



HYDROMATIC[®] SP50AB SUBMERSIBLE SEWAGE EJECTOR PUMP

SP50AB

Submersible Sewage Ejector Pump

Application

- Residential Sewage
- High-Capacity Sump
- Septic Tank Effluent

The Hydromatic SP50AB submersible pump is specifically designed to meet the demands of handling wastewater and sewage in residential and commercial building applications. The 2 inch NPT discharge pump (3 inch discharge optional) is available with a powerful 1/2 horsepower motor, which can handle capacities up to 150 gallons per minute and heads to 29 feet.

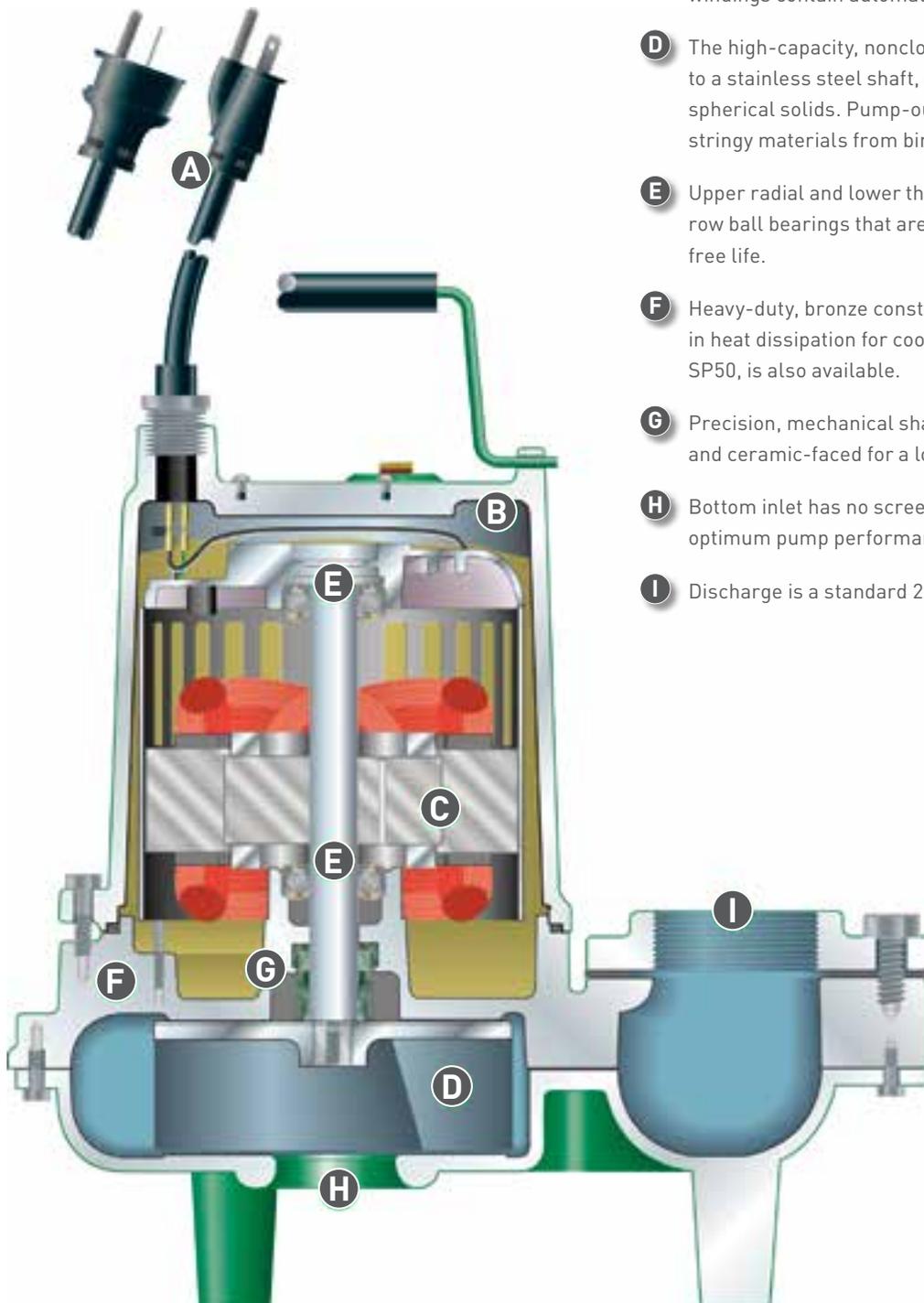
The SP50AB features a heavy-duty bronze construction that provides durability in rugged applications, as well as assists in dissipating heat from the motor, for cooler operation. It is also available in an all cast iron model. The pump's high-capacity, nonclog, bronze impeller which is threaded to a stainless steel shaft provides long life even in demanding applications and is capable of handling up to 1-1/2 inch spherical solids and lint. The SP50AB also features precision, carbon- and ceramic-faced mechanical shaft seals that are extensively lapped, providing for a long, leakproof life.

