

NEW-FLOW

**ISO 9001
REGISTERED**

NEW-FLOW

MAGNETIC FLOAT TYPE LIQUID LEVEL CONTROLS

SLS SERIES

Instruction Manual



Approvals:



CE

ETL



Switches with Intertek
Test Report, refer to
UL508 Standard.

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Instruction No.: 20171030-sls-00



1.0 DESCRIPTION

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. $\phi 26$ mm float; 1 1/4" for max. $\phi 28$ mm float; 1 1/2" for max. $\phi 40$ mm float; 2" for max. $\phi 49$ mm float

Limited Working Pressure: please refer to the float specification

Limited Working Temperature: please refer to the float specification

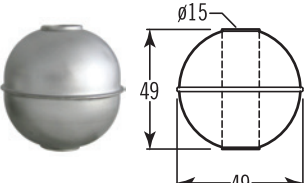
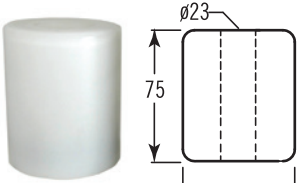
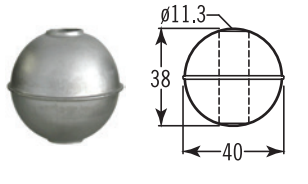
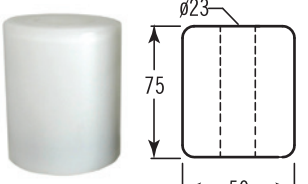
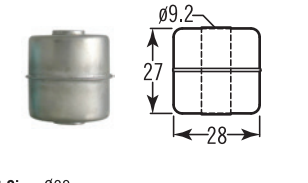
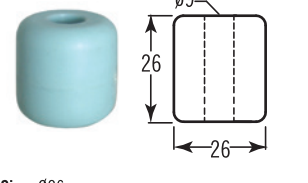
Switch Mode: SPDT

Setting Point: One float point or Two float points

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 1 1/4" to 2"

Float Specification

<p>$\phi 49 \times 49$mm (SUS316)</p>  <p>Float Size: $\phi 49$ Max. Working Pressure: 30 kg/cm² Working S.G.: ≥ 0.68 The Guide Tube Size: $\phi 12$ Material: SUS316 Limited Operating Temperature: -20~140°C</p>	<p>$\phi 50 \times 75$mm (PVDF)</p>  <p>Float Size: $\phi 50$ Max. Working Pressure: 5 kg/cm² Working S.G.: ≥ 0.8 The Guide Tube Size: $\phi 20$ Material: PVDF Limited Operating Temperature: 0~120°C</p>
<p>$\phi 40 \times 38$mm (SUS316)</p>  <p>Float Size: $\phi 40$ Max. Working Pressure: 30 kg/cm² Working S.G.: ≥ 0.8 The Guide Tube Size: $\phi 9.5$ Material: SUS316 Limited Operating Temperature: -20~140°C</p>	<p>$\phi 50 \times 75$mm (P.P)</p>  <p>Float Size: $\phi 50$ Max. Working Pressure: 3 kg/cm² Working S.G.: ≥ 0.7 The Guide Tube Size: $\phi 21$ Material: P.P Limited Operating Temperature: 0~60°C</p>
<p>$\phi 28 \times 27$mm (SUS316)</p>  <p>Float Size: $\phi 28$ Max. Working Pressure: 15 kg/cm² Working S.G.: ≥ 0.8 The Guide Tube Size: $\phi 8$ Material: SUS316 Limited Operating Temperature: -20~140°C</p>	<p>$\phi 26 \times 26$mm (P.P)</p>  <p>Float Size: $\phi 26$ Max. Working Pressure: 3 kg/cm² Working S.G.: ≥ 0.7 The Guide Tube Size: $\phi 8$ Material: P.P Limited Operating Temperature: 0~60°C</p>

Switch Function

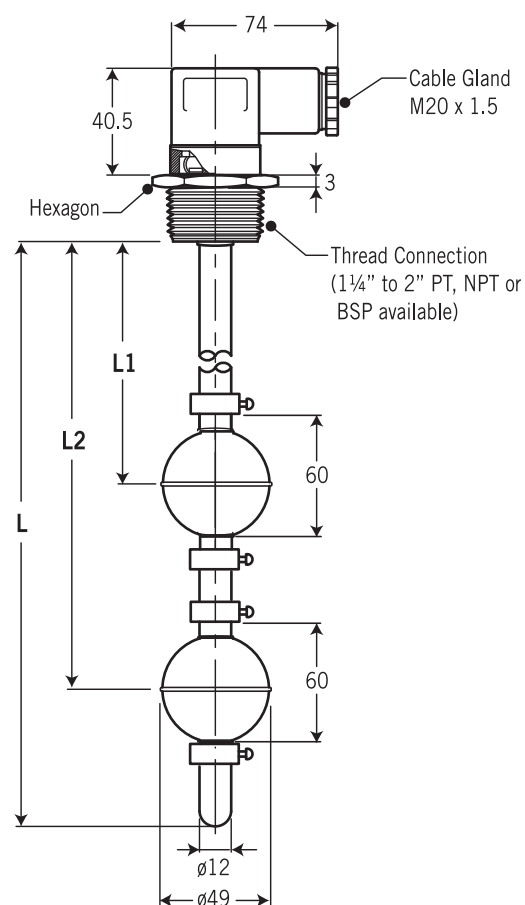
Total Insertion Length:

