



LEVEL



FLOW



PRESSURE



TEMPERATURE



ELECTRONICS



Датчики уровня взрывозащищенные стандарта АTEX I – ЕАС GOST серии LINEAR – V-F

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Брянск (4832)59-03-52
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Вологда (8172)26-41-59
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Ижевск (3412)26-03-58
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Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
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Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
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Хабаровск (4212)92-98-04
Хельсинки (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

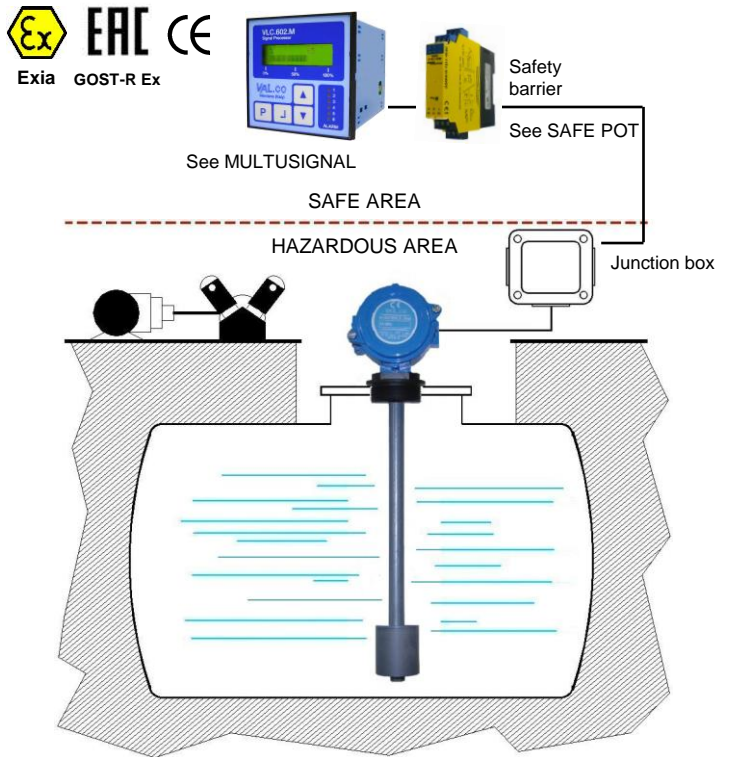
Единый адрес для всех регионов: vck@nt-rt.ru || <https://valco.nt-rt.ru/>

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

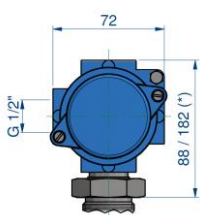


| | F49 Ø49x53 | P49 Ø49x53 | V49 Ø49x53 |
|---------------------------|---------------------------------|--------------------|---------------|
| Material | PVDF | PP - Polypropylene | PVC |
| Specific gravity | 0,8 | 0,45 | 0,7 |
| Measuring resolution - mm | 5 | 5 | 5 |
| Max. pressure – Bar | 6 | 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

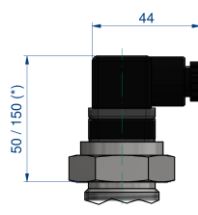
| I1 | I3 | IS1 | IS1 | IP1 - IP2 | IP1 - IP2 |
|---------------------------------------|---------------------------------------|---------------------|---------------------|--------------------------------------|--------------------------------------|
| IP65 Housing (2G) | IP66/67 Housing (1G) | DIN 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 |



