

Barnes Effluent Pumps

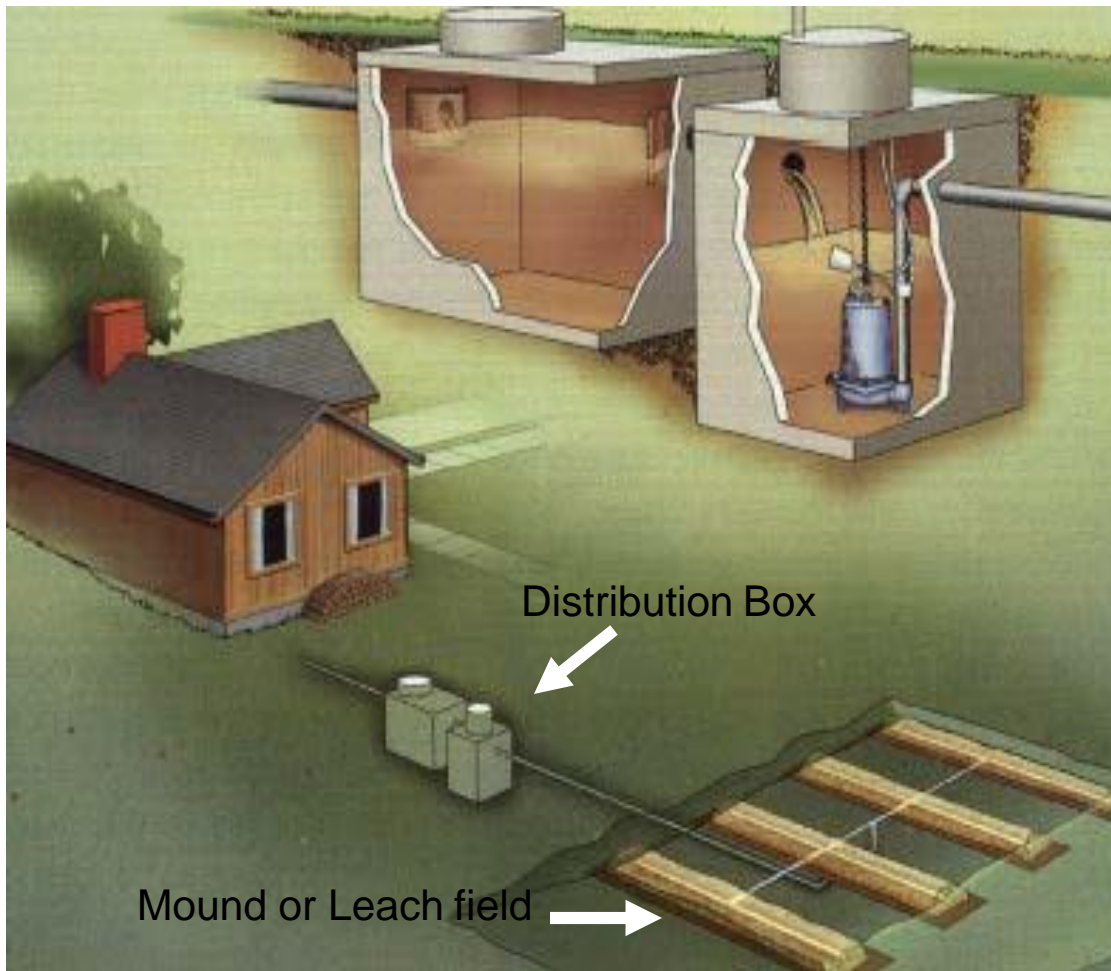
Crane Pumps & Systems



PUMPS & SYSTEMS

Effluent Pumps

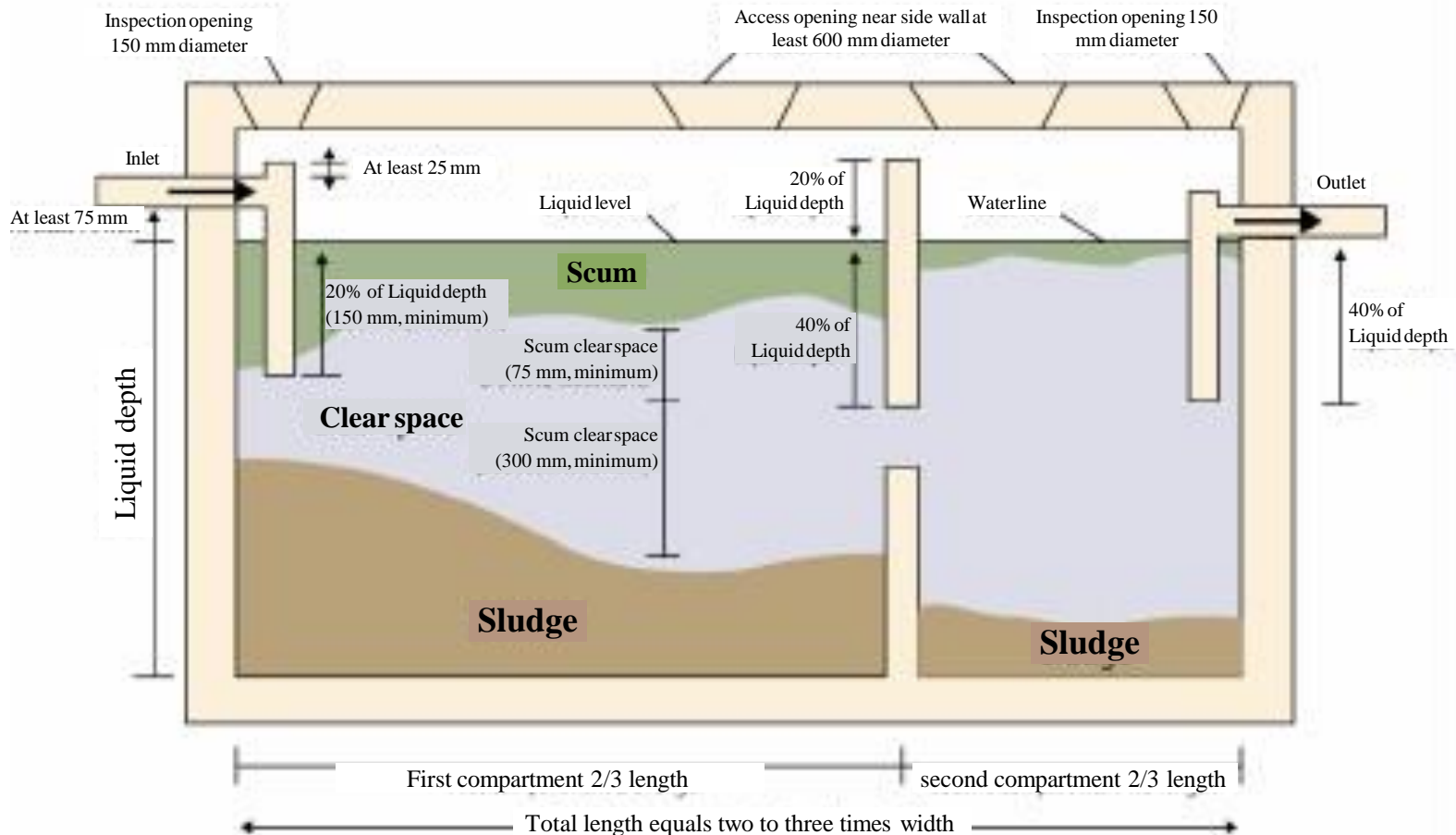
Everyone. Everywhere. On Time Every Time.



Effluents (3/4" solids) are pumped from a distribution box into a mound system or a leach field. Local codes may require this type of system

This is also a typical application for a time-dosing system.

Schematic of conventional septic tank



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Septic
Contractors

Plumbers

Water
Proofers

Excavators

Precasters
& etc.



Effluent Pumps

Everyone. Everywhere. On Time Every Time.

