

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

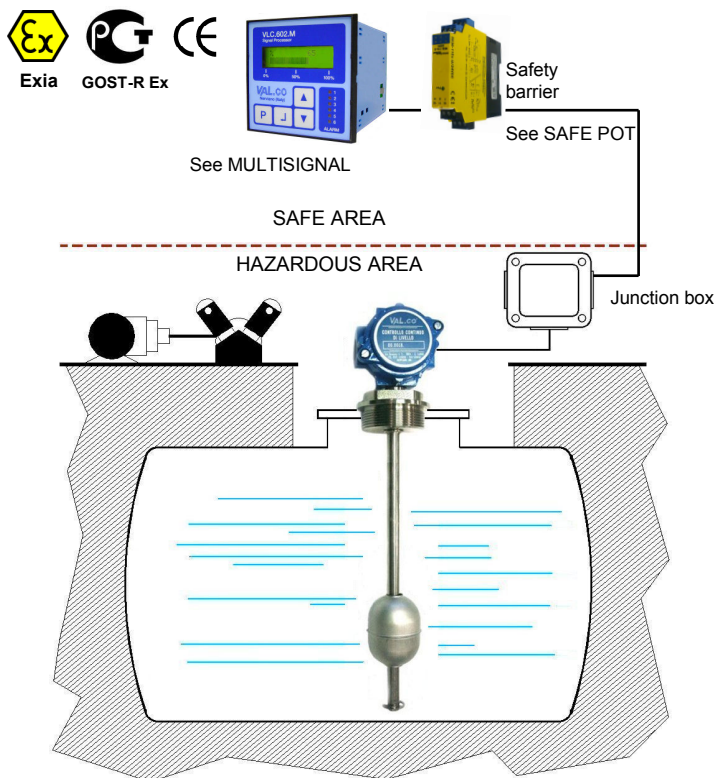
These instruments, intrinsically safe certified:

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.

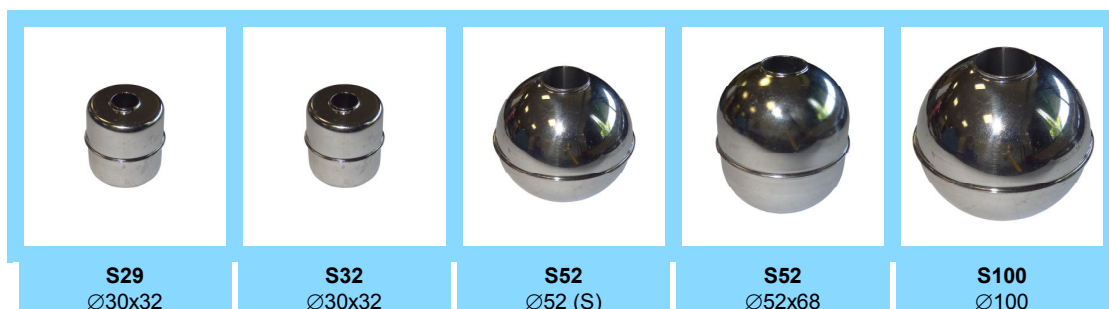
GENERAL CHARACTERISTICS

- **Stainless steel – AISI 316**
- Measuring resolution 5 – 10 – 20 mm.
- Potentiometric signal output (LC).
- 4-20mA analog output (LCT).
- 0-10V analog output via safety barrier SAFE POT.
- Up to 6 m length depending on the used float.
- Maximum working pressure 50 Bar.
- Working ambient temperature.
 $-40/+40^{\circ}\text{C} = \text{T6}$, $-40/+55^{\circ}\text{C} = \text{T5}$, $-40/+80^{\circ}\text{C} = \text{T4}$
- Standard working temperature up to 100°C .
 Execution up to 150°C on request.
- Minimum degree of protection IP65



FLOATS

Tab.1



Material	Stainless steel – AISI 316				
Specific gravity	0,75	0,55	0,7	0,65	0,6
Measuring resolution - mm	5	5	5	10 – 20	10 – 20
Max. pressure – Bar	30	10	50	40	15
Max. temperature – Class	L = 100°C				
On request	R = 150°C				

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 (*)					
LC – LCT = Temperature class R					

We reserve the right to change the data without notice

BE#185/1-01/2014

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"		25 1"	32 1 1/4"	40 1 1/2"	50 2"	FSHX Flange	DN65 Flange	DN125 Flange
All type of floats All type of thread		S29	G	G-C-N	G-C-N	-	•	-	-
		S32	G	G-C-N	G-C-N	-	•	-	-
		S52S	-	-	-	G-C-N	-	•	-
		S52	-	-	-	G-C-N	-	•	-
		S100	-	-	-	-	-	-	•

Male thread

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

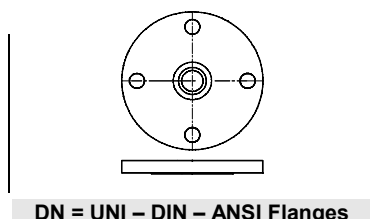
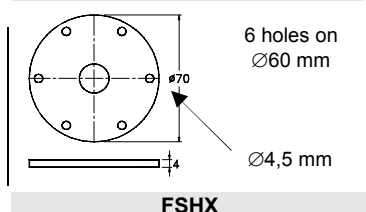
Available materials

S	T
AISI-316	AISI-304 On request

DN = Available materials

C	S
Steel	AISI-316

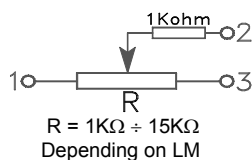
FLANGES Dimensions in mm.



A Flanged connection
A1 Threaded connection

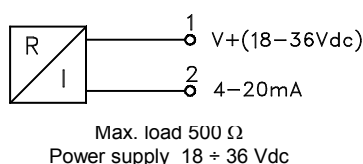
WIRING

POTENTIOMETRIC OUTPUT



LC

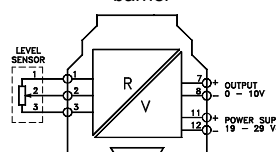
4-20 mA output



LCT

0-10 V output

Available on SAFE POT barrier



SAFETY BARRIERS

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.

	S29	S32	S52 (S)	S52	S100
A	15	15	25	35	50
A1	35	35	45	55	-
B	25	25	35	45	60

Damping tube
On request

—

— S

AISI-316

— V

PVC

NOMENCLATURE

LC	S32	05	1300 / 1360	S	- S	25	G	S	I1	L	1,5 M
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Type : LC – LCT

Tab.1	Float
Tab.1	Measuring resolution (mm).
Tab.4	Measuring length LM / Total length L0 (mm).
-	Stainless steel 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.