

# NIVOFLOAT NL/NW

FLOAT LEVEL SWITCHES FOR POTABLE WATER, SEWAGE

3 YEARS WARRANTY



# NIVELCO

LEVEL SWITCHES

The **NIVOFLUAT NL-100** float level switch is suitable for clean or slightly contaminated water. The **NIVOFLUAT NW-100** tilting-float level switch is for sewage, tanks, basins, or cisterns. The waterproof dual-chambered float is injection-molded polypropylene, and the microswitch is incorporated into the float.

The cable is lead through a waterproof sealed entry point into the monolithic structure of the injection-molded plastic housing. It uses three copper wires of 1 mm<sup>2</sup> (AWG17) cross-section, insulated with PVC or Neoprene. The double-walled design provides outstanding safety for users in terms of life and touch protection. In addition, the **NIVOFLUAT** is suitable for various control tasks, such as liquid level monitoring and pump control. These devices serve reliably provided their operating conditions are appropriately selected.

## NL-100

### OPERATION

The **NIVOFLUAT NL-100** type float level switch featuring mercury-free contact is suitable for level switching of drinking water, raw water or polluted liquids with low solid content. The double-chambered float and the sealing of the cable outlet provide hermetic sealing and water-proof operation.

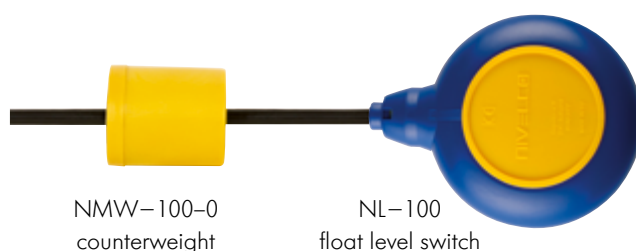
The **NIVOFLUAT NL-100** is floating on the level of the measured liquid because its relative density is less than the water. The level switching is done when the contact reaches the switching angle. The switching differential of the level switch is adjustable by the position of the counterweight on the cable. The level switches should be arranged appropriately in case of multi-level switching tasks to avoid undesired tangling of the cables.

### FEATURES

- Dual-chambered float
- Switching differential is adjustable by counterweight
- Up to 20 m (66 feet) cable length
- Medium temperature up to +50 °C (+122 °F)
- Process pressure maximum 1 bar (14.5 psi)
- Variants for potable water available
- IP68

### APPLICATIONS

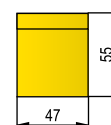
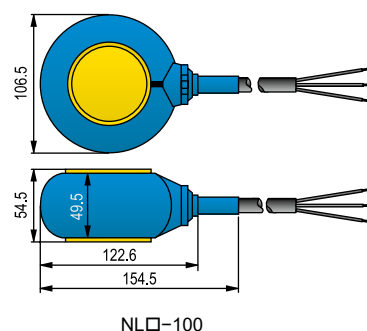
- Potable water
- Industrial and communal sewage
- Tank filling/emptying control
- Overfill protection



### TECHNICAL DATA

NLO-100-1	
Switching angle	+20° / -45°
Process temperature	0...+50 °C (+32...+122 °F)
Process pressure	up to 1 bar (14.5 psi)
Material of the float	Non-toxic Polypropylene (PP)
Material of the counterweight	Polystyrene
Float volume	384 cm <sup>3</sup> (23.4 in <sup>3</sup> / 0.1 gal)
Rating of the microswitch	16(4) A, 250 V AC, AC1 20(8) A, 250 V AC, AC1
Electrical life-span	10 <sup>7</sup> switches
Ingress protection	IP68
Cable	Ø9 mm (0.35") / 3 × 1 mm <sup>2</sup> (AWG17)
Cable length	5 m (16.5 ft), 10 m (33 ft), 20 m (66 ft)
Weight (without cable)	235 g (0.52 lb)

