

mody

ELECTRIC SUBMERSIBLE DRAINAGE PUMP

M-150/200/300/400 SERIES

PORTABLE ELECTRIC SUBMERSIBLE PUMP FOR CORROSIVE & ABRASIVE APPLICATIONS

2 HP (1.5kW)

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

3 HP (2.2kW)

M 204ST / M204T (1 or 3 Phase)
3"(75/80mm) NPT or Hose

4 HP (3kW) - 50Hz Only

M 404T (50 Hz)
3"(75/80mm) NPT or Hose

5 HP (3.7kW) - 60Hz Only

M 304T (60 Hz)
3"(75/80mm) NPT or Hose



M-150/200/300/400 DESIGN ADVANTAGES

- Stainless Steel Strainer, Shaft, Impeller, Outlet and Hardware for maximum corrosion resistance.
- 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)
- Tandem Tungsten Carbide/Tungsten Carbide and Tungsten Carbide/Tungsten Carbide mechanical seals.
- Mechanical Seals in wholly enclosed pressure compensated oil chamber.
- Field adjustable Nitrile Rubber-lined Diffuser/Wear Plate Optimizes efficiency throughout the life of the pump. Optional Polyurethane Diffusers and Wear Plates are available.
- Automatic ON/OFF/ON Thermal Overloads embedded in Stator Winding Optional - requires 6 core cable and external controls.
- Equipped with Sacrificial Zinc Anodes for maximum life in a saline fluid environment.
- Available in complete 316 Stainless Steel Construction with Silicon Carbide/Silicon Carbide Mechanical Seals and Viton® Elastomers.



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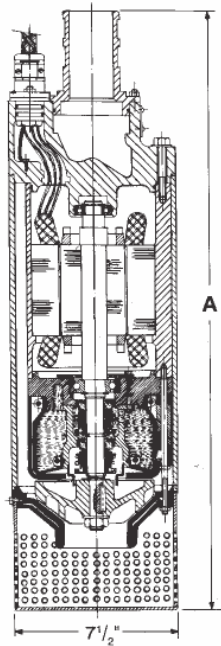
ELECTRIC SUBMERSIBLE DRAINAGE PUMP

M-150/200/300/400 SERIES

2HP(1.5kW) / 3HP(2.2kW) / 4HP(3kW) / 5HP(3.7 kW)

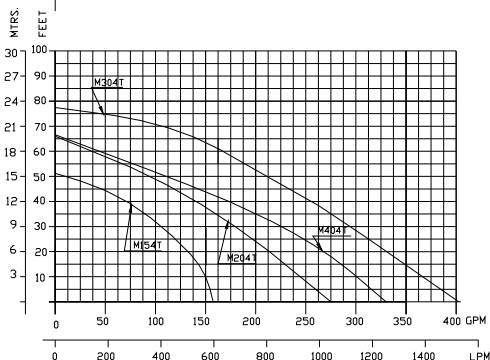
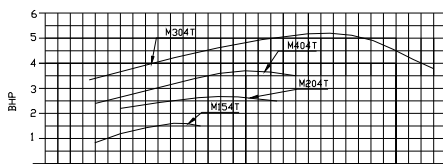
MODEL A

M-154T	25 1/4"
M-154S/T	26 1/4"
M-204T	26 1/4"
M-204S/T	28 1/2"
M-304T	28 1/2"
M-404T	27 1/2"



PERFORMANCE CURVES

MODEL: M154T/204T/304T/404T (50/60 Hz)



M-150/200/300/400 SERIES

MATERIALS OF CONSTRUCTION AND ENGINEERING DATA

MOTOR

2-pole induction **continuous rated** motor with squirrel cage rotor.
 Stator insulation class 'H' (180°C)
 Speed : 3400 RPM @ 60 Hz, 2800 RPM @ 50 Hz
 Power Rating : 2/3/5HP @ 60 Hz, 1.5/2.2/3kW @ 50Hz Full Load
 Current FLA: 3.8, 4.9, 7.1 Amps @ 460v. 4.4, 5.5, 8 Amps @ 400v.
 Max. temperature of the pump liquid : 104°F/40°C
 Max. start/stop per hour : 15

POWER SUPPLY

3 phase, 50/60 Hz, AC Supply. Available in any voltage frequency combination. (208/220/230/380/415/460/575/1000V)

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-corrosion additive.

POWER CABLE

Waterproof/oil proof, rubber-insulated, neoprene-sheathed copper conductor flexible cable, 50ft. (15m) length standard. Type SOOW in North America, EPR in the Middle East and HO7RN in the EU. 6 Core with thermal overloads optional.

SHAFT SEAL

Tandem Tungsten Carbide/Tungsten Carbide and Tungsten Carbide/Tungsten Carbide Mechanical seals wholly enclosed in a pressure compensated oil chamber.

CORROSION RESISTANT

Epoxy coated Extruded Aluminum Outer Casing
 Epoxy coated Extruded Aluminum Stator Casing
 Nitrile Rubber- Lined Diffuser/Wear plate. Polyurethane Optional.
 Shaft: 431 Stainless Steel
 Hardware: 304 Stainless Steel
 Impeller: Nitride Hardened 410SS to 56HRC is Standard.
 pH range 5 - 8

STRAINER

304 Stainless Steel with 1/4" (6mm) Round Holes

SUBMERGENCE

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

WEIGHTS (Approx. without cable)

M 154:	62 lbs. (28Kg)
M 154S:	77 lbs. (35Kg)
M 204:	77 lbs. (35Kg)
M 204S:	88 lbs. (40Kg)
M 304:	88 lbs. (40Kg)
M 404:	79 lbs. (36Kg)

Due to continuous product development, specifications are subject to change without notice.

03.10.Rev.0