

mody

ELECTRIC SUBMERSIBLE ALL STAINLESS STEEL PUMPS

M100 2" SS SERIES-50Hz

**PORTABLE ELECTRIC
ALL STAINLESS STEEL
SUBMERSIBLE PUMPS FOR
CORROSIVE & ABRASIVE
APPLICATIONS**

PH RANGE OF 2-10

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1.3 HP (1kW)

**M 100ST/SS / M 100T/SS (1 or 3 Phase)
2"(50mm) NPT or Hose**

.....

2 HP (1.5kW)

**M 120T/SS
2"(50mm) NPT or Hose**

.....

2 HP (1.5kW)

**M 154ST/SS / M 154T/SS (1 or 3 Phase)
2"(50mm) NPT or Hose**

DESIGN ADVANTAGES

- Available in all Stainless Steel materials for corrosive and abrasive applications. These pumps are capable of handling contaminated fluids typical at most landfills, nuclear power plants, mines, paper & pulp industries with a pH range of 2 - 10.
- Slimline Design with centerline discharge to meet the demands of the most critical applications.
- Choice of impeller materials:
 - 1) 316 Stainless Steel for sea water and corrosive applications and;
 - 2) Nitride Hardened 410 Stainless Steel for abrasive applications. (Standard)
- Choice of Mechanical Seals:
 - 1) Tandem Mechanical Seals, TC/TC (+ ph 5) and;
 - 2) Tandem Mechanical Seals, SC/SC (- ph 5) (Standard)



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M100 2" SS SERIES-50Hz

MATERIALS OF CONSTRUCTIONS AND ENGINEERING DATA

STANDARD CONSTRUCTION

Top Discharge Outlet	316SS
Outer Casing	316SS
Stator Casing	316SS
Strainer	316SS
Wear Plate	316SS
Diffuser	316SS
Impeller	410SS
Sand Guard	316SS
Shaft	431SS
Tandem Mech Seals	SC/SC
O-Rings & Elastomers	Viton®
Exposed Hardware	316SS
Cable Type	SOOW
Oil	Food Grade
Ball Bearing Types	Radial

PUMP

- A removable Top Discharge Outlet, cast/fabricated male NPT is standard on all pump models, hose outlet is optional.
- External Sand Guard behind the Impeller prevents sand/debris from damaging mechanical seal face.
- Field adjustable all stainless steel Diffuser / Wear Plate optimizes the efficiency throughout the life of the pump.

MOTOR

Continuous Duty Rated Squirrel Cage Induction Motor rated IP68 completely submersible, Class H Insulation (180°C) tripple dipped and epoxied end windings.

Speed: 2800 RPM @ 50Hz

Maximum temperature of pump liquid: 104°F/ 40°C

Maximum Start/Stop per hour: 15

POWER SUPPLY

1 & 3 phase, 50 Hz. AC Supply. Available in any voltage / frequency combination. 230/380/400V

BALL BEARINGS

The rotor rotates on two single row, deep groove ball bearings, enclosed with high temperature grease containing special anti-corrosion additive.

SHAFT SEAL

Tandem SC/SC & SC/SC Upper and lower mechanical seals wholly enclosed in a pressure compensated oil chamber. TC/TC are optional.

POWER CABLE

Waterproof/oil proof, rubber-insulated, neoprene-sheathed copper conductor flexible cable, 50ft, (15m) length (standard).

CABLE ENTRY SEAL

Water Dam type cable entry seal designed without Silicones or Epoxies.

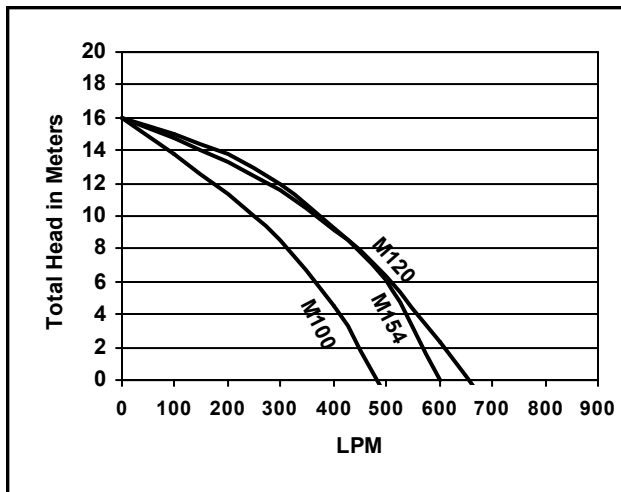
CABLE STRAIN RELIEF

Three foot long stainless steel cable sheath terminated at the cable gland is provided for strain relief only on pump model M154.

SUBMERGENCE

Submergence below liquid surface, min. 5" (127mm) max. 50' (15m)

PERFORMANCE CURVES



MODEL	MOTOR		CURRENT AMPS 1Ø 220V 3Ø 400V	DIMENSIONS (mm)		STRAINER HOLE SIZE (mm)	WEIGHT * kg
	kW	ph		H	W		
M 100 T/SS	1	3	2.3	419.1	158.8	6.3	26
M 100 S/T/SS	1	1	10	425.5	158.8	6.3	28
M 120 T/SS	1.3	3	3.9	431.8	158.8	6.3	28
M 154 T/SS	1.5	3	4.4	641.4	190.5	6.3	50
M 154 S/T/SS	1.5	1	12	666.8	190.5	6.3	54

* Weights (Approx. Without Cable)