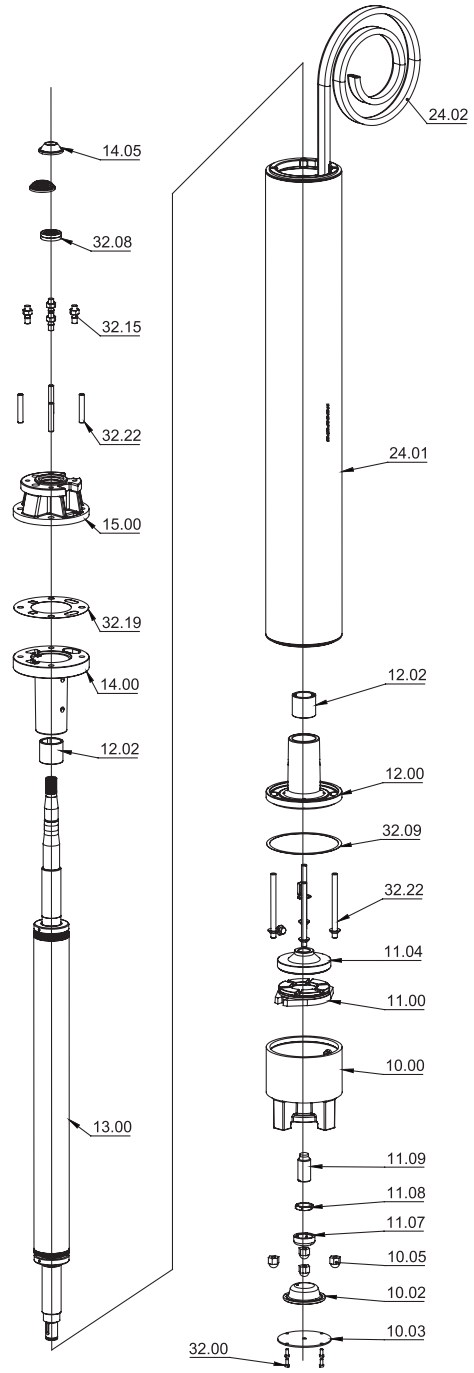
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **7"**

"W" Series

(60 HP to 100 HP)

Exploded view



Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
10.03	Diaphragm Plate
10.05	Doom nut
11.00	Thrust Base
11.04	Thrust Pad
11.07	Rocker Cap
11.08	Rocker Lock nut
11.09	Rocker Screw
12.00	Lower Housing
12.02	Bush-LTB
13.00	Rotor
14.00	Upper Housing
14.05	Sand Guard-SS/Bakelite
15.00	Oil Seal housing
24.01	Wound Stator
24.02	Cable
32.00	Bolt
32.08	Oil Seal
32.09	O-ring
32.15	Stud
32.19	Gasket
32.22	Tie Rod

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

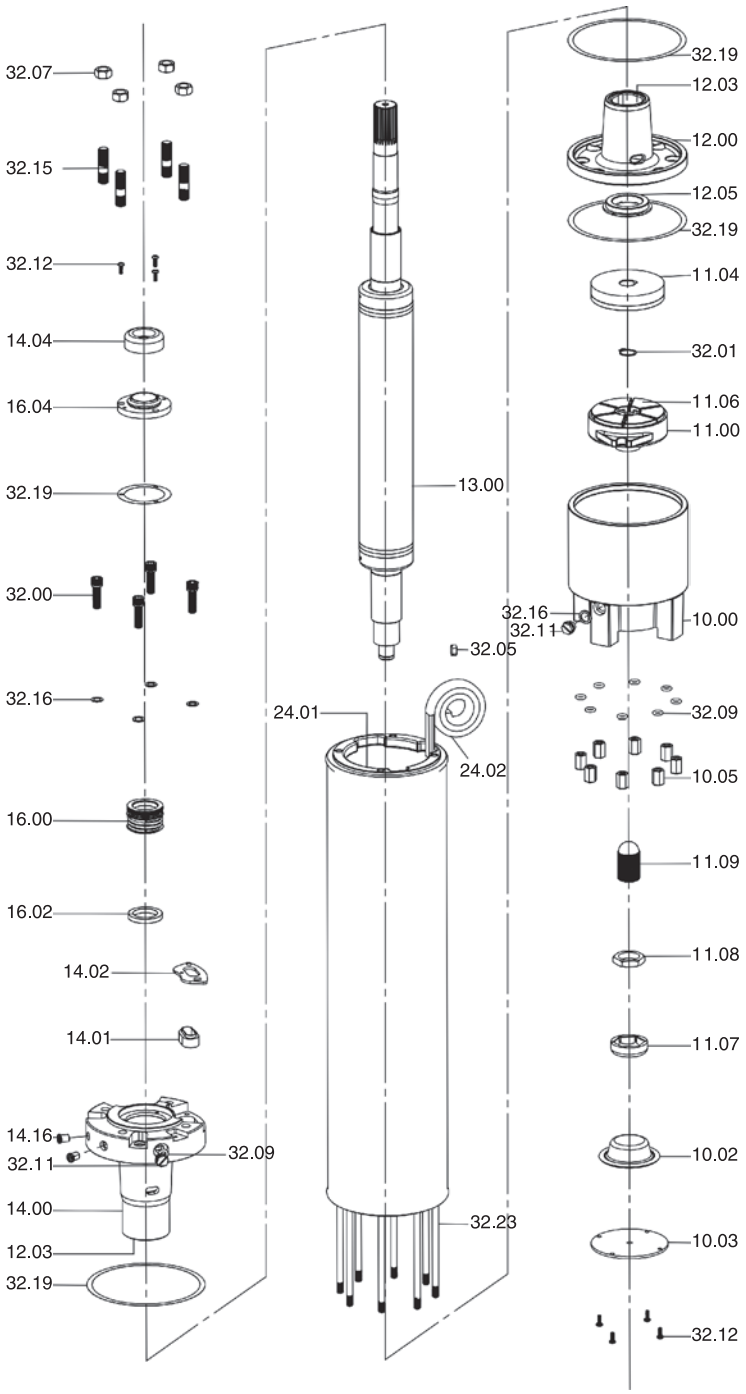
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **8"**

"W" Series

(50HP to 150 HP)

Exploded view



Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
10.03	Diaphragm Bottom Plate
10.05	Doom nut
11.00	Thrust Base
11.04	Thrust Pad
11.06	Thrust Segment
11.07	Rocker Cap
11.08	Rocker Lock nut
11.09	Rocker Screw
12.00	Lower Housing
12.03	Bush-Carbon
12.05	Counter Thrust Ring
13.00	Rotor
14.00	Upper Housing
14.01	Cable Grommet
14.02	Cable Grommet Lock Plate
14.04	Sand Guard-Rubber
14.16	Inlet / Outlet Valve
16.00	Mechanical Seal
16.02	Mechanical Seal Rest Washer
16.04	Mechanical Seal Guide Plate
24.01	Wound Stator
24.02	Cable
32.00	Bolt
32.01	Circlip
32.05	Key
32.07	Nut
32.09	O-ring
32.11	Plug
32.12	Screw
32.15	Stud
32.16	Washer
32.19	Gasket
32.23	Tie Rod

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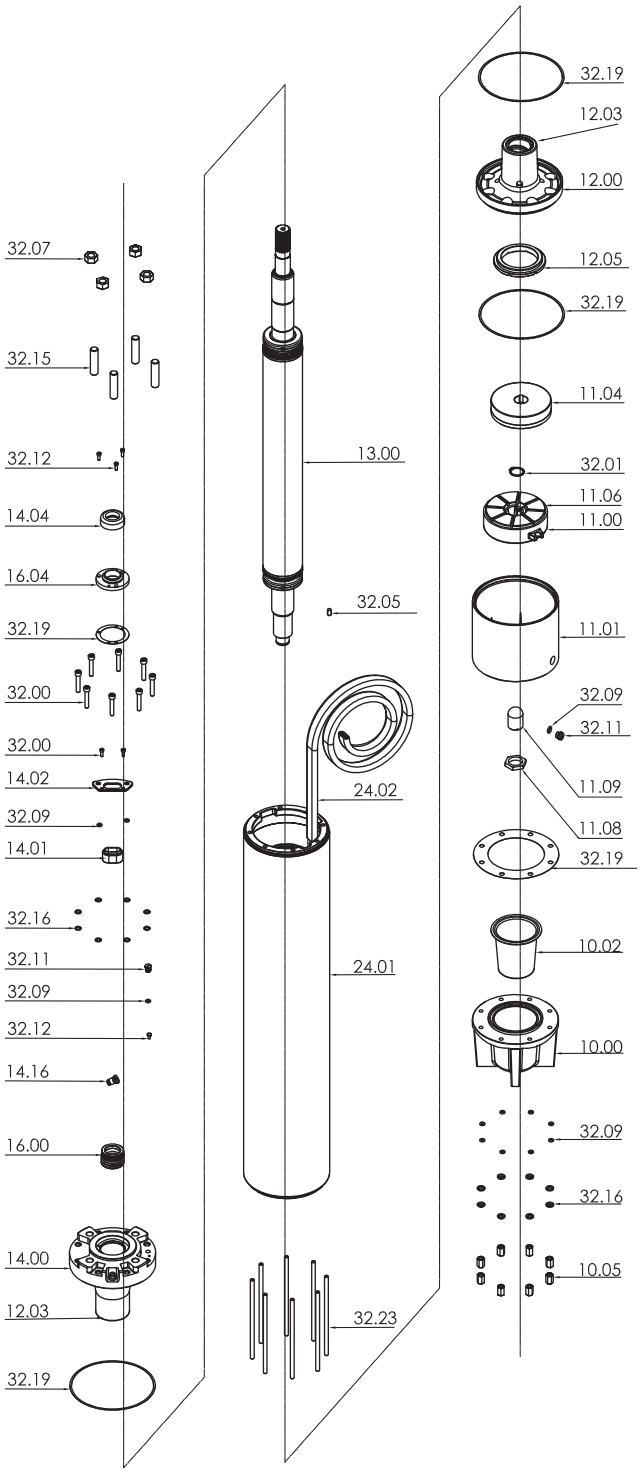
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **10"**

"W" Series

(150HP to 250 HP)

Exploded view



Part No.	Part Name
10.00	Motor Base
10.02	Diaphragm
10.05	Doom Nut
11.00	Thrust Base
11.01	Thrust Base Housing
11.04	Thrust Pad
11.06	Thrust Segment
11.08	Rocker Lock Nut
11.09	Rocker Screw
12.00	Lower Housing
12.03	Bush - Carbon
12.05	Counter Thrust Ring
13.00	Rotor
14.00	Upper Housing
14.01	Cable Grommet
14.02	Cable Grommet Lock Plate
14.04	Sand Guard Rubber
14.16	Inlet / Outlet Valve
16.00	Mechanical Seal
16.04	Mechanical Seal Guide Plate
24.01	Wound Stator
24.02	Cable
32.00	Bolt
32.01	Circlip
32.05	Key
32.07	Nut
32.09	O-Ring
32.11	Plug
32.12	Screw
32.15	Stud
32.16	Washer
32.19	Gasket
32.23	Tie Rod

