



ELECTRICAL SUBMERSIBLE DEWATERING PUMP IN SS316

M100 SERIES

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

PH RANGE OF 2-10

1.5 HP (1.1 Kw)

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

2 HP (1.5 Kw)

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



M-100TSS/M120TSS

DESIGN ADVANTAGES

- Available in 316 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.
- Slim line Design with centerline discharge to meet the demands of the most critical applications.
- Tandem Mechanical Seals, SC/SC

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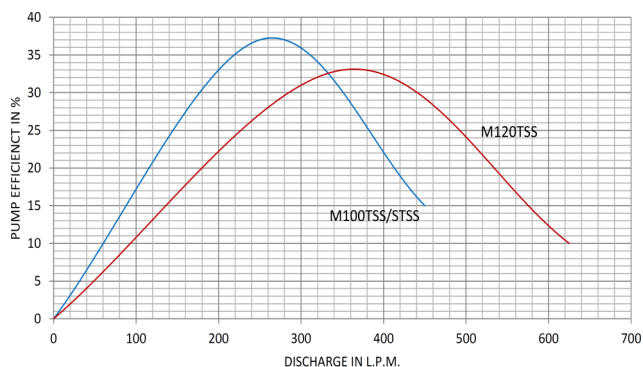
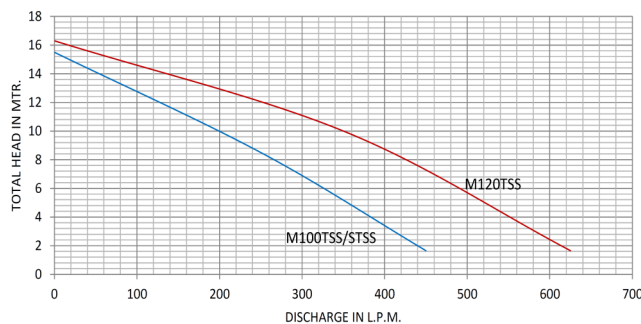
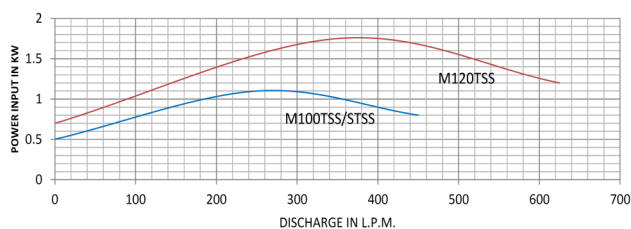
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STANDARD CONSTRUCTION

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

PERFORMANCE CURVES



MATERIALS OF CONSTRUCTION AND ENGINEERING DATA

PUMP

- A removable Top Discharge Outlet, investment cast hose outlet and BSP 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 (DOL START)

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
 Power Rating: 1.1Kw(M100TSS/M100STSS), 1.5KW(M120TSS)
 Current FLA: 2.4 Amps (M100TSS), 10 Amps (M100STSS), 3.9 Amps (M120TSS)
 Maximum temperature of pump liquid: 40°C
 Maximum Start/Stop per hour: 15

POWER SUPPLY

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

BALL BEARINGS

The Rotor shaft is carried in two single row, deep groove ball bearings. The bearings are enclosed with high temperature grease containing special anti-corrosive additive.

SHAFT SEAL

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

POWER CABLE

Waterproof/oil proof, EPR insulated double sheathed, copper conductor flexible cable of size

- 4 core 1.5 sq.mm. + 2core 1 sq.mm., 15 mtrs. length for model M100TSS
- 4 core 1.5 sq.mm. + 2core 1 sq.mm., 20 mtrs. length for model M120TSS [Out of 6 cores, 3 are for power supply, 2 for connection of bi-metallic thermal switches to control panel & 1 for positive earthing.]
- 4 core 1.5 sq.mm., 15 mtrs. length for model M100STSS

CABLE ENTRY SEAL

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

SUBMERGENCE

Submergence below liquid surface, min. 25mm, max. 10 mtrs

STRAINER

316 Stainless Steel with 6mm round holes.

Due to continuous product development, specifications are subject to change with out notice.