

PT 420 | 422 | TPT 432

Pressure Sensors

High Accuracy, Simple Installation,
Repeatability And Reliability



Description

The PT420, PT422 and TPT432 series sensors have an accuracy of $\pm 0.25\%$, which are ideal for sensing melt pressure that requires high accuracy. The sensors have easy installation, repeatability and reliability. These methods allow the transmission of a 3.33 mV / V signal that is designed to work with most pressure indicators. The sensors are standard with an 8-pin Bendix connector. Optional thermocouples or RTD configurations are also available for sensing melt temperature and pressure at a single point. The sensors are equipped with a 1 / 2-20-UNF thread for mounting in standard mounting holes and can be supplied with a number of other electrical connections.

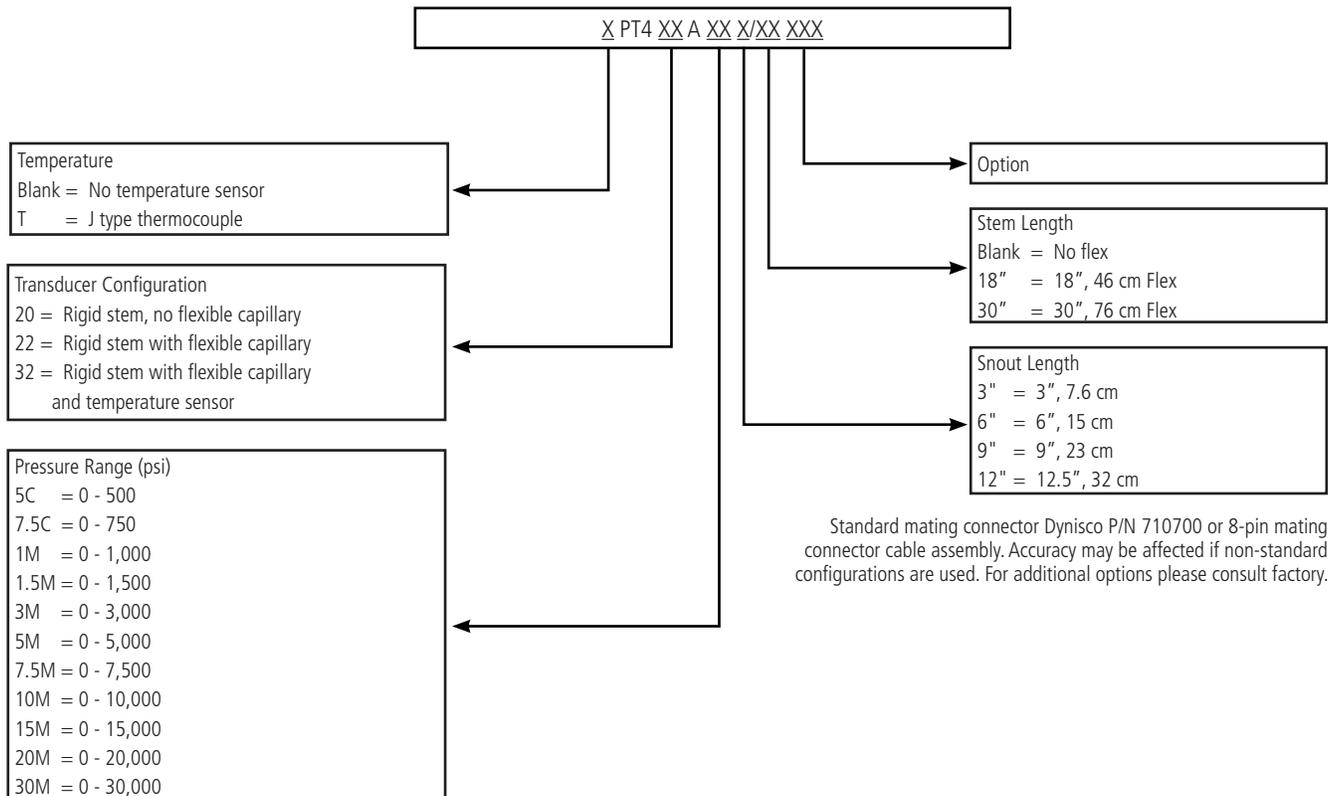
Features

- Accuracy better than $\pm 0.25\%$
- DyMax® coated stainless steel wetted parts
- Proven sensor design
- Excellent thermal stability and repeatability
- 0 - 500 to 0 -30,000 psi
- Internal 80% shunt calibration