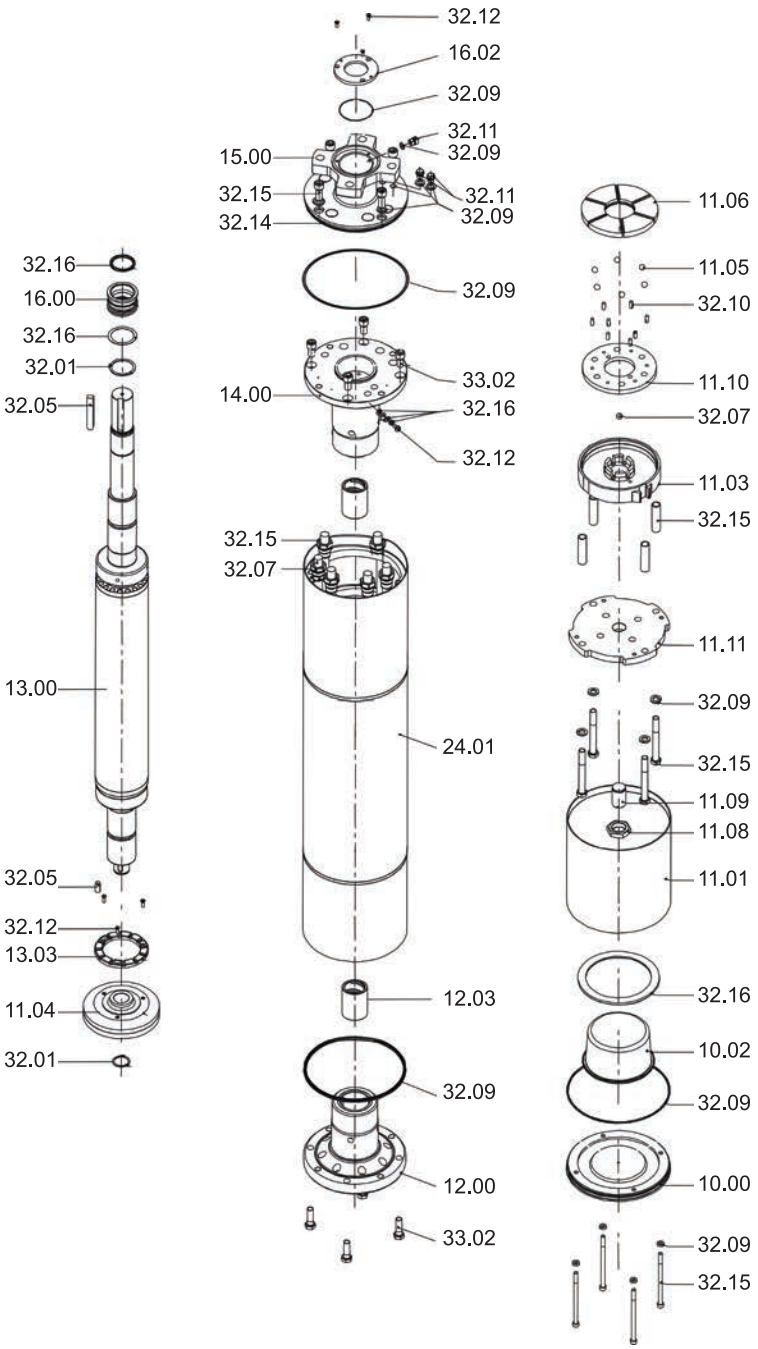
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **12"**

"W" Series

Exploded view



Part No.	Part Name
10.00	Motor base
10.02	Diaphragm
11.01	Thrust base housing
11.03	Thrust bearing bottom
11.04	Thrust Pad
11.05	Ball
11.06	Thrust segment
11.08	Rocker screw nut
11.09	Rocker screw
11.10	Ball guide ring
11.11	Thrust bearing base plate
12.00	Lower housing
12.03	Bush
13.00	Rotor
13.03	Upthrust Washer
14.00	Upper housing
15.00	Seal housing
16.00	Mechanical seal
16.02	Mechanical seal clamp plate
24.01	Wound stator
32.01	Circlip
32.05	Key
32.07	Nut
32.09	O - Ring
32.10	Segment guide pin
32.11	Drain plug
32.12	Screw
32.15	Stud
32.16	Washer
32.23	Tie rod
33.02	Bolt

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"W" Series

Specifications

Nominal Dia	4”
Maximum Outer Diameter	3.85"
Power Range	0.5 HP to 10 HP - Three Phase
Speed	3450 rpm
Version	Three Phase - 230 V, 380 V & 460 V, 60 Hz, A.C Supply
Class of Insulation	Y
Degree of Protection	IP 58
Direction of Rotation	Electrically Reversible
Type of Duty	S1 (Continuous)
Down Thrust Load	0.5 HP to 2 HP - 800 lbs
	3 HP to 10 HP - 1500 lbs
Minimum Cooling Flow Along the Motor	0.25 ft/sec
Maximum Liquid Temperature	86°F (30°C)
Starts per Hour	Three phase 12 Times
Shaft Type	Splined as per NEMA Standard
Mounting Standard	NEMA Standard
Method of Starting	Three Phase - Direct On Line (DOL)
Cable Lead out	Permanently Connected and Sealed 3 Core EPDM Rubber Flat Cable



Materials of Construction

Part Name	Type - A	Type - N
Shaft Seal	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)
Housing Shell	SS - 304	SS - 316
Stator Shell	SS - 304 / 441	SS - 316
Thrust Pad	Carbon Graphite	Carbon Graphite
Thrust Bearing	SS - 420	SS - 420
Diaphragm	High Nitrile Rubber	High Nitrile Rubber
Motor Base	SS - 304	SS - 316
Bush	Carbon	Carbon
Shaft	EN- 8D	EN - 8D
Shaft Extension	17 - 4 PH	17 - 4 PH

230, 380 & 460V, THREE PHASE

DIMENSIONS & WEIGHT DATA

Motor Model	HP	Lead Out Cable (Sq.mm)			Height H1	Nett Weight Approx.	
		230 V	380 V	460 V	(mm)	(kg)	(lbs)
W4A-05-4	0.5	1.5	1.5	-	405	14.06	32
W4A-07-4	0.75	1.5	1.5	-	445	16.32	36
W4A-10-4	1	1.5	1.5	-	475	18.14	40
W4A-15-4	1.5	2.5	1.5	-	535	20.86	46
W4A-20-4	2	2.5	1.5	-	715	27.21	60
W4A-30-4	3	2.5	1.5	1.5	825	32.20	71
W4A-40-4	4	2.5	1.5	1.5	875	35.83	79
W4A-50-4	5	4.0	2.5	2.5	950	39.91	88
W4A-60-4	6	4.0	2.5	2.5	1010	43.54	96
W4A-75-4	7.5	4.0	2.5	2.5	1075	46.72	103
W4A-100-4	10	4.0	2.5	2.5	1085	47.62	105

The last digit of the model number denotes voltage (E = 230V, I = 380V, M = 460V).

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **4"**

"W" Series

230V, THREE PHASE

TECHNICAL & ELECTRICAL DATA

MODEL	HP	SF	RATED		MAX. S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Capacity (lbs)	KVA Code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
W4A-05-4E	0.5	1.6	2.3	664	3.1	928	59	56	51	80	75	70	15	800	N
W4A-07-4E	0.75	1.5	3.6	928	4.3	1264	65	63	57	79	75	64	21	800	M
W4A-10-4E	1	1.4	4	1136	5.5	1600	68	66	60	80	75	68	25	800	L
W4A-15-4E	1.5	1.3	5.5	1648	7.3	2032	70	69	65	80	77	71	34	800	K
W4A-20-4E	2	1.25	8	2280	9.6	2600	71	69	66	78	75	71	44	800	K
W4A-30-4E	3	1.15	10.4	3120	12	3720	72	72	68	80	78	74	58	1500	I
W4A-40-4E	4	1.15	15	4160	16.8	4720	71	73	70	78	73	70	75	1500	I
W4A-50-4E	5	1.15	16.3	4880	19.5	6200	76	75	71	81	79	72	97	1500	I
W4A-60-4E	6	1.15	19.4	6040	23	6820	76	75	73	82	80	70	115	1500	I
W4A-75-4E	7.5	1.15	22	7280	27.5	8400	76	75	74	83	80	78	137	1500	I

380V, THREE PHASE

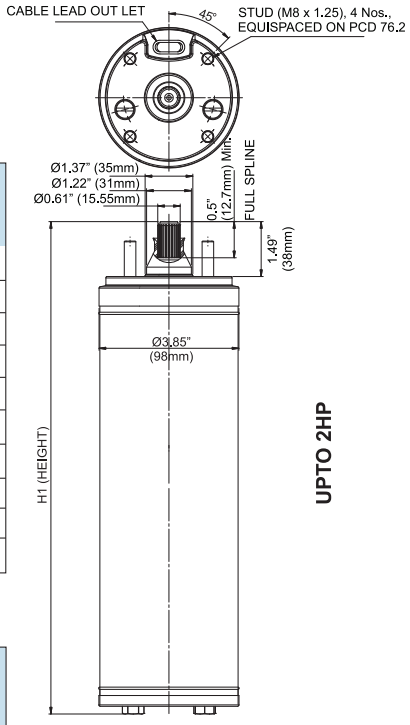
TECHNICAL & ELECTRICAL DATA

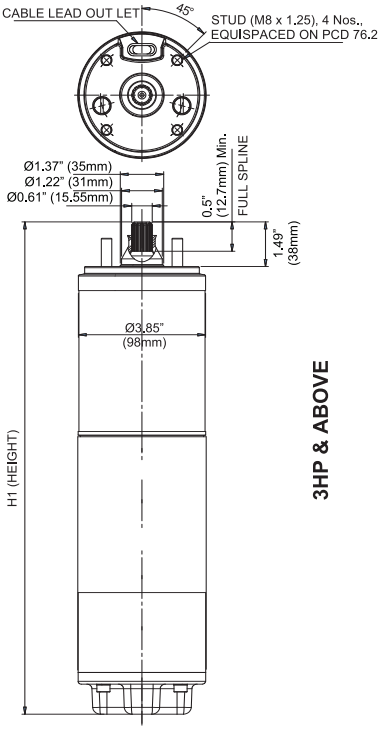
MODEL	HP	SF	RATED		MAX. S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Capacity (lbs)	KVA Code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
W4A-05-4I	0.5	1.6	1.6	720	1.9	960	50	47	43	78	77	70	10	800	P
W4A-07-4I	0.75	1.5	1.9	912	2.4	1296	65	63	57	81	75	65	12	800	M
W4A-10-4I	1	1.4	2.5	1248	3.6	1600	66	64	59	82	75	65	18	800	N
W4A-15-4I	1.5	1.3	3.4	1728	4.8	2200	67	65	61	81	78	71	24	800	M
W4A-20-4I	2	1.25	4.2	2256	5.8	2600	69	67	64	81	80	76	29	800	L
W4A-30-4I	3	1.15	5.6	3024	7.2	3808	74	72	69	83	82	74	36	1500	J
W4A-40-4I	4	1.15	8.1	4200	9.5	4800	75	75	71	78	79	72	45	1500	J
W4A-50-4I	5	1.15	9.1	4840	11	5960	76	75	74	82	81	73	55	1500	J
W4A-60-4I	6	1.15	11.3	6000	13	6780	76	75	74	82	81	72	65	1500	J
W4A-75-4I	7.5	1.15	13.3	7480	16	8600	75	74	72	83	80	75	80	1500	H
W4A-100-4I	10	1.15	17.3	9340	20.8	13165	80	80	79	84	82	78	87	1500	G

