

# FLOAT TYPE LIQUID LEVEL CONTROLS

## SLS SERIES

SLS-1: One Float Point; DIN43650 (PG9)

SLS-2: Two Float Points; Universal Connector SV-1 (M20 x 1.5)

– Quality Products – Vertical Mounted

### Technical Data

**Connection Thread & Wetted Parts Material:** Guide tube: SS316; Float: P.P, PVDF, or SS316

**Connection Type:** Sanitary, PT, NPT, BSP; option available

**Connection Size:** 1" for max.  $\varnothing$ 26mm float; 1½" for max.  $\varnothing$ 28mm float; 1½" for max.  $\varnothing$ 40mm float; 2" for max.  $\varnothing$ 49mm float

**Limited Working Pressure:** please refer to the float specification

**Limited Working Temperature:** please refer to the float specification

**Switch Mode:** SPDT

**Setting Point:** One float point or Two float points

**Switch Rating:**

Item Code	15	36
Contact Form	C (SPDT)	C (SPDT)
Switching Capacity Max.	60 WVA	20 WVA
Switching Voltage Max.	250V AC/DC	150V AC/DC
Switching Current Max.	1A	1A
Carrying Current Max.	2A	2A
Working Temperature	-20°C ~ +130°C	-20°C ~ +130°C
Suitable Float Size	float size $\geq$ $\varnothing$ 49 available Except $\varnothing$ 49: 1 setting point only	all float size available

### Approvals:



Switches with Intertek Test Report, refer to UL508 Standard.



Sanitary Connection Type

Thread connection Type

### Housing Model:

#### • DIN 43650 •

- According to EN 175301-803 for 3 poles
- For using One float point only
- IP65 (EN 60529)
- Cable Gland: PG9
- Suitable for connection size 1" to 2"

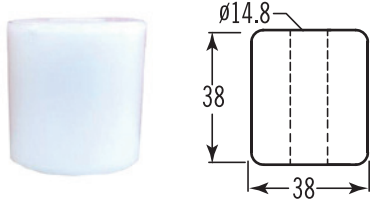
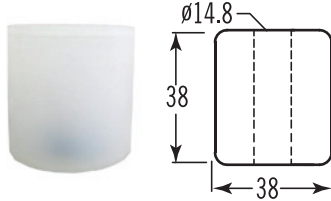
#### • SV-1 (Universal Connector) •

- According to EN 175201-804 for 6 poles
- For using Two float point only
- IP65 (IEC 529)
- Cable Gland: M20 x 1.5
- Suitable for connection size 1½" to 2"

### Float Specification

$\varnothing$ 26x26mm (P.P)	$\varnothing$ 28x27mm (SUS316)
<p>Float Size: <math>\varnothing</math>26 Max. Working Pressure: 3 kg/cm<sup>2</sup> Working S.G.: <math>\geq</math>0.7 The Guide Tube Size: <math>\varnothing</math>8 Material: P.P Limited Operating Temperature: 0~60°C</p>	<p>Float Size: <math>\varnothing</math>28 Max. Working Pressure: 15 kg/cm<sup>2</sup> Working S.G.: <math>\geq</math>0.8 The Guide Tube Size: <math>\varnothing</math>8 Material: SUS316 Limited Operating Temperature: -20~140°C</p>
$\varnothing$ 40x38mm (SUS316)	$\varnothing$ 49x49mm (SUS316)
<p>Float Size: <math>\varnothing</math>40 Max. Working Pressure: 30 kg/cm<sup>2</sup> Working S.G.: <math>\geq</math>0.8 The Guide Tube Size: <math>\varnothing</math>9.5 Material: SUS316 Limited Operating Temperature: -20~140°C</p>	<p>Float Size: <math>\varnothing</math>49 Max. Working Pressure: 30 kg/cm<sup>2</sup> Working S.G.: <math>\geq</math>0.68 The Guide Tube Size: <math>\varnothing</math>12 Material: SUS316 Limited Operating Temperature: -20~140°C</p>

