

SELF-CHECKING HIGH LEVEL INDICATOR

LV150 Series



- ✓ Manually "Press to Check"
- ✓ Adjustable Versions for Various Tank Sizes
- ✓ Standard 2 NPT Mounting

The LV150 Series high level indicators provide a unique solution for tank overflow indication requiring self-checking. This indicator is designed with a 2 NPT mounting, making it ideal for use in underground and aboveground storage tanks. When mounted vertically at the tank top, it reliably indicates high liquid level.

To operate, simply press the brass tube fitting down to perform the self-check test. This manual operation physically moves the inner reed switch assembly while the float remains stationary (wet or dry). By doing this, the switch logic is inverted, checking the integrity of the circuitry without the need to remove the unit from the tank.

Adjustable versions are available for varying tank sizes. A special cinch nut on the mounting allows the stem to travel up or down to fine-tune actuation points. The extent of the adjustment depends on the unit's length and distance from the mounting to the highest float stop.

The LV150 Series is offered in integral one foot lengths. For other lengths, adaptor systems are available. They consist of 2 parts: the LVR-C6S coupling (2 x 2 FNPT) and an LVR-6S pipe nipple (2 x 2 MNPT)

of various lengths to change the insertion depth of the sensor. When using the adaptors, retaining clip pliers are required to remove the float for installation.

SPECIFICATIONS

Wetted Materials:

Stem and Mounting: Brass or 316 stainless steel

Float: Buna or 316 stainless steel

Operating Temperature for Buna Floats:

Water: Up to 82.2°C (180°F)

Oil: -40 to 121.1°C (-40 to 250°F)

316 SS Floats: -40 to 148.9°C (-40 to 300°F)

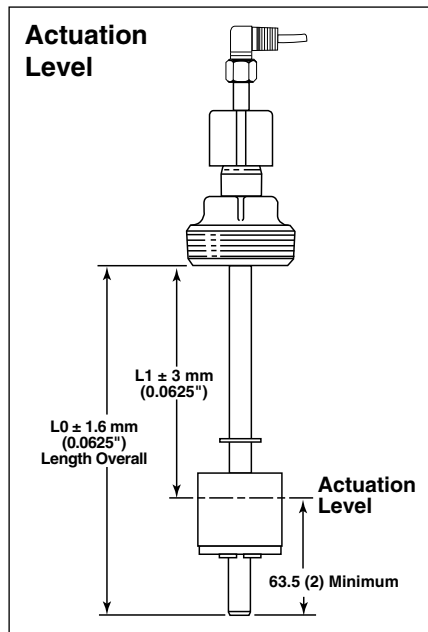
Pressure Limitations: Up to 150 PSIG for Buna float units or when used with 316 SS adaptors; up to 750 PSIG for 316 SS float units.

Accuracy: ±3 mm (±1/8")

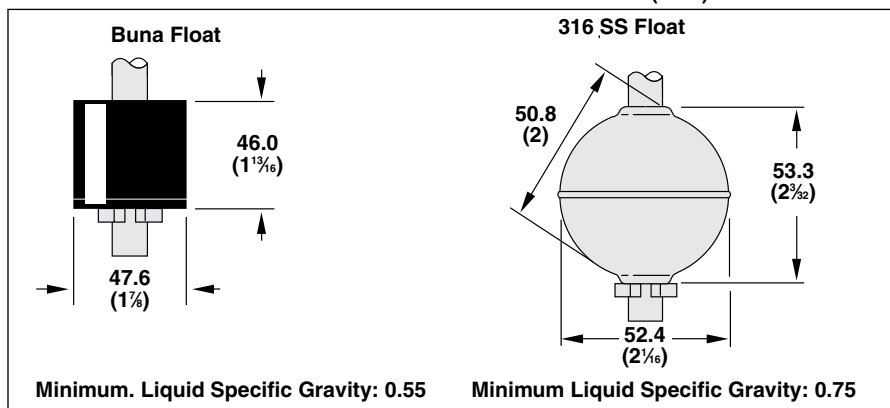
Switch Rating: 20 VA, 120-240 Vac pilot duty; 20 W, 50-240 Vdc resistive