L= _____ mm

Setting Point & Switch Acting Functions:

Please fill in the requested length and float rised \uparrow ON or fall down \downarrow ON.

L1= _____ mm L2= _____ mm



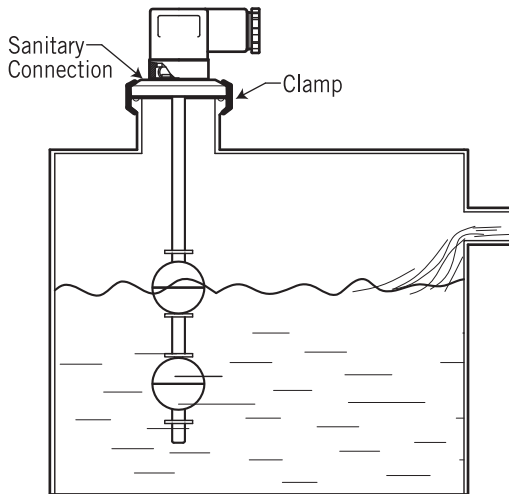
Switch Table

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 $\geq \phi 49$ available (Except $\phi 49$: 1 setting point only)	all float size available

2.0 INSTALLATION

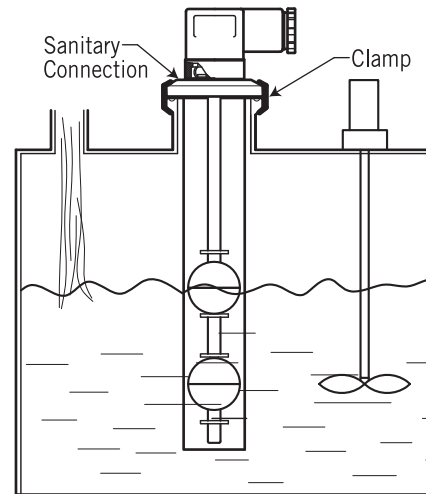
Install Method

1



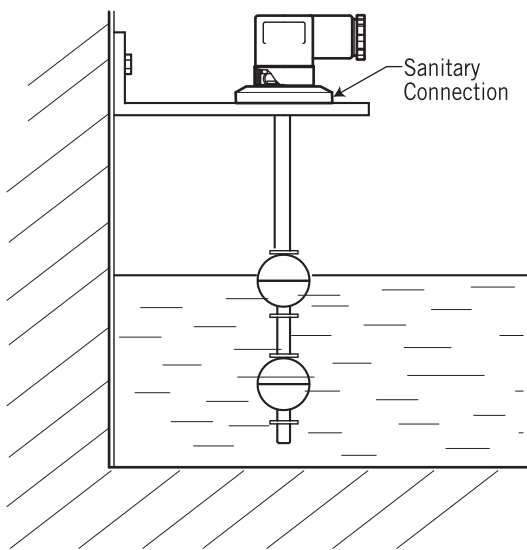
To avoid vibrating float to trigger the switch near the water inlet causing by the fluctuation of water level, therefore please install the level switch as far away from the water inlet as possible.

2



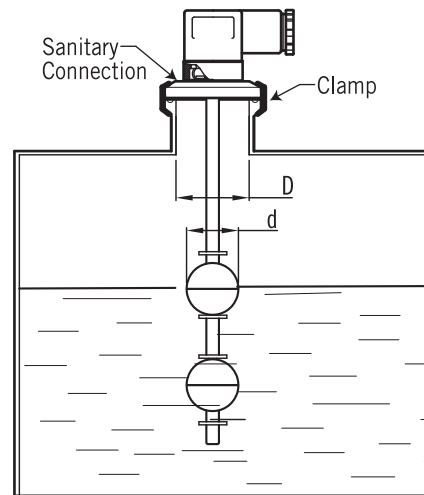
Level switch installed in a mixing tank or a water tank which the water level fluctuate greatly, an anti-wave pipe shall be installed to prevent faulty action of the switch due to water level fluctuation.

3



When the level switch installs in the open style tank, please note that it is sure to install the L support fixed on the level switch body.

4



Please note that the inside dimensions (D) of nozzle shall be bigger than the diameter of float (d).