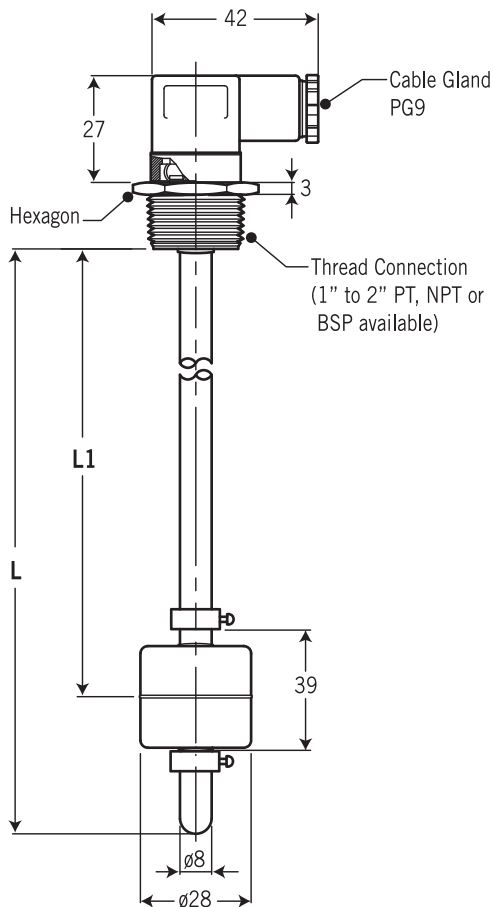
### Float Specification

ø 38x38mm (P.P)	ø 38x38mm (PVDF)
 <p> <b>Float Size:</b> ø38  <b>Max. Working Pressure:</b> 3 kg/cm<sup>2</sup>  <b>Working S.G.:</b> ≥0.7  <b>The Guide Tube Size:</b> ø12  <b>Material:</b> P.P  <b>Limited Operating Temperature:</b> 0~60°C                 </p>	 <p> <b>Float Size:</b> ø38  <b>Max. Working Pressure:</b> 3 kg/cm<sup>2</sup>  <b>Working S.G.:</b> ≥0.7  <b>The Guide Tube Size:</b> ø12  <b>Material:</b> PVDF  <b>Limited Operating Temperature:</b> 0~60°C                 </p>

### Dimensions-mm

#### Model: SLS-1A (Thread Type)

- **Housing:** DIN 43650
- **Cable Gland:** PG9
- **Switch:** SPDT x 1 (3 poles)
- **L1=** Please specific by customer; (L= max. 2 Meters)

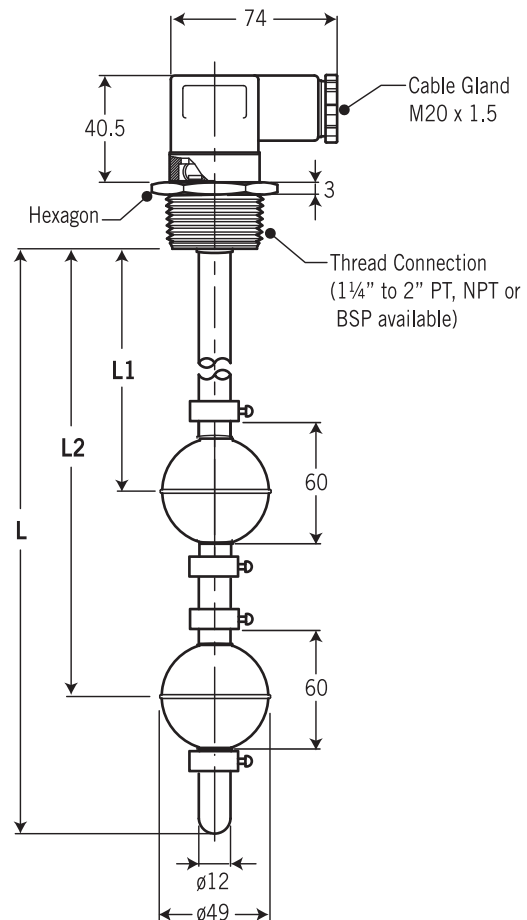


**NOTICE:**

Thread Connection Size / Max. Float Size  
 1" / max. ø26mm float  
 1¼" / max. ø28mm float  
 1½" / max. ø40mm float  
 2" / max. ø49mm float

#### Model: SLS-2A (Thread Type)

- **Housing:** SV-1 (Universal Connector)
- **Cable Gland:** M20 x 1.5
- **Switch:** SPDT x 2 (6 poles)
- **L1 & L2=** Please specific by customer; (L= max. 2 Meters)



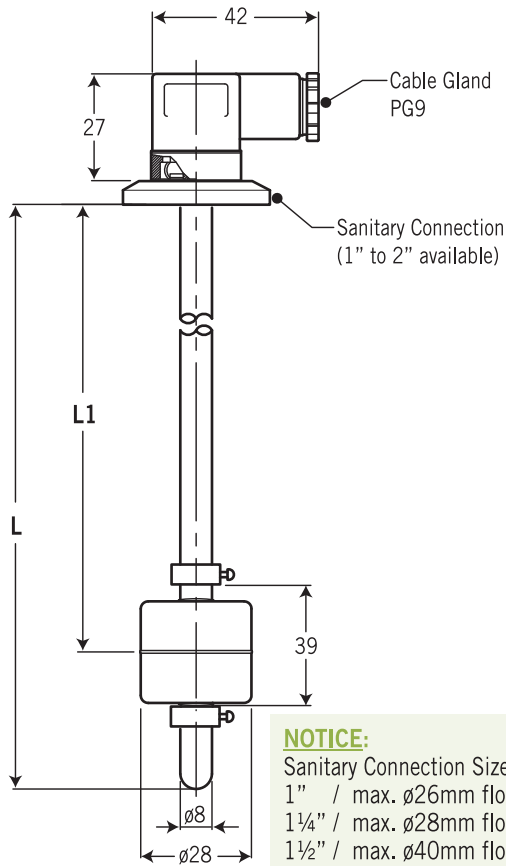
**NOTICE:**

Thread Connection Size / Max. Float Size  
 1¼" / max. ø28mm float  
 1½" / max. ø40mm float  
 2" / max. ø49mm float

