

BARNES[®]

by Crane Pumps & Systems, Inc.

ESPS[™]

BARNES[®]
PRESSURE PS SYSTEMS

Design Features

- Pressure switch parts are protected from the basin environment with a Barnes exclusive sealed design.
- Slim, rigid column with NO moving parts. Unit is unaffected by solids, grease build up, or liquid swirling in basin.
- Compatible with standard Barnes Float Tree installations. Mounts easily in current engineered basins with a rail system using a heavy duty slide bracket.
- NO field adjustment required because operating levels are factory preset.
- Barnes exclusive quick connect power cord seals tight and reduces strain.
- Double overflow protection with separate air bells for operating control and high level alarm.
- Self compensating design eliminates the need for external pressure relief tubes or bulky bladders.
- Closed valve protection with an internally mounted high temperature cut off switch.
- Save time and money! No control panel required with the Simplex Automatic Version.

ESPS Operational Features

- Automatic version – Eliminates the need for expensive control panels. Operates at 240v 60Hz, and 220v 50Hz for both domestic and international applications.
- Control panel versions – Will operate with standard 120v or reduced voltages.
- Mounting – The slide bracket allows for quick installation, mounting on either side of the guide rail and foolproof positioning.

The Environmentally Sealed Pressure Switch, or ESPS, is a highly dependable unitized level control designed specifically for use with standardized low pressure sewer packaged systems.



This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,578,657

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Additional Features

- Versatile design available in three versions:
 - Simplex Manual, ESPS 100 Series
 - Duplex Manual, ESPS 200 Series
 - Simplex Automatic, ESPS 150 Series (NO control panel required)
- Barnes exclusive quick connect power cord seals tight and reduces strain.
- Slide bracket allows for quick installation, mounting on either side of the guide rail and foolproof positioning.
- 100% compatible with existing Barnes Float Tree and UltraSWITCH installations.
- Easily factory pre-wired into a new basin package.

ESPS Advantages

- No venting to atmosphere required
- Factory sealed units do not require any field assembly or adjustment
- Corrosion resistant materials are not affected by sewer gases
- No mercury or mercury switches used in the construction
- Slim profile virtually eliminates failure associated with trash and grease build-up

Materials of Construction

- Corrosion resistant CPVC body
- Buna N diaphragms
- Heavy duty cast iron slide mounting bracket, powder coated
- Stainless steel mounting bolts

Electrical Specifications

- Pressure switch(es): 240v 3A 50/60Hz, ESPS 100 & 200 Series
- Solid state relay: 240v 18A 50/60Hz, ESPS 150 Series (Used on Simplex Automatic Version)



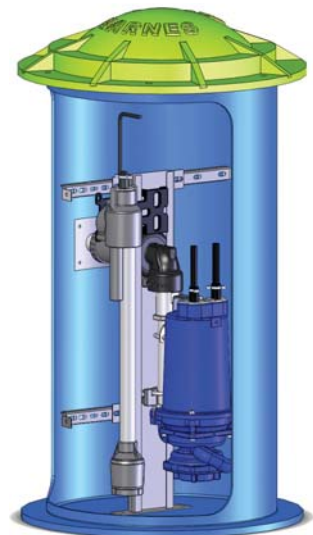
Top View



Bottom View



Quick Connect Power Cord



Mounted with Slide Bracket

CRANE

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PUMPS & SYSTEMS

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Patent Pending



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