

MDA 420 | 422 | TDA 432 Pressure Sensors

*HIGH ACCURACY, SIMPLE INSTALLATION, REPEATABILITY AND
RELIABILITY*

Description

MDA 420 Series Sensors 422 | TDA 432 are sensors with $\pm 0.50\%$ accuracy that are ideal for applications requiring accuracy, easy installation, repeatability and reliability. This entire range of sensors provides an industry standard with a 3.33 mV / V output signal designed to work with most pressure indicators and regulators. MDA 42x sensors are equipped with a 6-pin Bendix connector.

The sensors can also be equipped with a temperature thermocouple or RTD. The designation of such a sensor changes to TDA. The sensors are threaded 1 / 2-20 UNF for installation in standard mounting holes or M18x1.5 and can be supplied with a range of electrical connections if required.

Features

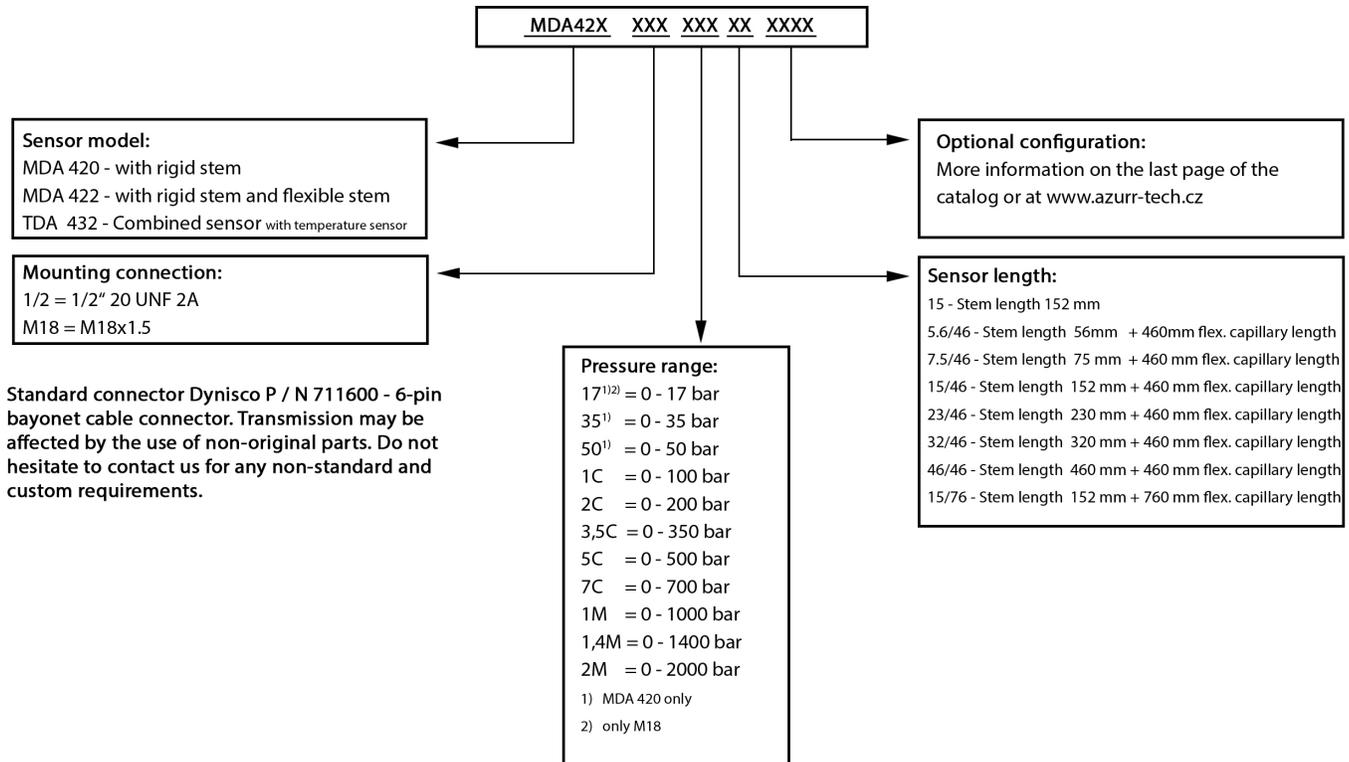
- Accuracy better than $\pm 0.25\%$
- DyMax® coated stainless steel wetted parts
- Proven sensor design
- Excellent thermal stability and repeatability
- 0 - 500 to 0 -30,000 psi
- Internal 80% shunt calibration