460V, THREE PHASE

TECHNICAL & ELECTRICAL DATA

MODEL	HP	SF	RATED		MAX. S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Capacity (lbs)	KVA Code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
W4A-30-4M	3	1.15	5.1	3140	5.6	3530	72	70.7	67	79	77	73	26	1500	H
W4A-40-4M	4	1.15	6.6	3950	7.3	4500	76.8	76	73.5	78	76	70	35	1500	H
W4A-50-4M	5	1.15	8.1	4800	8.8	5450	78.1	77.4	74.7	77	75	70	42	1500	H
W4A-60-4M	6	1.15	9.7	5770	10.7	6660	78.3	77.9	75.5	78	75	70	52	1500	H
W4A-75-4M	7.5	1.15	10.9	6880	12.2	7910	80.4	80.3	79	81	79	73	60	1500	H
W4A-100-4M	10	1.15	14.8	9240	16.6	10630	81.2	81.3	80	81	79	75	82	1500	H





ALL DIMENSIONS ARE IN Inches & mm

SPLINED SHAFT : 14 TEETH - MODULE 1.5875
PRESSURE ANGLE 30°, A.N.S.I. B-92-1-1970 COUPLING CLASS 5

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series

Specifications

Nominal Dia	**6"**
Maximum Outer Diameter	5.62"
Power Range	5 HP to 60 HP - Three Phase
Speed	3450 rpm
Version	Three Phase - 230 V, 380 V & 460 V, 60 Hz, A.C Supply
Class of Insulation	Y
Degree of Protection	IP 68
Direction of Rotation	Electrically Reversible - Three Phase
Type of Duty	S1 (Continuous)
Down Thrust Load	5 HP to 30 HP - 3500 lbs
	35 HP to 60 HP - 6000 lbs
Minimum Cooling Flow Along the Motor	0.5 ft/sec
Maximum Liquid Temperature	Standard - 86°F, Hi-temp - 122°F Beyond 122°F motors can also be supplied by derating
Starts per Hour	4 Times
Shaft Type	Splined as per NEMA Standard
Mounting Standard	NEMA Standard
	Three Phase - 5 HP to 60 HP - Direct On Line (DOL)
Method of Starting	Three Phase - 7.5 HP to 60 HP - Star Delta (SD)
	Permanently Connected and Sealed 3/4 Core EPDM
Cable Lead out	Insulated Flat Cable
Thermal Protection	Optional - PT Sensor



* On request motors 440 & 690V can be supplied.

Materials of Construction

Part Name	Type - A	Type - N	Type - B	Type - S	Type - T	Type - O
Shaft Seal / Mechanical Seal	Nitrile Rubber (NBR) / Ceramic - Carbon	Nitrile Rubber (NBR) / Ceramic - Carbon	Nitrile Rubber (NBR) / Ceramic - Carbon	Nitrile Rubber (NBR) / Ceramic - Carbon	Nitrile Rubber (NBR) / Ceramic - Carbon	Nitrile Rubber (NBR) / Sic-Sic
Upper & Lower Housings	Cast Iron	Cast Iron	Cast Iron	Casted SS - 304	Casted SS - 316	904 L
Stator Shell	SS - 304	SS - 316	SS - 304	SS - 304	SS - 316	NA
Thrust Pad	Carbon Graphite	Carbon Graphite	Carbon Graphite	Carbon Graphite	Carbon Graphite	Carbon Graphite
Thrust Bearing	SS - 420	SS - 420	SS - 420	SS - 420	SS - 420	SS - 420
Diaphragm	High Nitrile Rubber	High Nitrile Rubber	High Nitrile Rubber	High Nitrile Rubber	High Nitrile Rubber	High Nitrile Rubber
Motor Base	SS - 304	SS - 316	Cast Iron	SS - 304	SS - 316	904 L
Upper Housing Shell	SS - 304	SS - 316	Nil	Nil	Nil	Nil
Shaft	Upto 25 HP : SS-431 30 to 60HP : EN8	Upto 25 HP : SS-431 30 to 60HP : EN8	Upto 25 HP : SS-431 30 to 60HP : EN8	Upto 25 HP: SS-431 30 to 60HP : EN8	Upto 25 HP-: SS-431 30 to 60HP : EN8	3 to 25 HP - SS 431 30 to 60 HP : EN 8
Shaft Extension	Upto 25 HP : SS-431 30 to 60HP : 17.4 ph	Upto 25 HP: SS-431 30 to 60HP : 17.4 ph	Upto 25 HP : SS-431 30 to 60HP : 17.4 ph	Upto 25 HP : SS-431 30 to 60HP : 17.4 ph	Upto 25 HP : SS-431 30 to 60HP : 17.4 ph	904 L
Sleeves	Upto 25 HP : NA 30 to 60HP : SS-431	Upto 25 HP : NA 30 to 60HP : SS-431	Upto 25 HP : NA 30 to 60HP : SS-431	Upto 25 HP: NA 30 to 60HP : SS-431	Upto 25 HP : NA 30 to 60HP : SS-431	SS 431

* S/T/O MOC types are supplied on request.

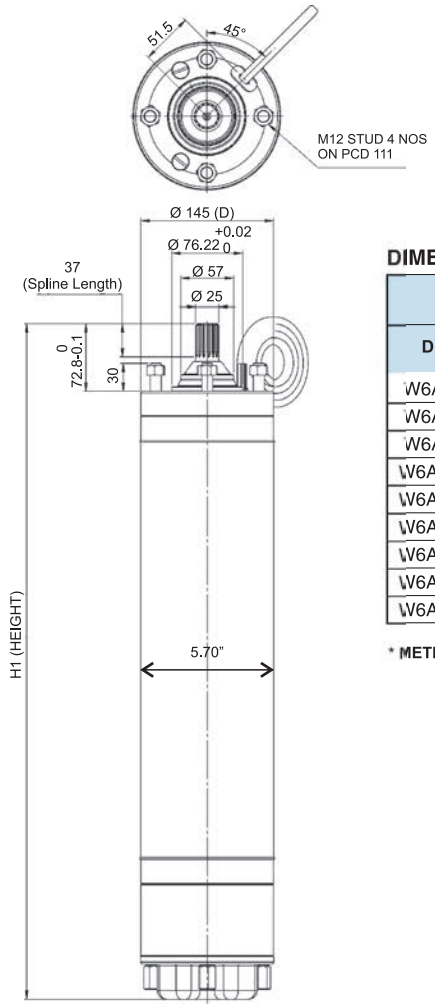
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WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series

Standard Flange Type Motor



All Dimensions are in mm
Splined Shaft : 15 teeth - Module 1.5875
Pressure Angle 30°
A.N.S.I.B-92-1-1970
Tolerance Class 5

DIMENSIONS AND WEIGHT

Model		Motor Power	Dimension (mm)		Nett Weight (Approx.)		Cable leadouts		
							Cable size (sq. mm)		Cable length in metre
D.O.L	S.D	HP	D (inches)	H1 (mm)	(Kg)	(lbs)	DOL	SD	
W6A-50-4	W6A-50-6	5.5	144	734	42.18	93	2.5	-	3
W6A-60-4	W6A-60-6	6	144	754	43.99	97	2.5	-	3
W6A-75-4	W6A-75-6	7.5	144	804	49.89	110	6	2.5	3
W6A-100-4	W6A-100-6	10	144	854	55.33	122	6	2.5	3
W6A-125-4	W6A-125-6	12.5	144	884	58.05	128	10	2.5	3
W6A-150-4	W6A-150-6	15	144	924	63.04	139	10	4	3
W6A-175-4	W6A-175-6	17.5	144	964	67.13	148	10	4	3
W6A-200-4	W6A-200-6	20	144	1004	71.21	157	10	4	3
W6A-250-4	W6A-250-6	25	144	1084	80.28	177	16	4	3.5

* **METHOD OF STARTING : 4 -** 3P / DOL / 60Hz **6 -** 3P / SD / 60Hz

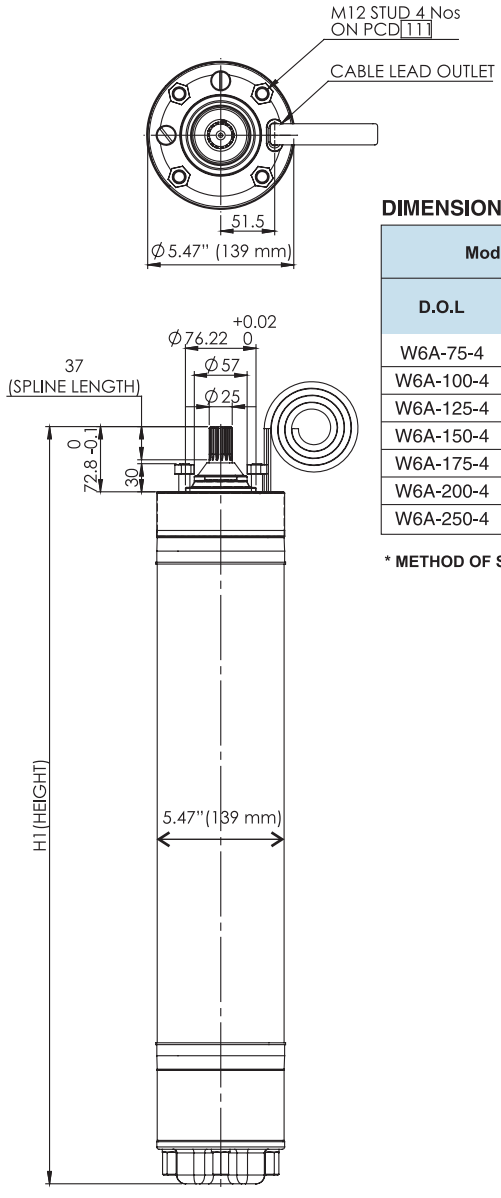
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WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series

Reduced Diameter Flange Type Motor (OD 139 mm)



All Dimensions are in mm
Splined Shaft : 15 teeth -
Module 1.5875
Pressure Angle 30°
A.N.S.I.B-92-1-1970
Tolerance Class 5

DIMENSIONS AND WEIGHT

Model		Motor Power	Dimension (mm)		Nett Weight (Approx.)		Cable leadouts		
							Cable Size (sq mm)		Cable Length (m)
D.O.L	S.D	HP	D	H1 (mm)	(Kg)	(lbs)	DOL	SD	
W6A-75-4	W6A-75-6	7.5	139	820	56.24	124	4	2.5	3
W6A-100-4	W6A-100-6	10	139	865	60.32	133	4	2.5	3
W6A-125-4	W6A-125-6	12.5	139	895	63.04	139	6	2.5	3
W6A-150-4	W6A-150-6	15	139	930	67.13	148	6	4	3
W6A-175-4	W6A-175-6	17.5	139	970	72.12	159	6	4	3
W6A-200-4	W6A-200-6	20	139	1020	77.11	170	10	4	3
W6A-250-4	W6A-250-6	25	139	1070	83.91	185	10	4	3.5

