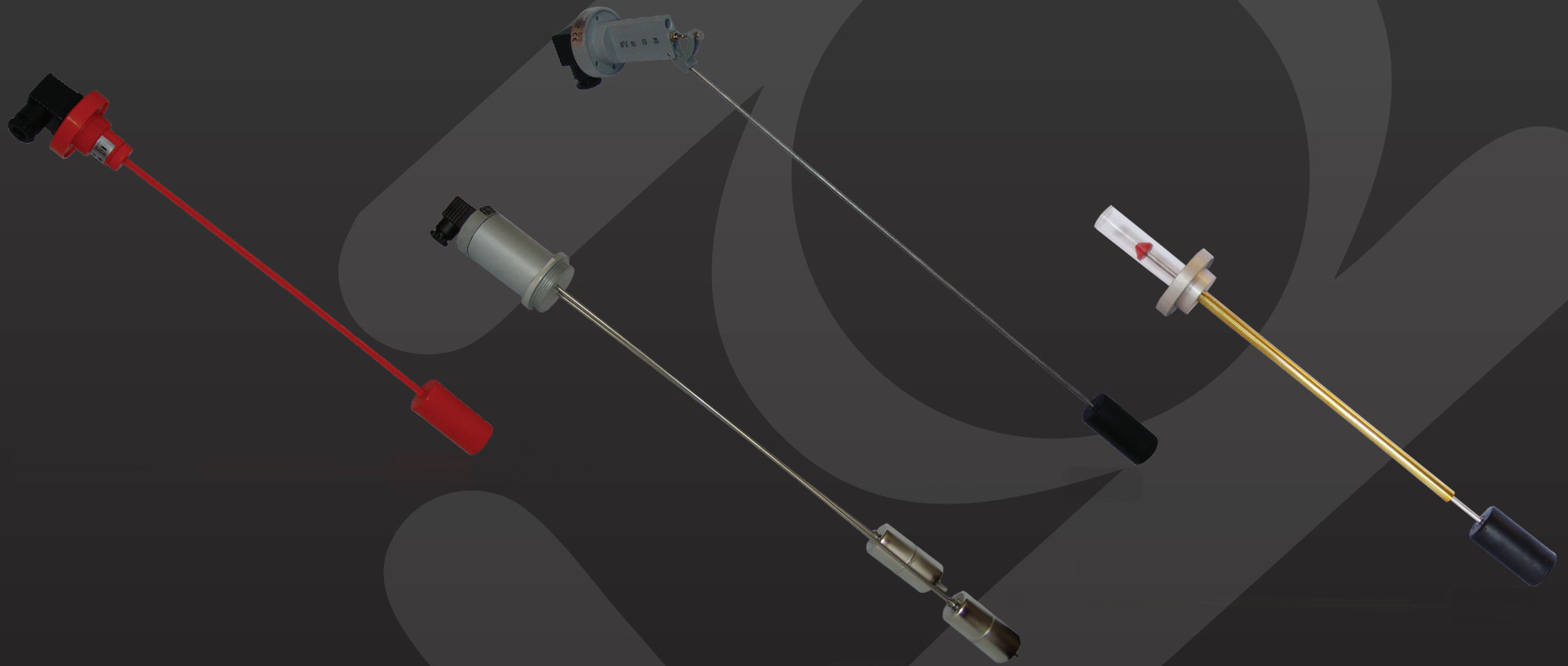


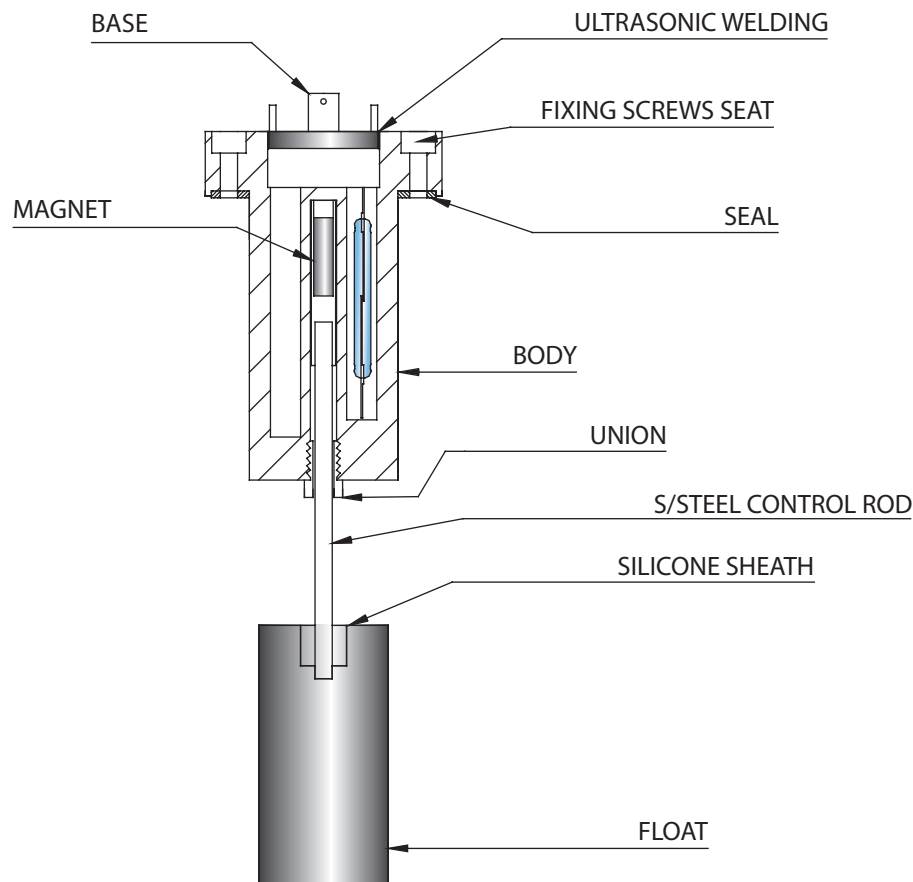
RAPID LEVEL

Patented level switches with unique characteristics.



RAPID LEVEL

PATENTED LEVEL SWITCHES WITH UNIQUE CHARACTERISTICS



* The required length can be obtained simply by cutting the steel rod, using an ordinary pipe cutter; or the switching point can be varied by using a float with through hole allowing the required liquid control point to be modified whenever necessary.

* It can be used for dirty liquids, water, petroleum, cutting oils, and tolerates the presence of metal and ferrous particles, since the float does not hold a magnet and is integral with the rod.

* One float can operate just one Reed (min. or max. level), or two Reeds (min. and empty and extra max. level) thus meeting the most complex needs.

