**SERIES CXA | MERCOID® BY DWYER**

**WATER PUMP PRESSURE SWITCH**
Simple, Reliable, Adjustable Set Point and Deadband

The Series CXA Water Pump Pressure Switch has been proven reliable for controlling automatic water systems. The switches are very popular for use on water well pumps and pumping systems. They are designed with a unique, no liquid fill diaphragm and a sanitary clamp pressure fitting that allows for easy installation with negligible clamping effect. A conduit fitting, shielded cable, and one-piece strain relief with 15 ft (4.5 m) of conduit hub (2 places) are included. The switches come with a 1/2˝ female NPT process connection and can be mounted in any orientation. The Series CXA’s simple design makes it a great switch for an installer at any skill level.

**APPLICATIONS**
- Electric water pumps
- Well pumps
- Pumping systems

**SPECIFICATIONS**
- Switch Type: DPST snap action (see model chart).
- Conduit Connection: 1/2˝ conduit fitting and strain relief with 15 ft (4.5 m) of conduit hub (2 places).
- Mounting Orientation: Switch can be installed in any orientation.
- Set Point Adjustment: Internal screws.
- Weight: 0.75 lb (0.34 kg).
- Deadband: See model chart.

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Switch Type</th>
<th>Range psig (bar)</th>
<th>Approx. Adjustable Deadband psig (bar)</th>
<th>Max. Pressure psig (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CXA-S1</td>
<td>NC</td>
<td>15 to 80 (1.0 to 5.5)</td>
<td>15 to 30 (1.0 to 2.1)</td>
<td>129 (8.9)</td>
</tr>
<tr>
<td>CXA-S2</td>
<td>NC</td>
<td>30 to 100 (2.1 to 6.9)</td>
<td>20 to 35 (1.4 to 2.4)</td>
<td>179 (12.3)</td>
</tr>
<tr>
<td>CXA-S3</td>
<td>NC</td>
<td>35 to 150 (2.4 to 10.3)</td>
<td>30 to 40 (2.1 to 2.6)</td>
<td>204 (14.1)</td>
</tr>
<tr>
<td>CXA-R1</td>
<td>NO</td>
<td>15 to 80 (1.0 to 5.5)</td>
<td>15 to 30 (1.0 to 2.1)</td>
<td>129 (8.9)</td>
</tr>
<tr>
<td>CXA-R2</td>
<td>NO</td>
<td>30 to 100 (2.1 to 6.9)</td>
<td>20 to 35 (1.4 to 2.4)</td>
<td>179 (12.3)</td>
</tr>
<tr>
<td>CXA-R3</td>
<td>NO</td>
<td>35 to 150 (2.4 to 10.3)</td>
<td>30 to 40 (2.1 to 2.6)</td>
<td>204 (14.1)</td>
</tr>
</tbody>
</table>

**SERIES 681**

**SANITARY PRESSURE TRANSMITTER**
No Liquid Fill Diaphragm, Sanitary Clamp Fitting

The Series 681 Sanitary Pressure Transmitter is designed to meet 3A standards for applications in food, dairy, beverage and pharmaceutical processing, liquid level control, and sanitary pipelines. The unit is fully sealed to withstand high pressure washdown in Clean-in-Place (CIP) and Sterilize-in-Place (SIP) installations. The Series 681 is designed with a unique, no liquid fill diaphragm and a sanitary clamp pressure fitting for easy installation with negligible clamping effect. A conduit fitting, shielded cable with vent tube and sealed screws for zero and span adjustment combine to make the Series 681 completely watertight.

**FEATURES/BENEFITS**
- Fully sealed to withstand Clean-in-Place and Sterilize-in-Place installations supports regulatory conditions for sanitary processes
- Sanitary clamp fitting makes for easy installation

**APPLICATIONS**
- Sanitary process applications
- Food and beverage processing
- Water processing

**SPECIFICATIONS**
- Service: Compatible liquids and gases.
- Wetted Parts: 316L SS.
- Accuracy: ±0.5% FS (includes non-linearity, hysteresis and non-repeatability).
- Temperature Limits: -40 to 260°F (-40 to 125°C) 10 to 90% RH, non-condensing.
- Pressure Limits: See table.
- Thermal Effect: Zero and span shift: ±0.0% FS/100°F.
- Power Requirements: 9-30 VDC.
- Output Signal: 4-20 mA, 2-wire.
- Zero and Span Adjustment: ±5 psig (±0.3 bar).
- Response Time: ≤ 10 ms.
- Loop Resistance: 800 Ω.
- Conduit Connection: 1/2˝ conduit fitting and strain relief with 15 ft (4.5 m) of conduit hub (2 places).
- Mounting Orientation: Switch can be installed in any position.
- Set Point Adjustment: Internal screws.
- Weight: 8 oz (227 g).

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Sanitary Clamp Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>681-02</td>
<td>0 to 1 psi</td>
<td>2˝</td>
</tr>
<tr>
<td>681-12</td>
<td>0 to 2 psi</td>
<td>2˝</td>
</tr>
<tr>
<td>681-42</td>
<td>0 to 15 psi</td>
<td>2˝</td>
</tr>
<tr>
<td>681-52</td>
<td>0 to 30 psi</td>
<td>2˝</td>
</tr>
<tr>
<td>681-62</td>
<td>0 to 60 psi</td>
<td>2˝</td>
</tr>
</tbody>
</table>

**OPTIONS**
- Use order code: Description
  - NISTCAL-PT1 | NIST traceable calibration certificate for pressure transmitters