



HYDROMATIC[®] OSP50AB SUBMERSIBLE EFFLUENT PUMP

OSP50AB

Submersible Effluent Pump

Features

- The Hydromatic OSP50AB submersible pump is specifically designed to meet the demands of residential sump, elevator pit, septic tank effluent, industrial circulator and transfer tank applications. The 1-1/4 inch NPT discharge pump is available with a powerful 1/2 horsepower motor, and can handle capacities up to 60 gallons per minute and heads to 25 feet.
- The OSP50AB features a high-grade bronze construction that provides long life in corrosive applications. The pump's nonclogging bronze impeller, which is threaded to a stainless steel shaft, provides long life even in demanding applications, and is capable of handling up to 5/8 inch spherical solids and lint.
- The OSP50AB'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.
- Water level is controlled by a proven diaphragm-type pressure switch, which is sealed in a watertight housing. Double-diaphragm construction provides added protection in preventing liquid or foreign matter from entering switch.

Applications

- Septic Tank Effluent
- High-Capacity Sump
- Industrial Circulators
- Elevator Pits



OSP50AB

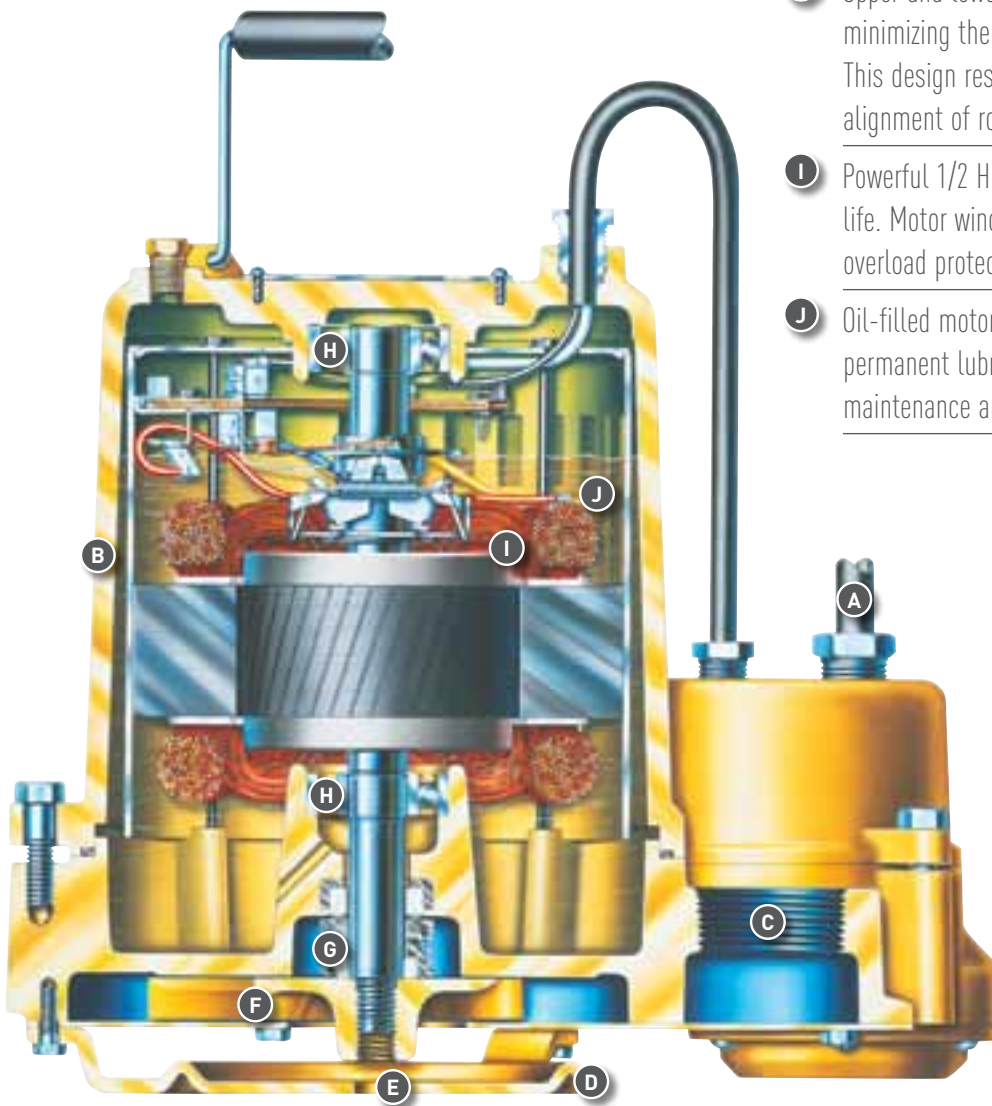
Benefits

The OSP50AB is a completely submersible, all-bronze automatic pump for use in basement sump, elevator pit, septic tank effluent, industrial circulator, and transfer tank applications.

Water level is controlled by a proven diaphragm-type pressure switch, sealed in a watertight housing. Double-diaphragm construction gives added protection to prevent liquid or foreign matter from entering the switch.

