



LEVEL



FLOW



PRESSURE



TEMPERATURE



ELECTRONICS



# Датчики уровня взрывозащищенные стандарта АTEX E – EAC GOST серии LINEAR – V/F

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Единый адрес для всех регионов: [vck@nt-rt.ru](mailto:vck@nt-rt.ru) || <https://valco.nt-rt.ru/>

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

These instruments, explosion-proof certified:

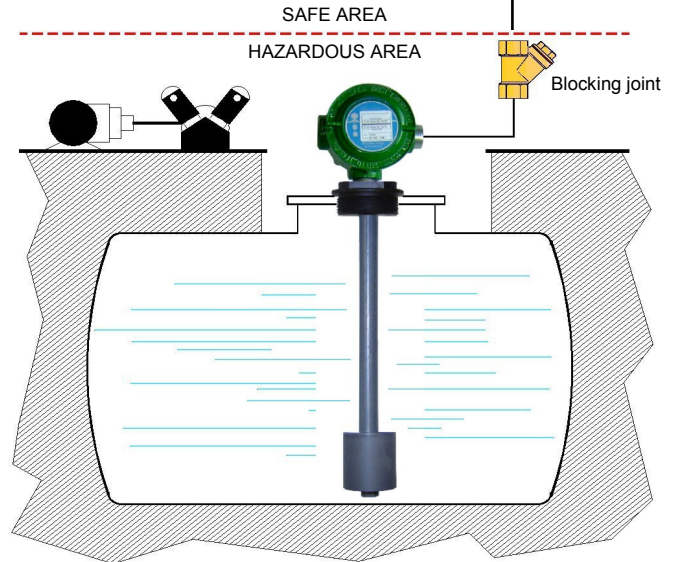
**CESI 03 ATEX 272 Ext.2 II 1/2G Exd IIB T5/T6 Ga/Gb,**

underground and outdoors, installed in hazardous areas where flammable products are treated.

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



See MULTISIGNAL






## 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

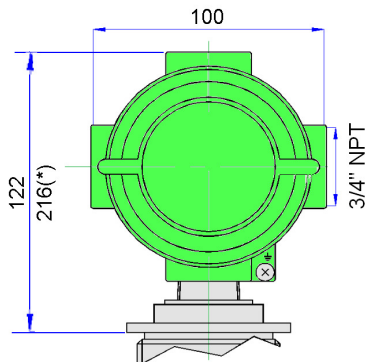
## FLOATS

Tab.1

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

## ELECTRICAL OUTPUT

Tab.2



<b>E1</b> IP65 Housing
<b>With heatsink - see dimension (*)</b>
<b>LC – LCT = Temperature class N</b>

## 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

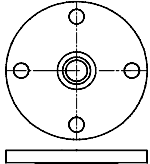
### Available materials

F	P	V
PVDF	PP	PVC

### DN = Available materials

V	S
PVC	AISI 316 On request

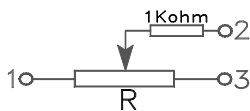
## FLANGES



DN = UNI – DIN – ANSI Flanges

## WIRING

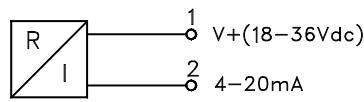
### POTENTIOMETRIC OUTPUT



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

LC

### 4-20 mA output



Max. load 500  $\Omega$   
Power supply 18  $\div$  36 Vdc

LCT

## DIMENSIONS

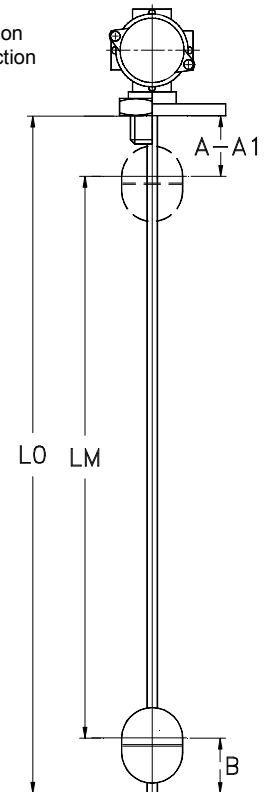
mm.

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  $\pm 3$  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



## 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 $\Omega$
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.

## По вопросам продажи и поддержки обращайтесь:

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