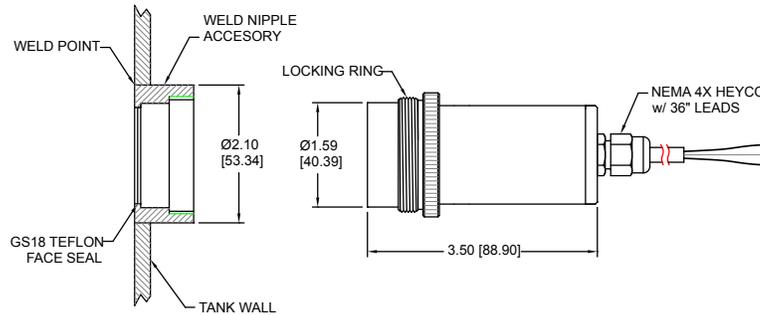


**MODEL 218 / 318**  
**SANITARY FLUSH DIAPHRAGM**  
**PRESSURE TRANSMITTER**



**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      |



**REF DIMENSIONS ONLY.**  
**CONSULT FACTORY FOR ACTUAL DIMENSIONS.**

**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).

**FEATURES:**

- Flush process diaphragm eliminates process plugging
- Complies with 3A standard 74-07
- 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

**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

## REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

| ELECTRICAL          |  |
|---------------------|--|
| Excitation Voltage: | (Model 218) 10.5 to 32 Vdc<br>(Model 318) 9 to 40 Vdc                  |
| Output Signal:      | (Model 218) 5.0 Vdc $\pm 2\%$ FSO<br>(Model 318) 4-20 mA $\pm 2\%$ FSO |
| Input Current:      | (Model 218) 8 mA<br>(Model 318) 23 mA max.                             |
| Load Resistance:    | (Model 218) 3K $\Omega$ min  |
| Circuit Protection: | Reverse polarity protected and RFI & EMI protection                    |

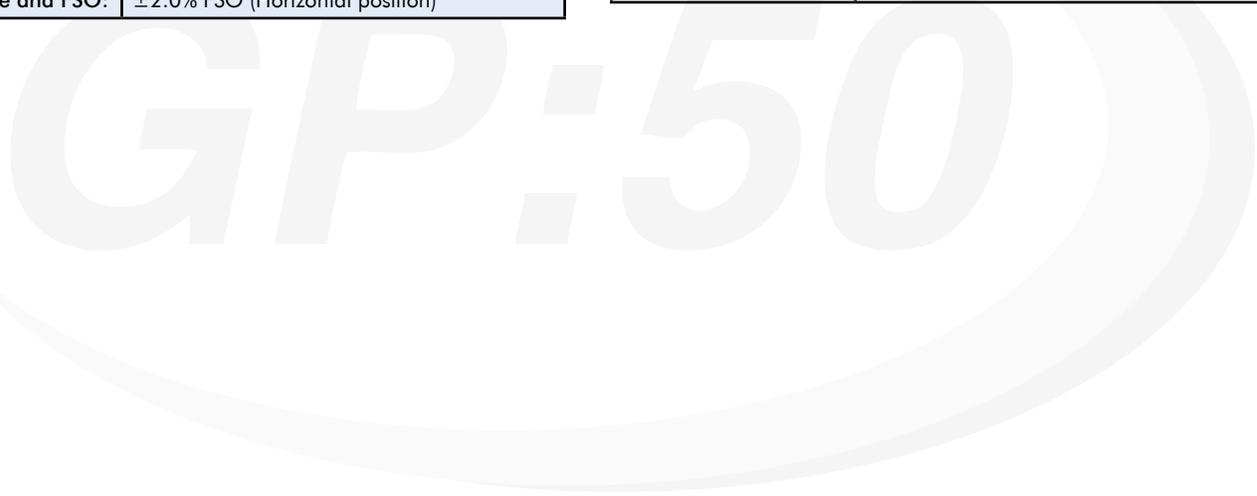
| MATERIALS OF CONSTRUCTION |   |
|---------------------------|---|
| Wetted Parts:             | 316 Stainless Steel, Inconel and Hastelloy available (3A 74-06 compliant) rated |
| Housing:                  | 316 Stainless Steel, NEMA-4X  |

| ACCURACY (BFSL): Non-Linearity @ +70 °F |                                       |
|---|---------------------------------------|
| Standard:                               | $\pm 0.5\%$ FSO                       |
| Improved:                               | $\pm 0.2\%$ FSO, $\pm 0.1\%$ FSO      |
| Zero Balance and FSO:                   | $\pm 2.0\%$ FSO (Horizontal position) |

| MECHANICAL             |  |
|------------------------|--|
| Process Connection:    | 1-3/4" - 20 UNF thread to 316 stainless steel weld nipple (weld nipple not included)           |
| Electrical Connection: | 8 foot, 6 conductor, 18 AWG Hytrel jacketed cable. Barometric vent provided on ranges <300 PSI |
| Proof Pressure:        | 3X FSO   |
| Burst Pressure:        | 5X FSO   |
| Approximate Weight:    | 12 oz. (0.3 kg) nominal  |

| PRESSURE RANGES                                   |  |
|---|--|
| 0 to 30" WC thru 0 to 1K PSI (150 mBAR to 59 BAR) |  |

| THERMAL SPECIFICATIONS |   |
|------------------------|---|
| Operating Range:       | 0 °F to +185 °F (-18 °C to +85 °C)  |
| Compensated Range:     | 30 °F to +170 °F (-1 °C to +77 °C)  |
| Effect on Zero/Span:   | < $\pm 2\%$ FSO/100 °F  |
| Orientation Shift:     | $\pm 1"$ WC, zero and span adjust (option GJ or JH) is recommended on ranges $\leq 200"$ WC |



SANITARY

