

GENERAL CHARACTERISTICS

A wide range of standard units that, for variety of materials and dimensions, offers to the user a simple and economical solution for the control of liquid levels. The units are available with connection cable in lengths of 1.5 m and 3.0 m, other lengths are available on request.

The cable is sealed together with the contact inside the rod with epoxy resin and polymerization is performed in a controlled temperature oven.

The principle of operation of these instruments is based by actuation of a reed contact, located inside of the measuring rod, by a magnetic float.

The only moving element is the float, that moves as a result of hydrostatic thrust, this gives extreme ruggedness and limited need of maintenance to the system.

- Brass, AISI-316, PVC, Polypropylene, PVDF constructions
- Working pressure up to 50 bar, depending on the used float
- Operating ambient temperature -30/+55°C RH 90%.
- Executions for temperature up to 180 °C, on request.
- Minimum degree of protection IP65.

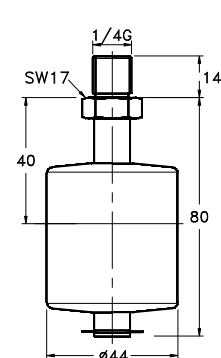
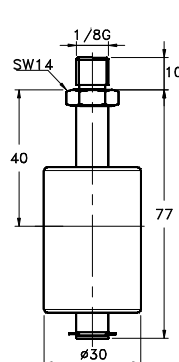
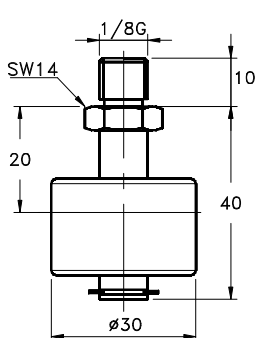
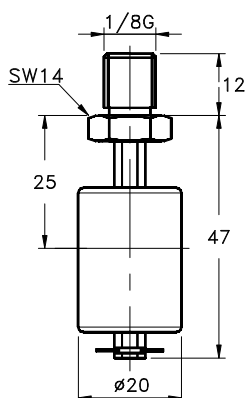
- ATEX construction  1G Exia IIC T6, see SIMPLE ATEX I



BRASS / SPANSIL SERIES

Tab.1

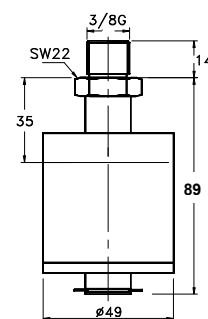
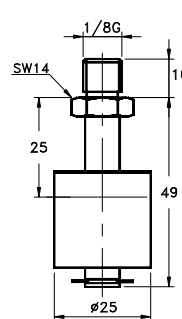
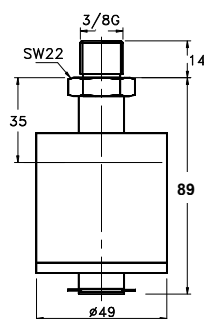
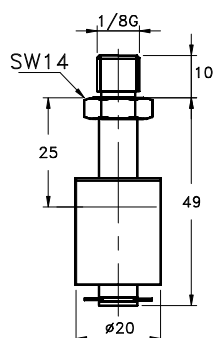
			
S1.B28	S1.B20	S1.B45	S1.B44
Butadiene - Acrylonitrile Copolymer			
0,4		0,35	0,45
Brass	Nickel plated brass		Brass
20 bar			
105 °C = L Class			
3	3 – 7D		4 – 7
C1 = 1.5 m – C2 = 3.0 m			



PLASTIC SERIES

Tab.2

			
S1.P20	S1.V49	S1.F25	S1.F49
Polypropylene	PVC	PVDF	
0,5	0,7	0,65	0,8
PVC		PVDF	
3 bar	6 bar	6 bar	
90 °C = D Class	60 °C = B Class	130 °C = N Class	
3	4 – 7	3	4 – 7
C1 = 1.5 m – C2 = 3.0 m			

