





THEBEGINNING

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.

THEINFRASTRUCTURE

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".





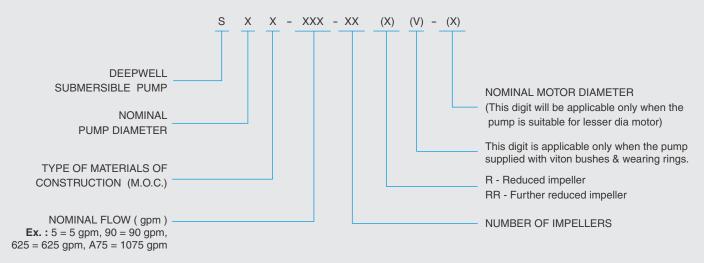
Vision, Mission and Values

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.

STAINLESS STEEL SERIES MODEL IDENTIFICATION CODE

DEEPWELL SUBMERSIBLE PUMP



DEEPWELL SUBMERSIBLE PUMP SET (Pump + Motor)

PUMP MODEL + MOTOR MODEL

S X X - XXX - XX + X X X - XXX X

DEEPWELL SUBMERSIBLE PUMP SET (Pump + Motor)

PUMP MODEL + MOTOR MODEL

S6S - 90 / 03 + W6A - 30 T

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 S E R I E S



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.

- 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

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

Pumped Liquids

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

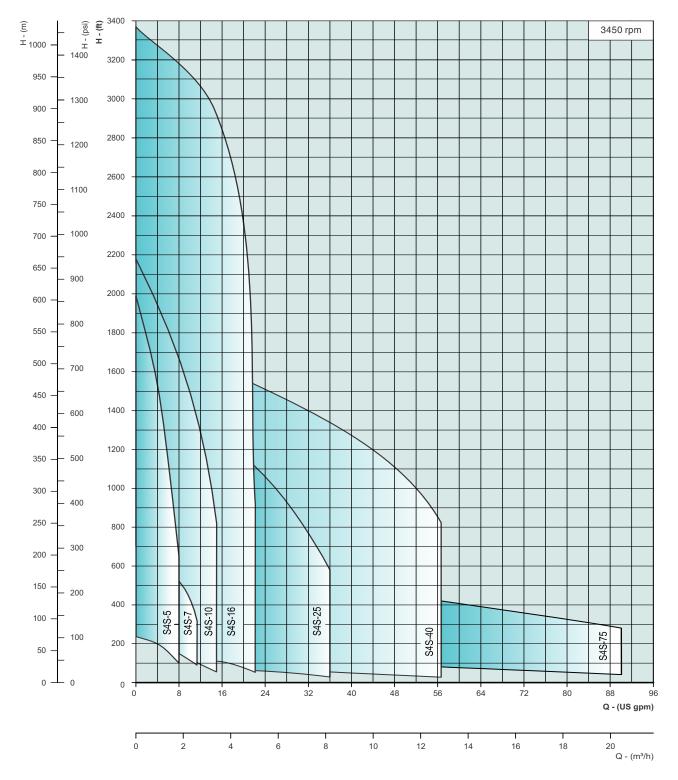
a)	Max. Temperature	NBR - 91.4°F (33°C) / VITON - 194°F (90°C)
b)	Permissible amount of sand	0.42 lb / 1000 gal (max)
c)	Chlorine ion density	500 ppm (max)
d)	Allowable solids	3000 ppm (max)
e)	Specific gravity	1.004 (max)
f)	Hardness (Drinking water)	300 ppm (max)
g)	Viscosity	1.75 x 10 ⁻⁶ m ² /sec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

		PUMP OPERAT	ING LIMITATIO	NS	
NOMINAL DIA	AMETER	4"(100mm)	6"(150mm)	8"(200mm)	10"(250mm)
POWER R	POWER RANGE		1½ - 85/100HP	7½ - 125HP	15 - 300HP
SPEE	D	3450 rpm	3450 rpm	3450 rpm	3450 rpm
DISCHARGE	US gpm	1.5 - 90	21 - 400	150 - 635	200 - 1465
RANGE	m³/h	0.3 - 20	5 - 91	34 - 144	46 - 332
TOTAL HEAD	ft	20 - 3366	10 - 2110	20 - 1400	25 - 1280
RANGE	m	6 - 1026	3 - 643	6 - 427	8 - 390
OUTLET SIZE	OUTLET SIZE IN INCHES		2,3 & 4	5	6
SHAFT COUPLING		Splines	Splines	Splines	Keyway / Splines

