



Submersible Water Pump

SERIES 1SC

1 1/4" Special Use Pump

APPLICATIONS

Submersible water pumps designed for pumping out of reservoirs and storage tanks:

- Homes and farms
- Mobile home parks and motels
- Schools and hospitals
- Municipal applications
- Industrial applications
- Commercial applications

SPECIFICATIONS

Pump:

- 1 1/4" NPT discharge and open suction.
- Maximum suspended solids 1/8".
- Capacities: to 35 U.S. GPM (7.9 m³/h).
- Total heads: to 240 feet TDH (70 m).
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- Maximum submergence: to 65 feet (20 m).
- Continuous duty rated, non-overloading motor.

Motor:

- Single phase: 3450 RPM, 115 and 230 V, 60 Hz.
- Three phase: 3450 RPM, 230 and 460 V, 60 Hz.
- Non-overloading.
- Class F insulation.
- Thermal overload protection: built-in with automatic reset on single phase.

- Three phase models require external overloads in panel.
- Power cord: 30 foot long with BARE leads for control panel connection.
Single phase – 16/4 SJTO
Three phase – 16/4 STO
NOTE: See accessory section for separate control panels.
- Capacitor box, single phase
- Single phase models supplied with capacitor box and molded NEMA plug.

FEATURES

- **Casing:** AISI 304 SS. Corrosion resistant, non-toxic, non-leaching.
- **Impeller:** FDA compliant, glass filled Noryl®. Corrosion and abrasion resistant.

■ **Mechanical Seal:** Silicon/carbide sealing faces; all metal components of AISI type 300 stainless steel running in protected oil chamber.

■ **Elastomers:** BUNA-N.

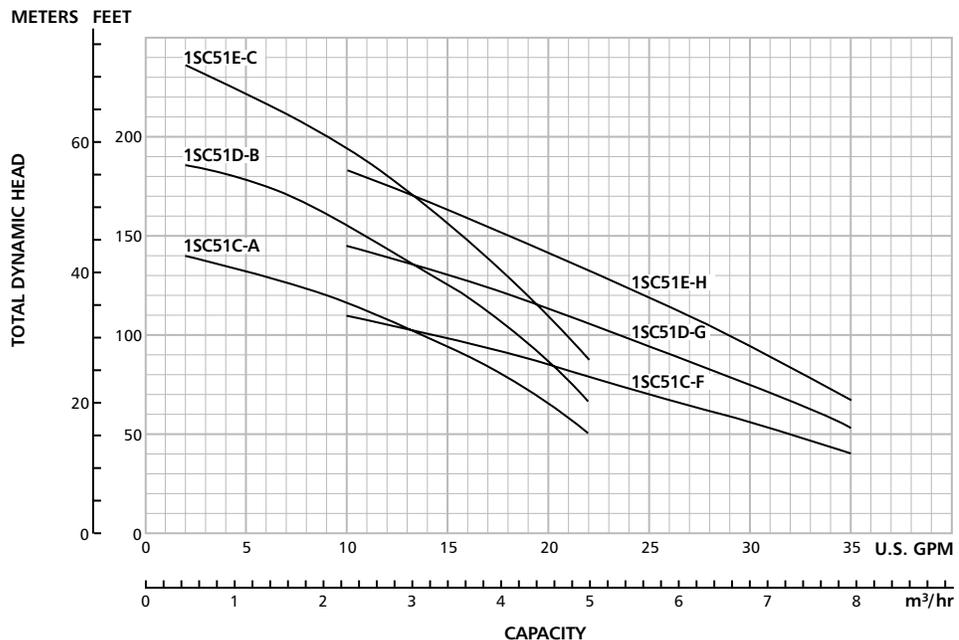
■ **Pump Support Feet; Motor Shell and Lifting Handle:** Constructed of AISI type 300 series stainless steel.

■ **Shaft:** AISI type 303 stainless steel high strength pump shaft with keyed and locking cap screw impeller fastening.

■ **Discharge:** 1 1/4" NPT for vertical-up connection to rigid or flexible piping connection.

■ **Suction Strainer:** Detachable for easy clean out.

Component	Material
Outer casing and upper support	Stainless steel (AISI 304)
Motor casing	Stainless steel (AISI 304)
Suction strainer	Stainless steel (AISI 304)
Motor shaft	Stainless steel (AISI 304)
Impeller	Noryl
Diffuser	Stainless steel (AISI 304)
Upper cover	Technopolymer
Mechanical seal housing	Technopolymer
Lower bearing support	Aluminum die cast
Lower bearing	Urethane resin
Elastomers	BUNA-N
Lower mechanical seal	Silicon carbide/silicon carbide
Upper lip seal	Nitrile rubber



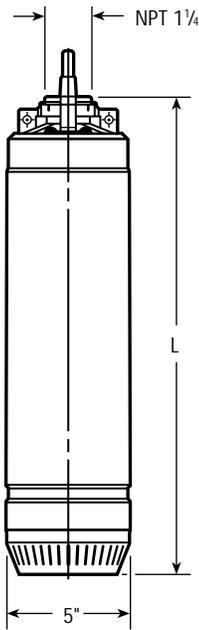
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DIMENSIONS



Series	HP	Phase	"L" Dimensions in inches	Discharge Size
1SC	1/2	1,3	19 1/8	1 1/4
	3/4	1,3	20 1/8	
	1	1,3	21 3/4	

MECHANICAL DATA

Series	No. of Stages	HP	Volts	Phase	Max Amps	RPM	Weight (lbs.)		
1SC51C0AA	3	1/2	115	1	8.8	3450	31		
1SC51C1AA					4.4				
1SC51C3AA				3	3.0				
1SC51C0FA	1/2	230	1	9.0	33				
1SC51C1FA				4.5					
1SC51C3FA			3	3.0					
1SC51D1BA	4	3/4	230	1			5.4	3450	33
1SC51D3BA				3			3.6		
1SC51D1GA				1			5.5		
1SC51D3GA				3	3.7				
1SC51E1CA	5	1	230	1	6.7		3450		38
1SC51E3CA				3	4.5				
1SC51E1HA				1	6.8				
1SC51E3HA				3	4.6				