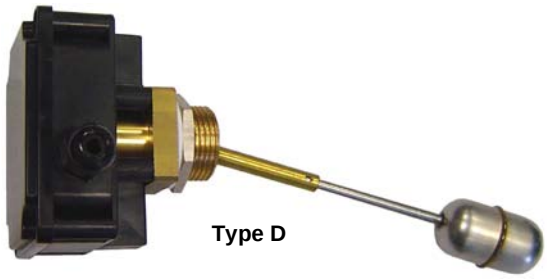
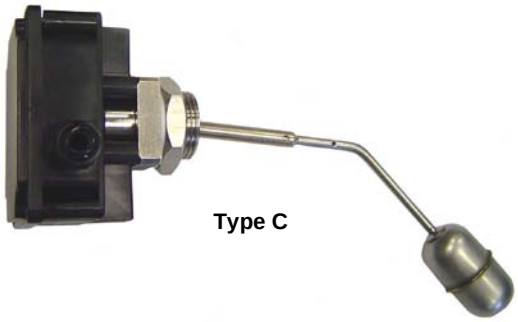
SIMPLE S50 LEVEL SWITCH

GENERAL CHARACTERISTICS

These level switches offer the most reliable solution for liquid level control were side mounting system is required. The small outlines, the materials and the mounting versatility make this unit one of the level switches more required by the market.
The S50 series is also suitable for use with process temperature up to 180 °C.



Type D



Type C

- Switch head magnetically actuated
- 1 or 2 microswitches
- Adjustable stem length
- Brass or AISI-316 construction
- Pressure 25 Bar max.
- Working ambient temperature -30/+55°C – RH 90%
- Temperature 180°C max.
- IP65 protection class

TECHNICAL DATA
Tab.1

Process connection	Float - S50 S.G.	Pressure max. Bar	Temperature max. °C	Hysteresis mm	Weight g
1”	0,7	25	180	max. 20	440

Male threads

G
Gas parallel UNI 228/1

Body materials

O	S
Natural Brass	AISI-316

Float material

S50	Stem
AISI-316	AISI-303

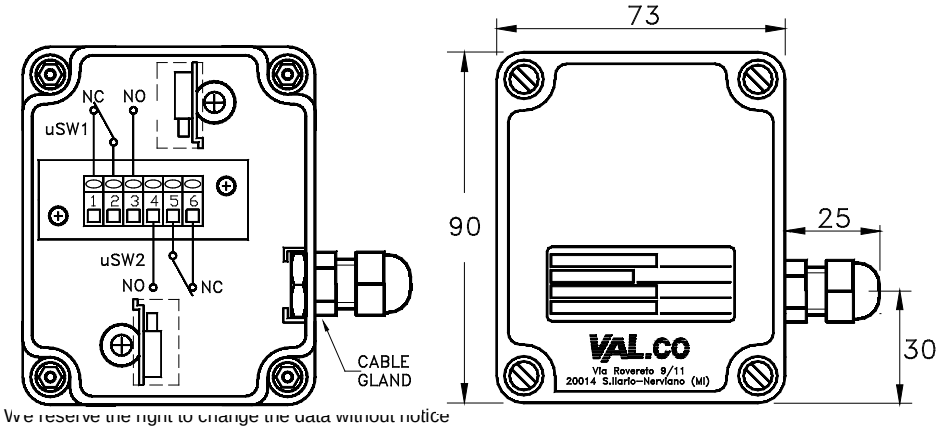
ELECTRICAL DATA
Tab.2

TYPE		VOLTAGE		CURRENT	
Microswitch	L1 = N.1 L2 = N.2	AC	DC	AC	DC
SPDT	7	250V	48V	3A (cosφ=1)	3A

