



## The Pivotrol® Pump Patented Digital Cycle Counter

### Description

The monitoring of condensate return pump operation is an important activity for plant operations and maintenance personnel. The use of pressure powered pumps equipped with a digital cycle counter provides the ability to monitor pump operation, schedule preventative maintenance and estimate the amount of condensate recovered. The counter may operate in open and some closed loop condensate systems.

### Specifications

Counter	8 Digit LCD display — NEMA 4 X, IP65
Options	BSP Threaded Version (Standard Counter Only)

### Construction Materials

No.	Part	Material
1	Enclosure	Aluminum
2	Gaskets	
3	Housing	Stainless Steel
4	Sealing Nut	Stainless Steel and Teflon®
5	Insulator	
6	Probe	Stainless Steel
7	Plug Receptacle	Stainless Steel
8	Plug	Stainless Steel

### Limiting Operating Conditions

#### External Operating Temperature Range

Counter: 14°F to 122°F (-10°C to 50°C)

#### Maximum Sensor Pressure

PMO: 300 psig / 21 barg

#### Maximum Operating Temperature

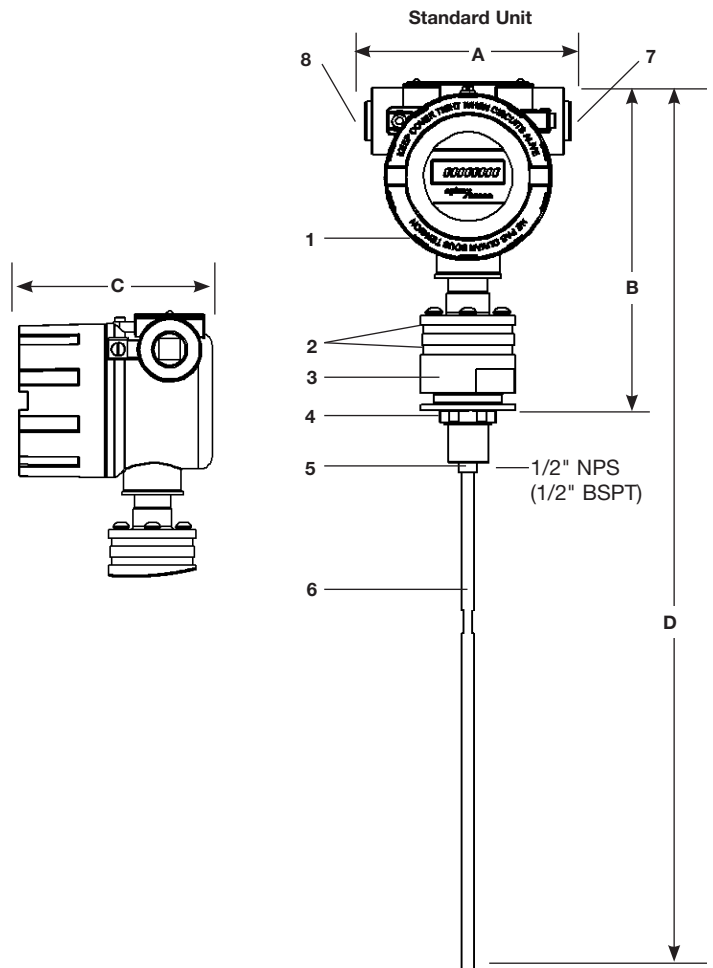
TMO: 500°F / 310°C

### Pump Capacities

Model	Approximate Gallons/Cycle
PTC	7.1 / 26.9L
PTF	8.4 / 31.8L
PTF-HP	16 / 60.6L
PTF4	26.9 / 102L

### Dimensions (approximate) in inches and millimeters

Model	A	A w/Aux	B	C	D	Weight
PTC/PTF	4.4	4.9	7.0	4.4	17.0	5 lb
	112	125	178	112	480	2.3 kg
PTF-HP/	4.4	4.9	7.0	4.4	25.4	5.1 lb
PTF4	112	125	178	112	645	2.3 kg



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## Enclosure Approvals

For FM approved enclosure:

CL I.  
GR. A,B,C,D:  
CL. II. GR. E,F,G;  
CL. III.;

TYPE 4X

For CSA Class I Group A, conduit seal is required within 18 inches.

For FM approved enclosure:  
CL. I, ZONE 1, AEx d IIC, IP66

For IECEX:  
IECEX FMG 06.0003U, Ex d II C, IP68

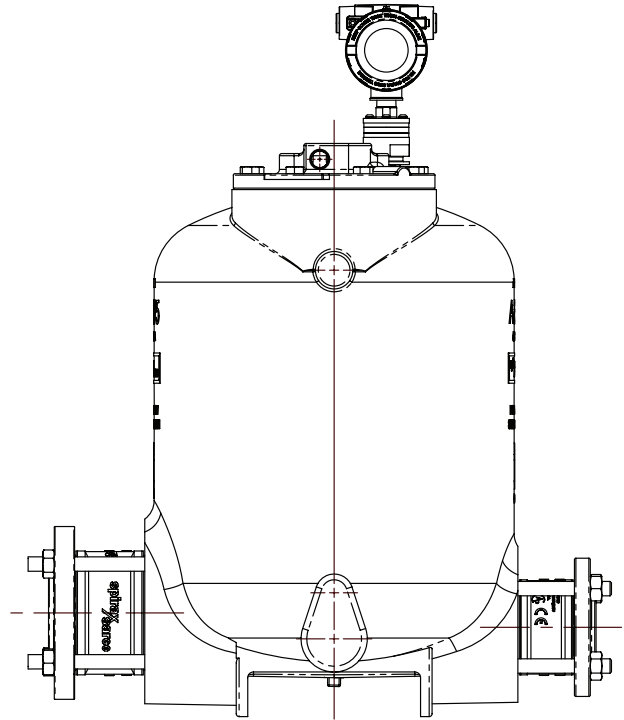
For Ex:  
II 2 GD Ex d II C; IP68; FTZU 04 ATEX 0265 U AMBIENT TEMP.: -  
40°C TO + 85°C (- 40°F TO 185°F)

**Battery is suitable for up to 10 years of uninterrupted operation.**

## Safety and Regulatory Compliance

Seating nut contains Teflon®.

This product is not intended to be submerged.



## Installation (see IM-5-020-US)

1. Place counter in 1/2" NPS (1/2" BSPT) hole in pump cover (only hole available)
2. Orientate counter in desired direction.
3. Screw sealing nut until wrench tight.

**Caution: Before installation or any maintenance is performed, ensure that all steam, condensate, air or gas lines are closed and internal pressure is relieved to prevent injury.**

**Plugs (7) & (8) should not be unscrewed and will void warranty.**

## Orientation (see IM-5-020-US)

The Digital Cycle Counter orientation may be changed from its original position in the Pivotrol cover and mechanism assembly.

**Caution: Before any maintenance is performed, ensure that all steam, condensate, air or gas has been closed and internal pressure is relieved to prevent injury.**

1. Unscrew sealing nut.
2. Twist cycle counter into desired position, ensuring cable remains in place.
3. Tighten sealing nut.

TI-5-020-US 2.16