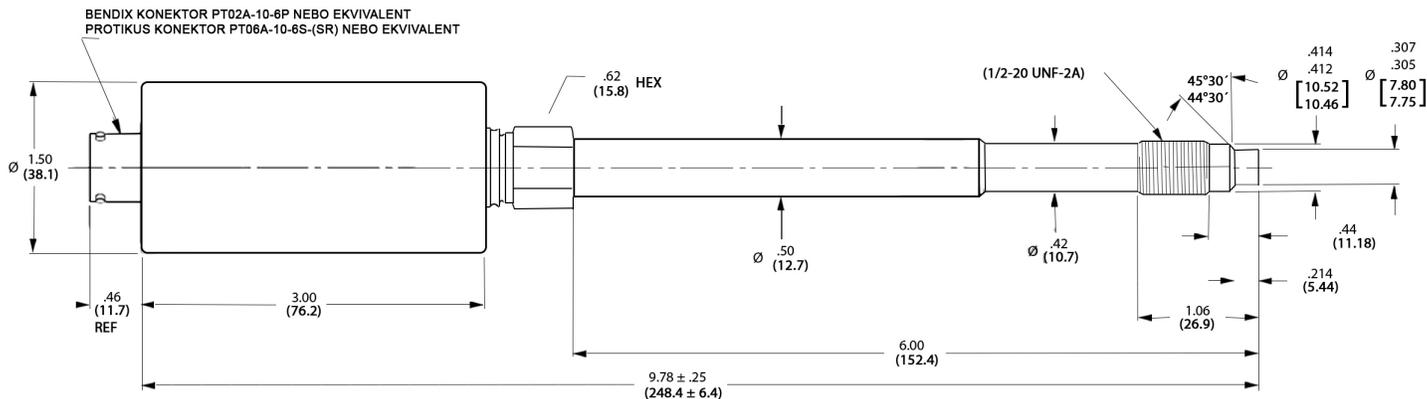
Performance Characteristics	
Pressure Range:	0-17 bar to 0-2000 bar
Accuracy:	MDA420 ±0.5% f.s.v. (up to 50 bar ±1% f.s.v.);
Repeatability:	MDA420 ±0.1% f.s.v. (up to 50 bar ±0.2% f.s.v.);
Resolution:	Infnite
Maximum Overload (without influencing operating data):	2x pressure range for range 1000 and 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

Temperature Influence	
Diaphragm	
Max. Temperature:	400°C
Zero Shift Due to Temperature Change:	MDA420 <0.2 bar / 10°C
Housing	
Max. Temperature:	120°C
Zero Shift Due to Temperature Change:	MDA420 ±0.2% f.s.v./10°C
Sensitivity Shift Due to Temperature Change:	MDA420 ±0.1% f.s.v./10°C (up to 50 bar ±0.2% f.s.v./10°C);
Electrical Characteristics	
Configuration:	4-arm Wheatstone bridge strain gage
Internal Shunt Calibration:	80% f.s.v ±0.5% MDA420
Output Signal:	3.33 mV/V
Supply Voltage:	10 V DC, max. 12 V DC
Zero Balance:	±5% f.s.v MDA420
Strain Resistance:	350Ω
Leakage Resistance:	1000MΩ at 50 Vdc

