

MDA420 and MDA460 Pressure Sensors

HIGH ACCURACY, SIMPLE INSTALLATION, REPEATABILITY AND RELIABILITY



Description

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.

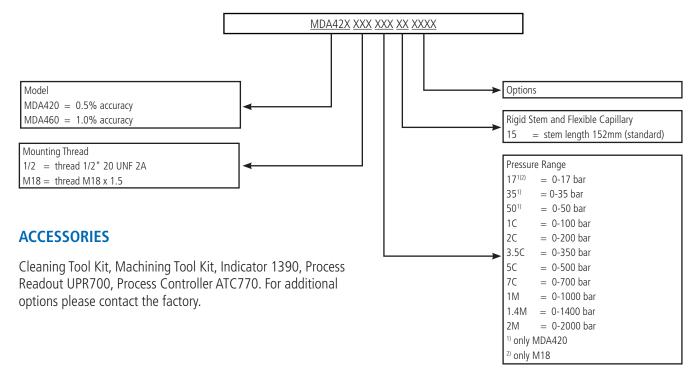
Features

- 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

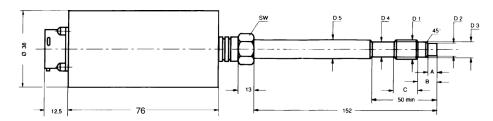
Performance Characteristics						
Pressure Range:	0-17 bar to 0-2000 bar					
Accuracy:	MDA420 ±0.5% f.s.v. (up to 50 bar ±1% f.s.v.); MDA460 ±1% f.s.v.					
Repeatability:	MDA420 ±0.1% f.s.v. (up to 50 bar ±0.2% f.s.v.); MDA460 ±0.2% f.s.v.					
Resolution:	Infnite					
Maximum Overload (without influencing 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					
- Comgaration	bridge strain gage					
Internal Shunt Calibration:	80% f.s.v ±0.5% MDA420					
	±1.0% MDA460					
Output Signal:						
output oignai.	3.33 mV/V					
Supply Voltage:	3.33 mV/V 10 V DC, max. 12 V DC					
Supply Voltage:	10 V DC, max. 12 V DC ±5% f.s.v MDA420					
	10 V DC, max. 12 V DC					
Supply Voltage:	10 V DC, max. 12 V DC ±5% f.s.v MDA420					

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

Rev: 0717

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