Large Size – Engineered Plastics

LSP-800 Series -

Features Inert Materials for Corrosive Liquids

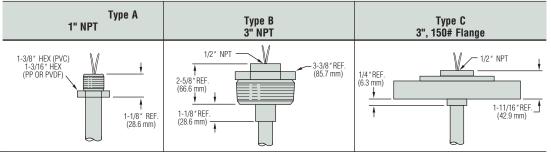
- ▶ All-Plastic Wetted Parts PVC, Polypropylene or PVDF
- ▶ 1 to 6 Actuation Levels
- ▶ Lengths to 70 inches

Specifically designed for corrosive liquids and vapors. Three standard model types in a choice of materials offer broad chemical compatibility.

ORDERITI Ordering is Easy! See Page B-26. Easy online ordering too!

1. Mounting Types

Each mounting type can be configured with stem lengths (L_0) and materials indicated in the table below. Floats and float stop collars are of same material specified for mounting.



Stem, Mounting, Float and Collar Material	PVC, Polypropylene or PVDF			
Max. Length (L ₀)	70 inches (177.8 cm)			
Mounting Position	Vertical ±30° Inclination			

2. Float Types

Float Material	PVC	Polypropylene	PVDF			
Float Dimensions	2.28" (58 mm) 2.84" Dia. (72 mm)	2.28* (58 mm) 	2.28" (58 mm) 2.84" Dia. (72 mm)			
Operating Temperature and Pressure	See Ratings Chart at top of following page					
Min. Liquid Specific Gravity	0.60	0.40	0.75			

Note: Floats are always supplied in same material as specified for mounting.



LSP-800 Series - Continued

Temperature and Pressure Ratings Chart

Maximum Pressure vs. Temperature

	Operating Temperature							
LSP-800 Material	0°F (-17.7°C)	70°F (21.1°C)	100°F (37.7°C)	125°F (51.7°C)	140°F (60.0°C)	170°F (76.6°C)	200°F (93.3°C)	210°F (98.8°C)
PVC	50 PSI (3.4 bar)	50 PSI (3.4 bar)	35 PSI (2.4 bar)	20 PSI (1.4 bar)	10 PSI (0.68 bar)	Х	Х	Х
Polypropylene	50 PSI (3.4 bar)	50 PSI (3.4 bar)	40 PSI (2.7 bar)	35 PSI (2.4 bar)	30 PSI (2.0 bar)	25 PSI (1.7 bar)	Х	Х
PVDF	50 PSI (3.4 bar)	50 PSI (3.4 bar)	45 PSI (3.1 bar)	40 PSI (2.7 bar)	35 PSI (2.4 bar)	30 PSI (2.0 bar)	25 PSI (1.7 bar)	25 PSI (1.7 bar)

3. Electrical Specifications

Switch (N.O. or N.C.):

SPST: 20 VA or 100 VA

SPDT: 20 VA

Lead Wires: #22 AWG, 24" L., Polymeric

Typical Wiring Diagrams

For clarity, only two actuation levels are shown in each

group diagram.

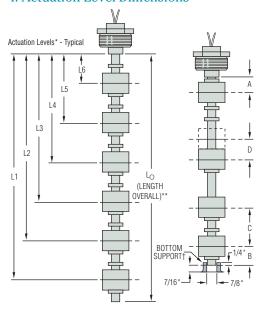
GROUP I SPST	GROUP II SPST	GROUP III SPDT	GROUP IV SPDT	
			5	

Wiring Color Code

None		
IC		
lk/Red		
3lk/Yel		
3lk/Blu		
Blk/Brn		
lk/Orn		
3lk/Gra		
3		

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

4. Actuation Level Dimensions



- * Actuation level distances and $\rm L_{\rm o}$ (overall unit length) are measured from inner surfaces of mounting plug or flange.
- ** Length Overall L₀ = L₁ + Dimension B. See Mounting Types for Maximum Length values.
- † Bottom support recommended for units longer than 36 inches, or in applications having turbulent conditions.

Switch actuation levels are determined following the guidelines below.

- A = 2-1/16" (52.4 mm) $\pm 1/16$ " minimum distance to centerline of float (ref. mounting).
- $B = 2\text{-}11/16\text{''} (68.3 \text{ mm}) \pm 1/16\text{''} \text{ minimum distance to} \\ \text{centerline of float (ref. stem end)}.$
- C = 3-1/2" (88.9 mm) minimum distance between actuation levels.
- D = Distance between actuation levels using one float.

Minimum = 1/4'' (6.3 mm)

Maximum = 3-1/2'' (88.9 mm)

Notes:

- The centerline of the float is used as a standard reference for actuating the switches.
- All levels are set on descending float travel with overtravel = 1/4" (6.3mm) ±1/8" (3.2mm).
 Overtravel on Ascending = 1/8" (3.2mm) min.
- 3. Tolerance on all actuation levels is $\pm 1/8$ " (3.2 mm) Ref.