Wiring

I	3
Independent Micro switches separately wired	SPDT Switch over contacts

ELECTRICAL OUTLET
Tab.3



W
IP65 Housing
6 Terminals Polyammide Cable-gland PG9

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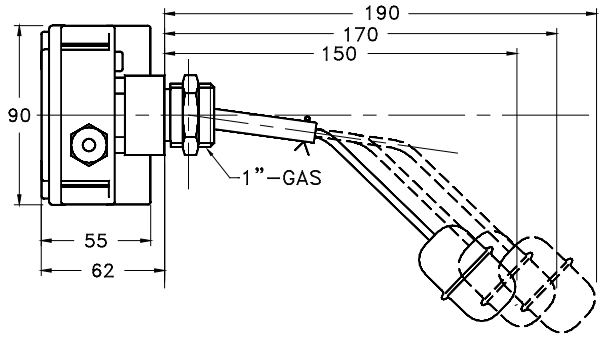
SWITCH POINTS STEM TYPE C
Tab.4

The switch points are referred to the mechanical axis of the instruments with rising liquid level S.G. = 1

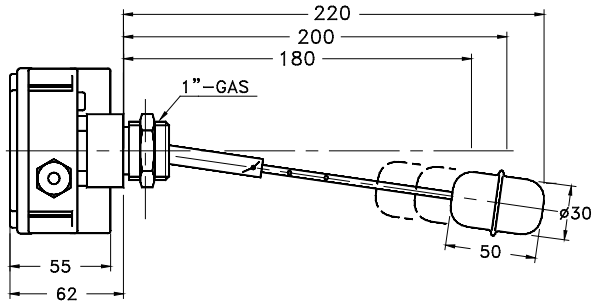


Stem position	Microswitch 1		Microswitch 2	
	ON	OFF	ON	OFF
Long	-46	-63	-32	-49
Medium	-48	-61	-34	-47
Short	-50	-60	-36	-46

All dimensions are in mm.
Switch points tolerance ±5 mm

SWITCH POINTS TYPE D
Tab.5

The switch points are referred to the mechanical axis of the instruments with rising liquid level S.G. = 1



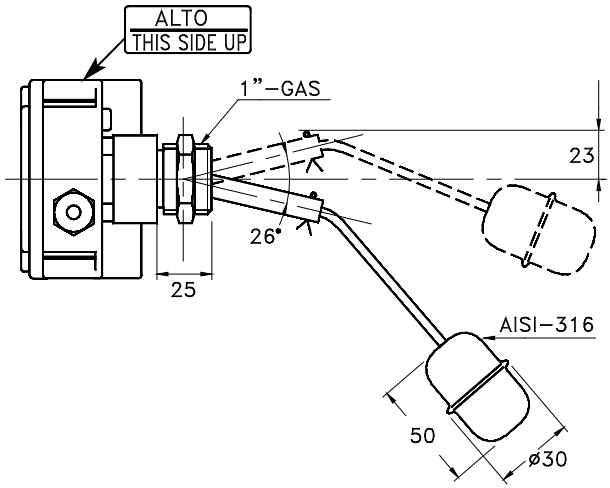
Stem position	Microswitch 1		Microswitch 2	
	ON	OFF	ON	OFF
Long	0	-20	+20	0
Medium	0	-18	+18	0
Short	0	-16	+16	0

All dimensions are in mm.
Switch points tolerance ±5 mm

MOUNTING AND INSTALLATION

Float mounting

- Take away the blocking pin from the rod of the float.
- Insert the rod of the float into the pipe and block it with the pin.
- The float can have 3 different positions depending on the tank and of the desired switching point.
- **Notice**: handle float with care, hold it by stem.



Installation of the instrument on the tank

- Always put the gasket between the level switch and the tank.
- **Notice**: During installation handle the level switch by the electric head, do not lift it by the float side.

NOMENCLATURE

L2	S50	7	C	25	G	O	W	I33		
•									Tab.2	Number of microswitches L1÷ L2
	•								Tab.1	Float type
		•							Tab.2	Contacts type
			•						Tab.4-5	Stem version
				•					Tab.1	Process connection dimension
					•				Tab.1	Thread type
						•			Tab.1	Process connection material

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							•		Tab.3	Electrical outlet
								•	Tab.2	Wiring and contact situation

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