DYNISCO MODELS PT450FA & PT450TA

High Pressure, Flexible Stem Pressure Transducers

Description

Dynisco's PT450 Series offers melt pressure measurement in ranges from 0 - 250 through 0 - 10,000 psi at accuracies down to 0.25% and process temperatures up to 700˚F. For easy installation, the flexible stem transducer is offered in flanged (model PT450FA) and threaded (model PT450TA) versions. Both models are ideal for processing low viscosity materials and applications such as fiber spinning and polymer transport lines.

Features

- Accuracy of better than ±0.25%
- Choice of flanged or threaded configurations
- 0 - 250 to 0 - 10,000 psi
- Withstands processes up to 700˚F
- Internal 80% shunt calibration
- Replacement for traditional "button - seal" units

Benefits

- Improves process optimization
- Easy to install
- Choice of ranges
- Ideal for high temperature processes
- Easy set - up and calibration
- Installs in button - seal holes



Specifications

NEW EXTENDED LIFE COATING

Performance Characteristics

Ranges (psi): 0 - 250, 0 - 500, 0 - 750, 0 - 1,000, 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000
Accuracy: ±0.25% FSO; ±0.75% FSO for 250 psi range
Repeatability: ±0.1% 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
Effect of elevation of strain gage housing above diaphragm: 5 psi/ft.
Weight: 3.5 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: 3.33 mV/V ±2%
Zero balance: ±5% 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

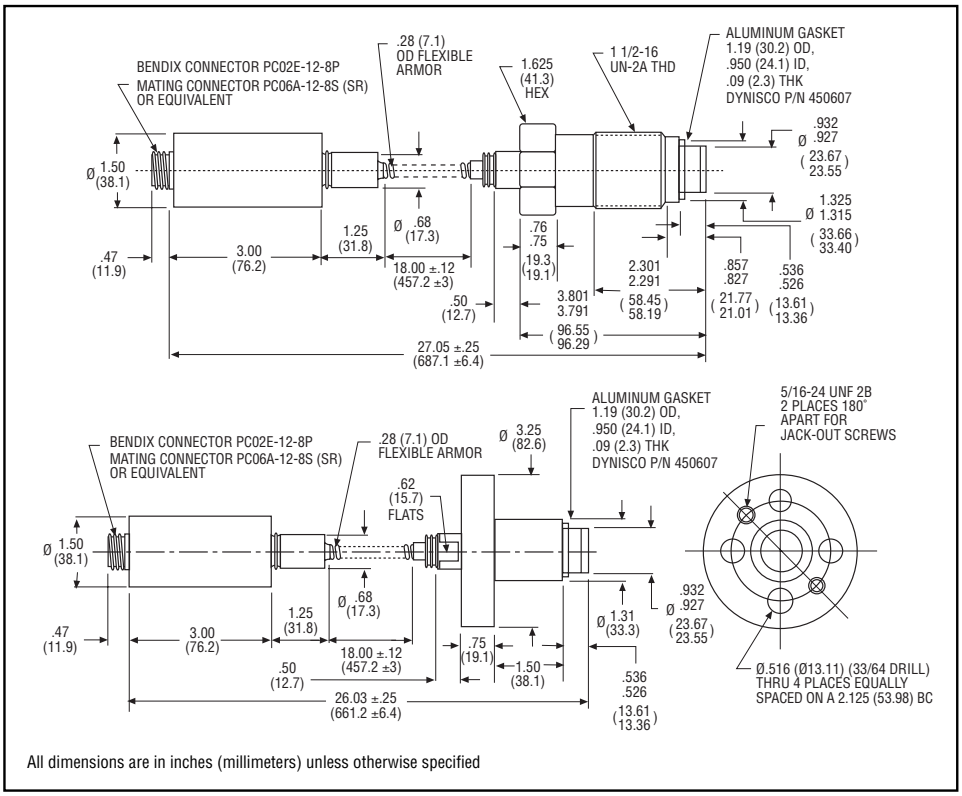
Temperature Characteristics

Transducer diaphragm:
Maximum diaphragm temperature: 750°F (400°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:
0.5 psi/100˚F from 75˚F to 450˚F;
2 psi/100˚F from 450˚F to 600˚F change
Sensitivity shift due to temperature change:
0.005% full scale/˚F maximum (0.01% full scale/˚C)

DYNISCO MODELS PT450FA & PT450TA

Low Pressure, Flexible Stem Pressure Transducers



All dimensions are in inches (millimeters) unless otherwise specified

Ordering Guide

Model	Pressure Range (psi)	
	Code	Range
PT450FA (flanged version) PT450TA (threaded version)	2.5C	0 - 250
	5C	0 - 500
	7.5C	0 - 750
	1M	0 - 1,000
	1.5M	0 - 1,500
	3M	0 - 3,000
	5M	0 - 5,000
	7.5M	0 - 7,500
	10M	0 - 10,000

Ordering Example: PT450TA - 1M

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