



# 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.

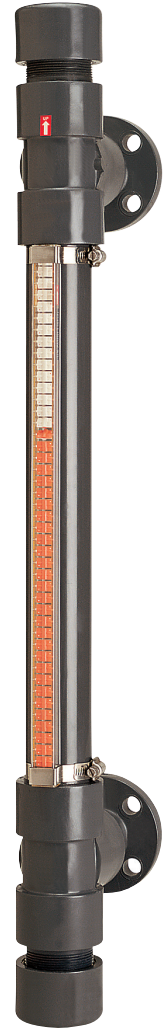
## 1. Mounting Configuration Types

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

	Type AP Top and Bottom Process Connections	Type BP Side and Side Process Connections	Type CP Top and Side Process Connections	Type DP Side and Bottom Process Connections
<b>L</b> = Length of Visual Indication				
<b>Typical Lengths*</b>	C to C = L + 11" (279 mm) Overall Length = C to C	C to C = L + 8" (203 mm) Overall Length = C to C + 11" (279 mm)	C to C = L + 9.5" (241 mm) Overall Length = C to C + 5-1/2" (140 mm)	C to C = L + 9.5" (241 mm) Overall Length = C to C + 5-1/2" (140 mm)
<b>Flag Indicator Material</b>	Plastic			
<b>Length of Indication, Max.</b>	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.



Type BP Shown

LEVEL INDICATORS – VISUAL

## 2. Material

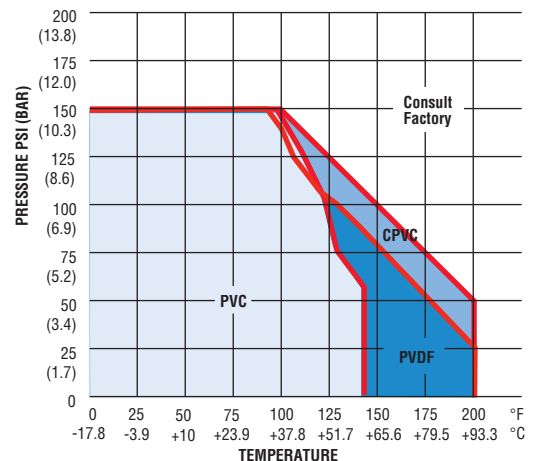
Select desired material from those tabulated below. Mark the Code Number on your Order! Check List. The pressure/temperature performance parameters are specified in the charts at right. Consult the factory with pressure/temperature requirements that fall outside the parameters shown here.

Materials	Code
<b>Housing &amp; Float</b>	
PVC	<b>1</b>
Clear PVC Housing/ PVC Float	<b>1A*</b>
CPVC	<b>2</b>
PVDF	<b>4</b>

\* 2" Schedule 40 pipe

= Stock Material  
(Best economy and delivery).

## Pressure/Temperature Performance



### 3. Connection Codes

(See complete descriptions below)

TOP	Blind			NPT				Flange		
	Fixed	Removable		Fixed		Removable		Fixed	Removable	
		T1	T2	T3	Female T4	Male T5	Male T6			Female T7

SIDE	Blind			NPT		Flange
	S1	Male	Female	S2	S3	S4
		Sa	Sb			

BOTTOM	Blind			NPT				Flange		
	Fixed	Removable		Fixed		Removable		Fixed	Removable	
		B1	B2	B3	Female B4	Male B5	Male B6			Female B7

— Connection Codes and Materials background-shaded in this color are stocked by Gems. Select these connections where possible to obtain the most economical SureSite Indicators.

LEVEL INDICATORS – VISUAL

#### Connection Code Descriptions

Please provide all connections when completing the Order! Product Check List.

**Note:** Before selecting your connections, consider incorporating your vent and drain requirements.

#### T & B (Top and Bottom)

- T/B 1. Welded cap
- T/B 2. Threaded cap (PVC/CPVC only)
- T/B 3. Fixed flange/blind mating flange
- T/B 4. Welded coupling/FNPT
- T/B 5. Welded coupling/MNPT
- T/B 6. Threaded union/MNPT
- T/B 7. Fixed flange/mating flange MNPT
- T/B 9. Fixed flange/mating flange/FNPT
- T/B 10. Welded coupling flange
- T/B 11. Threaded union flange

#### Sa & Sb (Sides)

- S1 – Blind–No Connection
- S2 – MNPT nipple
- S3 – FNPT coupling
- S4 – ANSI flange

## Accessories – Pages D-16 to D-18

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.



**APPLICATIONS**  
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## 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  Code 3  Code 4

### 3. Connection Codes – Complete all 4 connection code lines.

Check off NPT or Flange size where appropriate.

▼ Connection Code Number Goes Here. **Connection Code Numbers and their descriptions are on Page D-14.**

<b>Top T</b>	NPT	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# (FF) <input type="checkbox"/> Other _____
<b>Side Sa</b>	NPT	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# (FF) <input type="checkbox"/> Other _____
<b>Side Sb</b>	NPT	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# (FF) <input type="checkbox"/> Other _____
<b>Bottom B</b>	NPT	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# (FF) <input type="checkbox"/> 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.)

\_\_\_\_\_  
 \_\_\_\_\_

## 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  
 0-12 VDC Output

### 3. Power Supply: (Optional)

- 115 VAC (Input) /24 VDC (Output)  
 230 VAC (Input) /24 VDC (Output)

### 4. Switch Modules (Single Point): \_\_\_\_\_ Quantity (only if required)

- a.  SPST  SPDT  DPDT 120 VAC  DPDT 24 VDC  
 b.  Standard – 300°F (149°C)  High Temperature  
 Explosion Proof

### 5. Indicating Scales:

- Feet and Inches  Inches  Metric  Blank  
 Custom Graduations; specify: \_\_\_\_\_