The SP50AB'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 (1 Ø).

The water level is controlled by Hydromatic's proven diaphragm type pressure switch, which is sealed in a watertight bronze housing. Double diaphragm construction prevents liquid or foreign matter from entering switch.



SP50AB



- A** Water-resistant power cord with molded plug is 20 feet long and is easily field serviceable.
- B** Oil-filled motor provides superior cooling and permanent lubrication of bearings, minimizing maintenance and extending service life.
- C** Powerful 1/2 HP motor provides cool and quiet operation. Motor windings contain automatic thermal overload protection.
- D** The high-capacity, nonclog, bronze impeller, which is threaded to a stainless steel shaft, efficiently handles up to 1-1/2 inch spherical solids. Pump-out vanes on back of impeller prevent stringy materials from binding impeller or shaft.
- E** Upper radial and lower thrust bearings are heavy-duty, single-row ball bearings that are permanently lubricated for service-free life.
- F** Heavy-duty, bronze construction provides long life and assists in heat dissipation for cooler motor operation. Cast iron model, SP50, is also available.
- G** Precision, mechanical shaft seal is extensively lapped, carbon- and ceramic-faced for a long leakproof life.
- H** Bottom inlet has no screen to become clogged, providing optimum pump performance and minimal maintenance.
- I** Discharge is a standard 2 inch NPT (3 inch is optional).

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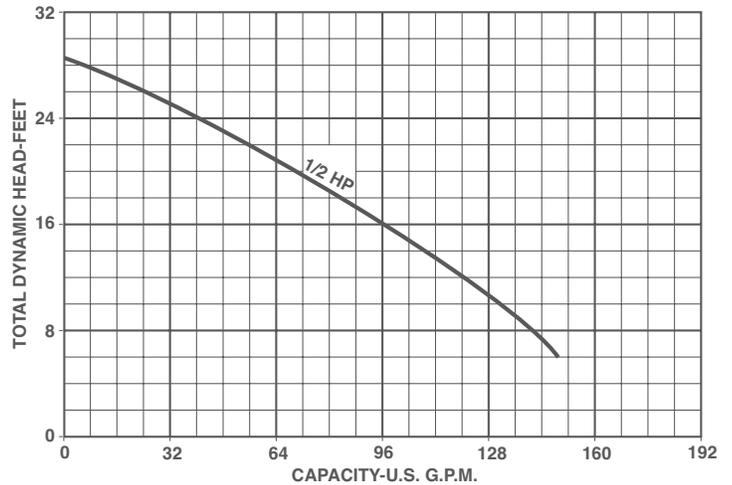
PUMP CHARACTERISTICS

Pump/Motor Unit	Submersible
Automatic All Brz.	AB1
Horsepower	1/2
Full Load Amps	12.0
Motor Type	Split-Phase
R.P.M.	1750
Phase Ø	1
Voltage	115
Hertz	60
Operation	Intermittent
Temperature	140°F Ambient
NEMA Design	A
Insulation	Class A
Discharge Size	2" NPT
Solids Handling	1-1/2"
Unit Weight	SP50AB1 77 lbs.
Power Cord	16/3, STWA, 1Ø 115V, 10' std. (20' optional) 16/4, STWA

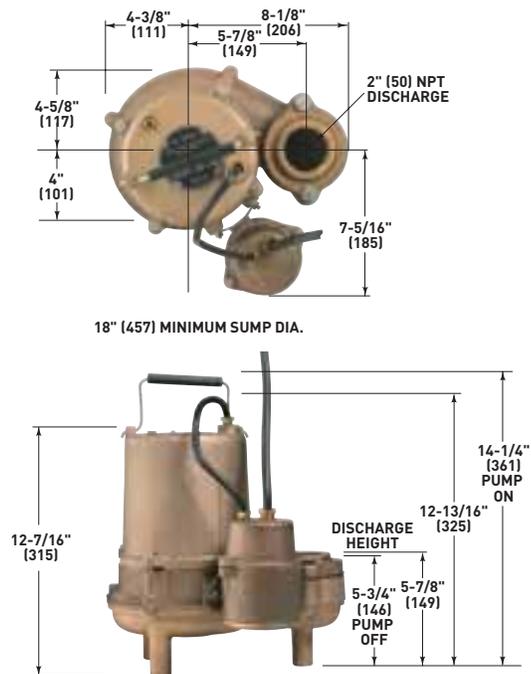
MATERIALS OF CONSTRUCTION

Handle	304SST
Lubricating Oil	Dielectric Oil
Motor Housing	Bronze
Pump Casing	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
Fastener	Stainless Steel

PERFORMANCE DATA



DIMENSIONAL DATA



All dimensions in inches. 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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