Engineered Plastics Versions – Standard Size

- Temperatures to 280°F (139°C)
- Pressures to 150 PSI (10.3 Bar)
- Up to 19 feet (5.8 meters) of continuous visual indication

The 2” Schedule 80 pipe design is ideal for use on chemical storage tanks, or with almost any liquid where temperature and pressure requirements are moderate. All SureSite Indicators feature the same patented flag and guide assemblies used on our alloy versions, so you can be assured of excellent visibility and long-life reliability.

1. Mounting Configuration Types

To choose the best configuration for your application, focus on the process connections (connections where the liquid typically enters/leaves the SureSite).

<table>
<thead>
<tr>
<th>Type AP</th>
<th>Type BP</th>
<th>Type CP</th>
<th>Type DP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top and Bottom Process Connections</td>
<td>Side and Side Process Connections</td>
<td>Top and Side Process Connections</td>
<td>Side and Bottom Process Connections</td>
</tr>
<tr>
<td>L = Length of Visual Indication</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Typical Lengths*

- C to C = L + 11” (279 mm)
- C to C = L + 8” (203 mm)
- C to C = L + 9.5” (241 mm)
- C to C = L + 9.5” (241 mm)

Overall Length = C to C

Flag Indicator Material

Length of Indication, Max. 228” (579 cm)

*Dimensional data varies due to connections, material and specific gravity.

Note: Additional materials, floats, connections and manufacturing techniques are available to extend lengths and operational capabilities. Please contact GEMS Sensors if the parameters above do not meet your requirements.

2. Material

Select desired material from those tabulated below. Mark the Code Number on your OrderIt! Check List. The pressure/temperature performance parameters are specified in the charts at right. Consult the factory with pressure/temperature requirements that fall outside the parameters shown here.

<table>
<thead>
<tr>
<th>Materials</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing &amp; Float</td>
<td></td>
</tr>
<tr>
<td>PVC</td>
<td>1</td>
</tr>
<tr>
<td>Clear PVC Housing/ PVC Float</td>
<td>1A*</td>
</tr>
<tr>
<td>CPVC</td>
<td>2</td>
</tr>
</tbody>
</table>

* 2" Schedule 40 pipe

Pressures to 150 PSI (10.3 Bar)
Temperatures to 280°F (139°C)
Up to 19 feet (5.8 meters) of continuous visual indication

3. Connection Codes
(See complete descriptions below)

<table>
<thead>
<tr>
<th>Connections</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T &amp; B (Top and Bottom)</td>
<td>1. Welded cap</td>
</tr>
<tr>
<td>T/B</td>
<td>2. Threaded cap (PVC/CPVC only)</td>
</tr>
<tr>
<td>T/B</td>
<td>3. Fixed flange/blind mating flange</td>
</tr>
<tr>
<td>T/B</td>
<td>4. Welded coupling/FNPT</td>
</tr>
<tr>
<td>T/B</td>
<td>5. Welded coupling/MNPT</td>
</tr>
<tr>
<td>T/B</td>
<td>6. Threaded union/MNPT</td>
</tr>
<tr>
<td>T/B</td>
<td>7. Fixed flange/mating flange MNPT</td>
</tr>
<tr>
<td>T/B</td>
<td>8. Fixed flange/mating flange/FNPT</td>
</tr>
<tr>
<td>T/B</td>
<td>9. Welded coupling flange</td>
</tr>
<tr>
<td>T/B</td>
<td>10. Threaded union flange</td>
</tr>
<tr>
<td>Sa &amp; Sb (Sides)</td>
<td>1. Blind—No Connection</td>
</tr>
<tr>
<td>S1</td>
<td>2. MNPT nipple</td>
</tr>
<tr>
<td>S2</td>
<td>3. FNPT coupling</td>
</tr>
<tr>
<td>S3</td>
<td>4. ANSI flange</td>
</tr>
</tbody>
</table>

Connection Code Descriptions
Please provide all connections when completing the Orderit! Product Check List. **Note:** Before selecting your connections, consider incorporating your vent and drain requirements.

Accessories – Pages D-13 to D-15
Make more of your SureSite® Indicator with the productivity-enhancing accessories found at the end of this section.

- **Indicating Scales**
  Add graduations to your flag indication.

- **Switch Modules**
  Control pumps, valves, alarms, etc. Mount externally on housing for infinite positioning.

- **Continuous Output Transmitters**
  Signal conditioned for compatibility with most electronic instruments.
SureSite Indicators, Engineered Plastic Versions – Standard Size

**Process Conditions**

This information is essential to the accurate and proper operation of your SureSite® Visual Level Indicators. Please complete fully and accurately.

1. **Pressure**: Operating ______ psig Maximum ______ psig
2. **Temperature**: Operating ______ °F Maximum ______ °F
3. **Liquid Media**: __________________________________________
4. **Specific Gravity @ Operating Condition**:  ____________________
5. **Viscosity**: __________ SSU
6. **Application Location**: □ Indoors □ Outdoors

**Physical Configuration**

1. **Mounting Configuration Types**:
   - □ Type AP
   - □ Type BP
   - □ Type CP
   - □ Type DP

2. **Housing and Float Material**:
   - □ Code 1
   - □ Code 1A
   - □ Code 2

3. **Connection Codes** – Complete all 4 connection code lines.
   - Check off NPT or Flange size where appropriate.

- **Top T**
  - NPT
  - □ 1/2’’ □ 1’’ □ 2’’
  - □ Other

- **Side Sa**
  - NPT
  - □ 1/2’’ □ 1’’ □ 2’’
  - □ Other

- **Side Sb**
  - NPT
  - □ 1/2’’ □ 1’’ □ 2’’
  - □ Other

- **Bottom B**
  - NPT
  - □ 1/2’’ □ 1’’ □ 2’’
  - □ Other

4. **Length of Visual Indication – L**: ______ inches (228’, Max.).
   - Connection to Connection Dimension – C to C: ________ inches.

5. **Flag Type**: Plastic (Orange and White)

**Special Instructions** (Materials, Connections, etc.)

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**Accessories (Pages D-16 to D-18)**

1. **Transmitters** (Continuous Electrical Indication):
   - □ Standard – 300°F (149°C) □ Explosion-Proof
2. **J-Box/Signal Conditioners Accessories**:
   - □ Terminal Strip
   - □ 4-20 mA Output
   - □ 0-5 VDC Output
3. **Power Supply**:  
   - □ 115 VAC (Input) /24 VDC (Output)  
   - □ 230 VAC (Input) /24 VDC (Output)  
   - (Optional)

4. **Switch Modules** (Single Point): ______ Quantity (only if required)
   - □ SPST
   - □ SPDT
   - □ DPDT 120 VAC
   - □ DPDT 24 VDC
   - □ Standard – 300°F (149°C)
   - □ High Temperature
   - □ Explosion Proof
5. **Indicating Scales**:
   - □ Feet and Inches
   - □ Inches
   - □ Metric
   - □ Blank
   - □ Custom Graduations; specify: _______________________