- A** Water-resistant power cord with molded plug is available in 20 foot length, and is easily field serviceable.
- B** High-grade bronze construction provides long life in corrosive applications.

- C** Discharge is 1-1/4 inch NPT.
- D** Strainer inlets prevent foreign objects from clogging pump, providing optimum operation and reduced maintenance.
- E** Bottom-suction design alleviates buildup of debris, providing optimum pump performance and reduced maintenance.
- F** The nonclogging bronze impeller, which is threaded to a stainless steel shaft, provides long life in corrosive applications, and is capable of handling up to 5/8 inch spherical solids and lint.
- G** Mechanical shaft seal is carbon- and ceramic-faced for long, leakproof life.
- H** Upper and lower ball bearings support motor shaft, minimizing the effects of impeller thrust loads. This design results in minimum friction and perfect alignment of rotor, for longer service from pump.
- I** Powerful 1/2 HP motor runs cool and quiet for long life. Motor windings contain automatic-reset, thermal overload protection.
- J** Oil-filled motor provides superior cooling and permanent lubrication of bearings, minimizing maintenance and extending service life.



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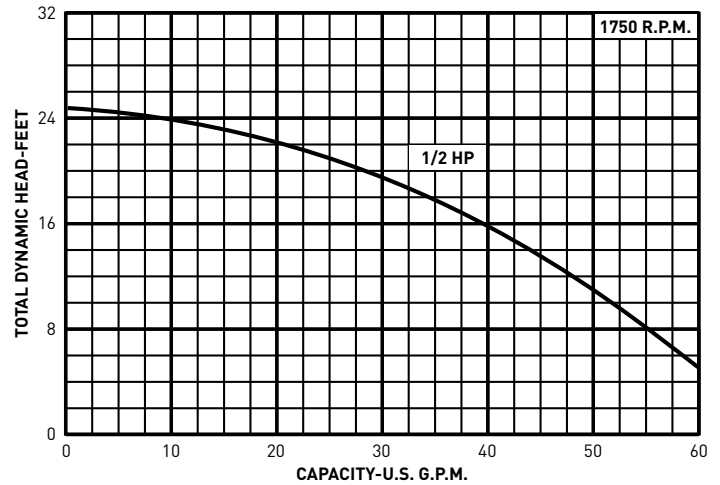
Pump Characteristics

Pump/Motor Unit	Submersible
Automatic Models	OSP50AB1
Horsepower	1/2
Full Load Amps	9.5
Motor Type	Split Phase
R.P.M.	1750
Phase \emptyset	1
Voltage	115
Hertz	60
Operation	Intermittent
Temperature	140°F Ambient
NEMA Design	B
Insulation	Class F
Discharge Size	1-1/4" NPT
Solids Handling	5/8"
Unit Weight	53 lbs.
Power Cord	16/3, STW, 20' std.

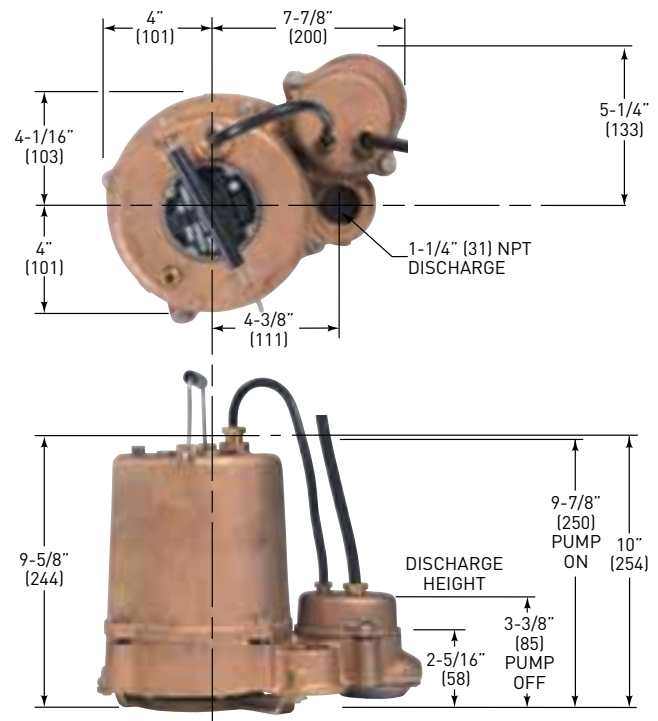
Materials of Construction

Part Name	Material
Handle	Steel
Lubricating Oil	Dielectric Oil
Motor Housing	Bronze
Pump Casting	Bronze
Shaft	Stainless Steel
Mechanical Shaft Seal	Seal Faces: Carbon/Ceramic Seal Body: Brass Spring: Stainless Steel Bellows: Buna-N
Impeller	Bronze
Upper Bearing	Single Row Ball Bearing
Lower Bearing	Single Row Ball Bearing
Base	Bronze
Fasteners	Stainless Steel

Performance Data



Dimensional Data



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



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