

PUMP UP/PUMP DOWN LEVEL CONTROLS

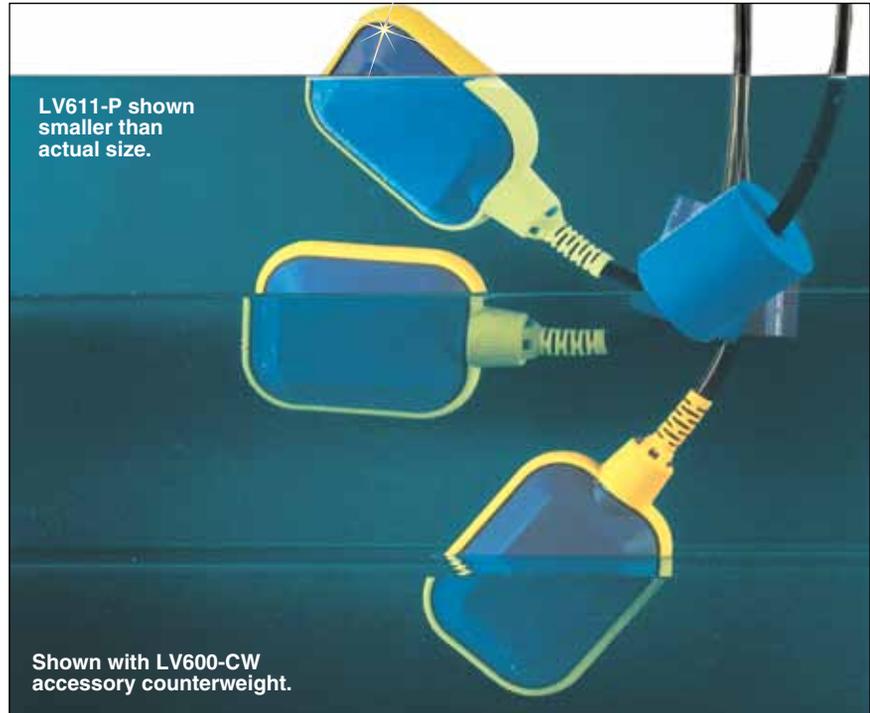
No Hazardous Mercury Switches Required

LV600 Series



- ✔ Use One Switch for Differential or High/Low Control
- ✔ Adjustable Level Differential from 15.2 cm to Over 30.5 m (6" to Over 100')
- ✔ Case and Cable Hermetically Sealed by Plastic Injection Molding
- ✔ Circular and Rectangular Designs

The LV600 Series unique float level switches provide an economical means of pump-up/pump-down level control with just one level switch. The ON/OFF differential is set by adjusting the length of cable over which the LV600 is allowed to float. Depending on whether the LV600 is floating with the cable UP or DOWN (see drawing), the 15 amp relay is on or off. The relay changes state when the LV600 is above or below the fixed point by 80% of the cable length. For example, if the cable is fixed for 3 m (10') of free cable, the LV600 will trigger at 2.5 m (8') above and below the fixed point.



Thus, turbulence will generally not cause false switching.

The cable can be fixed to a pipe, or the accessory counterweight can be used by slipping it over the cable (see drawing). The mechanical SPDT switch has no potentially dangerous mercury, is rated for 15 A at 250 Vac, and can switch more than 100,000 times. The internal microswitch relay carries UL and CSA approvals.

The case and cable are hermetically sealed by a two-step plastic injection molding process to ensure a leak-tight seal.

SPECIFICATIONS

Minimum Fluid Specific Gravity: 0.62 for LV610; 0.72 for LV620
Minimum/Maximum Level Differential: Approximately 152 mm (6") to 3', depending on cable length
Operating Temperatures: PVC Cable; Switch Rating: SPDT, 15 A @ 250 Vac, -25 to 50°C (-13 to 122°F); Neoprene Cable; -25 to 50°C (-13 to 122°F)
Operating Pressure: 75 psig at 21°C (70°F) Pressure rating decreases with increasing temperature
Wetted Surfaces: Polypropylene body and PVC or Neoprene cable
Counterweight: Polypropylene 50.8 mm diameter x 57.1 mm H (2" diameter x 2.25" H)

Caution:
 Level switches are manufactured to the highest quality specifications. However, due to their economical construction, they should be used only for applications where, in the event of product failure, the risk of damage to equipment or personnel would be minimized. In the case of level switches, one or two back-up switches should also be used to insure that failure of any one switch will be mitigated by the back-up level switches. The user should periodically inspect the product's performance in the actual application. Use of the products beyond the recommended capabilities and lifespan are specifically not recommended.

To Order			
Model No. PVC Cable	Model No. Neoprene® Cable	Weight kg (lb)	Cable Length m (ft)
Rectangular Design			
LV611-P	LV611-N	0.23 (0.5)	0.46 (1.5)
LV612-P	LV612-N	0.64 (1.4)	4.5 (15)
LV613-P	LV613-N	1.55 (3.4)	13.7 (45)
LV614-P	LV614-N	2.00 (4.4)	18.3 (60)
Circular Design			
LV621-P	LV621-N	0.34 (0.75)	0.46 (1.5)
LV622-P	LV622-N	0.75 (1.65)	4.5 (15)
LV623-P	LV623-N	1.66 (3.65)	13.7 (45)
LV624-P	LV624-N	2.1 (4.65)	18.3 (60)

Accessory

Model No.	Description	Weight kg (lb)
LV600-CW	Counterweight	0.23 (0.5)

Comes complete with operator's manual.

Ordering Examples: LV621-P, circular level control, 0.75 lb weight, PVC cable, and LV600-CW, counterweight.

LV611-N, rectangular level control, 0.75 lb weight, neoprene cable.