Maximum temperature of pumped liquid

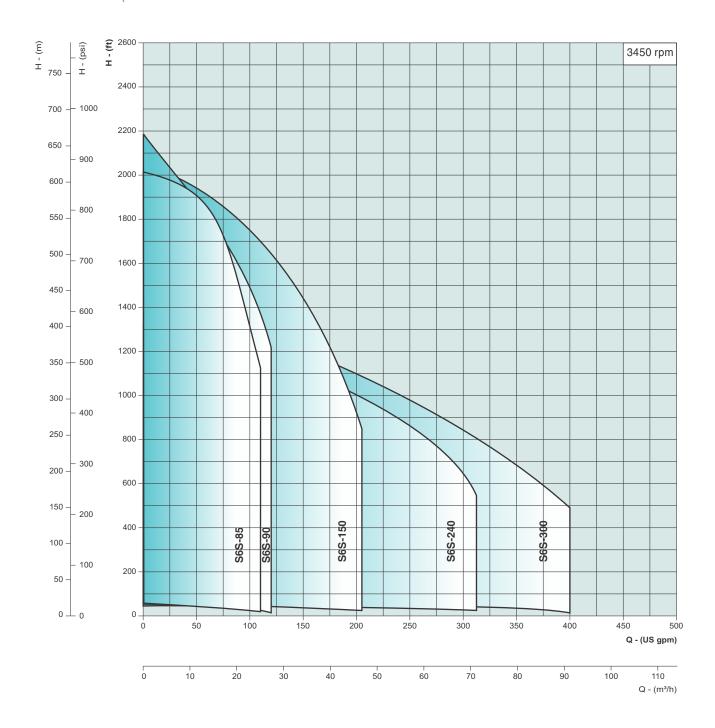
Motor	Minimum cooling flow along the motor	Vertical installation	Horizontal installation minimum 30°angle
4"	0.25 ft/s	91.4°F(33 °C)	91.4°F(33 °C)
6" & 8"	0.5 ft/s	91.4°F(33 °C)	91.4°F(33 °C)
10"	0.5 ft/s	91.4°F(33 °C)	91.4°F(33 °C)

Group Performance Curves - 4"



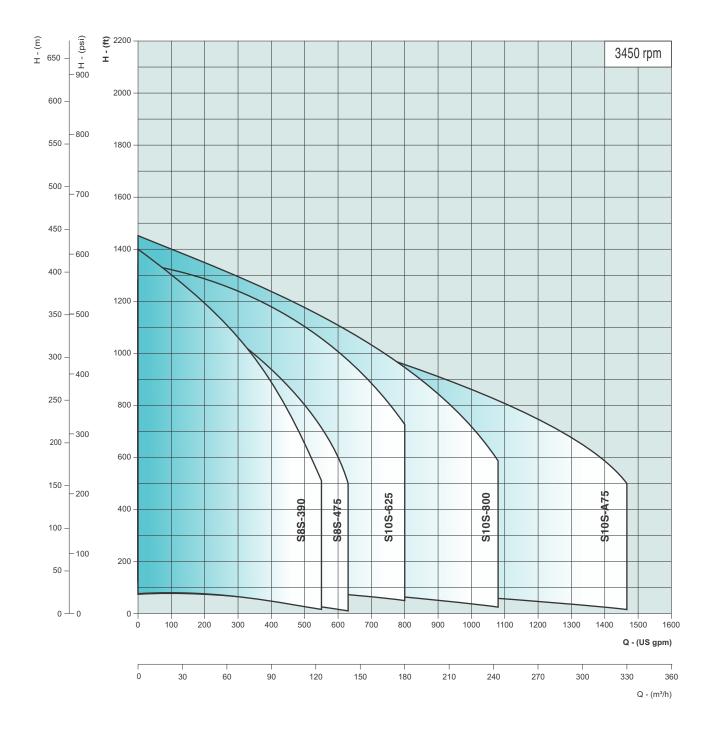
Refer general information for performance curve conditions and for other details.

