MODEL 117 / 217 / 317 / 317Z

FEATURES:
- Flush diaphragm eliminates plugging
- Pressure ranges from 0 to 50 thru 0 to 10K PSI (3.4 to 689 BAR)
- Operating temperature range from -20 °F to +250 °F (-29 °C to +121 °C)
- Installs flush to tank wall
- 316L stainless steel wetted parts with optional Hastelloy C alloy alternative

APPLICATIONS:
- Adhesives and sealants
- Paint and oils
- Food processing
- Petrochemical
- Wastewater
- Viscous, corrosive or sticky media

PRODUCT OVERVIEW:
The 17 series flush diaphragm eliminates clogging of the process port in applications where a viscous or sticky media is used. The 316L wetted parts with optional Hastelloy-C make this impervious to corrosive medias and provide standard operating temperatures to +250 °F (+121 °C), with a +350 °F (+177 °C) option.

FIELD OPTIONS:
- FM / CSA Intrinsically Safe approval (317Z)
- Zero and span adjustments
- IP67 / NEMA 6 rating
- Comprehensive list of alternative electrical and process connections
- mV/V, 0 to 5 Vdc, 0 to 10 Vdc, 4-20 mA output
- Hastelloy C alloy wetted parts
### Reference Specifications

**Electrical**

- **Supply Voltage:**
  - (Model 117) 3.5 to 15 Vdc max.
  - (Model 217/317) 9 to 40 Vdc
- **Output Signal (@ +70 °F):**
  - (Model 117) 3 mV/V
  - (Model 217) 0 to 5 Vdc, 0 to 10 Vdc
  - (Model 317) 4-20 mA
- **Input Current:**
  - (Model 217) 8 mA nominal
- **Output Current:**
  - (Model 317) 2.0 mA max. for <0.1% FSO attenuation
- **Input Impedance:**
  - (Model 117) 350 Ω nominal
- **Load Resistance:**
  - (Model 117) 50K Ω min. for <0.1% FSO attenuation
  - (Model 317) 1,350 Ω max. at 36 Vdc and 750 Ω max. at 24 Vdc
- **Circuit Protection:**
  - RFI and EMI
- **Insulation Resistance:**
  - >10 MΩ at 50 Vdc and +70 °F
- **Connection:**
  - 36” long PVC jacketed, 24 AWG, 4-conductor cable

**MATERIALS OF CONSTRUCTION**

- **Wetted Parts:**
  - 316 stainless steel (Optional Hastelloy C alloy)
- **Housing:**
  - 316 stainless steel

**Static Accuracy (BFSL) (Hysteresis, Non-linearity & Repeatability @ +70 °F)**

- **Standard:** ±1.0 % FSO
- **Improved:** ±0.5% and ±0.2% FSO
- *Zero Balance and FSO: ±2.0% FSO @ +70 °F

**Mechanical**

- **Process Connection:**
  - 3/4” - 16 UNF-3A thread with Teflon O-ring and retaining rim
- **Proof Pressure:**
  - 1.5X full scale pressure range or 12K PSI (827 BAR), whichever is less
- **Burst Pressure:**
  - 5X full scale pressure range or 15K PSI (1,034 BAR), whichever is less
- **Approximate weight:**
  - 8 oz. (0.2 kg) nominal

**Pressure Ranges**

- From 0 to 50 thru 0 to 10K PSI (3.4 to 689 BAR)

**Thermal Specifications**

- **Compensated:**
  - 0 °F to +180 °F (-17.7 °C to +82 °C)
- **Operating Process:**
  - -20 °F to +250 °F (-29 °C to +121 °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.