



MESPD100 Shown

MYERS[®] MESPD50/MESPD100 SUBMERSIBLE EFFLUENT PUMP

Septic Tank Effluent • High-Capacity Sump • High-Head Dewatering

MESPD50/100

Submersible Effluent Pump



MESPD100

The Myers MESPD50/100H can handle capacities up to 110 gallons per minute and heads to 50 feet, while the MESPD100 handles capacities up to 140 gallons per minute and heads to 63 feet.

These pumps feature a high-quality cast iron pump volute, motor housing and seal housing construction that help to ensure a long service life. The pump's non-clogging, two-vane, cast iron impeller, which is threaded to a stainless steel shaft, is capable of handling up to 3/4 inch spherical solids – providing long life in demanding applications. A seal-failure sensor probe (for connection to a seal failure alarm) is standard on three-phase units and available as an option on single-phase models. Two carbon- and ceramic-faced mechanical shaft seals are mounted in tandem to provide double protection against water entry for a long, leakproof life.

The MESPD50/100H's oil-filled motor provides superior cooling characteristics, allowing the motor to run cool and quiet for years. This oil-filled design also provides permanent lubrication of the shaft bearings, minimizing maintenance and extending the service life of the pump. In addition, to protect against overheating, the motor windings contain an automatic reset thermal overload protection (1Ø).

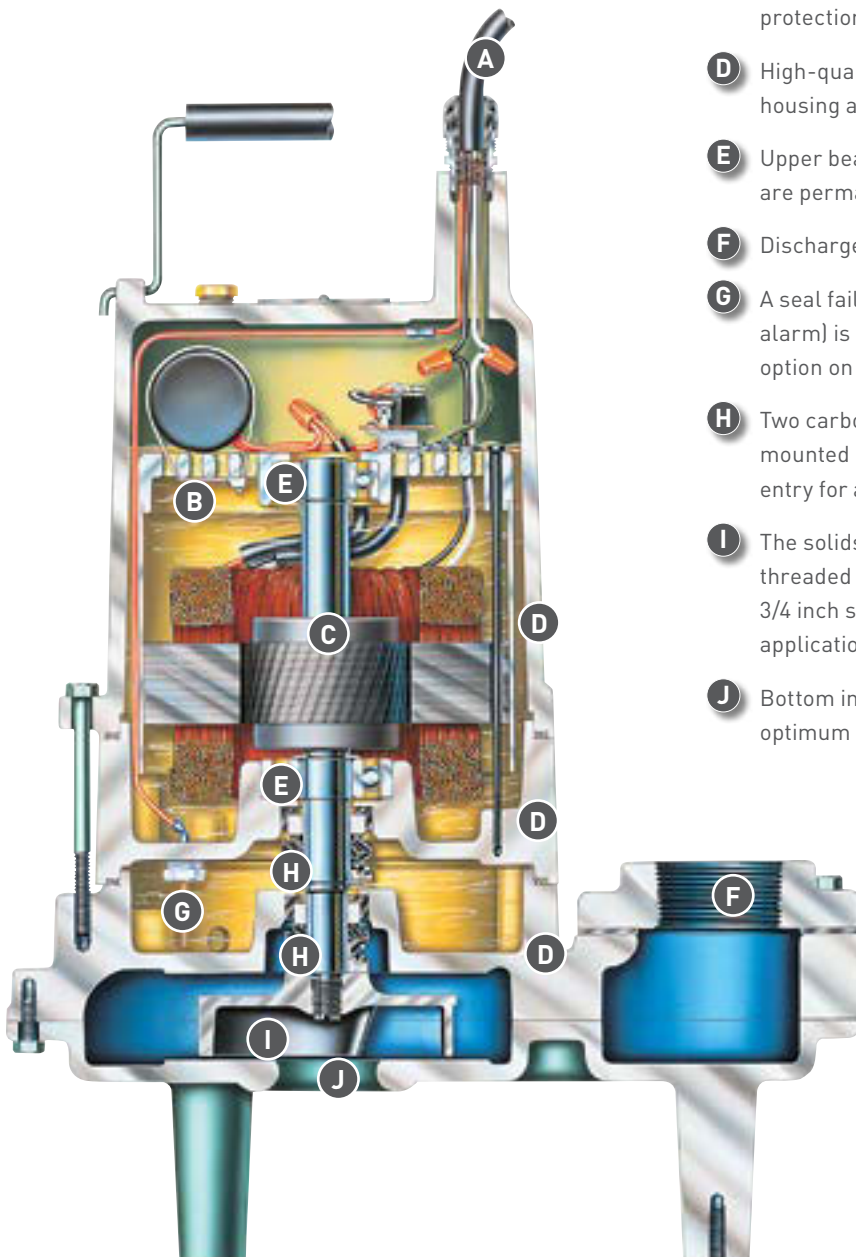
Automatic models (1/2 HP) feature the exclusive Myers diaphragm pressure switch, which provides proven reliability in installations where a float might hang up. It also incorporates a unique piggyback plug arrangement, which allows for simple conversion to manual operation by simply removing the switch plug and inserting the motor plug directly into the electrical outlet.