*** METHOD OF STARTING : 4 -** 3P / DOL / 60Hz **6 -** 3P / SD / 60Hz

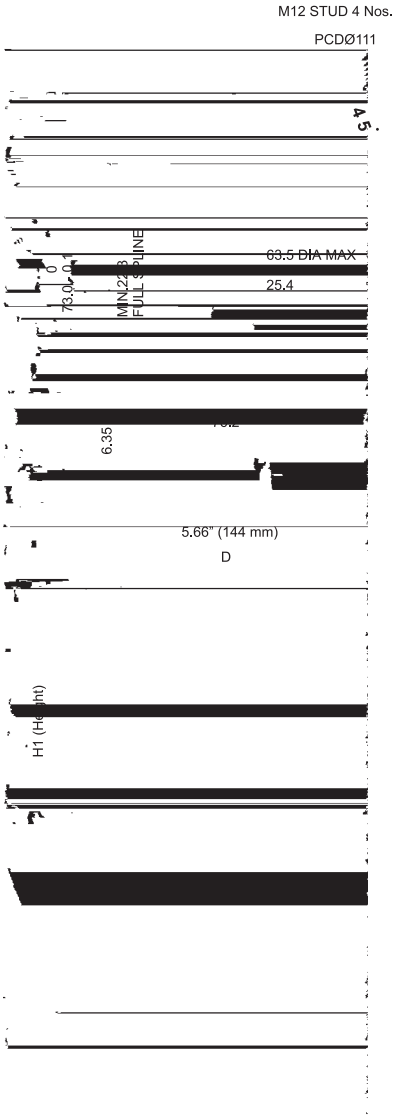
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series

T-bolt Motor (A - Type)



All Dimensions are in mm
Splined Shaft : 15 teeth -
Module 1.5875
Pressure Angle 30°
A.N.S.I.B-92-1-1970
Tolerance Class 5

DIMENSIONS AND WEIGHT

Model		Motor Power	Dimension (mm)		Nett Weight		Cable leadouts		
							Cable Size (Sq.mm)		Cable Length (m)
D.O.L	S.D	HP	D	H1	(Kg)	(lbs)	D.O.L	S.D	
W6A-300-4	W6A-300-6	30	144	1152	93.44	206	10.0	4.0	3.5
W6A-350-4	W6A-350-6	35	144	1192	98.42	217	10.0	6.0	4.25
W6A-400-4	W6A-400-6	40	144	1227	102.96	227	10.0	6.0	4.25
W6A-500-4	W6A-500-6	50	144	1302	111.13	245	16.0	6.0	5.25
W6A-600-4	W6A-600-6	60	144	1377	121.10	267	16.0	10	5.25

* **METHOD OF STARTING : 4 -** 3P / DOL / 60Hz **6 -** 3P / SD / 60Hz

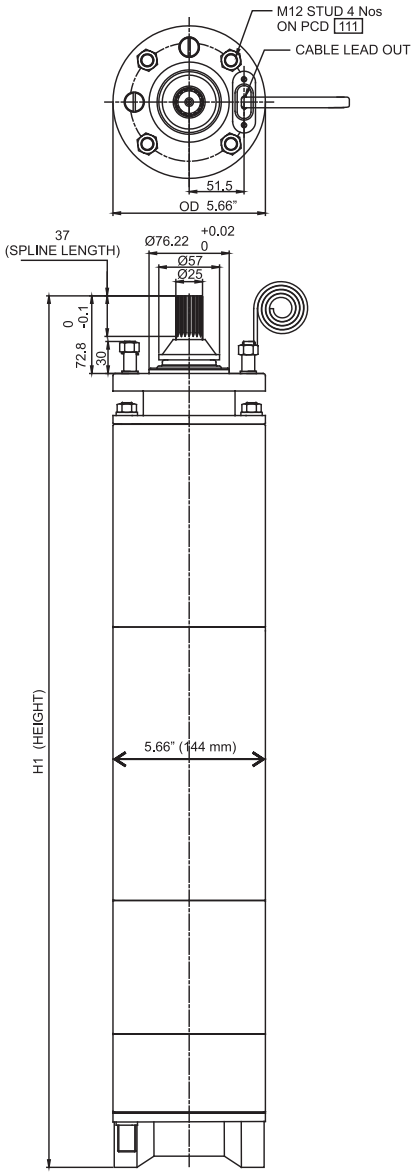
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series

T-bolt Motor (B-Type)



All Dimensions are in mm
Splined Shaft : 15 teeth -
Module 1.5875
Pressure Angle 30°
A.N.S.I.B-92-1-1970
Tolerance Class 5

DIMENSIONS AND WEIGHT

Model		Motor Power	Dimension (mm)		Nett Weight		Cable leadouts		
							Cable Size (Sq.mm)		Cable Length (m)
D.O.L	S.D	HP	D	H1	(Kg)	(lbs)	D.O.L	S.D	
W6A-75-4	W6A-75-6	7.5	144	793	57.15	126	4	2.5	3
W6A-100-4	W6A-100-6	10	144	843	62.14	137	4	2.5	3
W6A-125-4	W6A-125-6	12.5	144	873	65.31	144	6	2.5	3
W6A-150-4	W6A-150-6	15	144	913	67.13	148	6	4	3
W6A-175-4	W6A-175-6	17.5	144	953	72.12	159	6	4	3
W6A-200-4	W6A-200-6	20	144	993	77.11	170	10	4	3
W6A-250-4	W6A-250-6	25	144	1073	85.27	188	10	4	3.5

* **METHOD OF STARTING : 4 -** 3P / DOL / 60Hz **6 -** 3P / SD / 60Hz

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **6"**

"W" Series

230V, THREE PHASE

TECHNICAL & ELECTRICAL DATA

MODEL	HP	SF	RATED		MAX. S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Capacity (lbs)	KVA code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
W6A-50-4E	5	1.15	16.1	4540	18.5	5480	77.5	76.6	76.5	80.9	78.6	76.1	88	3500	I
W6A-75-4E	7.5	1.15	22.5	6850	26	7860	80	80.5	79.6	82.5	81.7	77	130	3500	H
W6A-100-4E	10	1.15	31.5	9280	36	10640	82	81.5	80	82.5	82.5	79	175	3500	H
W6A-125-4E	12.5	1.15	36.5	11700	42	13400	80.5	81.8	80.6	83.3	82.8	80	216	3500	H
W6A-150-4E	15	1.15	44.5	13620	50.5	15400	80.5	80.8	80.2	82.5	81.2	80.5	265	3500	H
W6A-200-4E	20	1.15	57	18180	65.5	20940	82	82.5	80	85.3	85.2	82	348	3500	H
W6A-250-4E	25	1.15	72	22680	82.5	26000	82.5	82.2	81.5	87.2	87.5	83	468	3500	I
W6A-300-4E	30	1.15	83	26880	95	30600	82.5	82	82	83.5	84	82	547	3500	I
W6A-400-4E	40	1.15	116	36240	13.2	41700	82.5	82.8	80	82.3	82	80	750	6000	J

380V, THREE PHASE

TECHNICAL & ELECTRICAL DATA

MODEL	HP	SF	RATED		MAX. S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Capacity (lbs)	KVA code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
W6A-60-4I	6	1.15	11	6000	13	6900	76	75	74	83	82	82	55	3500	H
W6A-75-4I	7.5	1.15	14	7200	16	8520	77	76	76	86	85	85	66	3500	G
W6A-100-4I	10	1.15	18.2	9640	21	10900	79	78	78	88	87	85	84	3500	F
W6A-125-4I	12.5	1.15	23	11700	25.5	13700	80	79	79	89	87	87	104	3500	F
W6A-150-4I	15	1.15	26	13680	30	15500	82	81	80	84	83	82	132	3500	G
W6A-175-4I	17.5	1.15	30	13680	34.5	15500	82	81	80	84	83	82	132	3500	G
W6A-200-4I	20	1.15	33.5	18300	38.5	21580	80	80	80	87	86	85	180	3500	G
W6A-250-4I	25	1.15	43	22680	48.5	26000	85	86	85	90	91	89	230	3500	G
W6A-300-4I	30	1.15	48	25920	55.2	29600	85	86	85	84	84	83	300	3500	H
W6A-400-4I	40	1.15	68.5	36000	74	41300	83.5	84	83.6	83.5	84	81	380	6000	H
W6A-500-4I	50	1.15	83	44640	92	51320	83	83	82.5	82	82	81	450	6000	H
W6A-600-4I	60	1.15	97	54200	112	63200	82	83	82	85	84	84	530	6000	H

460V, THREE PHASE

TECHNICAL & ELECTRICAL DATA

MODEL	HP	SF	RATED		MAX. S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Capacity (lbs)	KVA code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
W6A-50-4M	5	1.15	7.9	4680	8.5	5120	80.5	79	77.5	76	78.5	75.9	38	3500	G
W6A-60-4M	6	1.15	13	5900	10.5	6720	81	82	80	83	82	78	48	3500	H
W6A-75-4M	7.5	1.15	15	7000	14	8050	78	79	78.5	81	80	79.5	60	3500	H
W6A-100-4M	10	1.15	18	9260	16.8	10600	80	81	80	82	78	77	78	3500	G
W6A-125-4M	12.5	1.15	22	11680	20.8	13400	79.8	80	79.5	84	82	81.8	90	3500	G
W6A-150-4M	15	1.15	28	13200	25	15300	82.5	83	82	81.7	80	79	120	3500	G
W6A-200-4M	20	1.15	27	18200	32	20800	82	82.5	82	88	86	85.5	165	3500	G
W6A-250-4M	25	1.15	33	22320	38	25600	82.5	83	82.2	86.8	82.5	82	220	3500	G
W6A-300-4M	30	1.15	38.8	26750	44.5	30750	82.5	83.5	82	86.5	85	82	260	3500	G
W6A-350-4M	35	1.15	48	31200	55	35800	82	84	82	82	82	81.5	290	6000	F
W6A-400-4M	40	1.15	53.5	35760	64	41160	83.5	84	83.5	83.3	83.8	83	330	6000	H
W6A-500-4M	50	1.15	67	44160	78	51500	83	84.5	84	84	83	80	390	6000	H
W6A-600-4M	60	1.15	85.5	56400	98	65000	80.5	81	80.5	85	83	79	425	6000	H

The above mentioned electrical data are applicable for Star-Delta motors also

Note : Star-Delta motors are available from 7.5 H.P. onwards.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **7"**

"W" Series

Technical Specifications

Nominal Dia	**7.08"**
Maximum Outer Diameter	180 mm
Power Range	60 HP to 100 HP - Three Phase
Speed	3450 rpm
Version	Three Phase - 380 V, 400 V, 440 V & 460 V, 60 Hz, A.C Supply
Class of Insulation	Y
Degree of Protection	IP 68
Direction of Rotation	Electrically Reversible - Three Phase
Type of Duty	S1 (Continuous)
Minimum Cooling Flow Along the Motor	0.16 m/sec
Maximum Liquid Temperature	Standard - 86°F, High Temp - 122°F, Beyond 122°F can also be supplied with derated motor
Max. Starts per Hour	4 Times
Shaft End	Splines
Mounting Standard	NEMA
Method of Starting	Direct On Line (DOL)
	Star Delta (SD)
Cable Lead out	Permanently Connected and Sealed 3/4 Core EPDM Insulated Flat Cable
Thermal Protection	Optional - PT Sensor



Materials of Construction

Part Name	Type - B	Type - S
Shaft Seal Housing	Cast Iron	SS - 304 Casted
Shaft Seal (Oil Seal)	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)
Upper & Lower Housings	Cast Iron	SS - 304 Casted
Stator Shell	SS - 304	SS - 304
Thrust Pad	Carbon Graphite	Carbon Graphite
Thrust Bearing	SS - 420	SS - 420
Diaphragm	High Nitrile Rubber	High Nitrile Rubber
Motor Base	Cast Iron	SS - 304 Casted
Shaft	EN-8	EN-8
Shaft Extension	17-4 ph	17-4 ph
Sleeves	SS - 431	SS - 431

* S / T/ O MOC types are supplied on request.