### DIMENSIONS



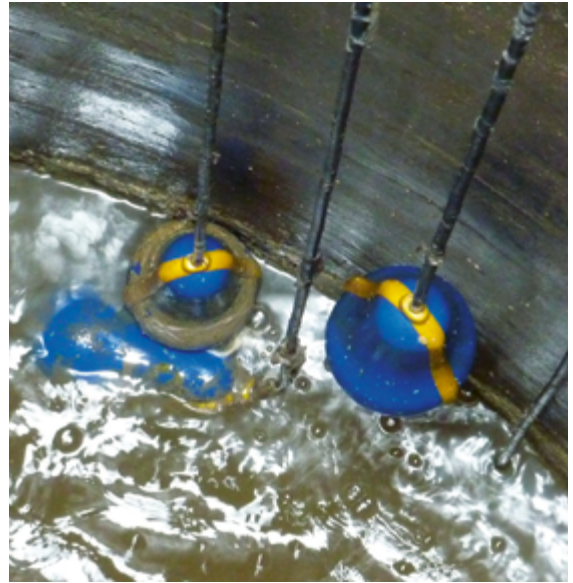


## NW-100

### OPERATION

The NIVOFLOAT NW-100 tilting level switch featuring mercury free contact is suitable for level switching of sewage, polluted liquids or drinking water. The double-chambered float and the sealing of the cable outlet provide hermetic sealing and water-proof operation.

The float should be immersed to the required level and fixed if needed. At the given level, the float will switch by tilting. The special shape of the float ensures proper tilting without using a counterweight.

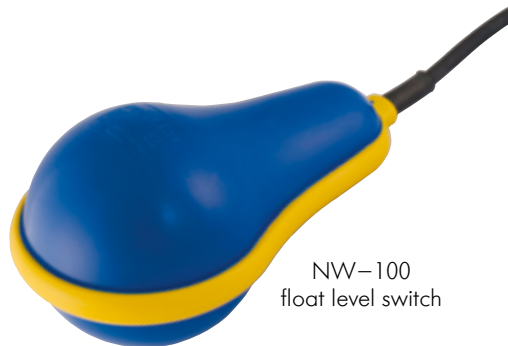


### FEATURES

- Special float shape
- Dual-chambered float
- Up to 20 m (66 feet) cable length
- Medium temperature up to +50 °C (+122 °F)
- Process pressure maximum 2 bar (30 psi)
- Variants for potable water available
- IP68

### APPLICATIONS

- Industrial and communal sewage
- Suitable for drinking water
- Tank filling/emptying control
- Overfill protection

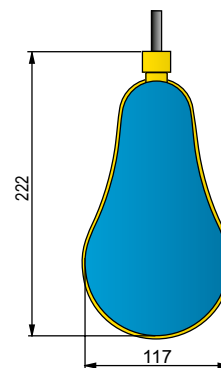


NW-100  
float level switch

### TECHNICAL DATA

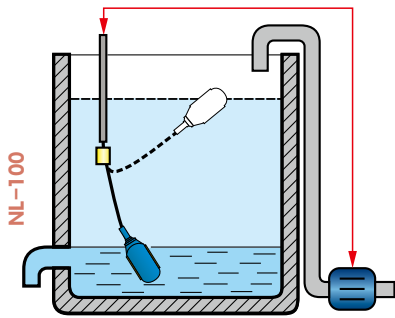
NW-100-1	
Switching angle	±45°
Process temperature	0...+50 °C (+32...+122 °F)
Process pressure	up to 2 bar (30 psi)
Material of the float	Non-toxic Polypropylene (PP)
Float volume	1000 cm <sup>3</sup> (61 in <sup>3</sup> / 0.27 gal)
Rating of the microswitch	10(3) A, 250 V AC, AC1
Electrical life-span	10 <sup>7</sup> switches
Ingress protection	IP68
Cable	Ø9 mm (0.35") / 3 × 1 mm <sup>2</sup> (AWG17)
Cable length	5 m (16.5 ft), 10 m (33 ft), 20 m (66 ft)
Weight (without cable)	1.1 kg (2.4 lb)