The MESPD50/100H are completely submersible, "high-head", dual-seal pumps for use in septic tank effluent applications.



MESPD50

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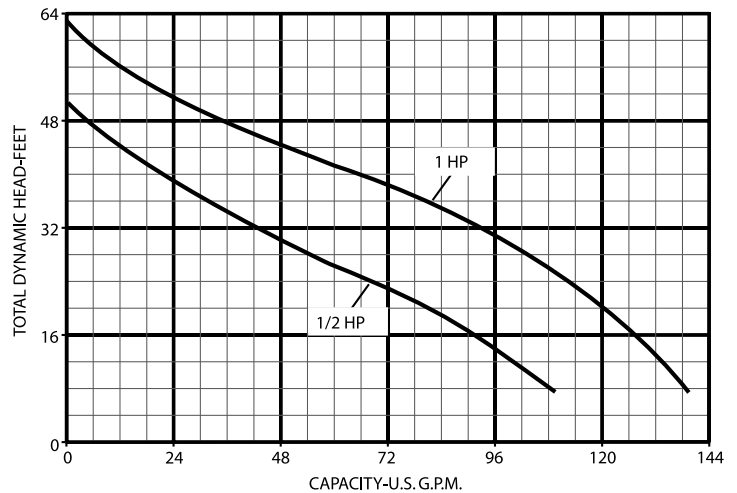
- A** Water-resistant power cord has a compression-fit connection and an epoxy potting for double protection against water entry. Lengths of 10 and 20 feet are available with molded plugs, depending on model variations.
- B** Oil-filled motor provides superior cooling and permanent lubrication of bearings, minimizing maintenance and extending service life.
- C** 1/2 or 1 HP capacitor-start motors provide maximum starting torque. Motor windings contain automatic thermal overload protection (1Ø).
- D** High-quality cast iron construction of pump volute, motor housing and seal housing provides long life.
- E** Upper bearings are heavy-duty, single-row ball bearings that are permanently lubricated for service-free life.
- F** Discharge is standard 2 inch NPT (3 inch is optional).
- G** A seal failure sensor probe (for connection to a seal failure alarm) is standard on three-phase units and available as an option on single-phase models.
- H** Two carbon- and ceramic-faced mechanical shaft seals are mounted in tandem to provide double protection against water entry for a long, leakproof life.
- I** The solids handling, two-vane, cast iron impeller, which is threaded to a stainless steel shaft, efficiently handles up to 3/4 inch spherical solids – providing long life in demanding applications.
- J** Bottom inlet has no screen to become clogged, providing optimum pump performance and minimal maintenance.

