

PT 460 | 462 | TPT 463

Pressure Sensors

*High Accuracy, Simple Installation, Repeatability
And Reliability*



Description

The Dynisco PT420 Series transducer is a $\pm 0.25\%$ sensor ideal for melt pressure applications requiring high accuracy, simple installation, repeatability and reliability. The PT460 Series transducer is a $\pm 0.5\%$ sensor ideal for melt pressure applications requiring simple installation, repeatability and reliability. The PT420 and PT460 transducers provide the industry standard 3.33 mV/V signal designed to work with most pressure indicators. The PT comes equipped with an eight pin Bendix connector. The PT460 comes equipped with a six pin bendix connector. Optional thermocouple or RTD configurations are available to provide melt temperature. The PT420 and PT460 features a 1/2-20 UNF thread for installation in standard transducer mounting holes and can be supplied with a variety of other electrical connections if desired.

Features

- Accuracy better than $\pm 0.25\%$ - $\pm 0.5\%$
- 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

Pressure Range:	0-17 bar to 0-2000 bar
Accuracy:	PT420 $\pm 0.5\%$ f.s.v. (up to 50 bar $\pm 1\%$ f.s.v.); PT460 $\pm 1\%$ f.s.v.
Repeatability:	PT420 $\pm 0.1\%$ f.s.v. (up to 50 bar $\pm 0.2\%$ f.s.v.); PT460 $\pm 0.2\%$ f.s.v.
Resolution:	Infinte
Maximum Overload (without influencing operating data):	2x pressure range for range 1000 and 1400 bar max. 1750 bar and max. 2400 bar for range 2000 bar
Burst Pressure:	6x pressure range max. 3000 bar
Material in Contact with Media:	15-5 PH SST (Mat. No. 1.4545) DyMax [®] coated

ACCESSORIES

Cleaning Tool Kit, Machining Tool Kit, Indicator 1490, Process Readout UPR900, Process Controller ATC990. For additional options please contact the factory.