Performance Characteristics	
Outputs:	3.33 mV/V \pm 2.0%
Input Voltage:	10 Vdc recommended, 12 Vdc maximum
Combined Error:	\pm 0.25% FSO, (Including Linearity, Repeatability & Hysteresis) \pm 0.5% FSO for 500, 750, 1,000 psi ranges
Repeatability:	\pm 0.1% FSO, \pm 0.2% FSO for 500, 750, 1,000 psi ranges
Configuration:	Four-arm bonded foil Wheatstone bridge strain gage
Bridge Resistance:	Input: 345 Ohms minimum Output: 350 Ohms \pm 10%
Over Pressure:	2X FSO or 35,000 psi, (whichever is less)
Zero Balance Adjustment Range:	\pm 5% FSO
Insulation Resistance:	1000 megohms @ 50 Vdc
Internal Shunt Calibration (R-Cal):	80% FSO \pm 0.5%

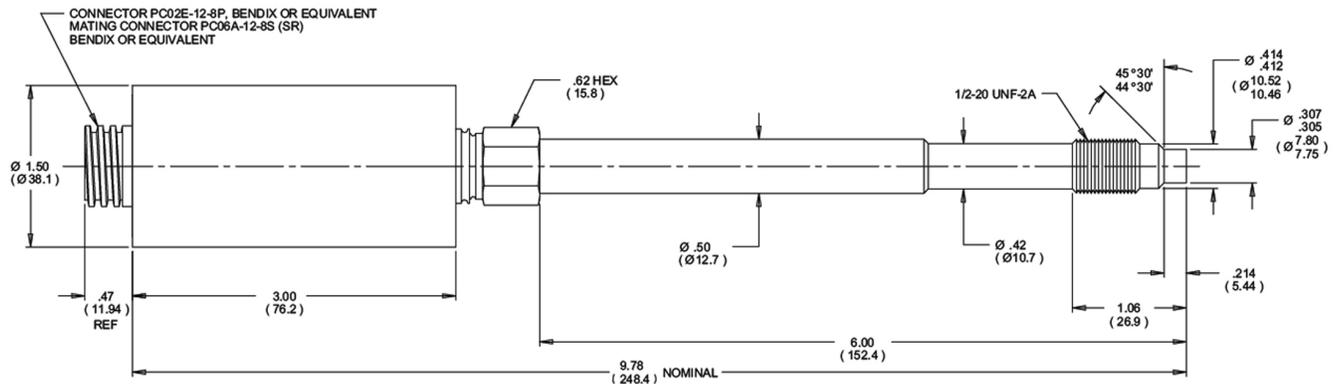
Temperature & Mechanical Characteristics	
Max Diaphragm Temperature:	750°F (400°C)
Zero Shift (due to temperature change):	15 psi/100°F Typical (27 psi/100°C)
Electronics Operating Temperature:	250°F (121°C)
Zero Shift (due to temperature change):	\pm 0.01% FS/°F max (\pm 0.02% FS/°C max)
Span Shift (due to temperature change):	\pm 0.005% FS/°F max (\pm 0.01% FS/°C max)
Mounting Torque:	500 inch/lbs. max
Standard Wetted Parts:	Dymax® coated 15-5 PH SST