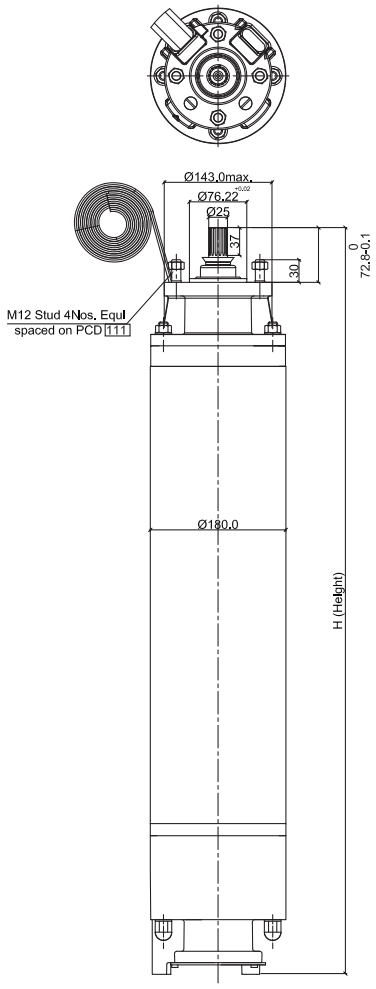
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **7"**

"W" Series

Technical Data



DIMENSIONS AND WEIGHT

D.O.L	S.D	Motor Power	*Method of Starting	Dimension (mm)		Nett Weight		Cable leadout size in Sq.mm				
								380 V		460 V		Cable Length (m)
		HP		D	H1	(Kg)	(lbs)	D.O.L	S.D	D.O.L	S.D	
W7B-600-4	W7B-600-6	60	T / D	174	1411	179.1	395	16	10	16	10	4
W7B-750-4	W7B-750-6	75	T / D	174	1531	199.1	439	25	16	25	16	5
W7B-850-4	W7B-850-6	85	T / D	174	1591	200.9	443	25	16	35	16	5
W7B-A00-4	W7B-A00-6	100	T / D	174	1641	219.9	485	35	25	35	25	5

380V, THREE PHASE

TECHNICAL & ELECTRICAL DATA

MODEL	HP	SF	RATED		MAX. S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Capacity (lbs)	KVA code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
W7B-600-4I	60	1.15	98	51940	109	59900	87	87	86	83	82	76	590	10000	H
W7B-750-4I	75	1.15	116	63500	131	73300	86	86	85	85	83	78	710	12500	J
W7B-850-4I	85	1.15	135	73500	152	84900	87	87	84	85	83	79	820	12500	J
W7B-A00-4I	100	1.15	155	84850	175	97850	88	88	88	85	83	78	945	12500	J

460V, THREE PHASE

TECHNICAL & ELECTRICAL DATA

MODEL	HP	SF	RATED		MAX. S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Capacity (lbs)	KVA Code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
W7B-600-4M	60	1.15	78	52400	88.5	60206	88	87	86	85	85	83	530	10000	H
W7B-750-4M	75	1.15	96	64400	110	74200	86	85	84	85	84	82	720	12500	G
W7B-850-4M	85	1.15	106	72500	122	84000	87	87	85	86	85	83	790	12500	H
W7B-A00-4M	100	1.15	126	85400	145	99200	87	88	86	85	85	83	940	12500	G

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WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **8"**

"W" Series

Specifications

Nominal Dia	**8"**
Maximum Outer Diameter	7.75" (197 mm)
Power Range	50 HP to 150 HP
Speed	3600 rpm
Version	Three Phase - 380 V, 400 V, 440 V & 460 V, 60 Hz, A.C Supply
Class of Insulation	Y
Degree of Protection	IP 68
Direction of Rotation	Electrically Reversible - Three Phase
Type of Duty	S1 (Continuous)
Down Thrust Load	50 HP to 60 HP - 10000 lbs
	75 HP to 150 HP - 12500 lbs
Minimum Cooling Flow Along the Motor	0.5 ft/sec
Maximum Liquid Temperature	Standard - 86°F, Hi-temp - 122°F Beyond 122°F motors can also be supplied by derating
Starts per Hour	4 Times
Shaft Type	Splined as per NEMA Standard
Mounting Standard	NEMA Standard
Method of Starting	Three Phase - 50 HP to 125 HP - Direct On Line (DOL)
	Three Phase - 50 HP to 125 HP - Star Delta (SD)
Cable Lead out	Permanently Connected and Sealed 3 Core EPDM Insulated Flat Cable
Thermal Protection	Optional - PT Sensor



* On request 400 V, 440V & 690V can be supplied.

Materials of Construction

Part Name	Type - B	Type - S	Type - T	Type - O
Shaft Seal Housing	Cast Iron	SS - 304 Casted	SS - 316 Casted	904 L
Shaft Seal / Mechanical Seal	Nitrile Rubber (NBR) / Ceramic - Carbon, SiC - SiC	Nitrile Rubber (NBR) / Ceramic - Carbon, SiC - SiC	Nitrile Rubber (NBR) / Ceramic - Carbon, SiC - SiC	Nitrile Rubber (NBR) / SiC - SiC
Upper & Lower Housings	Cast Iron	SS - 304 Casted	SiC - SiC	904 L
Stator Shell	SS - 304	SS - 304	SS - 316	NA
Thrust Pad	Carbon Graphite	Carbon Graphite	Carbon Graphite	Carbon Graphite
Thrust Bearing	SS - 420	SS - 420	SS - 420	SS - 420
Diaphragm	High Nitrile Rubber	High Nitrile Rubber	High Nitrile Rubber	High Nitrile Rubber
Motor Base	Cast Iron	SS - 304 Casted	SS - 316 casted	904 L
Shaft	EN-8	EN-8	EN-8	EN 8
Shaft Extension	17-4 ph	17-4 ph	17-4 ph	904 L
Sleeves	SS - 431	SS - 431	SS 431	SS 431

* S/T/O MOC types are supplied on request.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **8"**

"W" Series

380V & 460V, THREE PHASE

DIMENSIONS & WEIGHT DATA

Model		HP	Cable lead out size in (Sq.mm)				Height H1	Nett Weight Approx.	
			380V		460V				
DOL	SD		DOL	SD	DOL	SD	(mm)	(kg)	(lbs)
W8B-500-4	W8B-500-6	50	16	10	16	10	1181	153.3	338
W8B-600-4	W8B-600-6	60	16	10	16	10	1231	164.2	362
W8B-750-4	W8B-750-6	75	25	16	25	16	1281	179.1	395
W8B-850-4	W8B-850-6	85	25	16	35	16	1351	192.7	425
W8B-A00-4	W8B-A00-6	100	35	25	35	25	1466	214.5	473
W8B-A25-4	W8B-A25-6	125	35	35	35	25	1556	234	516
W8B-A50-4	W8B-A50-6	150	35	35	35	35	1656	256	565

380V, THREE PHASE

TECHNICAL & ELECTRICAL DATA

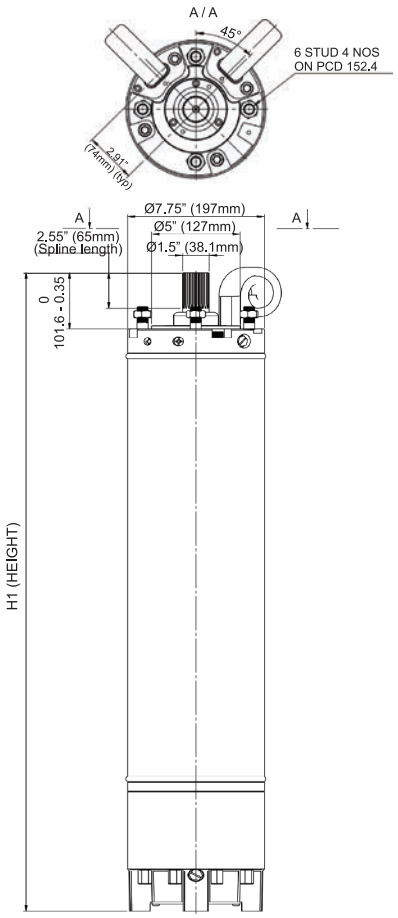
MODEL	HP	SF	RATED		MAX. S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Capacity (lbs)	KVA Code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
W8B-500-4I	50	1.15	84	43100	93	49300	86	86	85	80	79	74	500	10000	J
W8B-600-4I	60	1.15	98	51940	109	59900	87	87	86	83	82	76	590	10000	H
W8B-750-4I	75	1.15	116	63500	131	73300	86	86	85	85	83	78	710	12500	J
W8B-850-4I	85	1.15	135	73500	152	84900	87	87	84	85	83	79	820	12500	J
W8B-A00-4I	100	1.15	155	84850	175	97850	88	88	88	85	83	78	945	12500	J
W8B-A25-4I	125	1.15	198	107200	223	123000	86	86	86	84	82	76	1200	12500	J
W8B-A50-4I	150	1.15	230	124800	260	144500	87	87	86	86	85	82	1350	12500	J

460V, THREE PHASE

TECHNICAL & ELECTRICAL DATA

MODEL	HP	SF	RATED		MAX. S.F.		Efficiency %			Power Factor%			Locked Rotor Amps	Thrust Capacity (lbs)	KVA Code
			Amps	W	Amps	W	S.F	F.L.	3/4	S.F	F.L	3/4			
W8B-500-4M	50	1.15	66	43100	75	49800	86	86	85	83	82	80	450	10000	H
W8B-600-4M	60	1.15	78	52400	88.5	60200	88	87	86	85	85	83	530	10000	H
W8B-750-4M	75	1.15	96	64400	110	74200	86	85	84	85	84	82	720	12500	G
W8B-850-4M	85	1.15	106	72500	122	84000	87	87	85	86	85	83	790	12500	G
W8B-A00-4M	100	1.15	126	85400	145	99200	87	88	86	85	85	83	940	12500	H
W8B-A25-4M	125	1.15	155	105600	177	122800	88	88	86	87	86	84	1150	12500	G
W8B-A50-4M	150	1.15	197	124500	220	143500	88	88	86	85	84	82	1400	12500	H

The above mentioned electrical data are applicable for Star-Delta motors also.



