

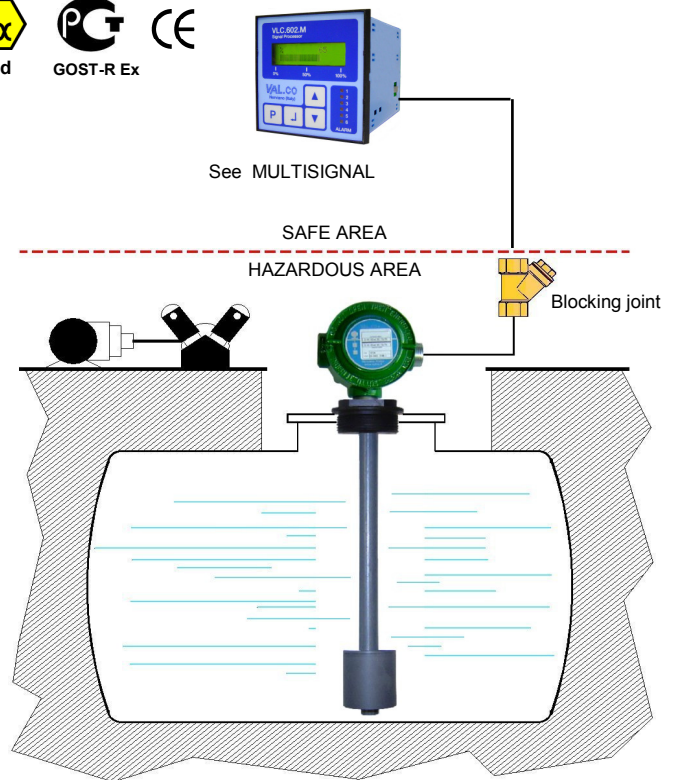
APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 94/9/EC - ATEX



These instruments, explosion-proof certified:

CESI 03 ATEX 272 Ext.2 II 1/2G Exd IIB T5/T6 Ga/Gb, are used to control the level of liquids or fuels inside tanks, both underground and outdoors, installed in hazardous areas where flammable products are treated.

The principle of operation is potentiometric type, based on the gradual shutdown of a chain of resistors and reed contacts, placed inside of the measuring rod by a magnetic float.



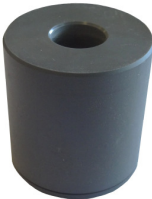


GENERAL CHARACTERISTICS

- **PVC – PP – PVDF**
- Measuring resolution 5 mm.
- Potentiometric signal output (**LC**).
- 4-20mA analog output (**LCT**).
- Up to 5 m length.
- Maximum working pressure 6 Bar.
- Working ambient temperature.
 - 40/+40°C = T6, -40/+60 °C = T5
- Standard working temperature up to 130°C.
- Minimum degree of protection IP65
- Built-in temperature sensors, on request.
 - PT – PTC – NTC

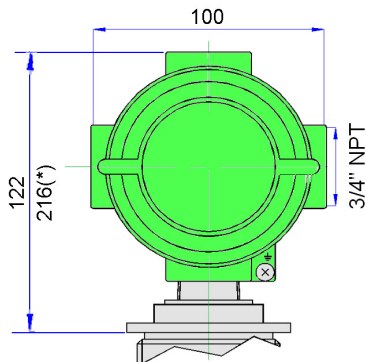
FLOATS

Tab.1

			
	F49 Ø49x53	P49 Ø49x53	V49 Ø49x53
Material	PVDF	PP - Polypropylene	PVC
Specific gravity	0,8	0,45	0,7
Measuring resolution - mm	5	5	5
Max. pressure – Bar	6	3	6
Max. temperature – Class	L = 100°C	D = 90°C	B = 60°C
On request	N = 130°C	-	-

ELECTRICAL OUTPUT

Tab.2



E1
IP65 Housing

With heatsink - see dimension (*)
LC – LCT = Temperature class **N**

PROCESS CONNECTIONS

Tab.3

Type of float	Installation from outside – available threads and flange			
	50 2"	DN65 Flange	DN80 Flange	DN100 Flange
F49	•	•	•	•
P49	•	•	•	•
V49	•	•	•	•

Male thread

G	C	N
Parallel UNI 228/1	Conical UNI 7/1	Conical NPT

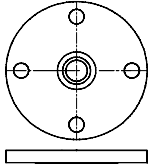
Available materials

F	P	V
PVDF	PP	PVC

DN = Available materials

V	S
PVC	AISI 316 On request

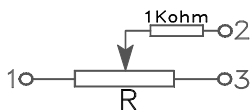
FLANGES



DN = UNI – DIN – ANSI Flanges

WIRING

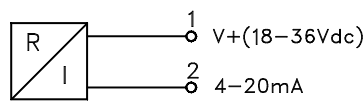
POTENTIOMETRIC OUTPUT



$R = 1K\Omega \div 15K\Omega$
Depending on LM

LC

4-20 mA output



Max. load 500 Ω
Power supply 18 \div 36 Vdc

LCT

DIMENSIONS

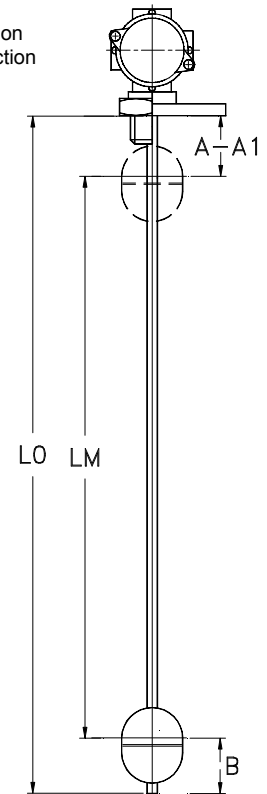
mm.

Tab.4

The dimensions L0 and LM are referred to the stop of the fitting (A1) or flange (A) connection. Tolerance on dimension L0 and LM ± 3 mm.

	F49	P49	V49
A	25	25	25
A1	45	45	45
B	35	35	35

Damping tube		- V	- S
On request	—	PVC	AISI-316



OPTION – Built-in temperature sensor

Only for LC type = On request, it is possible to install a temperature sensor located at the bottom of the rod inside the instrument.

PT100 – PT1000	PTC	NTC
EN 60751 – IEC 751	Resistance a 25°C $\leq 500 \Omega$	Resistance a 25°C 2-5-10-50-100 K Ω
Class B – (Class A on request)	Temperature 60°C \div 130°C	Precision $\pm 5\%$ / $\pm 3\%$ (on request)

NOMENCLATURE

LC V49 05 1300 / 1380 V -V 50 G V E1 B

LC	V49	05	1300 / 1380	V	-V	50	G	V	E1	B	
•											Type: LC – LCT
	•										Tab.1 Float
		•									Tab.1 Measuring resolution (mm).
			•								Tab.4 Measuring length LM / Total length L0 (mm).
				•							Tab.3 Stainless steel rod material.
					•						Tab.4 Presence of damping tube and material (option).
						•					Tab.3 Process connection dimension.
							•				Tab.3 Process connection thread.
								•			Tab.3 Process connection material.
									•		Tab.2 Electrical output.
										•	Tab.1 Temperature class.

All level controls Exd certified must be connected by interposing the appropriate blocking joints according to the European Standard EN 50018.