### DIMENSIONS

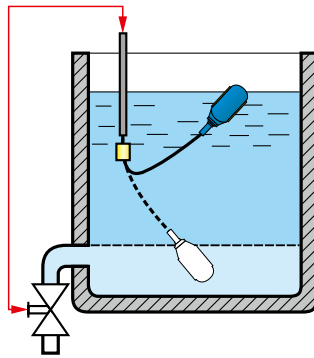


NW-100

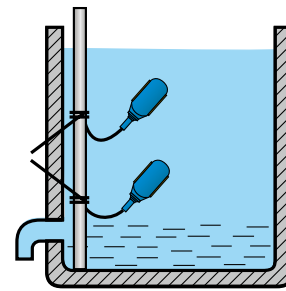
## SAMPLE APPLICATIONS



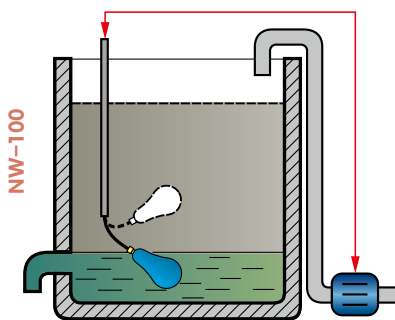
FILLING CONTROL



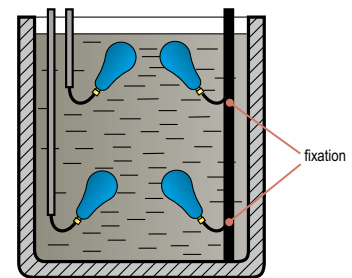
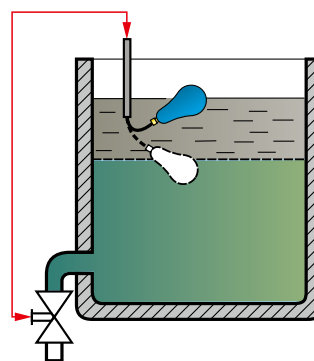
EMPTYING CONTROL



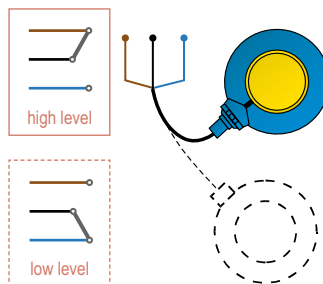
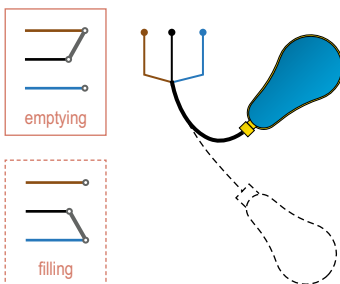
MULTI-LEVEL SWITCHING



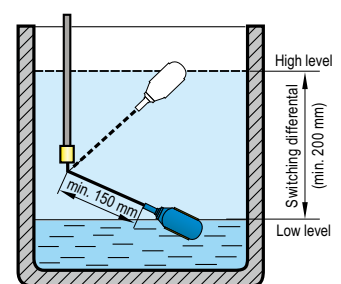
NW-100



## WIRING



## INSTALLATION



## ORDER CODES (NOT ALL COMBINATIONS AVAILABLE)

NIVOFLOAT N ■ ■ -1 ■ ■ -1

Type	Code
For clean water	L
For waste water	W

Cable material	Code
Neoprene	N
PVC	P

Cable length	Code
5 m (16.5 ft)	05
10 m (33 ft)	10
20 m (66 ft)	20

Without Counterweight\*

\*The NIVOFLOAT NMW-100-0 counterweight can be ordered separately.

[next.nivelco.com](http://next.nivelco.com)



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