All Dimensions are in Inches & mm
Splined Shaft : 23 teeth -
Module 1.5875 Pressure Angle 30°
A.N.S.I.B92-1 Tolerance Class 5

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **10"** **"W"** Series

Specifications

Nominal Dia	**10"**
Maximum Outer Diameter	9.13" (232 mm)
Power Range	150 HP to 250 HP
Speed	3600 rpm
Version	Three Phase - 380 V, 400 V, 440 V& 460 V, 60 Hz, A.C Supply
Class of Insulation	Y
Degree of Protection	IP 68
Direction of Rotation	Electrically Reversible - Three Phase
Type of Duty	S1 (Continuous)
Down Thrust Load	150 HP to 250 HP - 16860 lbs
Minimum Cooling Flow Along the Motor	0.5 ft/sec
Maximum Liquid Temperature	Standard - 86.0°F, Hi-temp - 122°F
	Beyond 122°F motors can also be supplied by derating
Starts per Hour	4 Times
Shaft Type	Splined as per NEMA Standard
Mounting Standard	NEMA Standard
Method of Starting	Three Phase - Direct On Line (DOL), Star Delta (SD)
Cable Lead out	Permanently Connected and Sealed 6 Core EPDM Insulated Flat Cable for SD & 2 +2 core individual cable for DOL
Thermal Protection	Optional - PT Sensor



Type - A/N **Type - B**

* On request motors 440V & 690V can be supplied.

Materials of Construction

Part Name	Type - B	Type - S	Type - T	Type - O
Shaft Seal Housing	Cast Iron	SS - 304 casted	SS - 316 casted	904 L
Shaft Seal / Mechanical Seal	Nitrile Rubber (NBR) / Ceramic - Carbon, SiC - SiC	Nitrile Rubber (NBR) / Ceramic - Carbon, SiC - SiC	Nitrile Rubber (NBR) / Ceramic - Carbon, SiC - SiC	Nitrile Rubber (NBR) / - SiC - SiC
Upper & Lower Housings	Cast Iron	SS 304 Casted	SS - 316 Casted	904 L
Stator Shell	SS - 304	SS 304	SS - 316	NA
Thrust Pad	Carbon Graphite	Carbon Graphite	Carbon Graphite	Carbon Graphite
Thrust Bearing	SS - 420	SS - 420	SS - 420	SS - 420
Diaphragm	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)
Motor Base	Cast Iron	SS 304 - casted	SS - 316 casted	904 L
Shaft	EN 8	EN 8	EN 8	EN 8
Shaft extension	17-4 ph	17-4 ph	17-7 ph	904 L
Sleeve	SS 431	SS 431	SS 431	SS 431

* S/T/O MOC types are supplied on request.

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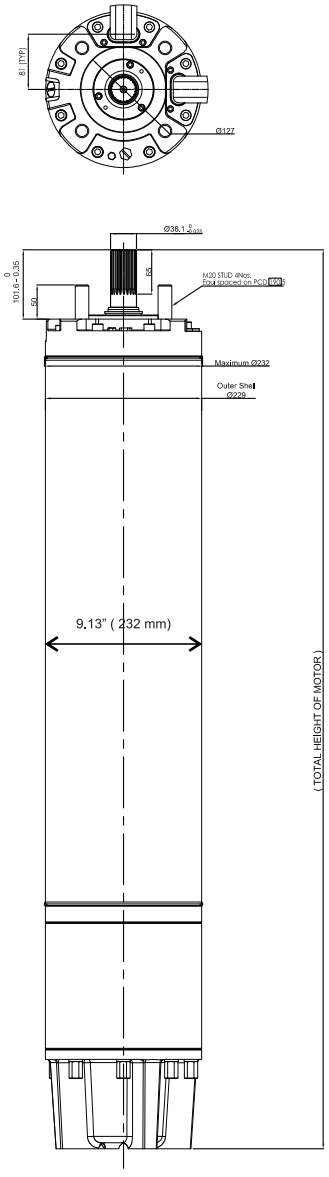
WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **10"**

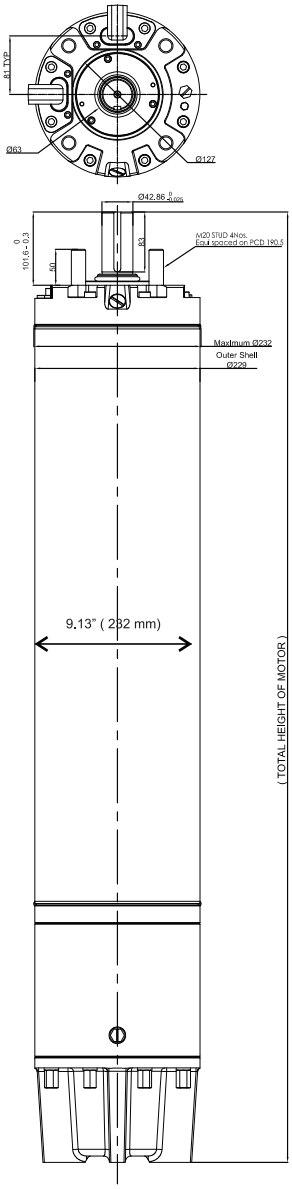
"W" Series

Technical Data

SPLINES TYPE



KEYWAY TYPE



In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **10"**

"W" Series

380V & 460V - THREE PHASE

DIMENSIONS & WEIGHT DATA

Motor Models	Motor Power	Lead Out Cable Size (Sq.mm)	Height H1	Nett Weight Approx.	
	HP	SD	(mm)	(kg)	(lbs)
W10B-A50-6	150	35	558	313.4	691
W10B-A75-6	175	35	598	341.1	752
W10B-B00-6	200	35	670	364.2	803
W10B-B25-6	225	35	718	408.2	900
W10B-B50-6	250	35	755	439.0	968

380V DOL & SD MOTORS - THREE PHASE

TECHNICAL & ELECTRICAL DATA

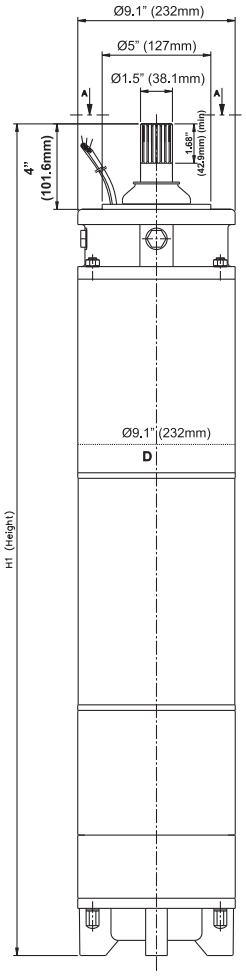
Model	Motor Power	Method of Starting	Full Load Current (A)	Starting Current (A)	Efficiency (%)	Power Factor	Max. Down Thrust Load (lbs)	KVA Code
	HP							
W10B-A50-6I	150	S / D	220	330	87	0.89	16860	E
W10B-A75-6I	175	S / D	255	383	87	0.89	16860	E
W10B-B00-6I	200	S / D	290	435	88	0.89	16860	E
W10B-B25-6I	225	S / D	325	488	88	0.89	16860	E
W10B-B50-6I	250	S / D	355	533	89	0.90	16860	E

460V DOL & SD MOTORS - THREE PHASE

TECHNICAL & ELECTRICAL DATA

Model	Motor Power	Method of Starting	Full Load Current (A)	Starting Current (A)	Efficiency (%)	Power Factor	Max. Down Thrust Load (lbs)	KVA Code
	HP							
W10A-A50-6M	150	S / D	190	787	87	0.89	16860	E
W10A-A75-6M	175	S / D	220	961	87	0.89	16860	E
W10A-B00-6M	200	S / D	250	1064	88	0.89	16860	E
W10A-B25-6M	225	S / D	281	1208	88	0.89	16860	E
W10A-B50-6M	250	S / D	300	1368	88	0.89	16860	E

 # METHOD OF STARTING : 4 - 3P / DOL / 60Hz 6 - 3P / SD / 60Hz



ALL DIMENSIONS ARE
IN Inches & mm.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **12"**

"W" Series

Specifications

Nominal Dia	**12"**
Maximum Outer Diameter	10.7"
Power Range	250 HP to 600 HP
Speed	3500 rpm
Version	Three Phase - 380 V, 400 V, 440 V & 460 V, 60 Hz, A.C Supply
Class of Insulation	Y
Degree of Protection	IP 68
Direction of Rotation	Electrically Reversible - Three Phase
Type of Duty	S1 (Continuous)
Down Thrust Load	250 HP to 600 HP - 13500 lbs
Minimum Cooling Flow Along the Motor	1.64 ft/sec (86°F), 2 ft/sec (122°F)
Maximum Liquid Temperature	Standard - 86.0°F, Hi-temp - 122°F
	Beyond 122°F motors can also be supplied by derating
Starts per Hour	4 Times
Shaft Type	Key Way
Mounting Standard	International Standard
Method of Starting	Three Phase - Star Delta (SD)
Cable Lead out	Permanently Connected and Sealed 3 Core Insulated Flat Cable
Thermal Protection	Optional - PT Sensor



Type - A/N **Type - B**

* On request motors 440V & 690V can be supplied.

Materials of Construction

Part Name	Type - A	Type - N	Type - B
Seal Housing	SS - 304	SS - 316	Cast Iron
Mechanical Seal	Carbon / Ceramic SiC - SiC*	SiC - SiC	Carbon / Ceramic SiC - SiC*
Upper & Lower Housings	SS - 304	SS - 316	Cast Iron
Stator Shell	SS - 304	SS - 316	SS - 304
Thrust Pad	SS / Carbon	SS / Carbon	SS / Carbon
Thrust Bearing	SS / Carbon	SS / Carbon	SS / Carbon
Diaphragm	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)
Motor Base	SS - 304	SS - 316	Cast Iron
Shaft	SS - 304	Duplex Steel	SS - 304

* Optional.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

WATER FILLED REWINDABLE SUBMERSIBLE MOTORS

Nominal Diameter : **12"**

"W" Series

380V & 460V - THREE PHASE

DIMENSIONS & WEIGHT DATA

Model	Motor Power	Lead Out Cable Size (Sq.mm)		Height H1	Nett Weight Approx.	
	HP	380V	460V	(mm)	(Kg)	(lbs)
W12A-B50-4	250	95	70	1735	413	910
W12A-C00-4	300	70	95	1805	461.3	1017
W12A-C50-4	350	70	120	1890	497.1	1096
W12A-D00-4	400	95	70	1965	526.1	1160
W12A-D50-4	450	95	95	2057	566	1248
W12A-E00-4	500	120	95	2112	585.1	1290
W12A-E50-4	550	150	120	2175	611	1347
W12A-F00-4	600	150	120	2235	636.8	1404

