MODEL 218 / 318

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
**ELECTRICAL**

- **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)

**MATERIALS OF CONSTRUCTION**

- **Wetted Parts:**
  - Type 316 stainless steel, Inconel and Hastelloy available (3A 74-06 compliant) rated
  - Housing:
    - 316 stainless steel, NEMA-4X

**STATIC ACCURACY (BFSL)**

- ±0.5% FSO, ±0.2% FSO, ±0.1% FSO
- Zero Balance and FSO: ±2.0% FSO (Horizontal position)

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**MECHANICAL**

- **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**

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

**THERMAL SPECIFICATIONS**

- 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

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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.