

From lab to production, providing a window into the process

MDA420 and MDA460 Pressure Sensors

HIGH ACCURACY, SIMPLE INSTALLATION, REPEATABILITY AND RELIABILITY



Description

Verification

The Dynisco MDA420 Series transducer is a $\pm 0.25\%$ sensor ideal for melt pressure applications requiring high accuracy, simple installation, repeatability and reliability. The MDA460 Series transducer is a $\pm 0.5\%$ sensor ideal for melt pressure applications requiring simple installation, repeatability and reliability. The MDA420 and MDA460 transducers provide the industry standard 3.33 mV/V signal designed to work with most pressure indicators. The MDA420 comes equipped with an eight pin Bendix connector. The MDA460 comes equipped with a six pin bendix connector. Optional thermocouple or RTD configurations are available to provide melt temperature. The MDA420 and MDA460 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.

Profitability

Material Analysis

Sustainability

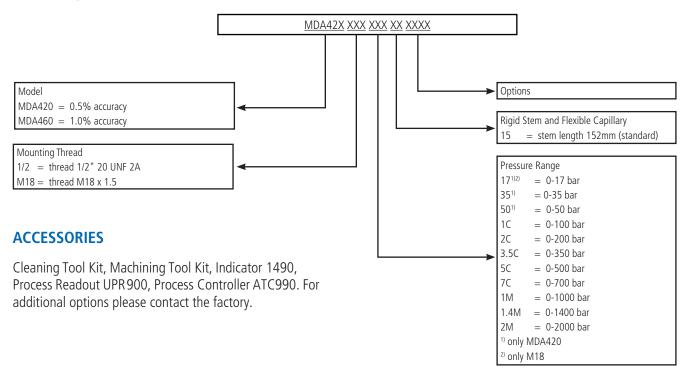
Features

- 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

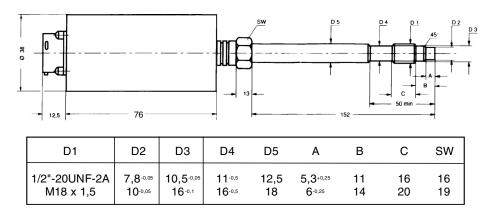
Performance Characteristics		Temperature Influ	
Pressure Range:	0-17 bar to 0-2000 bar	Diaphragm	
Accuracy:	MDA420 \pm 0.5% f.s.v. (up to 50 bar \pm 1% f.s.v.); MDA460 \pm 1% f.s.v.	Max. Temperature: Zero Shift Due to Temperature Change:	
Repeatability:	MDA420 ±0.1% f.s.v. (up to 50 bar ±0.2% f.s.v.); MDA460 ±0.2% f.s.v.	Housing Max. Temperature:	
Resolution:	Infnite	Zero Shift Due to Temperature Change:	
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	Sensitivity Shift Due to Temperature Change:	
Burst Pressure:	6x pressure range max. 3000 bar	Electrical Charact	
Material in Contact with Media:	15-5 PH SST (Mat. No. 1.4545) DyMax [®] coated	Internal Shunt Calibrat	

Temperature Influence		
Diaphragm		
Max. Temperature:	400°C	
Zero Shift Due to	MDA420 <0.2 bar / 10°C	
Temperature Change:	MDA460 < 0.4 bar / 10°C	
Housing		
Max. Temperature:	120°C	
Zero Shift Due to	MDA420 ±0.2% f.s.v./10°C	
Temperature Change:	MDA460 ±1.0% f.s.v./10°C	
Sensitivity Shift Due to Temperature Change:	MDA420 ±0.1% f.s.v./10°C	
	(up to 50 bar $\pm 0.2\%$ f.s.v./10°C);	
	MDA460 ±0.4% f.s.v./10°C	
Electrical Characteristics		
Configuration:	4-arm Wheatstone	
	bridge strain gage	
Internal Shunt Calibration:	80% f.s.v ±0.5% MDA420	
	±1.0% MDA460	
Output Signal:	3.33 mV/V	
Supply Voltage:	10 V DC, max. 12 V DC	
Zero Balance:	±5% f.s.v MDA420	
	±10% f.s.v MDA460	
Strain Resistance:	350Ω	
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Ordering Guide for MDA420 and MDA460 Pressure Sensors



Dimensions



All dimensions are inches (mm) unless otherwise specified.

All dimensions are inches (mm) unless otherwise specified. ©2016. Dynisco reserves the right to make changes without notice. Refer to www.dynisco.com for access to Operator Manual and other support documentation. DSMDA204060 CC Rev: 0717



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