Group Performance Curves - 6"



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

Group Performance Curves - 8" & 10"



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

Materials of Construction

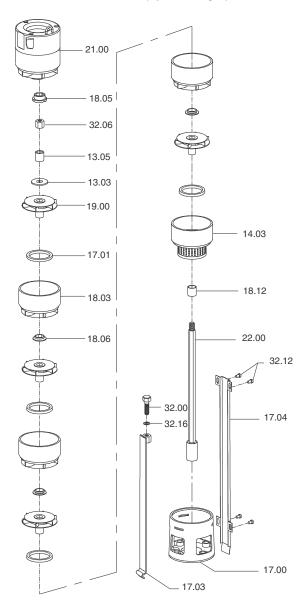
PART NAME	PART	NOMINAL DIA. 4"		NOMINAL DIA	. 6", 8" & 10"
TAIT NAME	No.	TYPE - S	TYPE - N	TYPE - S	TYPE – N
CHECK VALVE HOUSING	21.00	S.S - 304	S.S 316	S.S 304	S.S 316
CHECK VALVE DISC	21.06	S.S - 304	S.S 316	S.S 304	S.S 316
CHECK VALVE SEAT	21.01	NBR / VITON	NBR / VITON	NBR / VITON	NBR / VITON
DIFFUSER 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

Note: VITON Components are optional

<sup>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.</sup>

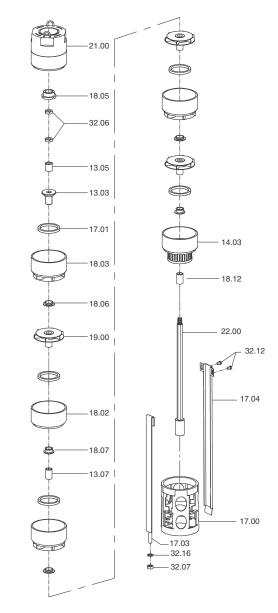
Exploded View

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



Part No.	Part Name	Part No.	Part Name
13.03	Upthrust Washer	18.06	Bush - Diffuser Chamber
13.05	Sleeve	18.12	Spacer Sleeve
14.03	Chamber-Inlet Screen	19.00	Impeller
17.00	Suction Inter-connector	21.00	Check Valve Housing
17.01	Wearing ring	22.00	Pump Shaft
17.03	Locking Straps	32.00	Bolt
17.04	Cable Guard	32.06	Lock Nut
18.03	Diffuser Chamber	32.12	Screw
18.05	Bush - CT Pad	32.16	Washer

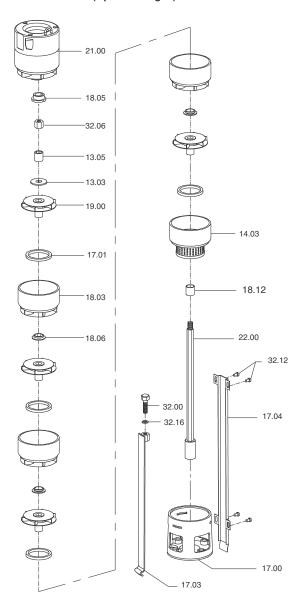
S4S-5 / S4S-10 / S4S-16 (30 & above Stages)



Part No.	Part Name	Part No.	Part Name
13.03 13.07	Upthrust Sleeve Sleeve - Bracket	18.06	Bush - Diffuser Chamber
13.07	Sleeve - Bracket	18.07	Bush - Bracket
		18.12	Spacer Sleeve
14.03	Chamber-Inlet Screen	19.00	Impeller
17.00	Suction Inter-connector	21.00	Check Valve Housing
17.01	Wearing ring	22.00	Pump Shaft
17.03	Locking Straps		Lock Nut
17.04	Cable Guard	32.06	
18.02	Chamber - Bracket	32.07	Nut
18.03	Diffuser Chamber	32.12	Screw
18.05	Bush - CT Pad	32.16	Washer

