



LDA415 Pressure Sensors

WASHDOWN GERMAN NAK FILLED
EXTRUSION PRESSURE TRANSDUCER



Description

Dynisco's LDA415 Series of washdown pressure transducers are the ideal choice for food and medical extrusion measurements requiring washdown capability and a mercury free sensor. Model LDA415 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 538°C. The transducers are supplied with a high accuracy (0.5%), great repeatability and reliability. An 1/2-14 NPT conduit fitting or 6-pin hermetically sealed bendix-style connector is used for easy connect and disconnect.

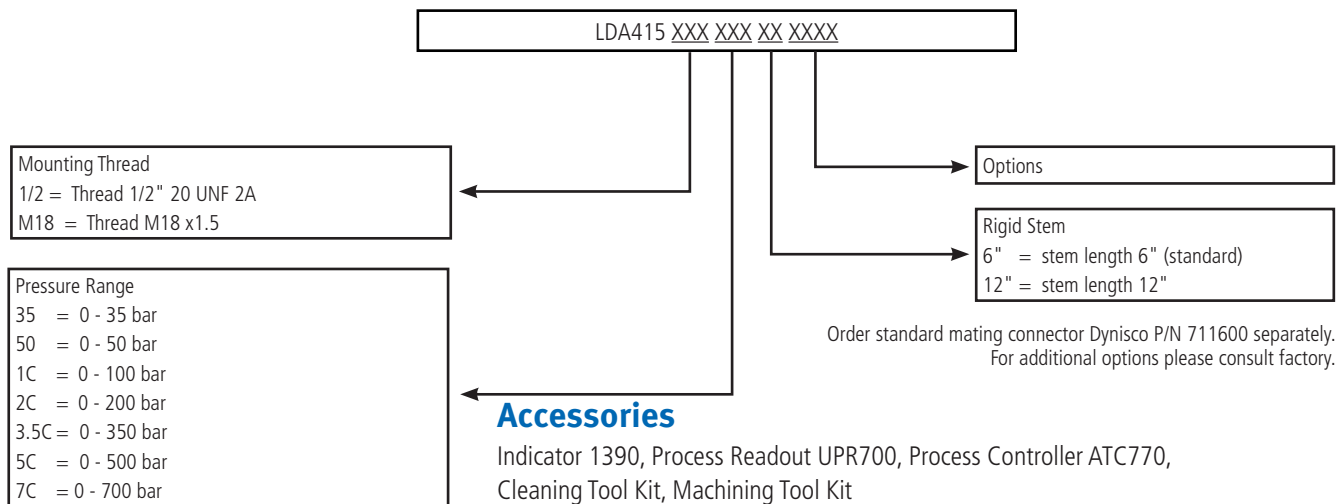
Features

- 3.33 mV/V full scale output
- Accuracy of better than $\pm 0.5\%$
- Pressure ranges from 0 - 35 BAR to 0 - 700 BAR
- Temperature up to 538°C
- All welded stainless steel with washdown capability
- Available with hermetic connector or conduit fitting
- Internal 80% shunt calibration
- CE approved

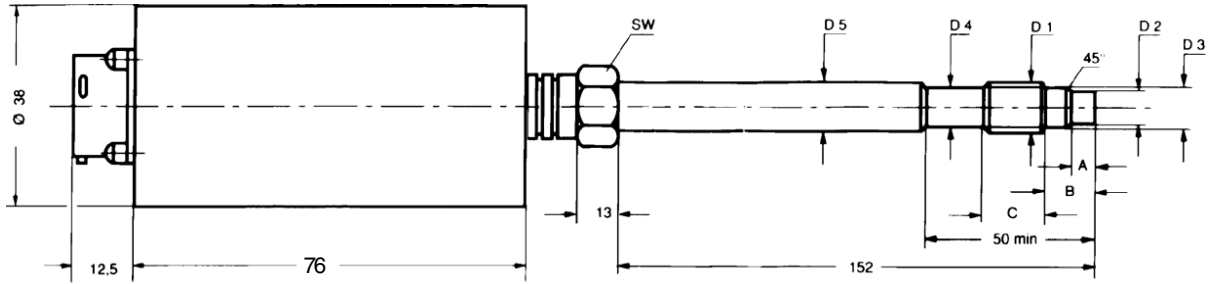
Technical Data and Operating Data	
Pressure Range:	0 - 35 bar to 0 - 700 bar
Accuracy:	± 1% f.s.v.
Repeatability:	± 0.2% f.s.v.
Resolution:	infinite
Maximum Overload (without influencing operating data):	2 x pressure range
Burst Pressure:	6 x pressure range max. 3000 bar
Material in Contact with Media:	15-5 Mat. No. 1.4545, DyMAX coated
Electrical Characteristics	
Configuration:	Four-arm Wheatstone bridge strain gage (DMS)
Strain Resistance:	350Ω
Output Signal:	3.33 mV/V
Zero Balance:	± 5% f.s.v.
Supply Voltage:	10 V DC, max. 12 V DC
Internal Shunt-Calibration:	80% f.s.v. ± 5%
Leakage Resistance:	1000 MΩ at 50 V DC

Temperature Influence	
Diaphragm:	
Max. Temperature:	400°C
Zero Shift (due to temperature change):	< 0.3 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):	± 0.4% f.s.v./10°C

Ordering Guide for LDA415 Pressure Sensors



Dimensions



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

All dimensions are inches (mm) unless otherwise specified.
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 Refer to www.dynisco.com for access to Operator Manual and other support documentation.
 DSLDA415
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