DYNISCO MODELS PT450FA & PT450TA

Low Pressure, Rigid Stem Pressure Transducers

Description

Models PT450FA and PT450TA add low pressure measurement capability to Dynisco's line of high temperature melt pressure transducers. In order to meet a variety of installation requirements, model PT450FA has a flanged stem while model PT450TA has a threaded stem configuration. Both models are ideal for processing low viscosity materials and applications such as fiber spinning and polymer transport lines.

Features

- Accuracy of better than ±0.5%
- Choice of flanged or threaded configurations
- 0 - 25 to 0 - 100 psi
- Internal 80% shunt calibration
- Replacement for traditional "button - seal" units

Benefits

- Improves process optimization
- Easy to install
- Low pressure measurement
- Easy set - up and calibration
- Installs in button - seal holes



Specifications

NEW EXTENDED LIFE COATING

Performance Characteristics

Ranges (psi): 0 - 25, 0 - 50, 0 - 100
Accuracy: ±0.5% FSO
Repeatability: ±0.2% FSO
Mounting torque: *PT450FA:* 100 to 125 inch - lbs. for an adequate seal
PT450TA: 100 inch - lbs. for an adequate seal; 500 inch - lbs. maximum with no zero shift or change in performance

Maximum pressure: 3 x full range
Material in contact with pressure media: 17 - 4 PH stainless steel, DyMax™ coated
Weight: 3 lbs.

Electrical Characteristics

Configuration: Four active arm bonded Wheatstone bridge strain gage
Bridge resistance: *Input:* 350 Ohms ±1%; *Output:* 350 Ohms nominal
Full scale output: 2.0 to 2.2 mV/V
Zero balance: ±15% FSO (in vertical position)

Excitation: 10 Vdc recommended, 12 Vdc maximum
Internal shunt calibration (R-Cal): 80% FSO ±0.5%
Insulation resistance: 1,000 megohms at 50 Vdc

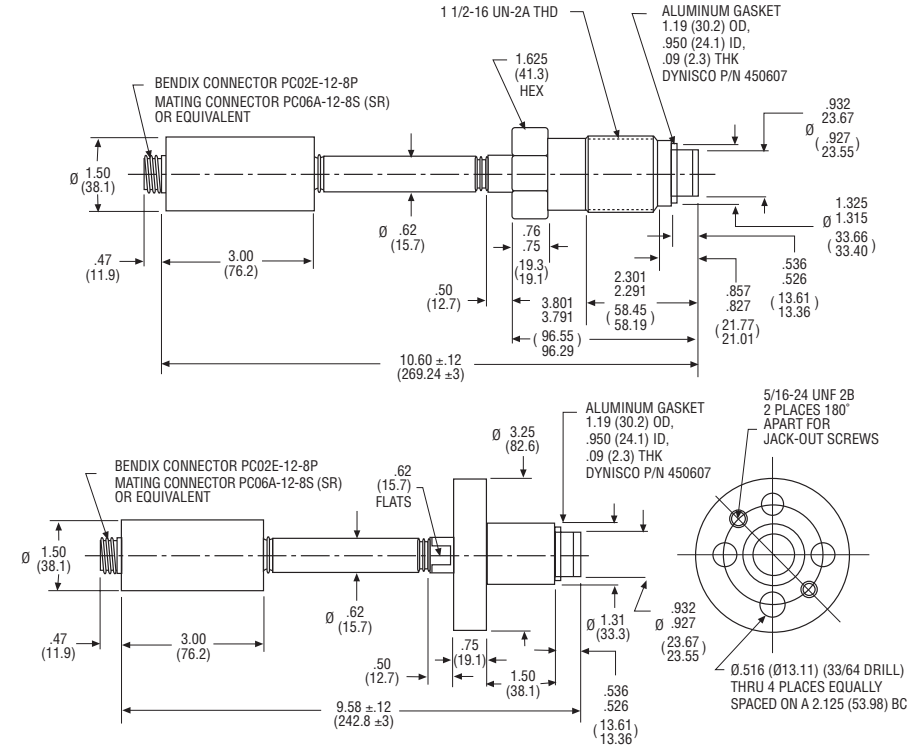
Temperature Characteristics

Transducer diaphragm:
Maximum diaphragm temperature: 600°F (315°C)
Zero shift due to temperature change:
0.5 psi/100°F from 75°F to 450°F;
2 psi/100°F from 450°F to 600°F change

Electronics housing:
Maximum temperature: 250°F (121°C)
Zero shift due to temperature change:
0.01% full scale/°F maximum (0.02% full scale/°C)
Sensitivity shift due to temperature change:
<0.25%/100°F from 75°F to 450°F; <5%/100°F from 450°F to 600°F

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All dimensions are in inches (millimeters) unless otherwise specified

Ordering Guide

Model	Pressure Range (psi)	
	Code	Range
PT450FA (flanged version)	25	0 - 25
PT450TA (threaded version)	50	0 - 50
	1C	0 - 100

Ordering Example: PT450TA - 1C

Note: The PT450 may be used with TA204 remote amplifier to provide a 4 - 20 mA signal. It may also be used with the 1290, ATC770, UPR700 or DPC535 indicators/controllers. Retransmission of a 4 - 20 mA signal is possible with most units.

- Mating connector P/N710700 or 8 - pin cable assembly sold separately. Refer to Accessories and Options Section.
- Transducer Options: Consult factory for available options.