Dynisco

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 ±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

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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:	400ºC
Zero Shift (due to temperature change):	< 0.3 bar/10ºC
Housing:	
Max. Temperature:	120ºC
Zero Shift (due to temperature change):	± 0.2% f.s.v./10ºC
Sensitivity Shift (due to temperature change):	± 0.4% f.s.v./10ºC

Ordering Guide for LDA415 Pressure Sensors

LDA415 XXX XXX XX XXXX

Mounting Thread
1/2 = Thread 1/2" 20 UNF 2A
M18 = Thread M18 x1.5

Pressure Range
35 = 0 - 35 bar
50 = 0 - 50 bar
1C = 0 - 100 bar
2C = 0 - 200 bar
3.5C = 0 - 350 bar
5C = 0 - 500 bar
7C = 0 - 700 bar

Options

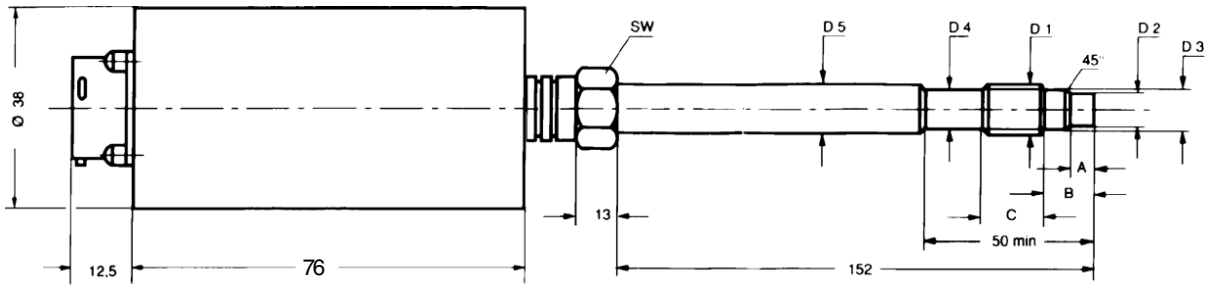
Rigid Stem
6" = stem length 6" (standard)
12" = stem length 12"

Order standard mating connector Dynisco P/N 711600 separately.
For additional options please consult factory.

Accessories

Indicator 1390, Process Readout UPR700, Process Controller ATC770, Cleaning Tool Kit, Machining Tool Kit

Dimensions



D1	D2	D3	D4	D5	A	B	C	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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