Ordering Guide for PT420 Series

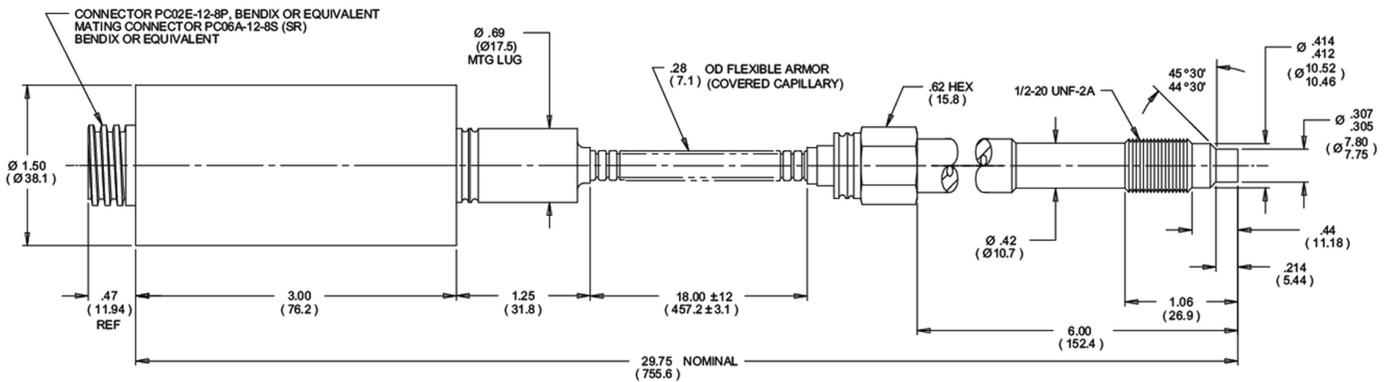


Dimensions

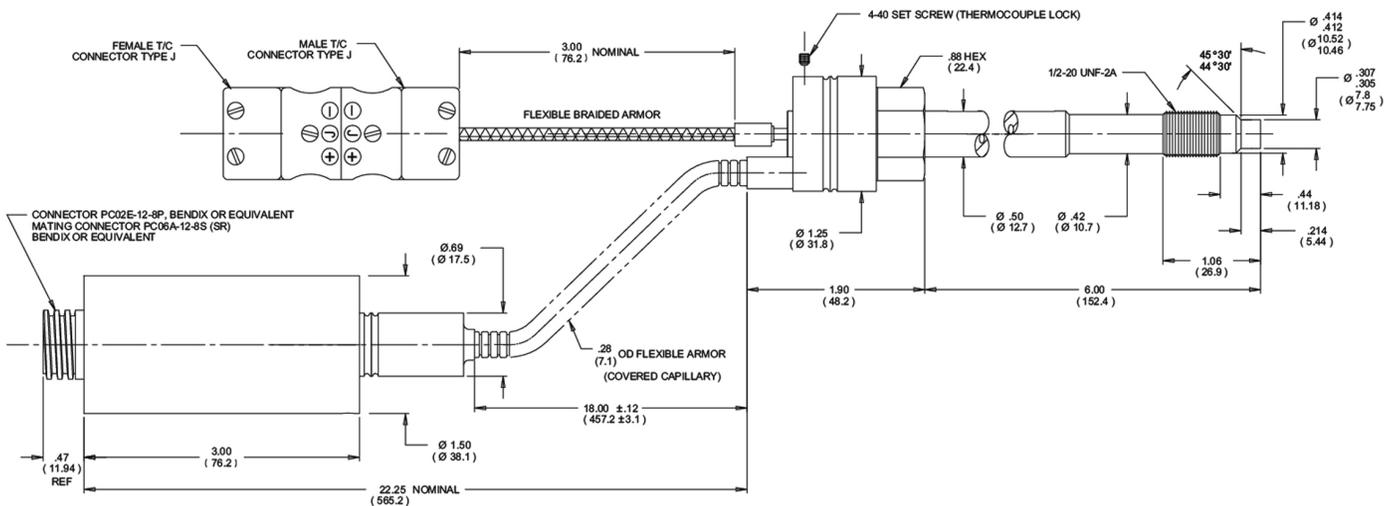
PT420



PT422



TPT435



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