

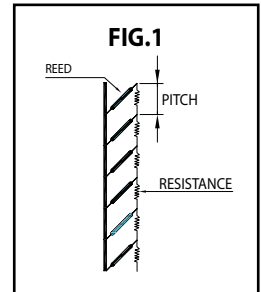
USE:

The Levels electromagnetic reed-chain resistors Indicators allow a precise and constant indication of the fluid level, regardless of its electrical conductivity, pressure and temperature and by the presence of foam in it; essentially they have a simple structure, since the only moving part is the float which, depending on the flow or drain the liquid, flows through a tube.

OPERATION:

The floating stay within a toroidal magnet, whose field operates, without physical contact, small reed contacts placed inside the pipe flow (see Fig.1). The drive of these contacts allows the integration or gradual shutdown of the resistance, also placed inside the pipe flow, allowing the continuous reading of liquid level.

Resistive signal thus generated can be directly used by devices that accept inputs well structured, or through a converter Ohm - 4/20mA can drive most of the electronic devices on the market (PLC).



TECHNICAL ADVANTAGES:

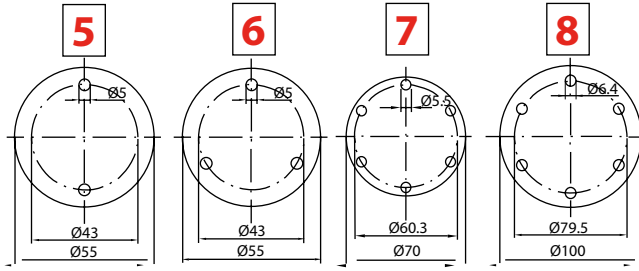
- Constant and continuous indication of the level with high accuracy of repeatability.
 - Linear index of the level, regardless of the shape of the tank and the distance between gauge and the tank walls.
 - Remote indication of the measure and possibility of piloting of additional controls.
- Possible assembly by-pass.