## Dimensions-mm

### Model: SLS-1B (Sanitary Type)

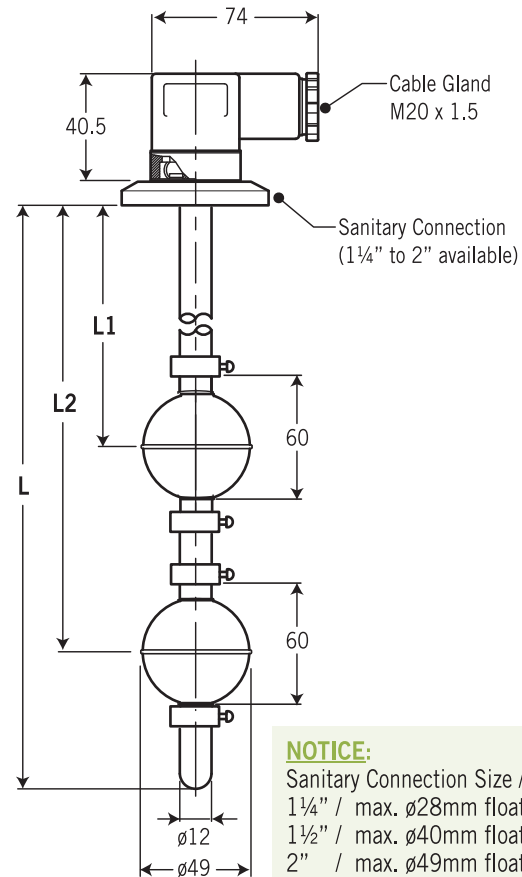
- **Housing:** DIN 43650
- **Cable Gland:** PG9
- **Switch:** SPDT x 1 (3 poles)
- **L1=** Please specific by customer; (L= max. 2 Meters)



**NOTICE:**  
Sanitary Connection Size / Max. Float Size  
1" / max. ø26mm float  
1¼" / max. ø28mm float  
1½" / max. ø40mm float  
2" / max. ø49mm float

### Model: SLS-2B (Sanitary Type)

- **Housing:** SV-1 (Universal Connector)
- **Cable Gland:** M20 x 1.5
- **Switch:** SPDT x 2 (6 poles)
- **L1 & L2=** Please specific by customer; (L= max. 2 Meters)



**NOTICE:**  
Sanitary Connection Size / Max. Float Size  
1¼" / max. ø28mm float  
1½" / max. ø40mm float  
2" / max. ø49mm float

## Ordering Information

SLS	Code	Model / Switch Point / Housing / Cable Gland					
	<b>1A</b>	Thread Type / One Float Point / DIN 43650 / PG9					
	<b>1B</b>	Sanitary Type / One Float Point / DIN 43650 / PG9					
	<b>2A</b>	Thread Type / Two Float Points / SV-1 (Universal Connector) / M20 x 1.5					
	<b>2B</b>	Sanitary Type / Two Float Points / SV-1 (Universal Connector) / M20 x 1.5					
	<b>Code</b>	<b>Process Connection Size + Float Size/Material</b>					
	<b>1</b>	1" + (A)					
	<b>2</b>	1¼" + (A) or (B)					
	<b>3</b>	1½" + (A) or (B) or (C) or (E) or (F)					
	<b>4</b>	2" + (A) or (B) or (C) or (D) or (E) or (F)					
	<b>Code</b>	<b>Process Connection Type</b>					
	<b>A</b>	NPT					
	<b>B</b>	BSP					
	<b>C</b>	Sanitary					
	<b>Code</b>	<b>Contact Form (*please refer to the switch rating to consider about the suitable float size*)</b>					
		(1) SPDT (250V AC/DC) (2) SPDT (150V AC/DC)					
	<b>Code</b>	<b>Total Insertion Length</b>					
		L=_____mm					
	<b>Code</b>	<b>Setting Point &amp; Switch Acting Functions</b>					
		Please fill in the requested length and float rised ↑ON or fall down ↓ON. L1=_____mm L2=_____mm					
<b>SLS</b>	<b>2A</b>	<b>2(B)</b>	<b>A</b>	<b>1</b>	<b>200</b>	<b>120</b>	<b>Complete Ordering Code</b>