

MDA420 and MDA460 Pressure Sensors

HIGH ACCURACY, SIMPLE INSTALLATION, REPEATABILITY AND RELIABILITY



Description

The Dynisco MDA420 Series transducer is a ±0.25% sensor ideal for melt pressure applications requiring high accuracy, simple installation, repeatability and reliability. The MDA460 Series transducer is a ±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.

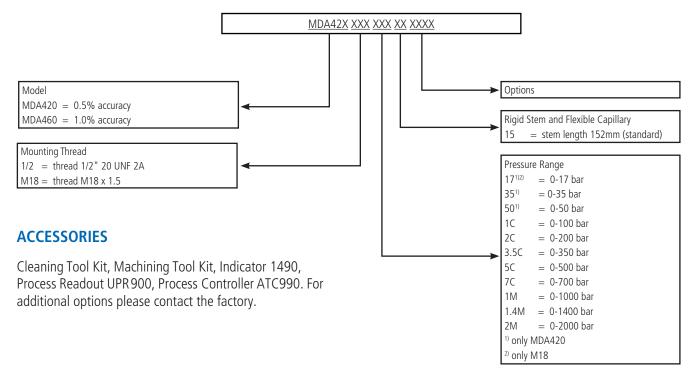
Features

- 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

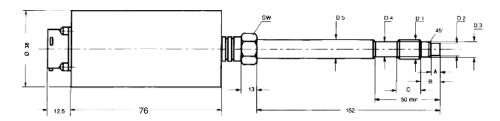
Performance Characteristics						
Pressure Range:	0-17 bar to 0-2000 bar					
Accuracy:	MDA420 ±0.5% f.s.v. (up to 50 bar ±1% f.s.v.); MDA460 ±1% f.s.v.					
Repeatability:	MDA420 ±0.1% f.s.v. (up to 50 bar ±0.2% f.s.v.); MDA460 ±0.2% f.s.v.					
Resolution:	Infnite					
Maximum Overload (without influencing 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	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	MDA420 ±0.1% f.s.v./10°C					
Temperature Change:	(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					
Configuration.	bridge strain gage					
Internal Shunt Calibration:	80% f.s.v ±0.5% MDA420					
micrital oriant oanstation.	±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					
Zero Dalance.	±10% f.s.v MDA460					
Strain Resistance:	350Ω					
Leakage Resistance:	1000MΩ at 50 Vdc					

Ordering Guide for MDA420 and MDA460 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

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.

DSMDA420460

www.dynisco.com

Dynisco

38 Forge Parkway Franklin, MA 02038 USA Hotline 1-800-Dynisco www.dynisco.com Phone +1 508 541 9400 Fax +1 508 541 6206

Email infoinst@dynisco.com

Dynisco Europe, GmbH

Pfaffemstr. 21 Phone +49 7131 297 0 74078 Hellbronn Fax +49 7131 297 166 Germany Email dyniscoeurope@dynisco.com Dynisco Shanghai

Building 7A, No. 568 Longpan Rd Malu Jiading, 201801 China Phone +86 21 34074072-819
Toll Free +86 400 728 9117
Fax +86 21 34074025