

mody ELECTRIC SUBMERSIBLE DRAINAGE PUMP

M-150/200/400 SERIES

PORTABLE ELECTRIC SUBMERSIBLE PUMP FOR CORROSIVE & ABRASIVE APPLICATIONS

Model M-154 T / M-154 S/T
2 HP
Outlet 2½" HOSE
(BSPT / Flange Optional)

Model M-204 T / M-204 S/T
3 HP
Outlet 3" HOSE
(BSPT / Flange Optional)

Model M-404 T
4 HP
Outlet 3" HOSE
(BSPT / Flange Optional)

Also Available from 1-5 HP to 50HP in different series



M-150/200/400 DESIGN ADVANTAGES

The Models are essentially single stage pumps with impeller mounted on the motor shaft, housed in an extruded aluminium alloy casing and designed for continuous operation in all types of construction work. They are light weight, handy and compact, yet are high capacity pumps. They can be lowered in Borewell / Tubewell of 200 mm diameter (min.). The pumps are field adjustable. If the capacity of the pump reduces due to wear, it can be easily adjusted to desired full performance.

- ▶ Built in automatic on/off thermal switches to protect the motor - M154T, M204T & M404T (For 3 phase only)
- ▶ 431 Stainless Steel Shaft and 410 Stainless Steel impeller. All hardware is in 304 Stainless Steel for maximum corrosion resistance. SS 304 strainer optional.
- ▶ Choice of impeller material :
 - 1) 304 Stainless Steel for sea water and corrosive applications
 - 2) 410 Hardened Stainless Steel (HRC 52-55) for abrasive applications.
- ▶ Twin Seals in tandem of Tungsten carbide v/s Tungsten carbide.
- ▶ Mechanical Seals in wholly enclosed pressure compensated oil chamber.
- ▶ Field adjustable Nitrile Rubber lined Diffuser / Wear Plate to (All available in SS) optimize efficiency throughout the life of the pump.
- ▶ Can be equipped with sacrificial Zinc Anodes for maximum life in a saline fluid environment.

The pump can also be supplied in complete Stainless Steel construction (except elastomeric parts) on request.



mody industries (F.C.) pvt. ltd.

Regd. Office & Factory :

Plot No. C-41, Road, #34, Wagle Industrial Estate, Thane - 400 604.

Tel.: (022) 2581 1644, (022) 2582 3850 Fax : (022) 2582 8217

Email : sales@modypumps.com

Branch Office :

203, Bakshi House, 40-41 Nehru Place, New Delhi 110 019.

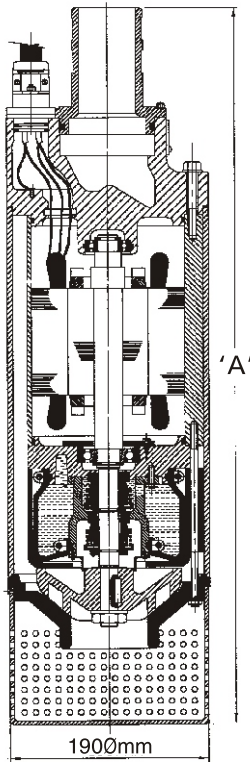
Tel.: (011) 2644 4668, 2622 9512 Fax : (011) 2646 4228

Website : www.modypumps.com

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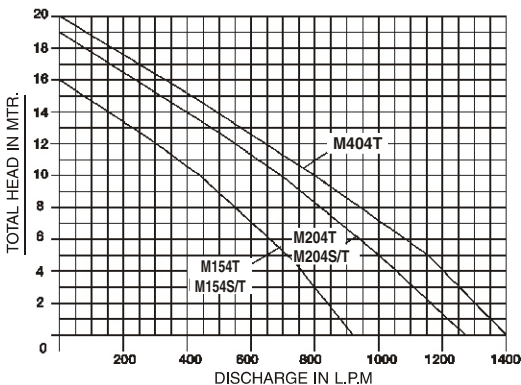
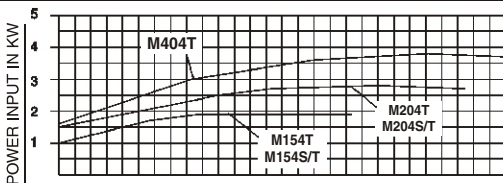
ELECTRIC SUBMERSIBLE DRAINAGE PUMP

M-150/200/400 SERIES 2HP/3HP/4HP



Model	A
M 154 T	643mm
M 154 S/T	668 mm
M 204 T	668 mm
M 204 S/T	725 mm
M 404 T	690 mm

2HP/3HP/4HP PERFORMANCE CURVE



M-150/200/400 SERIES

MATERIALS OF CONSTRUCTION AND ENGINEERING DATA

MOTOR (DOL START)

2 Pole Induction continuous rated motor with squirrel cage rotor.

Stator insulation class 'F' (155°C)

Speed : 2850 RPM (Approx.)

Power Rating :

Models : M154/M154S/T	M204T/M204S/T	M404T
1.5 kW	2.2 kW	3.0 kW

Current Rating :

Models : M154/T154S/T	M204T/M204S/T	M404T
3.8 A / 13.0 A	5.4 A / 19.0 A	7.2 A

Maximum temperature of the pumped liquid : 40°C.

Maximum start per hour : 15.

POWER SUPPLY

415 Volts +6%, 3 Phase, 50 Hz ± 3% AC Supply, Pump models M154ST and M204ST are suitable for 220 volts 1 phase, A.C. supply, Control Panels are essential for single phase models. All models are also available for any combination of voltage and frequency on special request.

BALL BEARINGS :

The rotor shaft is carried in two single row, deep groove ball bearings .The bearings are filled with high temperature grease containing special anti-corrosives additive ensuring no maintenance required for life.

POWER CABLE :

Water proof /oil proof ,PVC insulated ,double sheathed ,copper conductor flexible cable 20 mtrs. length, of size

- 4core 1.5 sq.mm +2core 1 sq.mm , for models M154T/M204T/M404T [Out of 6 cores , 3 are for power supply ,2 for connection of bi-metallic thermal switches to control panel & 1 for positive earthing.]
- 4core 2.5 sq.mm , for models M154S/T ,M204S/T.

SHAFT SEAL :

Twin mechanical seals in Tandem. Seal faces of Tungsten carbide v/s Tungsten carbide ensures long life between service intervals and are wholly enclosed in a pressure compensated oil chamber.

CORROSION RESISTANT :

Extruded Aluminium Outer and Stator Casing. – Also available in SS. (Optional)

SS 431 Rotor shaft.

SS 410 Impeller – Also available in SS 304. (Optional)

Nitrile rubber moulded Diffuser & Wear plate.

Pump is painted with epoxy coating for longer life.

STRAINER :

MS Zinc plated with 6 mm round holes – Also available in SS. (Optional)

SUBMERGENCE :

Submergence below liquid surface min.100 mm , max.10 mtrs.

WEIGHT : M154T / M154S/T M204T / M204S/T M404T

Without cable : 28 / 32 kg. 32 / 38 kg. 37 kg.

(OPTIONAL ITEMS LISTED ARE AVAILABLE AT EXTRA COST)

Due to product development, specifications may be subject to change without notice.