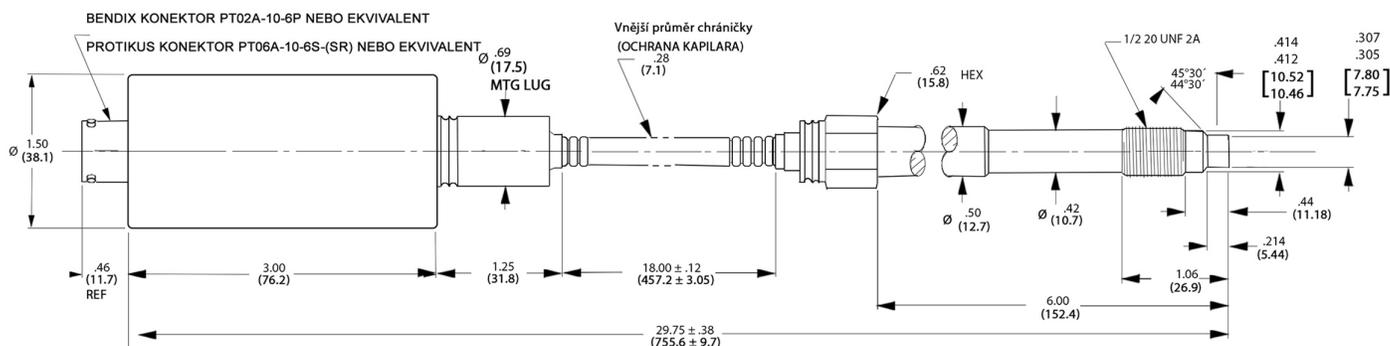
Ordering Guide for MDA420



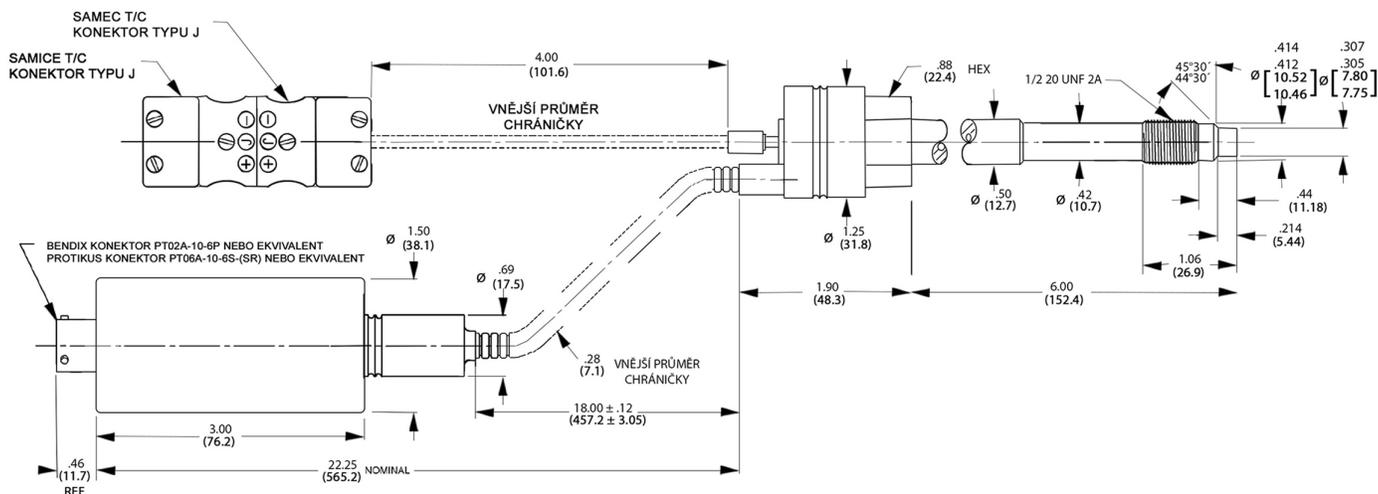
MDA420



MDA 422



TDA 432



9001:2015



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Rev:1216