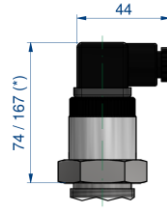
LC – LCT



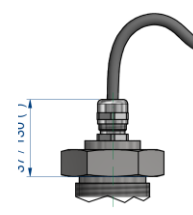
LC – LCT



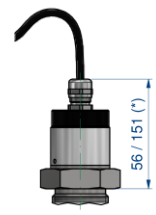
LC



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 |

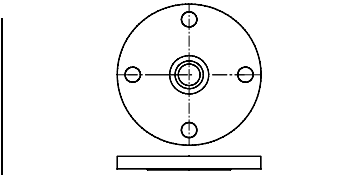
Available materials

| F | P | V |
|------|----|-----|
| PVDF | PP | PVC |

DN = Available materials

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

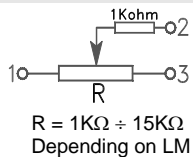
FLANGES



DN = UNI - DIN - ANSI Flanges

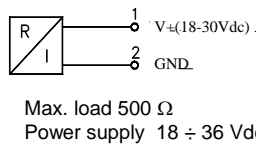
WIRING

POTENTIOMETRIC OUTPUT



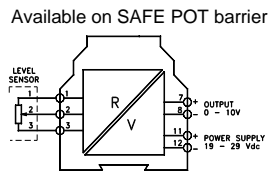
LC

4-20 mA OUTPUT

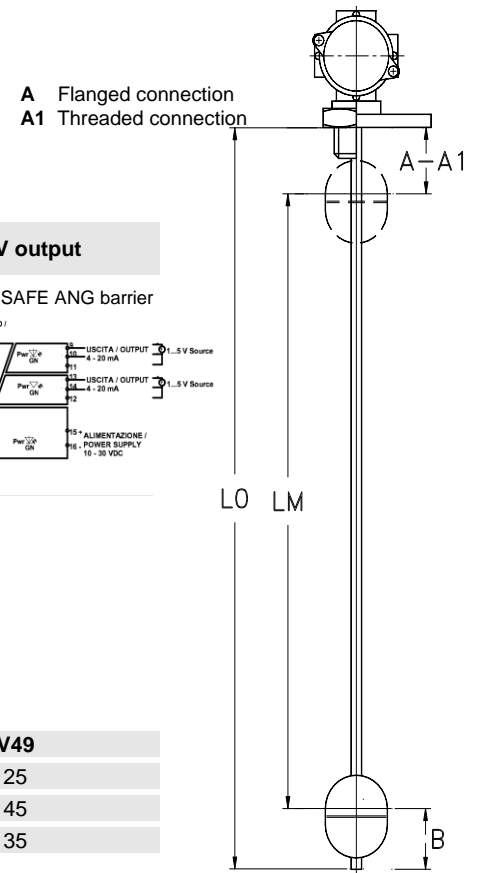
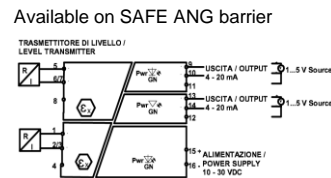


LCT

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 ± 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 | |
|----|-----|----|-------------|---|-----|----|---|---|----|---|-------|---|
| • | | | | | | | | | | | | |
| | • | | | | | | | | | | | |
| | | • | | | | | | | | | | |
| | | | • | | | | | | | | | |
| | | | | • | | | | | | | | |
| | | | | | • | | | | | | | |
| | | | | | | • | | | | | | |
| | | | | | | | • | | | | | |
| | | | | | | | | • | | | | |
| | | | | | | | | | • | | | |
| | | | | | | | | | | • | | |
| | | | | | | | | | | | • | |
| | | | | | | | | | | | | • |

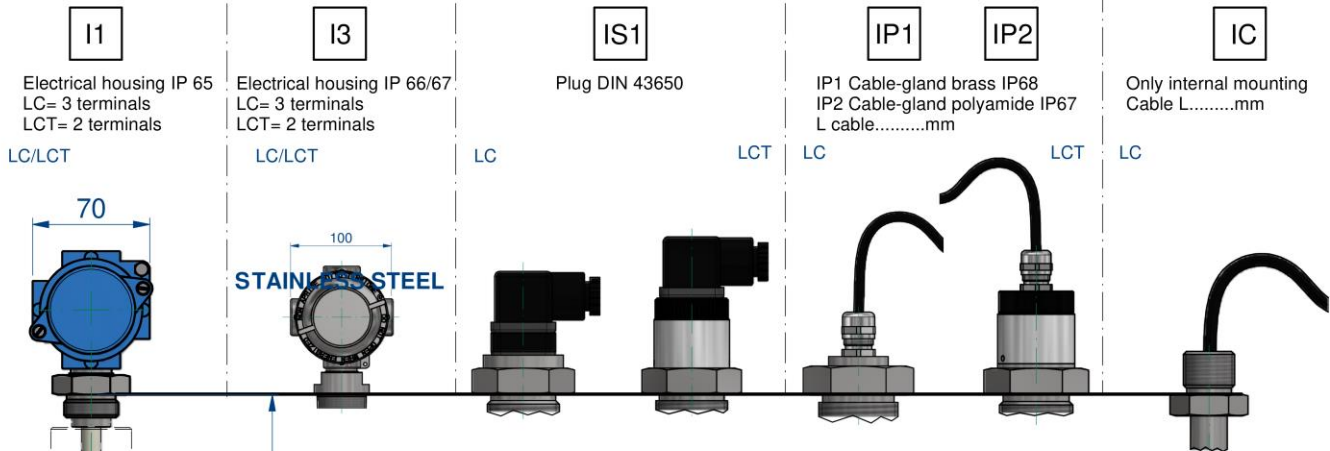
| |
|---|
| Type : LC - LCT |
| Tab.1 Float |
| Tab.1 Measuring resolution (mm). |
| Tab.4 Measuring length LM / Total length L0 (mm). |
| Tab.3 Rod material. |
| Tab.4 Presence and material of damping tube (option). |
| Tab.3 Process connection dimension. |
| Tab.3 Process connection thread. |
| Tab.3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

Measuring resolution:

5 mm 10 mm 20 mm

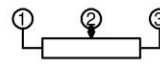


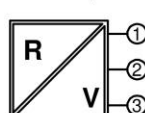

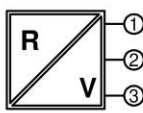
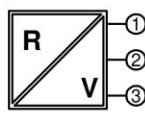
Process connection:

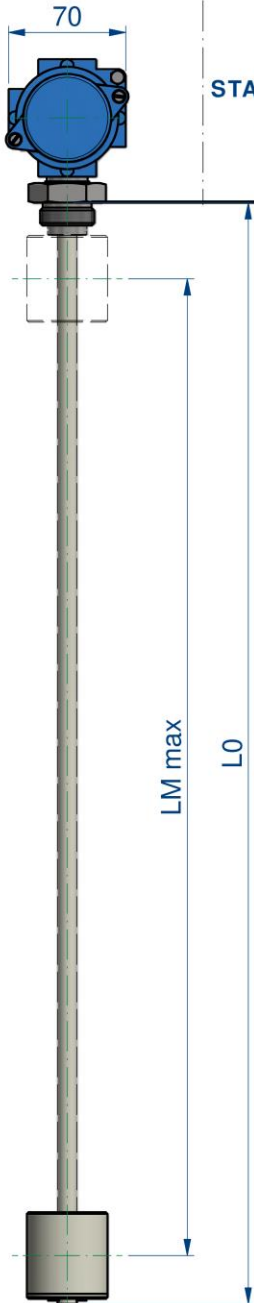
Threaded: Flanged:

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)

По вопросам продажи и поддержки обращайтесь:

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