



MDA410 Pressure Sensors

IDEAL CHOICE FOR NON-MERCURY, FOOD AND MEDICAL EXTRUSION APPLICATIONS



Description

Dynisco's MDA410 Series of pressure transducers are the ideal choice for non-mercury, food and medical extrusion applications requiring a fill material that meets FDA and USDA requirements. Model MDA410 uses a special high temperature fill (NaK, Potassium Sodium) and an Inconel diaphragm to allow accurate pressure measurements in processes with temperatures as high as 1000°F. The transducers are supplied with a high accuracy (0.25%), great repeatability and reliability. An 6-pin bendix-style connector is used for easy connect and disconnect. The MDA410 is the most commonly used alternate fill melt pressure transducer in the world.

Features

- 3.33 mV/V full scale output
- Accuracy of better than $\pm 0.25\%$
- Pressure ranges from 0 35 BAR to 0 700 BAR
- Handles temperatures up to 1000°F
- Superior thermal compensation
- Inconel diaphragm
- Internal 80% shunt calibration
- CE Approved

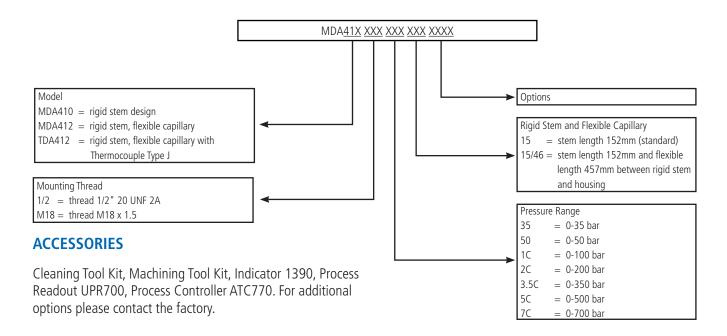
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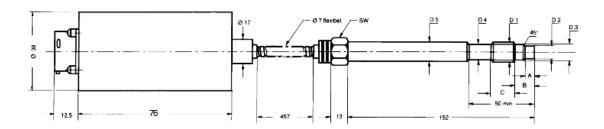
Tanksiani Data and Once	odina Data						
Technical Data and Operating Data							
Pressure Range:	0 - 35 bar to 0 - 700 bar						
Temperature Measurement:	Thermocouple Type J (TDA412)						
Accuracy:	±0.5% f.s.v. up to 50 bar ±1% f.s.v.						
Repeatability:	±0.1% f.s.v. up to 50 bar ±0.2% f.s.v.						
Resolution:	infinite						
Maximum Overload (without influencing operating data):	2 x pressure range						
Burst Pressure:	6 x pressure range max. 3000 bar						
Material in Contact with Media:	Inconel 718						
Electrical Characteristics							
Configuration:	Four-arm Wheatstone bridge strain gage (DMS)						
Strain Resistance:	350Ω						
Output Signal:	3.33 mV/V ±2%						
Zero Balance:	±5% f.s.v. adjustable						
Supply Voltage:	10 V DC, max. 12 V DC						
Internal Shunt-Calibration:	80% f.s.v. ±0.5%						
Leakage Resistance:	1000 MΩ at 50 V DC						

Temperature Influence				
Diaphragm:				
Max. Temperature:	540°C			
Zero Shift (due to temperature change):	< 0.4 bar/10°C			
Housing:				
Max. Temperature:	120°C			
Zero Shift (due to temperature change):	±0.2% f.s.v./10°C			
Sensitivity Shift (due to temperature change):	±0.1% f.s.v./10°C up to 50 bar ±0.2% f.s.v./10°C			

Ordering Guide for MDA410 Pressure Sensors



Dimensions



D1	D2	D3	D4	D5	Α	В	С	SW
1/2"-20UNF-2A	7,8 ^{-0,05}	10,5 ^{-0,05}	11 ^{-0,5}	12,5	5,3 ^{+0,25}	11	16	16
M18 x 1,5	10 ^{-0,05}	16 ^{-0,1}	16 ^{-0,5}	18	6 ^{-0,25}	14	20	19

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All dimensions are inches (mm) unless otherwise specified.