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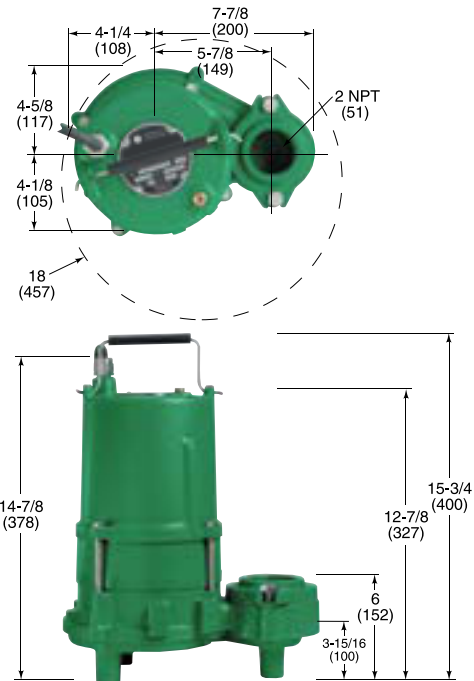
PUMP CHARACTERISTICS

| Pump/Motor Unit | Submersible | | | | | |
|---|-----------------------------|------------|------------|------------|------------|------------|
| Manual Models (50) | MH1 | MH2 | MH6 | MH3 | MH4 | MH5 |
| Automatic Models | AH1 | AH2 | - | - | - | - |
| Horsepower | 1/2 | | | | | |
| Voltage | 115 | 230 | 200 | 230 | 460 | 575 |
| Full Load Amps | 14.0 | 7.0 | 4.0 | | 1.8 | 1.5 |
| Motor Type | Capacitor Start Three-Phase | | | | | |
| R.P.M. | 3450 | | | | | |
| Phase Ø | 1 | | 3 | | | |
| Manual Models (100) | MH2 | MH6 | MH3 | MH4 | M5 | |
| Automatic Models | AH2 | - | - | - | - | |
| Horsepower | 1 | | | | | |
| Voltage | 230 | 200 | 230 | 460 | 575 | |
| Full Load Amps | 9.9 | 5.5 | 5.2 | 2.5 | 1.5 | |
| Motor Type | Cap. Three-Phase | | | | | |
| R.P.M. | 3450 | | | | | |
| Phase Ø | 1 | | 3 | | | |
| Hertz | 60 | | | | | |
| Operation | Intermittent | | | | | |
| Temperature | 140°F Max Fluid Temp. | | | | | |
| NEMA Design | B | | | | | |
| Insulation | Class B | | | | | |
| Discharge Size | 2" NPT [3" opt.] | | | | | |
| Solids Handling | 3/4" | | | | | |
| Unit Weight | 73 lbs. | | | | | |
| Power Cord: MESPD50 14/3, SJTW-A, 1Ø, 115V=10' std. [20' opt.]-14/4, STW-A, 1Ø, 115V=10' [20' opt.]-16/3, STW-A, 1Ø, 230V=20' std.-16/4, STW-A, 1Ø, 230V=20' std. MESPD100 16/3, STW-A, 1Ø, 230V=20' std.-16/4, STW-A, 1Ø, 230V=20' std.-18/5, STW-A, 3Ø, 200V, 230V, 460V or 575V=20' std. | | | | | | |

PERFORMANCE DATA



DIMENSIONAL DATA



All dimensions in inches. Metric for international use. Component dimensions may vary ± 1/8 inch. Dimensional data not for construction purpose unless certified. Dimensions and weights are approximate. On/Off level adjustable.

MATERIALS OF CONSTRUCTION

| | |
|-----------------------|--|
| Handle | Steel |
| Lubricating Oil | Dielectric Oil |
| Motor Housing | Cast Iron |
| Seal Housing | Cast Iron |
| Pump Casing | Cast Iron |
| Shaft | Stainless Steel |
| Mechanical Shaft Seal | Seal Faces: Carbon/Ceramic Spring: Stainless Steel Bellows: Buna-N |
| Impeller | Ductile Iron |
| Upper Bearing | Single Row Ball Bearing |
| Lower Bearing | Single Row Ball Bearing |
| Base | Cast Iron |
| Fastener | Stainless Steel |



USA
293 WRIGHT STREET, DELAVAN, WI 53115 WWW.FEMYERS.COM
PH: 888-987-8677 ORDERS FAX: 800-426-9446

CANADA
490 PINEBUSH ROAD, UNIT 4, CAMBRIDGE, ONTARIO, N1T 0A5
PH: 519-896-2163 ORDERS FAX: 519-896-6337

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