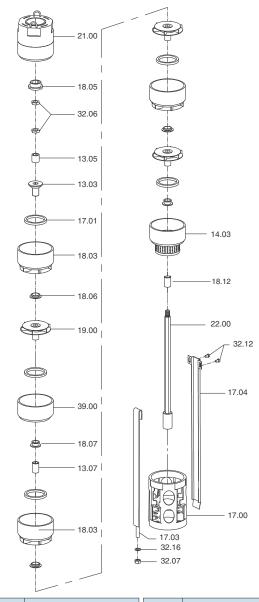
Exploded View

S4S-25 (Upto 25 Stages)



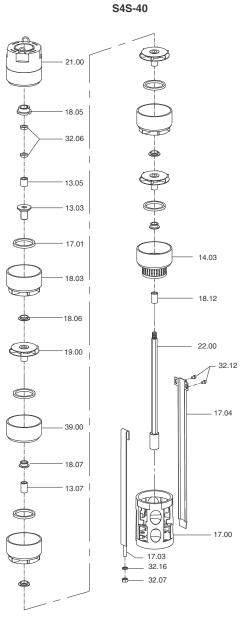
Part No.	Part Name	Part No.	Part Name
13.03	Upthrust Washer	18.06	Bush - Diffuser Chamber
13.05	Sleeve	18.12	Spacer Sleeve
14.03	Chamber-Inlet Screen	19.00	Impeller
17.00	Suction Inter-connector	21.00	Check Valve Housing
17.01	Wearing ring	22.00	Pump Shaft
17.03	Locking Straps	32.00	Bolt
17.04	Cable Guard	32.06	Lock Nut
18.03	Diffuser Chamber	32.12	Screw
18.05	Bush - CT Pad	32.16	Washer

S4S-25 (26 & Above Stages)



Part No.	Part Name	Part No.	Part Name
13.05 13.03 13.07 14.03 17.00 17.01 17.03 17.04 18.03 18.05 18.06	Sleeve Upthrust Sleeve Sleeve-Bracket Chamber-Inlet Screen Suction Inter-connector Wear ring Locking Straps Cable Guard Diffuser Chamber Bush - CT Pad Bush - Diffuser Chamber	18.07 18.12 19.00 21.00 22.00 32.06 32.07 32.12 32.16 39.00	Bush - Bracket Spacer Sleeve Impeller Check Valve Housing Pump Shaft Lock Nut Nut Screw Washer Chamber - Bracket

Exploded View

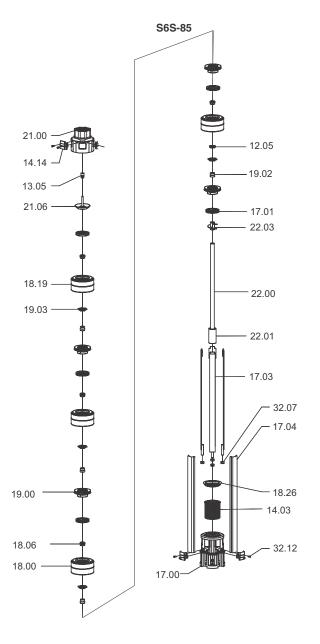


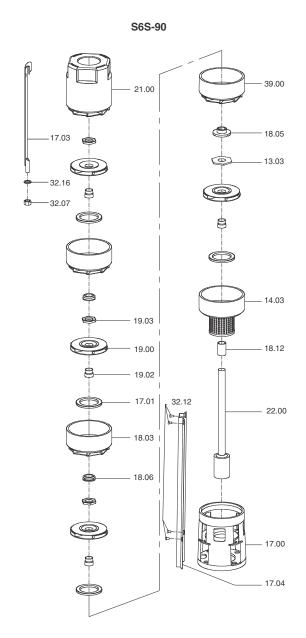
Part No.	Part Name	Part No.	Part Name
13.03 13.05 13.07 14.03 17.00 17.01 17.03 17.04 18.03 18.05	Upthrust Sleeve Sleeve Sleeve-Bracket Chamber-Inlet Screen Suction Inter-connector Wear ring Locking Straps Cable Guard Diffuser Chamber Bush - CT Pad	18.07 18.12 19.00 21.00 22.00 39.00 32.06 32.07 32.12	Bush - Bracket Spacer Sleeve Impeller Check Valve Housing Pump Shaft Chamber - Bracket Lock Nut Nut Screw
18.06	Bush - Diffuser Chamber	32.16	Washer

