MODEL 170 / 270 / 370 QX

FEATURES:

• 2”-1502, 2002 and 2202 WECO® Union compatible
• Process temperature rated to +350 °F (+177 °C)
• 0 to 5K thru 0 to 20K PSI (345 thru 1,379 BAR)
• Corrosion resistant materials
• Optional improved accuracy specifications
• Hazardous area location approvals

APPLICATIONS:

• High-pressure, high-temperature (HPHT) wells
• Choke and kill manifolds
• Blowout preventer (BOP)
• Hydraulic fracturing

PRODUCT OVERVIEW:

GP:50’s Model 370-QX series is designed for High Pressure High Temperature (HPHT) well applications. This series is designed to fit the standard WECO® 2”- 1502 or 2”- 2002/2202 unions and operates at a continuous process temperature to +350 °F (+177 °C). It offers reliable service in high shock and vibration applications such as cementing, fracturing and drilling mud pressure measurement.

FIELD OPTIONS:

• WECO® 2” 1502 or 2” 2002 wing union fitting
• Stainless steel or Inconel X750/ X718 construction
• Shunt calibration signal
• 3 mV/V, 0 to 5 Vdc, 4-20 mA or CANbus output
• Comprehensive list of electrical connections including shipboard rated cable
**ELECTRICAL**

- **Supply Voltage:**
  - (Model 170) 15 Vdc max
  - (Model 270) 9 to 36 Vdc
  - (Model 370) 9 to 36 Vdc (10 to 28 Vdc for GI/AI/I approvals)

- **Output Signal:**
  - (Model 170) 3 mV/V
  - (Model 270) 0 to 5 Vdc
  - (Model 370) 4-20 mA
  - (Model 570) CANbus / SAE J1939

- **Load Resistance:**
  - (Model 170) >100K Ω
  - (Model 270) >10K Ω

- **Connection:** Bendix PTO2E-10-6P standard

- **Input Current:**
  - (Model 170) 1 mA
  - (Model 270) 8 mA
  - (Model 370) 23 mA max.

- **Shunt Calibration:**
  - (Model 170/270) 100% FSO by shorting 2 pins, non-isolated version
  - (Model 370) 100% FSO by powering 2 pins, fully isolated

**MATERIALS OF CONSTRUCTION**

- **Sensor:** Wetted Material Selectable
  - Standard Operation: 17-4 PH (H1025) SST for ≤10K PSI and Inconel 718 NACE for ≥15K PSI
  - Optional Inconel X750 or 718

- **Housing:** 300 Series Stainless Steel

**REFERENCES SPECIFICATIONS**

- **STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)**
  - Standard: ±0.25% FSO
  - Zero Balance/Span: <±1.0% FSO/100 °F

- **MECHANICAL**

  - **Process Connection:** WECO® 2" - 1502 or 2002/2202
  - **Proof Pressure:** 1.5X FSO
  - **Burst Pressure:** 3.0X FSO
  - **Ingress Protection:** IP67 (some options may effect rating)

- **PRESSURE RANGES**
  - 0 to 1000 PSI thru 0 to 20K PSI (69 thru 1,379 BAR)

- **THERMAL SPECIFICATIONS**
  - Compensated: -40 °F to +350 °F (-40 °C to +177 °C)
  - Operating Process: -50 °F to +360 °F (-45 °C to +182 °C)
  - Operating Ambient: -50 °F to +120 °F (-45 °C to +49 °C)
  - Assumes a +350 °F (+177 °C) process temp, otherwise
    - -50 °F to +185 °F (-45 °C to +85 °C)
  - **Storage:** -60 °F to +190 °F (-51 °C to +85 °C)

- **APPROVALS** (370 SERIES ONLY, OTHERS PENDING)
  - FM/CSA/ATEX/IEC Intrinsic Safety
  - FM/CSA/ATEX/IEC Zone 2
  - CE Marked

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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