

Large Size – Engineered Plastics

Select from these Engineered Plastics for Aggressive or Ultra-Pure Liquids

Each of these series offers unique features. Choose from this selection when all-plastic material is desirable and tank space is not restricted.

LS-74780 – All CPVC



Particularly well suited for rough service. Ideal for use in chemical and plating applications.

LS-1900TFE



Resists build-up of foreign material or sticky media. Float travel remains uninhibited in viscous or corrosive liquids. SPDT switch.

LS-1700TFE



A medium-size solution for ultra-pure liquid level sensing. Made of corrosion resistant PTFE for low particle generation.

LEVEL SWITCHES – SINGLE POINT

Dimensions

LS-74780	LS-1900TFE	LS-1700TFE
<p>Dimensions for LS-74780: PVC JACKETED LEAD WIRES, 1/4" NPT, 5/8" HEX (15.9 mm), 21/32" (16.7 mm), 3-7/16" (87.3 mm), 3/4" (19.1 mm), 1-13/16" (46.0 mm), 2-25/32" (70.6 mm), 1-1/2" DIA. (38.1 mm).</p>	<p>Dimensions for LS-1900TFE: TEFLON® JACKETED LEAD WIRES, 1/4" NPT, 21/32" HEX (16.7 mm), 13/16" (20.6 mm), 92" (22.3 mm), 3-15/32" (88.1 mm), 2-21/32" (67.5 mm), 1-15/16" (49.2 mm), 2-1/8" DIA. (54 mm).</p>	<p>Dimensions for LS-1700TFE: WIRE 22 AWG. TEFLON JACKETED 24" TO 26" (610 mm to 660 mm) EXTENDED LENGTH, 1/8" NPT REF., 5/8" REF. (15.9 mm), 1/2" HEX. REF. (12.7 mm), ACTUATION LEVEL, 2-1/2" REF. (63.5 mm), 1-31/32" REF. (50.0 mm), #174105. FLOAT, #174106. RETAINING CLIP, 1-1/8" DIA. REF. (28.5 mm), 5/16" DIA. REF. (7.9 mm).</p>

†L_s = Switch actuation level, nominal (based on a liquid specific gravity of 1.0 and N.O. dry circuit—dimension will vary for N.C. circuit).

Common Specifications

Electrical Termination: No. 18 AWG, 24" L., Lead Wires (Jacket material is indicated on dimensional drawings, above).

RoHS: In compliance with EU-directive 2011/65/EC requirements for chemicals and substances.

How To Order – Select Part Number based on specifications required.

Series Number	Materials		Min. Liquid Sp. Gr.	Operating Temperature	Pressure, PSI, Max.	Switch*	Part Number	
	Stem, Mounting and Other Wetted	Float					Mounting Size	
							1/4" NPT	1/8" NPT
LS-74780	CPVC		.85	-40°F to +180°F (-40°C to +82.2°C)	15	SPST, 20 VA	74780** ⚡	—
LS-1900TFE	Teflon®		.80	-40°F to +300°F (-40°C to +148.9°C)	30	SPDT, 20 VA	133299 ⚡	—
LS-1700TFE	PTFE		.86	+32°F to +212°F (0°C to +100°C)	25	SPST, 20 VA, N.O.	—	174100 ⚡
						SPST, 20 VA, N.C.	—	174200 ⚡

* See "Electrical Data" on Page X-5 for more information.

** Switch operation is selectable, N.O. or N.C., by inverting the float on the unit stem. Units are shipped N.O. unless otherwise specified.

†† 100 VA switches are not U.L. Recognized.

⚡ – Stock Items.

Large Size – Alloys

LS-1800 and LS-1900 Series are a Step Above Our Plastic Units for Pressure Capabilities

Excellent stability for general use in oils and water.

LS-1800 Series –
Buna N Float



LS-1800 Series –
Teflon® Float



LS-1900 Series –
Buna N Float



Intermediate in size, LS-1800 switches provide long life and dependability to meet a broad range of requirements.

With large float displacement, switch withstands rough service; is suitable for high viscosity liquids.

Dimensions

LS-1800 Series		LS-1900 Series
Buna N Float	Teflon® Float	Buna N Float
<p>17/32" (13.5 mm) 1/8" NPT 1/2" HEX (12.7 mm) 2-15/16" (74.6 mm) 7/8" (22.2 mm)† 1-3/4" (44.5 mm) 2-13/32" (61.1 mm) 1-1/4" DIA. (31.7 mm)</p>	<p>17/32" (13.5 mm) 1/8" NPT 1/2" HEX (12.7 mm) 2-15/16" (74.6 mm) 7/8" (22.2 mm)† SPRING 1-3/4" (44.5 mm) 2-13/32" (61.1 mm) FLAT WASHER 1-1/4" DIA. (31.75 mm)</p>	<p>21/32" (16.7 mm) 1/4" NPT 5/8" HEX (15.9 mm) 3-3/16" (80.9 mm) 1-3/16" (30.2 mm)† 2-17/32" (64.3 mm) 1-13/16" (46.1 mm) 1-7/8" DIA. (47.6 mm)</p>

†L₁ = Switch actuation level, nominal (based on a liquid specific gravity of 1.0).

Common Specifications

Electrical Termination: No.18 AWG, 24" L., Polymeric Lead Wires.

Approvals: All Switches on this page are U.L. Recognized – File No. E45168, and are CSA Listed – File No. 30200.
RoHS – In compliance with EU-directive 2011/65/EC requirements for chemicals and substances.

Switch Operation: Selectable, N.O. or N.C., by inverting float on unit stem (except for LS-1800 Series switch with Teflon® float). Units are shipped N.O. unless otherwise specified.

How To Order – Select Part Number based on specifications required.

Series Number	Material			Min. Liquid Sp. Gr.	Operating Temperature	Pressure, PSI, Max.	Switch* SPST	Part Number
	Stem and Mounting	Float	Other Wetted					
LS-1800	Brass	Buna N	316 Stainless Steel, Hysol	.75	Water: to 180°F (82°C) Oil: -40°F to +230°F (-40°C to +110°C)	150	20 VA	01801 ⚡
		100 VA**		35651 ⚡				
	316 Stainless Steel	Buna N		.75	-40°F to +250°F (-40°C to +121°C)	300	20 VA	01807 ⚡
		Teflon®		.65			20 VA, N.O.	01811 ⚡
LS-1900	Brass	Buna N	316 Stainless Steel, Hysol	.55	Water: to 180°F (82°C) Oil: -40°F to +230°F (-40°C to +110°C)	150	20 VA	01901 ⚡
				100 VA***			35676 ⚡	
	316 Stainless Steel			.55	20 VA	01907 ⚡		
							100 VA	35682 ⚡

*See "Electrical Data" on Page X-5 for more information.
**LS-1800 100 VA switches are not U.L. Recognized.

*** LS-1900 100VA unit is UL Resistive Rated.