

SANITARY FLUSH DIAPHRAGM PRESSURE TRANSMITTER

MODEL 218 / 318



Model 218 / 318
Sanitary Flush Diaphragm
Pressure Transmitter



FEATURES:

- Flush process diaphragm eliminates process plugging
- Complies with 3A standard 74-06
- Ranges from 0 to 30" WC thru 0 to 1000 PSI (150 mBAR to 59 BAR)
- Rugged, all-welded, 316 stainless steel construction
- Vented cable or quick disconnect option for low range gage reference eliminates water intrusion
- Flush to tank wall installation

APPLICATIONS:

- Food processing
- Dairy and beverage
- Pharmaceutical
- Medical laboratory

PRODUCT OVERVIEW:

GP:50's model 18 series provides a thread on flush process connection that meets 3A sanitary design standards. The NEMA 4X all welded stainless steel provides protection from water ingress and is designed for the extremes associated with food and beverage processing. An optional high temperature version provides reliable operation in CIP processes to +250 °F (+121 °C).

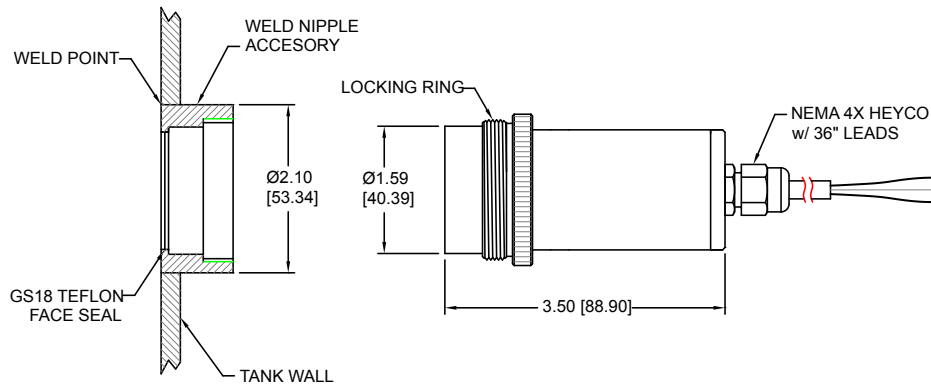
FIELD OPTIONS:

- Zero and span adjustment
- IP-67 NEMA 6
- Expanded process temperature range -65 °F to +250 °F (-54 °C to +121 °C)
- Wide selection of process and electrical mating accessories

GP:50 MODEL 218 / 318

DIMENSIONAL DRAWING

All dimensions are in inches (mm)



STANDARD WIRING

WIRE	MODEL 218	MODEL 318
1/RED	+EXC	+EXC/SIG
2/GRN	+SIG	N/C
3/WHT	N/C	N/C
4/BLK	-EXC/SIG	-EXC/SIG
5/BLU	N/C	N/C
6/BRN	N/C	N/C
SHIELD	OPEN	OPEN

REFERENCE SPECIFICATIONS

ELECTRICAL	STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
<ul style="list-style-type: none"> Supply Voltage: (Model 218) 10.5 to 32 Vdc (Model 318) 9 to 40 Vdc Output Signal (@ 70 °F): (Model 218) 5.0 Vdc ±2% FSO (Model 318) 4-20 mA ±2% FSO Input Current: (Model 218) 8 mA (Model 318) 23 mA max. Load Resistance: (Model 218) 3K Ω min. Circuit Protection: Reverse polarity protected and RFI & EMI protection Connection: 8 foot, 6 conductor, 18 AWG Hytrel jacketed cable. Barometric vent provided where needed on ranges <300 PSI (21 BAR) 	<ul style="list-style-type: none"> ±0.5% FSO, ±0.2% FSO, ±0.1% FSO Zero Balance and FSO: ±2.0% FSO (Horizontal position)
MATERIALS OF CONSTRUCTION	MECHANICAL
<ul style="list-style-type: none"> Wetted Parts: Type 316 stainless steel, Inconel and Hastelloy available (3A 74-06 compliant) rated Housing: 316 stainless steel, NEMA-4X 	<ul style="list-style-type: none"> Process Connection: 1-3/4" - 20 UNF thread to 316 stainless steel weld nipple (weld nipple not included) Proof Pressure: 3X FSO Burst Pressure: 5X FSO Approximate weight: 12 oz. (0.3 kg) nominal
	PRESSURE RANGES
	<ul style="list-style-type: none"> 0 to 30" WC thru 0 to 1K PSI (150 mBAR to 59 BAR)
	THERMAL SPECIFICATIONS
	<ul style="list-style-type: none"> Compensated: 30 °F to +170 °F (-1 °C to +77 °C) Operating Process: 0 °F to +185 °F (-18 °C to +85 °C) Effect on Zero/Span: <±2% FSO/100 °F Orientation Shift: ±1" WC, option GJ or JH is recommended on ranges ≤ 200" WC

**Standard configurations shown.
Please consult factory for other options.**

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.

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