

BHTF HIGH TEMPERATURE FILL OPTION

ALTERNATE FILL FOR DYNISCO STANDARD MELT PRESSURE TRANSDUCERS

DESCRIPTION

Dynisco melt pressure sensors with the new high-temperature fill offers an alternative where standard mercury fill is not allowed in processing. This new fill is usable in continuous high-temperature 325°C processes such as polymer production and extrusion, and able to handle peaks of 350°C over short periods.

FEATURES

- Pressure ranges 0-1k to 0-10k psi (0-70 bar to 0-700 bar)
- Series with accuracy 0.5% FSO BFSL
- 3.33mV/V signal output
- 2-, 3-, 4- amplified signal output
- 4-20mA, 1-6/11VDC, 0-5/10VDC
- Internal Shunt Calibration 80% FSO
- Zero and Span adjustment

AVAILABLE ON MODEL NUMBERS:

SPX-2, SPX-3, SPX-4, SPX-5, PT46X4, PT46X5, PT46X6, PT450, PT460, PT420A, PT467E-M10, PT462E-M10, PT460XL, MDA420, MDA460, MDT422

COMMON TECHNICAL DATA FOR TRANSDUCERS WITH OPTION BHTF

Available Pressure Ranges, BAR:

0-70, 0-100, 0-200, 0-350, 0-500, 0-700

Accuracy: 0.5% FSO BFSL

Reproducibility: $\pm 0.2\%$ FS

Overload Capacity: 2 x full range

Recommended Recalibration Cycle: Yearly

Material in Contact with the Medium:

DyMAX coated 15-5 PH stainless steel

Maximum Continuous Diaphragm Temperature: 325°C

Maximum Peak Diaphragm Temperature: 350°C

Zero-Shift from Temp. Fluctuations: ± 45 psi / 100°C

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FILL MATERIAL COMPARISON	New Hg-Free Fill	Food-Grade Oil	NaK	Mercury [Hg]	Vertex [Gen I]
MAXIMUM TEMPERATURE	-20°C [-4°F] to 350°C [662°F]	-20°C (-4°F) to 275°C (527°F)	-10°C (14°F) to 530°C (986°F)	-40°C (-40°F) to 400°C (752°F)	-40°C (-40°F) to 400°C (752°F)
ZERO TEMP. SHIFT PER 100°C	0.3 MPa	0.45 MPa	0.35 MPa	0.2 MPa	2% FS
MINIMUM AVAILABLE PRESSURE	1,000 PSI 7 MPa 70 BAR	1,000 PSI 7 MPa 70 BAR	500 PSI 3.5 MPa 35 BAR	250 PSI 1.75 MPa 17.5 BAR	250 PSI 1.75 MPa 17.5 BAR
MAXIMUM AVAILABLE PRESSURE	10,000 PSI 70 MPa 700 BAR	10,000 PSI 70 MPa 700 BAR	15,000 PSI 100 MPa 1000 BAR	30,000 PSI 200 MPa 2000 BAR	10,000 PSI 70 MPa 700 BAR
HAZARDOUS LOCATIONS	✓	✗	✗	✓	✓
REACH AND ROHS	✓	✓	✓	✗	✓
ATEX CERTIFICATION	IS/Ex D	IS/Ex D	✗	IS/Ex D	IS
FDA APPROVAL	✗	✓	✗	✗	✓
FORM FACTOR	Any	Any	Any	Any	Limited
LINEARITY [BFS], % FULL SCALE	0.5%	0.5%	0.25% - 0.5%	0.25%	0.25%
MAXIMUM SNOT / FLEX LENGTH	100cm	100cm	100cm	175cm	200cm



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Refer to www.dynisco.com for access to Operator Manual and other support documentation.

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