Cable: 24" 2 conductor PVC jacketed

Weight: 1 1/4 lb + 1/2 lb/ft for indicators; 1 1/4 lb for LVR-C6S

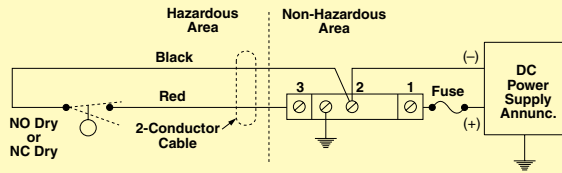


Dimensions: mm (inch)

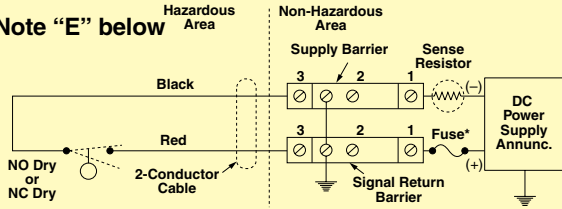


Typical Wiring Diagrams

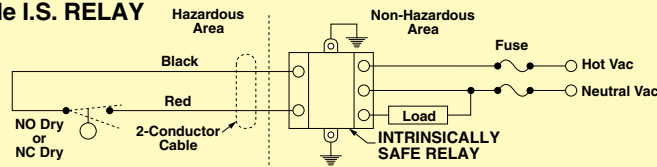
See Note "D" below



See Note "E" below



See Note "F" below
Single I.S. RELAY



D: Non-isolated System-Zener Barrier

E: Isolated System-Zener Barrier

F: If two signal lines must be maintained above ground potential, an individual zener barrier is required per single line.



LVR-6S Pipe Nipples

LVR-C6S Coupling

To Order		
Brass/Buna Std Mount	316 SS Std Mount	"LO" Length
Model No.	Model No.	
LV151	LV151SS	1 ft
LV152	LV152SS	2 ft
LV153	LV153SS	3 ft
LV154	LV154SS	4 ft
LV155	LV155SS	5 ft
LV156	LV156SS	6 ft

Comes complete with operator's manual.
For units with adjustable mount, add suffix "-A" to model number, for brass and 316 SS units, for an additional cost.

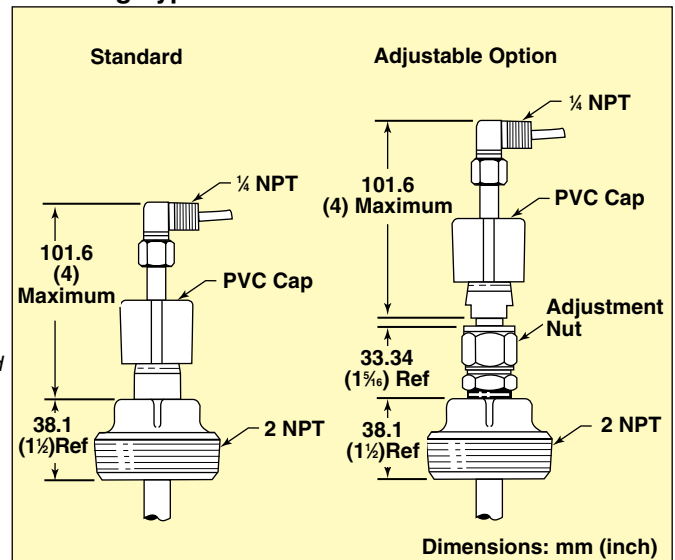
Ordering Examples: LV151, "press to check" level switch with brass construction a Buna float, adjustable mount and an "LO" length of 12".
LV152SS, "press to check" level switch with all 316 SS construction and an "LO" length of 24".

LV156SS-A, "press to check" level switch with all 316 SS construction, adjustable mount, and an "LO" length of 72".

Accessory

Model No.	Description
LVR-C6S	150 lb 316 SS coupling with 2 x 2 FNPT

Mounting Types



150 lb 316 SS Pipe Nipples

Model No.	Weight	Insertion Length Change	Model No.	Weight	Insertion Length Change	Model No.	Weight	Insertion Length Change
LVR-6S4	3/4 lb	4"	LVR-6S7	1 1/2 lb	7"	LVR-6S13	3 lb	13"
LVR-6S5	1 lb	5"	LVR-6S9	2 lb	9"			
LVR-6S6	1 1/4 lb	6"	LVR-6S11	2 1/2 lb	11"			

Ordering Example: LVR-6S11, 316 SS, nipple and LVR-C6S, 316 SS coupling.
This adaptor system will decrease overall insertion length by a nominal 11".