380 V - THREE PHASE

TECHNICAL & ELECTRICAL DATA

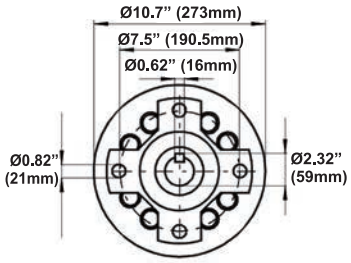
Model	Motor Power	Method of Starting	Full Load Max (A)	Starting Current (A)	Full load		Max. Down Thrust Load (lbs)	No. of Leadouts
	HP				Eff.%	Power Factor		
W12A-B50-4I	250	SD	380	1938	87	85	13500	3
W12A-C00-6I	300	SD	465	2279	87	85	13500	6
W12A-C50-6I	350	SD	535	2568	87	85	13500	6
W12A-D00-6I	400	SD	625	3125	86	85	13500	6
W12A-D50-6I	450	SD	690	3312	86	85	13500	6
W12A-E00-6I	500	SD	780	3900	86	85	13500	6
W12A-E50-6I	550	SD	855	4446	85	84	13500	6
W12A-F00-6I	600	SD	960	5088	85	84	13500	6

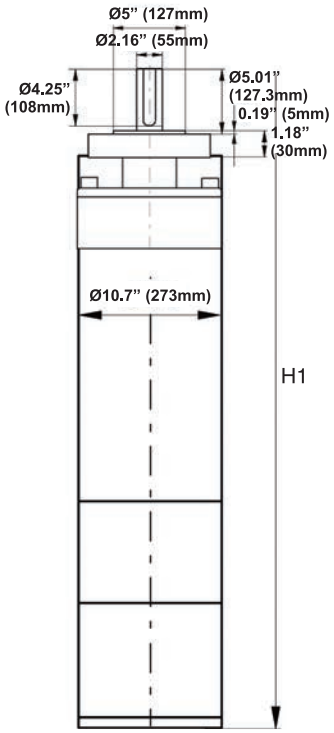
460 V - THREE PHASE

TECHNICAL & ELECTRICAL DATA

Model	Motor Power	Method of Starting	Full Load Max (A)	Starting Current (A)	Full load		Max. Down Thrust Load (lbs)	No. of Leadouts
	HP				Eff.%	Power Factor		
W12A-B50-4M	250	SD	314	1601	87	85	13500	3
W12A-C00-4M	300	SD	384	1882	87	85	13500	3
W12A-C50-4M	350	SD	442	2122	87	85	13500	3
W12A-D00-6M	400	SD	516	2580	86	85	13500	6
W12A-D50-6M	450	SD	570	2736	86	85	13500	6
W12A-E00-6M	500	SD	644	3220	86	85	13500	6
W12A-E50-6M	550	SD	706	3671	85	84	13500	6
W12A-F00-6M	600	SD	793	4203	85	84	13500	6

 # METHOD OF STARTING : 4 - 3P / DOL / 60Hz 6 - 3P / SD / 60Hz





ALL DIMENSIONS ARE IN Inches & mm.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

CABLE SELECTION TABLE

	1Ph, 2/3 WIRE MOTORS, MAXIMUM LENGTH OF COPPER CABLE IN FEET														
	Motor Rating	CABLE SIZE IN AMERICAN WIRE GAGE													
VOLT	HP		14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
110V	0.5	Calculate Cable Length (FEET)	95	151	239	381	604	963	1213	1529	1928	2429	3065	3865	4873
	0.75		75	119	190	302	479	764	962	1213	1529	1926	2431	3065	3865
	1		68	108	172	274	434	692	872	1099	1386	1746	2203	2778	3503
	1.5		54	87	138	219	347	554	697	879	1108	1397	1762	2222	2802
230V	0.5		345	550	1390	2203	3515	4427	5584	7038	8868				
	0.75		262	417	1055	1672	2668	3360	4238	5342	6731	8493			
	1		203	324	819	1297	2069	2607	3288	4144	5221	6588			
	1.5		177	282	712	1129	1800	2268	2860	3605	4542	5731			
	2		165	262	664	1052	1677	2113	2665	3359	4232	5340			
	3		122	195	492	780	1244	1567	1976	2491	3139	3960			
	5				313	496	791	996	1256	1583	1995	2518			

	THREE PHASE 3 WIRE (D.O.L.) MOTOR MAXIMUM LENGTH OF COPPER CABLE - SINGLE CABLE PER PHASE														
	Motor Rating	CABLE SIZE IN AMERICAN WIRE GAUGE													
VOLT	HP		14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
230V	0.5	Calculate Cable Length (FEET)	842	1341	2130	3391	5373								
	0.8		607	967	1535	2445	3874	6179							
	1.0		475	756	1200	1911	3029	4831	6085						
	1.5		358	569	904	1440	2282	3640	4585	5782					
	2.0		272	433	688	1095	1735	2768	3486	4397	5542				
	3.0		218	346	550	876	1388	2214	2789	3518	4434	5587	7049		
	4.0		155	247	393	626	992	1582	1992	2513	3167	3991	5035		
	5.0		112	178	282	449	712	1135	1430	1804	2274	2865	3615	4559	5748
	6.0		95	151	239	381	604	963	1213	1529	1928	2429	3065	3865	4873
	7.5			126	200	319	505	805	1014	1279	1612	2032	2563	3233	4076
	10.0			99	157	250	397	633	797	1005	1267	1596	2014	2540	3202
	12.5				134	214	339	540	680	858	1081	1363	1719	2168	2734
	15.0				112	179	283	452	569	718	905	1140	1439	1814	2287
	17.5				97	154	244	388	489	617	778	980	1237	1560	1966
	20.0					136	216	344	433	546	688	868	1095	1380	1740
	25.0					112	178	283	357	450	567	714	901	1137	1433
	30.0						151	241	303	382	482	607	766	966	1218
	35.0						108	172	217	274	345	435	549	692	873
	40.0							147	185	233	293	370	466	588	742
	50.0							130	164	206	260	328	414	522	658

	THREE PHASE 3 WIRE (S.D) MOTOR MAXIMUM LENGTH OF COPPER CABLE														
	Motor Rating	CABLE SIZE IN AMERICAN WIRE GAUGE													
VOLT	HP		14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
230V	0.5	Calculate Cable Length (FEET)	1769	2816	4472	7121	11284								
	0.8		1275	2030	3224	5134	8135	12976							
	1.0		997	1587	2521	4014	6360	10145	12779						
	1.5		751	1196	1899	3024	4792	7643	9628	12143					
	2.0		571	909	1444	2299	3644	5812	7321	9234	11639				
	3.0		457	727	1155	1840	2915	4650	5857	7387	9311	11732	14803		
	4.0		326	520	825	1314	2082	3321	4184	5276	6651	8380	10574		
	5.0		234	373	592	943	1495	2384	3004	3788	4775	6017	7591	9573	12071
	6.0		199	316	502	800	1267	2022	2547	3212	4048	5101	6436	8116	10234
	7.5			264	420	669	1060	1691	2130	2686	3386	4266	5383	6788	8559
	10.0			208	330	526	833	1329	1673	2111	2660	3352	4229	5334	6725
	12.5				282	449	711	1134	1429	1802	2271	2862	3610	4553	5741
	15.0				236	375	595	949	1195	1508	1900	2394	3021	3810	4804
	17.5				203	323	511	816	1028	1296	1633	2058	2597	3275	4129
	20.0					286	453	722	909	1147	1446	1822	2299	2899	3655
	25.0					235	373	595	749	945	1191	1500	1893	2387	3010
	30.0						317	505	637	803	1012	1275	1609	2029	2558
	35.0						227	362	456	575	725	914	1153	1454	1833
	40.0							308	388	489	616	776	979	1235	1557
	50.0							273	344	433	546	688	868	1095	1381

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CABLE SELECTION TABLE

	THREE PHASE 3 WIRE (D.O.L.) MOTOR MAXIMUM LENGTH OF COPPER CABLE - SINGLE CABLE PER PHASE																			
	Motor Rating	CABLE SIZE IN AMERICAN WIRE GAGE														MCM Copper wire size				
VOLT	HP		14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500
380V	0.5	Calculate Cable Length (FEET)	2374	3779	6002	9556	15143													
	0.8		1879	2991	4751	7565	11988													
	1.0		1253	1994	3168	5044	7992													
	1.5		940	1496	2376	3783	5994													
	2.0		778	1238	1966	3131	4961													
	3.0		626	997	1584	2522	3996													
	4.0		475	756	1200	1911	3029													
	5.0			544	864	1376	2180													
	6.0			460	731	1164	1844	2942												
	7.5			374	594	946	1499	2390												
	10.0			288	457	727	1153	1839												
	12.5			239	380	605	959	1530												
	15.0				322	513	813	1296	1633											
	17.5				291	463	733	1170	1587											
	20.0					362	573	954	1301	1894										
	25.0					321	509	812	983	1240	1563									
	30.0						426	680	922	1163	1466	1848								
	35.0							603	818	1031	1300	1638								
	40.0							503	634	799	887	1117	1410	1778						
	50.0							403	507	640	806	894	1128	1293	1630					
	60.0								477	602	618	779	983	1183	1421					
	75.0									558	552	696	798	1007	1270					
	85.0									516	511	643	738	931	1173					
	100.0										438	551	696	877	974	886				
	125.0											442	558	704	887	807	1145			
	150.0												534	673	849	748	1061			
	175.0														660	661	937	994		
	200.0															500	709	745		
	225.0																647	754	798	1078
	250.0																492	574	607	820
	300.0																	552	584	788
	350.0																		507	685
	400.0																		434	586

	THREE PHASE 3 WIRE (S.D) MOTOR MAXIMUM LENGTH OF COPPER CABLE																			
	Motor Rating	CABLE SIZE IN AMERICAN WIRE GAGE														MCM Copper wire size				
VOLT	HP		14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500
380V	0.5	Calculate Cable Length (FEET)	4985	7935	12604	20068	31800													
	0.8		3946	6282	9978	15887	25175													
	1.0		2631	4188	6652	10592	16784													
	1.5		1973	3141	4989	7944	12588													
	2.0		1633	2599	4129	6574	10417													
	3.0		1315	2094	3326	5296	8392													
	4.0		997	1587	2521	4014	6360													
	5.0			1142	1814	2889	4577													
	6.0			966	1535	2444	3873	6178												
	7.5			785	1247	1986	3147	5020												
	10.0			604	959	1528	2421	3861												
	12.5			503	798	1271	2014	3213												
	15.0				676	1077	1707	2723	3429											
	17.5				610	972	1540	2457	3333											
	20.0					759	1203	2003	2733	3977										
	25.0					674	1069	1705	2065	2604	3282									
	30.0						895	1428	1937	2443	3079	3880								
	35.0							1266	1717	2165	2729	3439								
	40.0							1057	1331	1679	1862	2346	2961	3734						
	50.0							845	1065	1343	1693	1877	2368	2715	3424					
	60.0								1002	1264	1298	1636	2064	2485	2984					
	75.0									1171	1160	1462	1677	2114	2666					
	85.0									1083	1072	1351	1550	1954	2464					
	100.0										919	1158	1461	1843	2044	1860				
	125.0											929	1172	1478	1863	1695	2405			
	150.0												1121	1414	1783	1570	2228			
	175.0														1387	1388	1969	2088		
	200.0															1050	1489	1564		
	225.0																1358	1584	1677	2264
	250.0																1033	1205	1275	1722
	300.0																	1158	1226	1655
	350.0																		1066	1439
	400.0																		912	1231

