

# HYDROMATIC®

## SP40

### Submersible Sewage Ejector Pump

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



# SP40 - Submersible Sewage Ejector Pump

## FEATURES

The Hydromatic SP40 submersible pump is specifically designed to meet the demands of handling wastewater and sewage in residence and commercial building applications. The 2 inch NPT discharge pump is available with a powerful 4/10 horsepower motor, in both automatic and manual configurations; and can handle capacities up to 120 gallons per minute and heads to 28 feet.

The SP40 features a heavy-duty cast iron construction that provides durability in rugged applications, as well as assisting in dissipating heat from the motor, for cooler operation. The pump's, non-clog, non-corrosive, thermoplastic impeller, which is threaded to a stainless steel shaft, provides long life even in demanding applications; and is capable of handling up to 1-3/4 inch spherical solids and lint. The SP40 also features a precision, carbon and ceramic faced mechanical shaft seal that is extensively lapped, providing for a long, leakproof life.

The SP40'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.

Automatic models feature the exclusive Hydromatic 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. This feature provides an easy way of periodically cycling the pump to ensure it is operating properly.

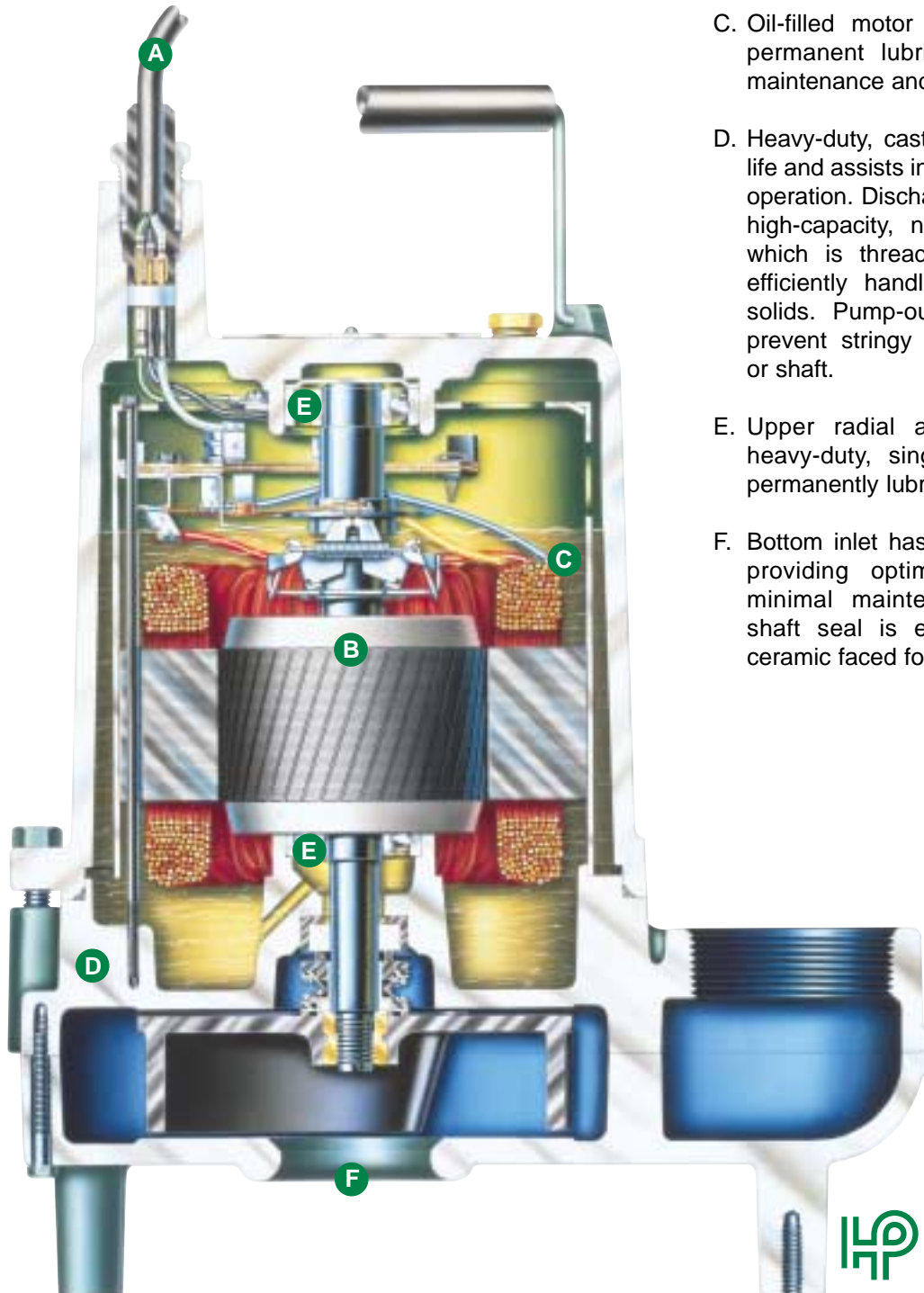


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## BENEFITS

Automatic models feature the exclusive Hydromatic diaphragm pressure switch with piggyback plug-in arrangement. Proven reliability for automatic operation in installations where a float might hang up. The switch is easily serviced and may be disconnected for manual pump operation.

