

# 1103P Series Pressure Switch

## Miniature Pressure Switch

Nega-Rate®Belleville disc spring/diaphragm pressure sensing mechanism. Small size and stainless steel construction is designed for the most hostile vibration, shock and temperature environments.



- Vented gauge switch
- Welded stainless steel construction

## General Specifications

- Set point range from 5 to 105 psig
- Deadband range from 3.5 psi or 15%, whichever is greater, to 45% of the set point
- Proof pressure up to 750 psig
- Pressure capsule all stainless steel, heliarc welded and leak proof to  $1 \times 10^{-9}$  SCC/SEC
- SPDT snap action switch element
- Temperature Range:
  - Ambient -65°F to +275°F (-54°C to +135°C)
  - Media -65°F to +400°F (-54°C to +204°C)
- Vibration capability to 15G's

## Optional Features

- Set point from 1 to 750 psig
- Proof pressure up to 4500 psig
- Dry circuit to 7 amps 28 VDC electrical rating
- DPDT snap action switch element for patented Shunt-Disc®
- Electrical assembly hermetically sealed
- Pressure connector per most military specifications or wire lead
- Operating ambient temperature up to 400°F (204°C)
- Vibration capabilities up to 40G's with a switch element, or 100G's (high frequency) with a patented Shunt-Disc® (Patent No. 3876845)
- Flameproof capability
- Manual reset indicator
- Check-out feature

## Heritage

The Series 1103P is the backbone of the ITT Neo-Dyn switches. It has a long history of usage in both Commercial, Space and Military applications.

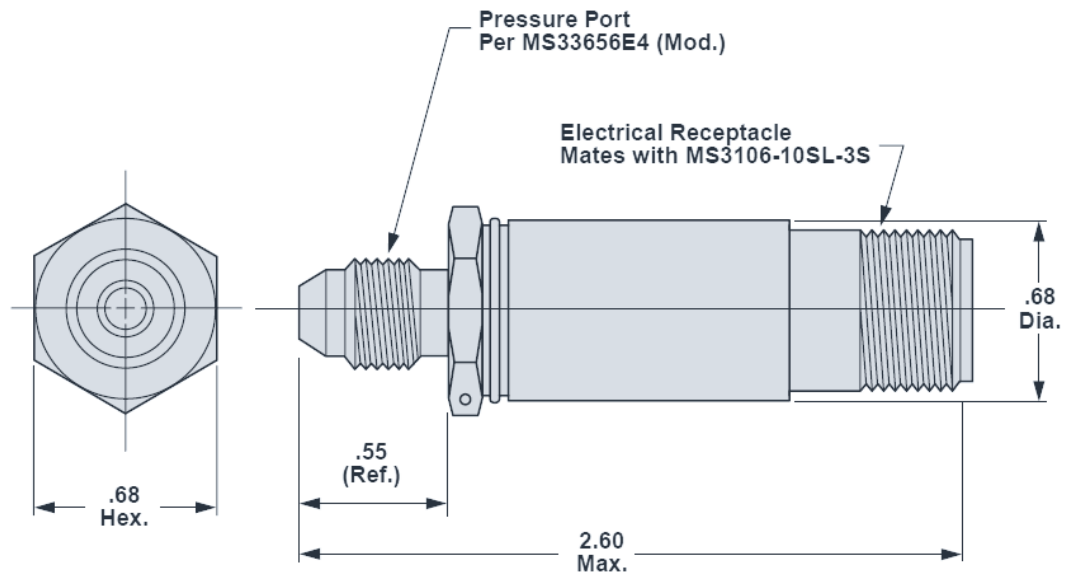


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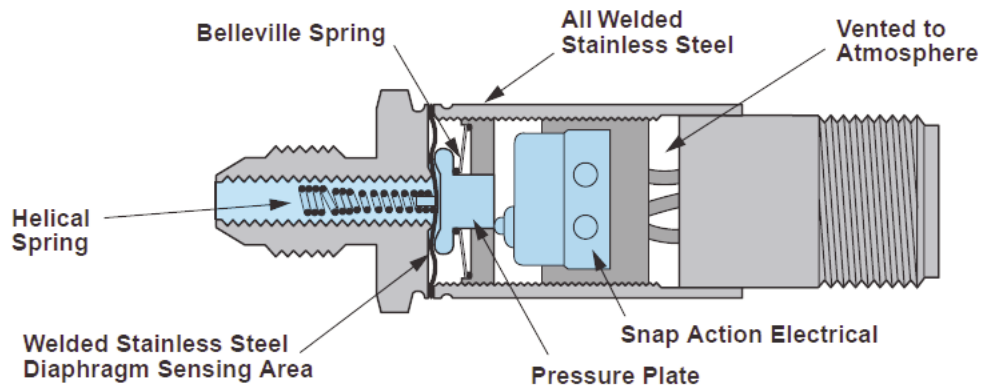
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## Envelope Dimensions



## Basic Principles of Design



**ITT**

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Specifications and dimensions subject to change.