- Most Effluent Pumps for single structures are low head for pumping to Leach Fields
- Effluent Pumps for STEP systems have higher heads in order to pump some distance in the effluent collection system
- As a result, several impeller types are employed:



Vortex

- EHV412 (120V)
- SP33/50/75 (120V)
- EP52/72 (230V)
- Iron



Monovane Enclosed

- STEP ½ & 1 HP
- Glass-Filled Nylon



Dual Vane Semi-Open

- EH ½, 1 & 1.5 HP (Iron)
- BP314 (Bronze)
- SE (Iron)

Barnes Offers a wide variety of Effluent Pumps for multiple applications

Effluent Pumps

Everyone. Everywhere. On Time Every Time.

- All pumps are Oil Filled
 - Better motor heat dissipation
 - (7x better than air filled motors)
 - Oil-lubricated bearings last longer
- Plug-in Power Cords simplify maintenance as the pumps are merely un-plugged before service (EH and STEP pumps only)
- Double seals use Buna diaphragms to pressurize the seal chamber
- Pumps with double seals have two plug-in cords:
 - One for power
 - One for temperature and moisture detector circuits
 - Cords available in 30, 50, 100 Ft



Effluent Pumps

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- 1-1/2" NPT on SP and EP series 2" NPT Discharge Connections on all others
- Standard pumps rated for 104° F liquid in continuous operation
- Hi-Temp pumps are rated 200° F liquid in continuous operation (185° F on SP33HTX)
- CI construction, SS Hardware, Buna o-rings
- Impellers:
 - Cast iron on EH-HT, SE, EHV412, SP and EP models
 - Bronze on BP314/324 (BR and HT) models
 - Polypropylene on EH, BP, STEP models
 - Cast-in feet provide lower clearance than SE
 - Standard seals:
 - Carbon vs Ceramic, standard on all models
 - Silicon Carbide Vs Silicon Carbide available as an upgrade

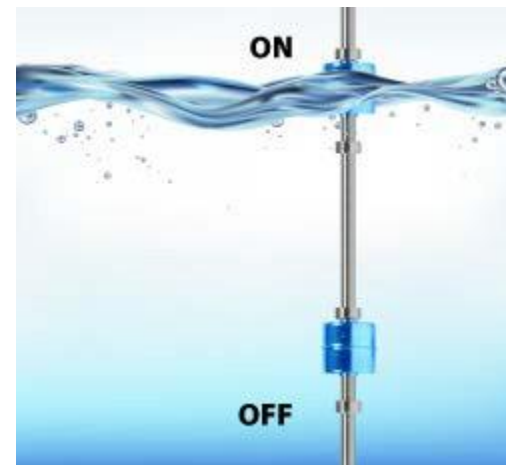


BARNES®

Popular Accessories

Everyone. Everywhere. On Time Every Time.

- A wide range of control panels for pumps without temperature or moisture sensors (i.e. - EP series or single seal pumps)
 - Located in the Barnes Prof. Plumbing Catalog Accessory section
- A completely customizable series of control panels are available
 - Versatrol series located in the Barnes Engineered Catalog Accessories
- The most popular accessory for effluent pumps is a level control!



Model Nomenclature





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- The diagram illustrates the nomenclature for the pump model EH1592DS. Arrows point from descriptive text to specific parts of the model number:
- Pump Model EH** (Green) points to the 'EH' prefix.
 - Motor HP x 10** (Blue) points to the '15'.
 - Voltage / Phase** (Yellow) points to the '9'.
 - Pump Speed** (Red) points to the '2'.
 - Suffixes:** (Purple) points to the 'DS' suffix.
- EH1592DS**
- **Pump Model EH**
 - **Motor HP x 10**
 - **Voltage / Phase**
 - 1 = 115V 1 Phase
 - 2 = 230V 1 Phase
 - 3 = 230V 3 Phase
 - 4 = 460V 3 Phase
 - 5 = 575V 3 Phase
 - 7 = 208-230 1 Phase
 - 9 = 208-230V 3 Phase
 - **Pump Speed**
 - 2 = 3450 RPM
 - 4 = 1750 RPM
 - **Suffixes:**
 - SS or L = Single Seal
 - DS = Double Seal
 - HT = High Temperature

- Marketing brochure
- Competitive comparison brochure
- Catalog Info
- Specifications
- Mentor pump selection

Plumbing
Solutions

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Product Overview

BARNES®
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CRANE PUMPS & SYSTEMS

