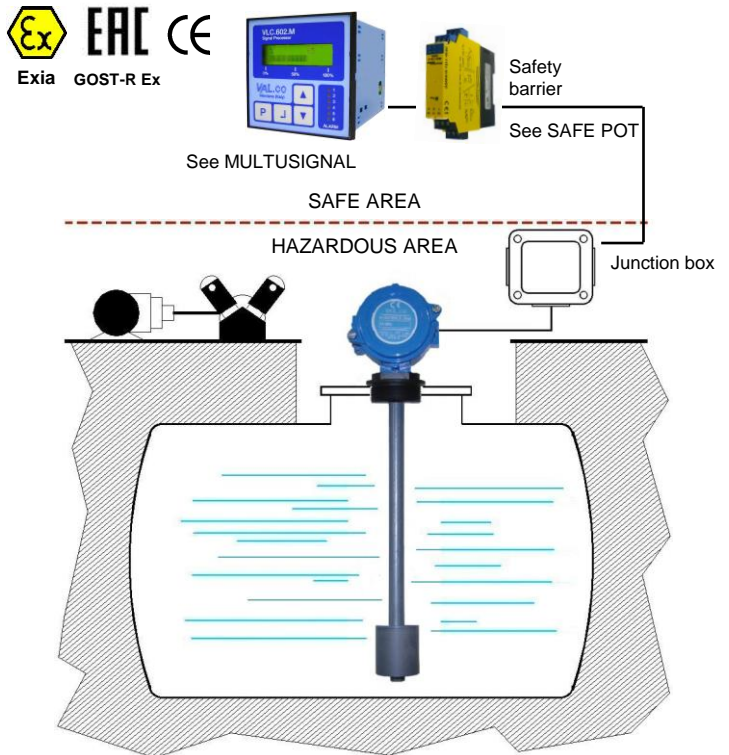


## APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 2014/34/EU - ATEX

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

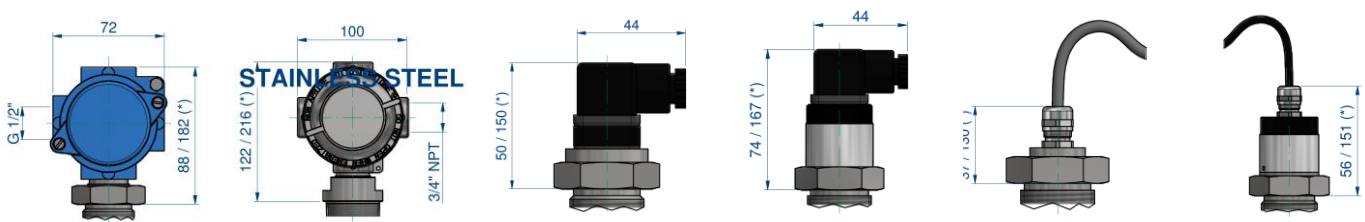


	F49 Ø49x53	P49 Ø49x53	V49 Ø49x53
Material	PVDF	PP - Polypropylene	PVC
Specific gravity	0,8	0,45	0,7
Measuring resolution - mm	5	5	5
Max. pressure – Bar	6	3	6
Max. temperature – Class	L = 100°C (T5) - N = 130°C (T4)	D = 90°C (T6)	B = 60°C (T6)
On request	N = 130°C (T5) (T6)	-	-

## ELECTRICAL OUTPUT

Tab.2

I1	I3	IS1	IS1	IP1 - IP2	IP1 - IP2
IP65 Housing (2G)	IP66/67 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		Float type	Installation from outside - available thread and flanges			
10 3/8"	15 1/2"		50 2"	DN65 Flange	DN80 Flange	DN100 Flange
All type of floats All type of thread		F49	•	•	•	•
		P49	•	•	•	•
		V49	•	•	•	•