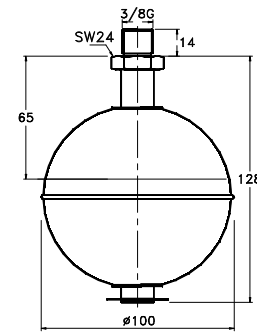
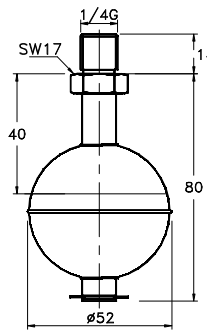
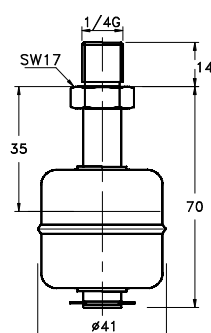
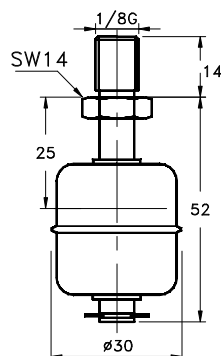


STAINLESS STEEL SERIES

Tab.3



			
S1.S29	S1.S41	S1.S52	S1.S100
AISI – 316			
0,75	0,65	0,7	0,6
AISI – 316			
30 bar	10 bar	50 bar	15 bar
105 °C = L Class			
3 – 7D	4 – 7		7
C1 = 1.5 m – C2 = 3.0 m			



ELECTRICAL CONTACTS

Tab.4

TYPE		POWER		VOLTAGE		CURRENT	
		VA	W	AC	DC	AC	DC
3	SPST	70	50	300	350	0,5	0,7
4	SPST	80	80	250	250	1,3	1.3
7	SPDT	60	60	230	230	1	1
7D	SPDT	20	20	150	150	0,5	0,5

WIRING

Tab.5

I	Independent	Separately wired contact	2	NC	Contact status in no level condition
			1	NO (*)	
			3	SPDT	

(*) The NO condition is obtained by turning the float of 180°

DIMENSIONAL SUMMARY TABLE mm

Tab.6

S1	B20	B28	B44	B45	F25	P20	V49	F49	S29	S41	S52	S100
L0	40	47	80	77	49	49	82	82	52	70	80	128
L1	20	25	40	40	25	25	40	35	25	35	40	65
Ø	30	20	44	30	25	20	49	49	30	41	52	100
SW	14	14	17	14	14	14	22	22	14	17	17	24
B	10	12	14	10	10	10	14	14	14	14	14	14
A	1/8"	1/4"	1/8"		3/8"		1/8"	1/4"	3/8"			
	06	08	06		10		06	08	10			

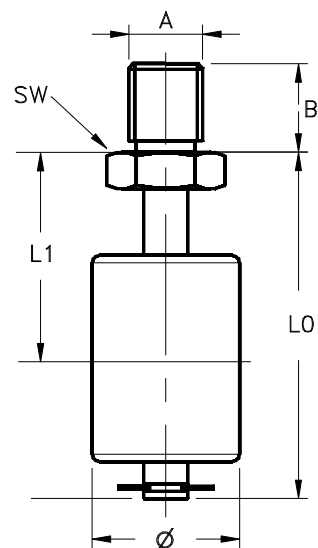
L1 = switch-point with liquids of specific gravity = 1
Tolerance on the switch-point ± 3 mm.

Male threads

G	C	N
Gas parallel UNI 228/1	Gas conical UNI 7/1	Conical NPT
On request		

Rod and process connection materials

B	O	S	V	F
Nickel plated brass	Brass	AISI-316	PVC	PVDF



NOMENCLATURE

S1	S52	4	0080	S	08	G	S	C1	L	I2	L1
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Tab.1÷3	Series and type
Tab.1÷3	Electrical contact
Tab.6	Total length = L0
Tab.1÷3	Rod material
Tab.6	Process connection dimension
Tab.6	Process connection thread
Tab.6	Process connection material
Tab.1÷3	Electrical output – Cable length
Tab.1÷3	Temperature class
Tab.5	Wiring and contact status
Tab.6	Switch-point