S4S-75	5
21.00	
21.06	(
21.01	13.05
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19.03	13.03
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	⊕ — 32.07
\$	17.00
	17.04
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Part No.	Part Name	Part No.	Part Name
13.03	Upthrust Sleeve	19.02	Split Cone
13.05	Sleeve	19.03	Split Cone Nut
17.00	Suction Inter-connector	21.00	Check Valve Housing
17.01	Wear ring	21.01	Check Valve Seat
17.03	Locking Straps	21.06	Check Valve Disc
17.04	Cable Guard	22.00	Pump Shaft
18.03 18.05	Diffuser Chamber Bush - CT Pad	32.05	Kev
18.06	Bush - Diffuser Chamber	32.07	Nut
18.12	Spacer Sleeve	32.12	Screw
19.00	Impeller	32.16	Washer
		1	

Exploded View



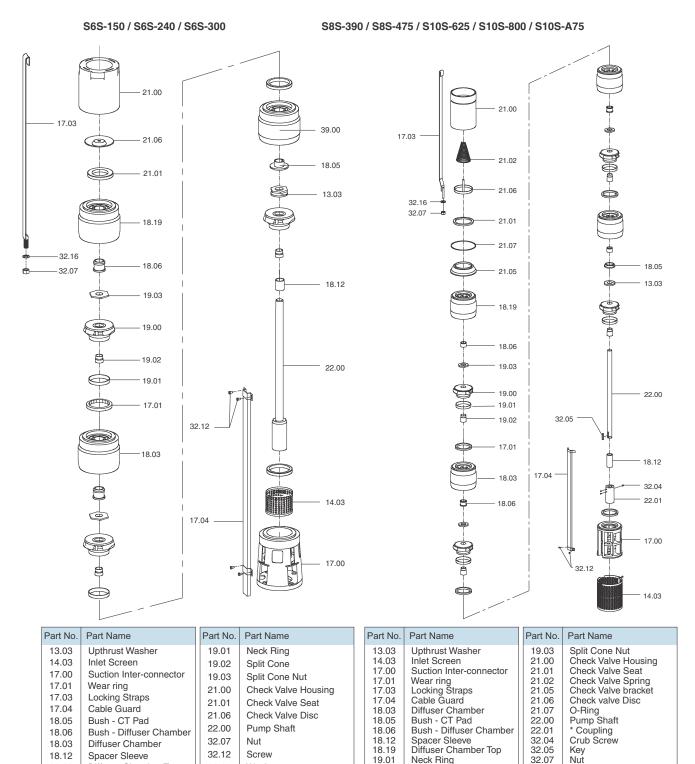


Part No.	Part Name	Part
12.05 13.05 14.03 14.14 17.00 17.01 17.03 17.04 18.00 18.06 18.19	Counter Thrust Ring Sleeve Strainer Cable Clamp Suction Inter Connector Wearing ring Locking Strap-Pump Cable Guard Chamber -Rubber bush Bush - Rubber Chamber - Top	18. 19. 19. 21. 21. 22. 22. 22. 32. 32. 32.

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

Part No.	Part Name	Part No.	Part Name
rait ivo.	Fait Name	Fait No.	Fait Name
13.03	Upthrust Washer	19.00	Impeller
14.03	Chamber Inlet Screen	19.02	Split Cone
17.00	Suction Inter-connector	19.03	Split Cone Nut
17.01	Wear ring	21.00	Check Valve Housing
17.03	Locking Straps	22.00	Pump Shaft
17.04	Cable Guard	32.07	Nut
18.03	Diffuser Chamber		
18.05	Bush - CT Pad	32.12	Screw
18.06	Bush - Diffuser Chamber	32.16	Washer
18.12	Spacer Sleeve	39.00	Chamber - Bracket

Exploded View



All mounting dimensions are in accordance with NEMA Standards

32.16

39.00

Washer

Chamber - Bracket

Diffuser Chamber Top

Impeller

18.19

19.00

32.12

32.16

Screw

Washer

19.02

19.00

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

WINNING WAYS

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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