

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

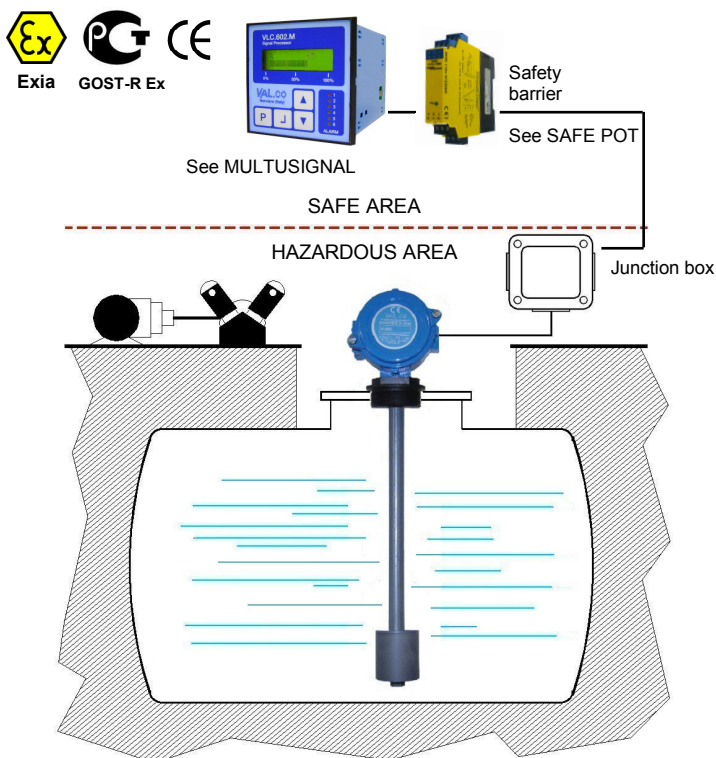
These instruments, intrinsically safe certified:

CESI 03 ATEX 265 Ext.2 II 1G Exia IIC T4/T5/T6 Ga,
CESI 03 ATEX 265 Ext.2 II 1/2G Exia IIC T4/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**).
- 0-10V analog output via safety barrier **SAFE POT**.
- Up to 5 m length.
- Maximum working pressure 6 Bar.
- Working ambient temperature.
 -40/+40°C = T6, -40/+55 °C = T5, -40/+80 °C = T4
- Standard working temperature up to 130°C.
- Minimum degree of protection IP65



FLOATS

Tab.1

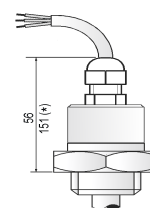
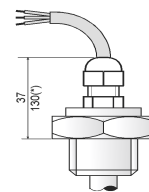
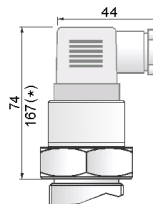
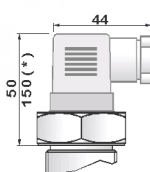
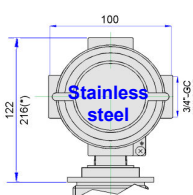
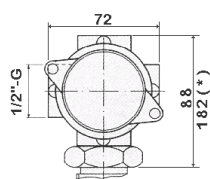


	F49 Ø49x53	P49 Ø49x53	V49 Ø49x53
Material	PVDF	PP - Polypropylene	PVC
Specific gravity	0,8	0,45	0,7
Measuring resolution - mm	5	5	5
Max. pressure – Bar	6	3	6
Max. temperature – Class	L = 100°C (T5) - N = 130°C (T4)	D = 90°C (T6)	B = 60°C (T6)
On request	N = 130°C (T5) (T6)	-	-

ELECTRICAL OUTPUT

Tab.2

I1	I3	IS1	IS1	IP1 - IP2	IP1 - IP2
IP65 Housing (2G)	IP66 Housing (1G)	DIN 43650 IP65 (1G)	DIN 43650 IP65 (1G)	Cable gland (1G)	Cable gland (1G)
LC = 3 terminals LCT = 2 terminals	LC = 3 terminals LCT = 2 terminals	DIN 43650 29x29	DIN 43650 29x29	IP1 Brass IP68 IP2 Polyamide IP67	IP1 Brass IP68 IP2 Polyamide IP67



LC – LCT	LC – LCT	LC	LCT	LC	LCT
With heatsink – see dimension (*)		LCT = Temperature class N (T5) (T6)			

PROCESS CONNECTIONS

Tab.3

Installation from inside only LC = IP1-2			Installation from outside - available thread and flanges			
10 3/8"	15 1/2"	Float type	50 2"	DN65 Flange	DN80 Flange	DN100 Flange
All type of floats All type of thread			•	•	•	•
			•	•	•	•
			•	•	•	•

Male thread

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

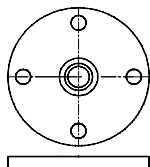
Available materials

F	P	V
PVDF	PP	PVC

DN = Available materials

V	S
PVC	AISI 316 On request

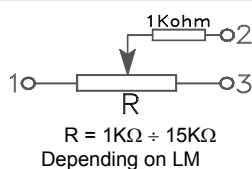
FLANGES



DN = UNI – DIN – ANSI Flanges

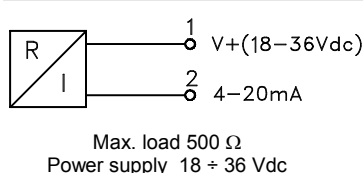
WIRING

POTENTIOMETRIC OUTPUT



LC

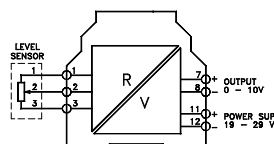
4-20 mA output



LCT

0-10 V output

Available on SAFE POT barrier



SAFETY BARRIER

All Exia level controls must be electrically connected to the active or passive barriers according to the European Standard EN 50020. See technical bulletin SAFE POT e SAFE ANG.

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 \pm 3 mm.

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

Damping tube
On request

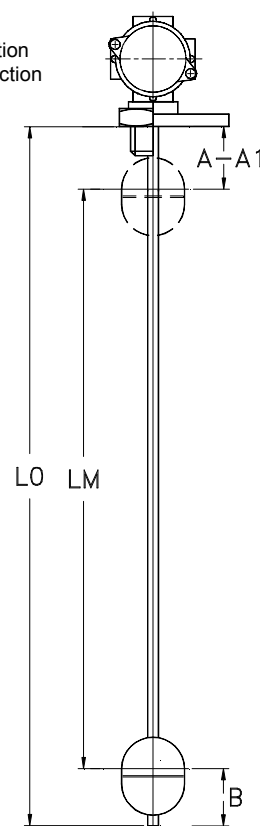
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– V

PVC

– S

AISI-316



NOMENCLATURE

LC	V49	05	1300 / 1380	V	– V	50	G	V	I1	B	1,5 M
•											
	•										
		•									
			•								
				•							
					•						
						•					
							•				
								•			
									•		
										•	
											•

Type : LC – LCT

Tab.1 Float

Tab.1 Measuring resolution (mm).

Tab.4 Measuring length LM / Total length L0 (mm).

Tab.3 Rod material.

Tab.4 Presence and material of damping tube (option).

Tab.3 Process connection dimension.

Tab.3 Process connection thread.

Tab.3 Process connection material.

Tab.2 Electrical output.

Tab.1 Temperature class.

Tab.2 Cable length (IP1 - IP2) 1,5m / 3m. Other on request.