	FLOATS			
	A	B	C	D
MS (mm)	5	10	20	20
MI (mm)	20	40	35	35

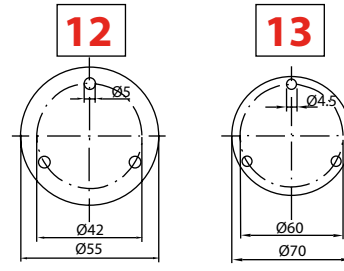
FOR CONNECTIONS 3-4-5-6-7-8-12-13
C= MAX CONTROL FIELD
C= L-MI-MS

FOR CONNECTIONS 1-2-9-10-11
C= MAX CONTROL FIELD
C= L-MI-MS-F

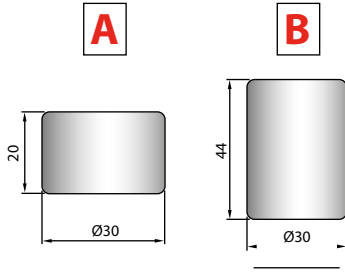
AISI 316 PROCESS CONNECTION



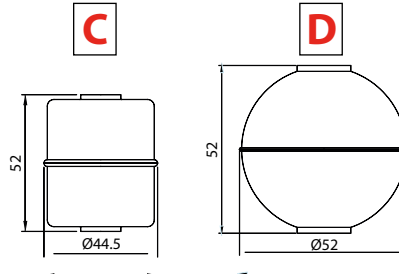
AISI 316 STAINLESS STEEL



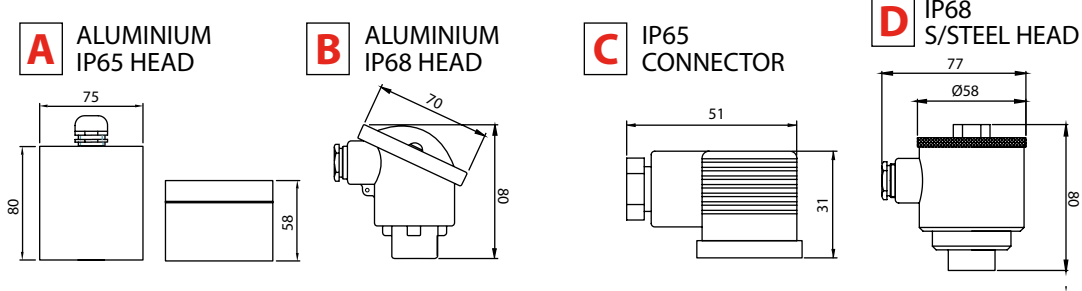
NBR FLOATS



AISI 316 S/STEEL FLOAT

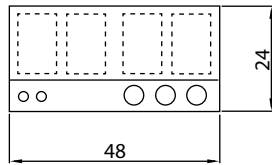


ELECTRICAL CONNECTIONS



VIEWS

1 DIGITAL DISPLAY
2 ADJUSTABLE ALARMS



2 ANALOG DISPLAY
DEPTH: 50mm



MODEL	PITCH mm	TUBE MATERIAL	"L"	"C"	CONNECTION				FLOAT				OUTPUT	ELECTRICAL CONNECTION	POWER	OPTIONAL DISPLAY		
					MALE THREADED DOWNWARD		FLANGED		NBR		S/STEEL							
					1	2	3	4	A - Ø30x20	B - Ø30x44	C - Ø44.5x52	D - Ø52x52						
IEG-GCL	12	A BRASS Ø11	from 100 to 1500 mm	CS= MAX ALLOWED C= "CUSTOMER SPECIFICATION"	1	1" BSP (F=12)	1" BS	Ø 55 WITH 2 HOLES	USABLE WITH STEP 10, 24, 36 USABLE WITH CONNECTION 1-2-3-4-5-6-7-8	USABLE WITH STEP 10, 24, 36 USABLE WITH CONNECTION 1-2-3-4-5-6-7-8-9-10-11-12-13-14	USABLE WITH STEP 10, 24, 36 USABLE WITH CONNECTION 10-11-13-14	USABLE WITH STEP 12 USABLE WITH CONNECTION 11	1	4-20 mA	A - B - D WITH TRANSDUCER 4-20mA	12-30 Vdc	0= WITHOUT 1=DIGITAL	
					2	1" NPT (F=19)	6	Ø 55 WITH 3 HOLES					2	0-10 V (external module)	C	19-29 Vdc	0= WITHOUT 1= DIGITAL	
					3	1"1/4 BSP	7	Ø 70 WITH 6 HOLES					3	Ohm	C	NO	0= WITHOUT 2= ANALOGIC	
					4	1"1/4 NPT	8	Ø100 WITH 6 HOLES					4	Ohm with MIN. LEVEL ALARM CLOSED IN ABSENCE	C	OPTIONAL (for alarms)	0= WITHOUT 2= ANALOGIC	
					14	1"1/2 BSP (only A-B connection)	ANODIZED ALUMINIUM for TUBE A						5	Ohm WITH MAX LEVEL ALARM CLOSED IN PRESENCE	C	OPTIONAL (for alarms)	0= WITHOUT 2= ANALOGIC	
					S/STEEL FOR TUBE B		6	Ohm WITH MIN. LEV. CLOSED IN ABSENCE AND MAX LEVEL CLOSED IN PRESENCE ALARM					A - B - D	OPTIONAL (for alarms)	0= WITHOUT 2= ANALOGIC			
	24	B S/STEEL Ø12	from 150 to 3000 mm	CS= MAX ALLOWED C= "CUSTOMER SPECIFICATION"	9	1" BSP (F=12)	12	Ø 55 3 HOLES	USABLE WITH STEP 10, 24, 36 USABLE WITH CONNECTION 1-2-3-4-5-6-7-8-9-10-11-12-13-14	USABLE WITH STEP 10, 24, 36 USABLE WITH CONNECTION 10-11-13-14	USABLE WITH STEP 12 USABLE WITH CONNECTION 11	USABLE WITH STEP 12 USABLE WITH CONNECTION 11	USABLE WITH STEP 12 USABLE WITH CONNECTION 11	1	4-20 mA	A - B - D WITH TRANSDUCER 4-20mA	12-30 Vdc	0= WITHOUT 1=DIGITAL
					2	1" NPT (F=19)	6	Ø 55 WITH 3 HOLES						2	0-10 V (external module)	C	19-29 Vdc	0= WITHOUT 1= DIGITAL
					3	1"1/4 BSP	7	Ø 70 WITH 6 HOLES						3	Ohm	C	NO	0= WITHOUT 2= ANALOGIC
					4	1"1/4 NPT	8	Ø100 WITH 6 HOLES						4	Ohm with MIN. LEVEL ALARM CLOSED IN ABSENCE	C	OPTIONAL (for alarms)	0= WITHOUT 2= ANALOGIC
					14	1"1/2 BSP (only A-B connection)	ANODIZED ALUMINIUM for TUBE A							5	Ohm WITH MAX LEVEL ALARM CLOSED IN PRESENCE	C	OPTIONAL (for alarms)	0= WITHOUT 2= ANALOGIC
					S/STEEL FOR TUBE B		6	Ohm WITH MIN. LEV. CLOSED IN ABSENCE AND MAX LEVEL CLOSED IN PRESENCE ALARM						A - B - D	OPTIONAL (for alarms)	0= WITHOUT 2= ANALOGIC		
36	B S/STEEL Ø12	from 150 to 3000 mm	CS= MAX ALLOWED C= "CUSTOMER SPECIFICATION"	11	2" BSP (F=15)	13	Ø 70 3 HOLES	USABLE WITH STEP 10, 24, 36 USABLE WITH CONNECTION 1-2-3-4-5-6-7-8-9-10-11-12-13-14	USABLE WITH STEP 10, 24, 36 USABLE WITH CONNECTION 10-11-13-14	USABLE WITH STEP 12 USABLE WITH CONNECTION 11	USABLE WITH STEP 12 USABLE WITH CONNECTION 11	USABLE WITH STEP 12 USABLE WITH CONNECTION 11	1	4-20 mA	A - B - D WITH TRANSDUCER 4-20mA	12-30 Vdc	0= WITHOUT 1=DIGITAL	
				2	1" NPT (F=19)	6	Ø 55 WITH 3 HOLES						2	0-10 V (external module)	C	19-29 Vdc	0= WITHOUT 1= DIGITAL	
				3	1"1/4 BSP	7	Ø 70 WITH 6 HOLES						3	Ohm	C	NO	0= WITHOUT 2= ANALOGIC	
				4	1"1/4 NPT	8	Ø100 WITH 6 HOLES						4	Ohm with MIN. LEVEL ALARM CLOSED IN ABSENCE	C	OPTIONAL (for alarms)	0= WITHOUT 2= ANALOGIC	
				14	1"1/2 BSP (only A-B connection)	ANODIZED ALUMINIUM for TUBE A							5	Ohm WITH MAX LEVEL ALARM CLOSED IN PRESENCE	C	OPTIONAL (for alarms)	0= WITHOUT 2= ANALOGIC	
				S/STEEL FOR TUBE B		6	Ohm WITH MIN. LEV. CLOSED IN ABSENCE AND MAX LEVEL CLOSED IN PRESENCE ALARM						A - B - D	OPTIONAL (for alarms)	0= WITHOUT 2= ANALOGIC			
ES: IEG-GCL	24	B	L800	CS	9			B				1	A	1				