### Male thread

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

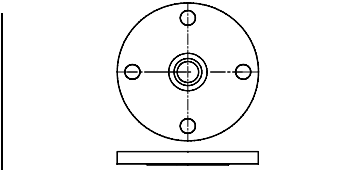
### Available materials

F	P	V
PVDF	PP	PVC

### DN = Available materials

V	S
PVC	AISI 316 On request

## FLANGES

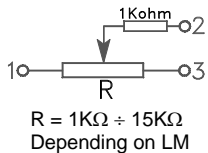


DN = UNI - DIN - ANSI Flanges

A Flanged connection  
A1 Threaded connection

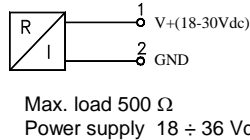
## WIRING

### POTENTIOMETRIC OUTPUT



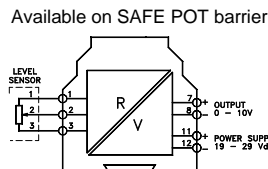
LC

### 4-20 mA OUTPUT

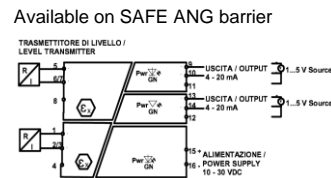


LCT

### 0-10 V output



### 1-5 V output



## SAFETY BARRIER

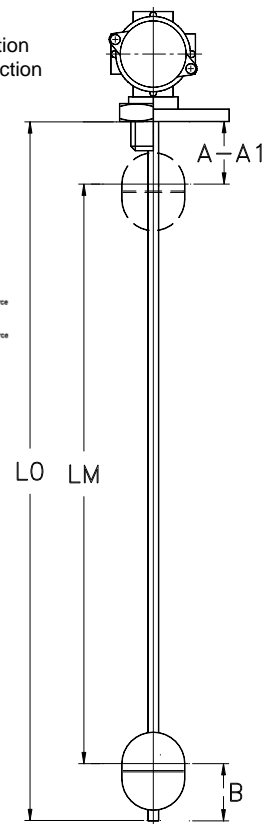
All Exia level controls must be electrically connected to the active or passive barriers according to the European Standard EN 50020. See technical bulletin SAFE POT e SAFE ANG.

## 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	- V	- S
On request	PVC	AISI-316



## NOMENCLATURE

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

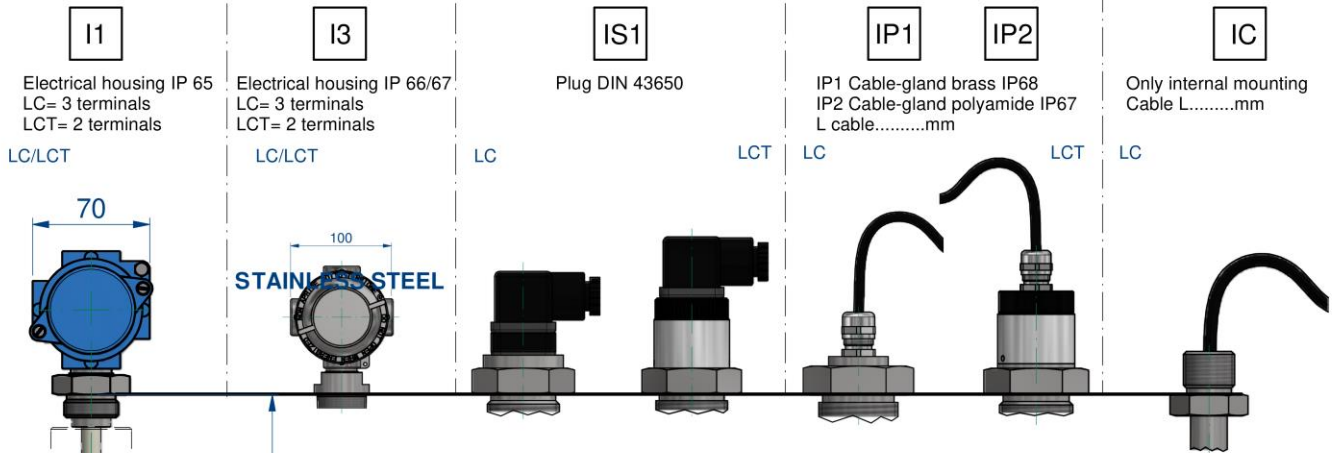
•												Type : LC - LCT
	•											Tab.1 Float
		•										Tab.1 Measuring resolution (mm).
			•									Tab.4 Measuring length LM / Total length L0 (mm).
				•								Tab.3 Rod material.
					•							Tab.4 Presence and material of damping tube (option).
						•						Tab.3 Process connection 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.



# LINEAR VF - ATEX I

## Request form

### External mounting

### Internal mounting



Liquid under control: ..... Specific gravity: ..... Maximum pressure: ..... Maximum temperature: .....	Approvals:   Exia GOST-R Ex
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Measuring resolution:

5 mm       10 mm       20 mm

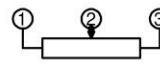

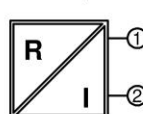
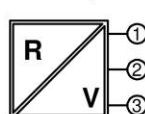
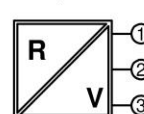
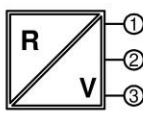
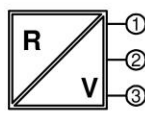
Process connection:

Threaded: .....       Flanged: .....

Material:

Brass       AISI-316       PVC       PP       PVDF

Electrical output:

<input type="checkbox"/> 3-wires potentiometer 	<input type="checkbox"/> 2-wires potentiometer 	<input type="checkbox"/> Calibrated potentiometer Empty tank = .....ohm Full tank = .....ohm
<input type="checkbox"/> 4 ÷ 20 mA output 	<input type="checkbox"/> 0.5 ÷ 4.5 V output 	<input type="checkbox"/> 1 ÷ 5 V output 
<input type="checkbox"/> 0 ÷ 5 V output 	<input type="checkbox"/> 0 ÷ 10 V output 	

Total length L0 (mm)

Measuring length LM (mm)