- A. Water-resistant power cord with molded plug is available in 10 or 20 foot lengths, and is easily field serviceable.
- B. Energy-efficient 4/10 HP motor runs cool and quiet for long life. Motor windings contain automatic-reset, thermal overload protection.
- C. Oil-filled motor provides superior cooling and permanent lubrication of bearings minimizing maintenance and extending service life.
- D. Heavy-duty, cast iron construction provides long life and assists in heat dissipation for cooler motor operation. Discharge is standard 2 inch NPT. The high-capacity, non-clog, thermoplastic impeller, which is threaded to a stainless steel shaft, efficiently handles up to 1-1/4 inch spherical solids. Pump-out vanes on back on 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. Bottom inlet has no screen to become clogged, providing optimum pump performance and minimal maintenance. Precision, mechanical shaft seal is extensively-lapped, carbon and ceramic faced for a long leakproof life.



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## Details

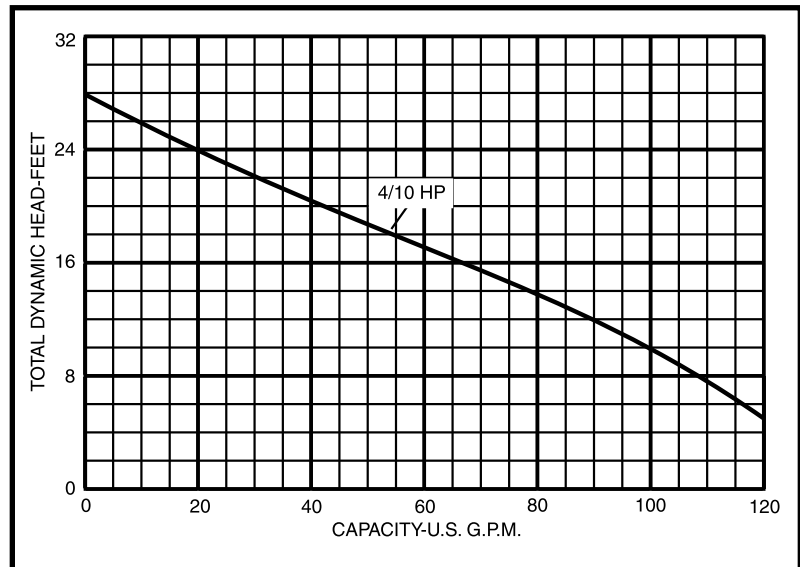
### Pump Characteristics

Pump/Motor Unit	Submersible	
Manual Models	SP40MI	SP40M2
Automatic Models	SP40AI	SP40A2
Horsepower	4/10	
Full Load Amps	9.4	4.7
Motor Type	Split Phase	
R.P.M.	1750	
Phase Ø	1	
Voltage	115	230
Hertz	60	
Operation	Intermittent	
Temperature	140° F Ambient	
NEMA Design	A	
Insulation	Class A	
Discharge Size	2" NPT	
Solids Handling	1 1/4"	
Unit Weight	60 lbs.	
Power Cord	18/3, SJTW, 115V = 10' std. (20 optional) 230V = 20'std.	

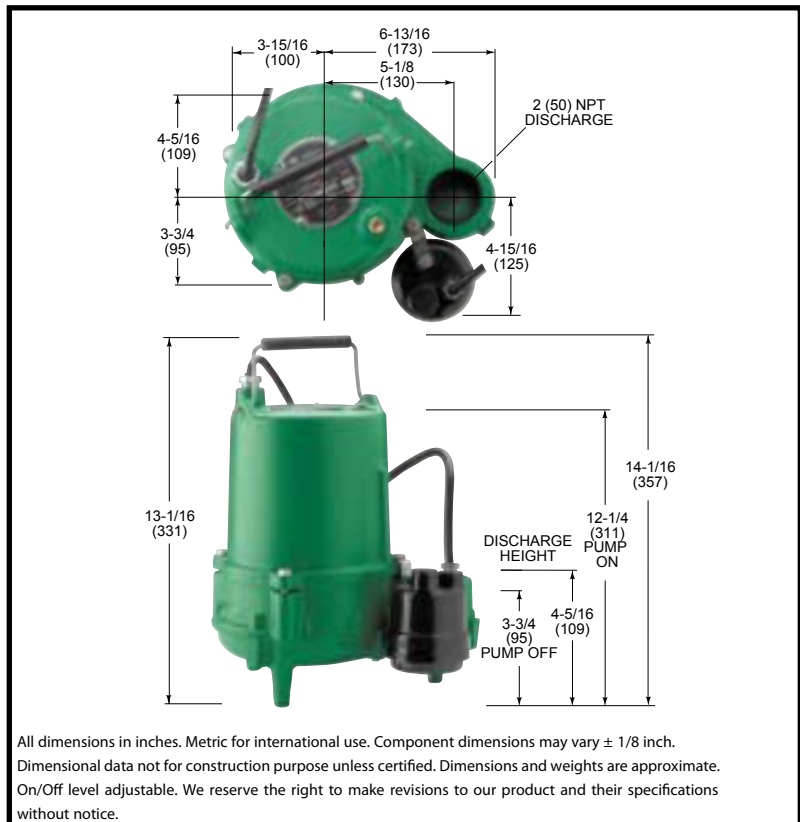
### Materials of Construction

Handle	Steel
Lubricating Oil	Dielectric Oil
Motor Housing	Cast Iron
Pump Casing	Cast Iron
Shaft	Stainless Steel
Mechanical Shaft Seal	Seal Faces: Carbon/Ceramic Seal Body: Brass Spring: Stainless Steel Bellows: Buna-N
Impeller	Thermoplastic
Upper Bearing	Brass Sleeve Bearing
Lower Bearing	Single Row Ball Bearing
Fasteners	Stainless Steel

### Performance Data



### Dimensional Data



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