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CABLE SELECTION TABLE

	3Ph, 460V, 3 WIRE (DOL) MOTORS, MAXIMUM LENGTH OF COPPER CABLE IN FEET																			
	Motor Rating	CABLE SIZE IN AMERICAN WIRE GAGE													MCM Copper wire size				
VOLT	HP		14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500
460V	0.5	Calculate Cable Length (FEET)	3770	6020	9460															
	0.75		2730	4350	6850															
	1		2300	3670	5770	9070														
	1.5		1700	3710	4270	6730														
	2		1300	2070	3270	5150	8050													
	3		1000	1600	2520	3970	6200													
	4		748	1190	1891	3011	4771													
	5		590	950	1500	2360	3700	5750												
	5.5		557	887	1409	2243	3554	5669												
	6		510	812	1290	2054	3255	4933												
	7.5		420	680	1070	1690	2640	4100	5100	6260	7180									
	10		310	500	790	1250	1960	3050	3800	4680	5750	7050								
	12.5			410	651	1036	1642	2619	3299	4086	4963	6136	7593							
	15			340	540	850	1340	2090	2600	3200	3930	4810	5900	7110						
	20				410	650	1030	1610	2000	2470	3040	3730	4580	5530						
	25					530	830	1300	1620	1990	2450	3010	3700	4470	5430					
	30					430	680	1070	1330	1640	2030	2490	3060	3700	4500	5128	5850			
	35						580	926	1145	1418	1753	2124	2680	3177	3835	4264	4960			
	40						500	790	980	1210	1490	1830	2250	2710	3192	3720	4242			
	50							640	800	980	1210	1480	1810	2190	2650	2998	3409	3830	4171	4842
	60							540	670	830	1020	1250	1540	1850	2240	2532	2881	3230	3529	4188
	75									680	840	1030	1260	1520	1850	2088	2390	2688	2940	3428
	85										745	919	1136	1371	1652	1884	2127	2291	2491	2909
	100										620	760	940	1130	1380	1550	1782	2000	2182	2540
	110												696	877	1048	1107	1364	1447	1531	1860
	125												740	890	1000	1209	1381	1549	1691	1949
	150													760	920	1040	1182	1330	1452	1680
	175														810	921	1052	1181	1292	1501
	200															802	910	1018	1122	1300
	225																764	886	984	1132
	250																	755	886	984
	300																	623	755	837
	350																	492	623	689
	400																	361	492	525
	450																	327	346	467
	500																	289	306	413
	550																	264	279	377
	600																	235	249	336

	3Ph, 460V, 3 WIRE (DOL) MOTORS, MAXIMUM LENGTH OF COPPER CABLE IN FEET																			
	Motor Rating	CABLE SIZE IN AMERICAN WIRE GAGE													MCM Copper wire size				
VOLT	HP		14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500
460V	0.5	Calculate Cable Length (FEET)	880	1420	2250	3450	5550	8620												
	0.75		743	1182	1878	2990	4739	7559												
	1		681	1083	1720	2739	4340	6923												
	1.5		630	1020	1600	2530	3960	6150	7650	9390										
	2		460	750	1180	1870	2940	4570	5700	7020	8620									
	3		368	585	930	1480	2345	3741	4713	5943	7491									
	4		310	510	810	1270	2010	3130	3900	4800	5800	7210	8850							
	5		230	380	610	970	1540	2410	3000	3700	4560	5590	6870	8290						
	5.5		190	310	490	790	1240	1950	2430	2980	3670	4510	5550	6700						
	6			250	410	640	1020	1600	1990	2460	3040	3730	4590	5550						
	7.5				335	533	844	1347	1697	2140	2697	3398	4288	5002						
	10				300	480	750	1180	1470	1810	2230	2740	3370	4080						
	12.5					370	590	960	1200	1470	1810	2220	2710	3280						
	15					320	500	810	1000	1240	1530	1870	2310	2770						
	20						420	660	810	1020	1260	1540	1890	2280						
	25							577	727	916	1155	1341	1691	2133	8140					
	30							500	610	760	930	1140	1410	1690	6750	7690	8730			
	35								507	640	806	1016	1282	1478	5965	6822	7259			
	40								470	590	730	880	1110	1330	4930	5590	6370			
	50									510	630	770	950	1140	3970	4510	5130	5740	6270	7270
	60										550	680	830	1000	3360	3810	4330	4860	5310	6510
	75											590	730	880	2770	3150	3600	4050	4420	5160
	85												623	755	2459	2691	3272	3563	3771	4909
	100													591	2070	2340	2680	3010	3280	3820
	110														1863	2039	2480	2893	3061	3307
	125														1500	1830	2080	2340	2550	2940
	150														1380	1570	1790	2000	2180	2530
	175														1220	1390	1580	1780	1950	2270
	200														1070	1210	1380	1550	1690	1970
	225														919	1050	1247	1411	1558	1837
	250														820	951	1116	1280	1427	1706
	300														722	853	984	1116	1296	1575
	350														623	722	853	951	1148	1444
	400															623	722	787	1017	1312
	450															411	584	681	721	973
	500															364	517	603	638	861
	550															332	471	550	582	785
	600															296	420	489	518	699

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PIPE FRICTION LOSS TABLE

Grade	Light	Medium	Heavy
Nominal Dia in Inches	Rate of Flow in gpm	Rate of Flow in gpm	Rate of Flow in gpm
1½	30 - 43	28 - 42	25 - 38
2	44 - 83	43 - 79	39 - 72
2½	84 -158	80 - 156	73 - 146
3	159 - 247	157 - 238	147 - 226
4	248 - 490	239 - 476	227 - 455
5	-	477 - 834	456 - 816
6	-	835 - 1337	817 - 1312

Note : Permissible Range of Volume Rate of Flow in GPM through **Galvanized Steel** Pipe to limit Friction losses to 10% of the Pipe Length

Grade	Class (36.25 psi)	Class (58 psi)	Class (87 psi)
Nominal Dia in Inches	Rate of Flow in gpm	Rate of Flow in gpm	Rate of Flow in gpm
1½	-	-	Up to 32
2	-	-	33 - 59
2½	-	60 - 115	60 - 108
3	-	116 - 182	109 - 171
3½	183 - 311	183 - 294	172 - 276
4	312 - 528	295 - 504	277 - 472
5	529 - 740	505 - 704	473 - 658
5½	741 - 999	705 - 946	659 - 889
6½	1000 - 1418	947 - 1349	892 - 1267

Note : Permissible Range of Volume Rate of Flow in GPM through **RPVC** Pipe to limit Friction losses to 10% of the Pipe Length

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CONVERSION TABLE

FLOW RATE

US-gpm	lps	lpm	m^3/h	ft^3/h	ft^3/min	imp - gpm	US - barrel / day
1	0.063	3.785	0.2271	8.0209	0.1337	0.833	34.286
15.850	1	60	3.6	127.133	2.1189	13.2	543.439
0.264	0.017	1	0.06	2.1189	0.0353	0.22	9.057
4.403	0.278	16.667	1	35.3147	0.5886	3.666	150.955
0.125	0.008	0.472	0.0283	1	0.0167	0.104	4.275
7.48	0.472	28.317	1.6990	60	1	6.229	256.475
1.201	0.076	4.546	0.2728	9.6326	0.1605	1	41.175
0.029	0.002	0.110	0.0066	0.2339	0.0039	0.024	1

LIQUID

US-gallon	m^3	liter (l)	milliliter (ml)	Imp. gallon	ft^3
1	0.00378	3.785	3785	0.8327	0.1337
264.2	1	1000	$1X10^6$	220	35.3147
0.2642	0.001	1	1000	0.22	0.0353
$2.642X10^{-4}$	$1X10^{-6}$	0.001	1	$2.2X10^{-4}$	$3.53X10^{-5}$
1.201	0.00455	4.546	4546	1	0.1605
7.4805	0.0283	28.317	28.317	6.2288	1

LIQUID HEAD AND PRESSURE

Psi	N/m^2 (Pa)	kPa	bar	Kgf/cm^2	Foot for water ft H_2O	Meter of water m H_2O	Millimeter of Mercury mm Hg	Inch of Mercury in Hg
1	6895	6.895	0.069	0.0703	2.31	0.703	51.72	2.036
$1.45X10^{-4}$	1	0.001	$1X10^{-5}$	$1.02X10^{-5}$	$3.35X10^{-4}$	$1.02X10^{-4}$	0.0075	$2.95X10^{-4}$
0.145	1000	1	0.01	0.0102	0.335	0.102	7.5	0.295
0.145	$1X10^5$	100	1	1.02	33.52	10.2	750.1	29.53
14.22	98.067	98.070	0.981	1	32.81	10	735.6	28.96
0.433	2984	2.984	0.030	0.0305	1	0.305	22.42	0.882
1.42	9789	9.789	0.098	0.1	3.28	1	73.42	2.891
0.019	133.3	0.133	0.0013	0.0014	0.045	0.014	1	0.039
0.491	3386	3.386	0.0338	0.0345	1.133	0.0345	25.4	1

LENGTH

Inch (in)	Millimeter (mm)	Centimeter (cm)	Meter (m)	Foot (ft)	Yard (yd)
1	25.4	2.54	0.0254	0.0833	0.0278
0.0394	1	0.10	0.001	0.0033	0.0011
0.3937	10	1	0.01	0.0328	0.0109
39.3701	1000	100	1	3.2808	1.0936
12	304.8	30.48	0.3048	1	0.3333
36	914.4	91.44	0.9144	3	1

1 kilometer = 1000 metre = 0.62137 mile; 1 mile = 1609.34 metre = 1.60934 kilometre

MASS

Pound (lb)	Kilogram (kg)	Hundred Weight (cwt)	Tonne (t)	Ton long (tn)	short Ton (sh tn)
1	0.454	0.0089	$4.54x10^{-4}$	$4.46x10^{-4}$	$5.0x10^{-4}$
2.205	1	0.0197	0.001	$9.84x10^{-4}$	0.0011
112	50.802	1	0.0508	0.05	0.056
2204.6	1000	19.684	1	0.9842	1.1023
2240	1016	20	1.0161	1	1.1020
2000	907.2	17.857	0.9072	0.8929	1

TEMPERATURE

To Convert From	To	Use Formula
Celsius, tC	Kelvin, tK	tK = tC + 273.15
Fahrenheit, tF	Kelvin, tK	tK = (tF + 459.67) / 1.8
Celsius, tC	Fahrenheit, tF	tF = 1.8 tC + 32
Fahrenheit, tF	Celsius, tC	tC = (tF - 32) / 1.8
Kelvin, tK	Celsius, tC	tC = tK - 273.15
Kelvin, tK	Fahrenheit, tF	tF = 1.8 tK - 459.67

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W I N N I N G W A Y S

When you have a good thing going it is quite in the fitting of things that recognitions come our way. Several prestigious awards, which decorate our shelf, say it all. These rewards not only acknowledge our position as a leader in the water pump industry but also serve as reminders about what the customer expects from a winner. And we, as ever, have our ears perfectly tuned to customer expectations.



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