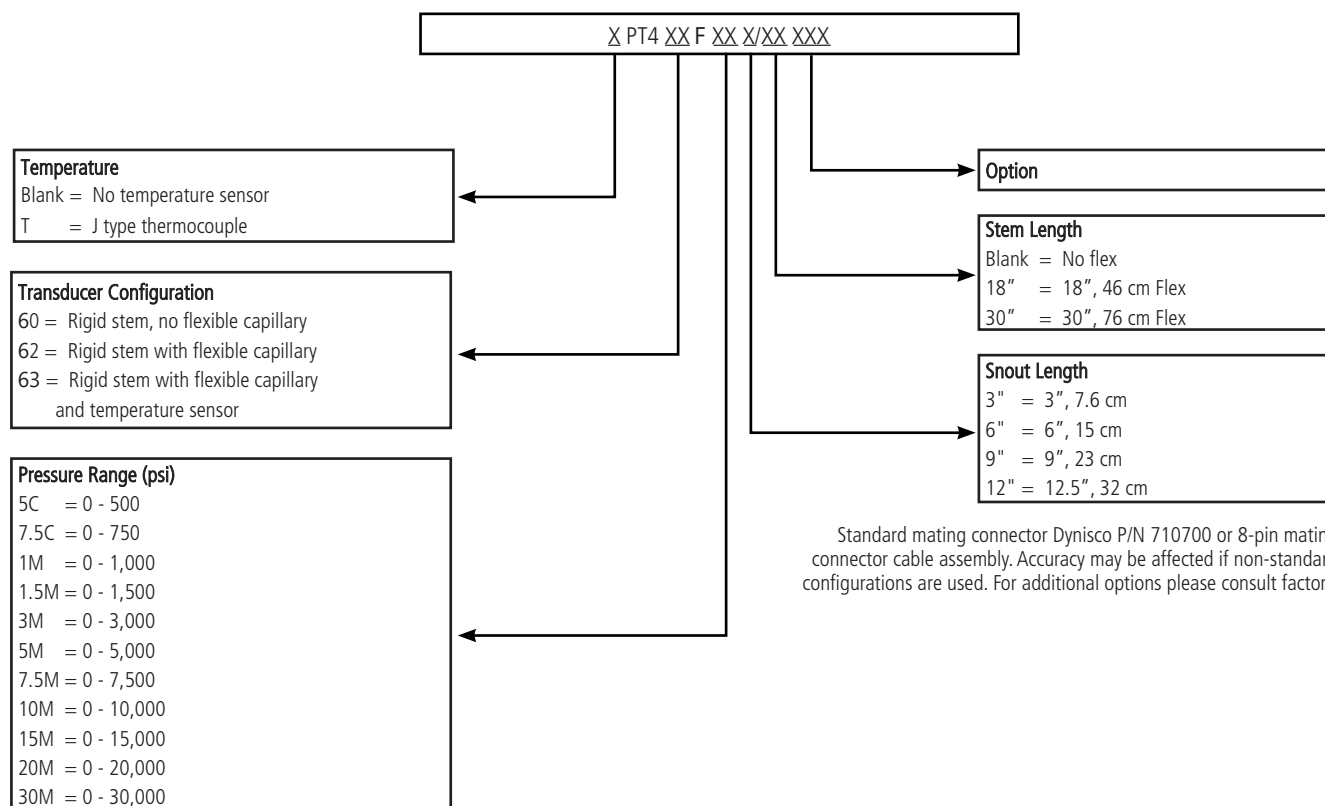
Temperature Influence

Diaphragm	
Max. Temperature:	400°C
Zero Shift Due to Temperature Change:	PT420 < 0.2 bar / 10°C PT460 < 0.4 bar / 10°C
Housing	
Max. Temperature:	120°C
Zero Shift Due to Temperature Change:	PT420 $\pm 0.2\%$ f.s.v./10°C PT460 $\pm 1.0\%$ f.s.v./10°C
Sensitivity Shift Due to Temperature Change:	PT420 $\pm 0.1\%$ f.s.v./10°C (up to 50 bar $\pm 0.2\%$ f.s.v./10°C); PT460 $\pm 0.4\%$ f.s.v./10°C

Electrical Characteristics

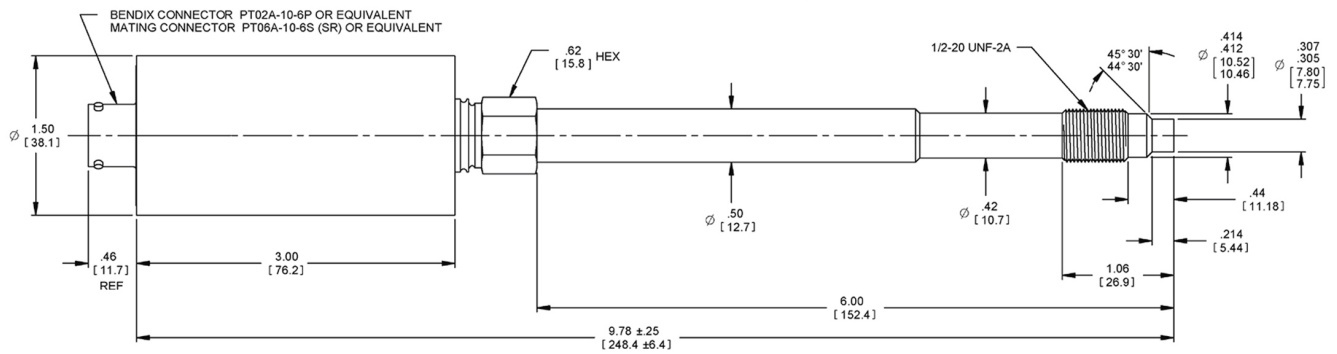
Configuration:	4-arm Wheatstone bridge strain gage
Internal Shunt Calibration:	80% f.s.v $\pm 0.5\%$ PT420 $\pm 1.0\%$ PT460
Output Signal:	3.33 mV/V
Supply Voltage:	10 V DC, max. 12 V DC
Zero Balance:	$\pm 5\%$ f.s.v PT420 $\pm 10\%$ f.s.v PT460
Strain Resistance:	350Ω
Leakage Resistance:	1000MΩ at 50 Vdc

Ordering Guide for PT 460 | 462 | TPT 463

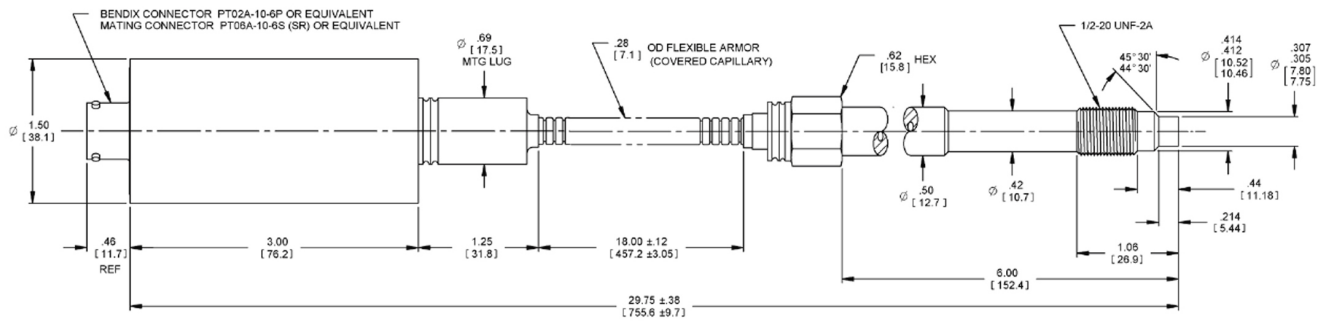


PT460

Dimensions



PT462



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