* Total safety since the electrical part is completely separate in the tank side and perfectly sealed with respect to the external side by means of ultrasonic welding and resin coating of the pins.

* The nylon-glass body is very strong and very resistant with respect to chemicals, and is ideal as an insulating container for the Reed contacts.

* The Rapid Levels come standard with rods suitable for control of a max. measurement of 500 or 1000mm. To obtain specific measurements, refer to the table on the next page.

* They can be ordered already arranged for the control of predetermined measurements.

THROUGH FLOAT

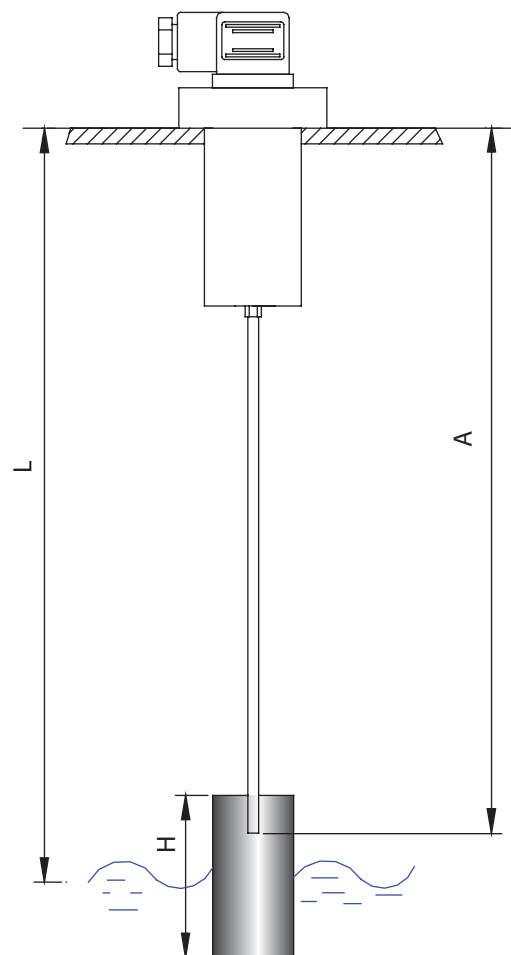


On request the float can be supplied with through hole and therefore be positioned in the required position without having to cut the rod (which can therefore be as long as the height of the tank). If necessary, the liquid control point can be subsequently be modified as required by simply moving the float.

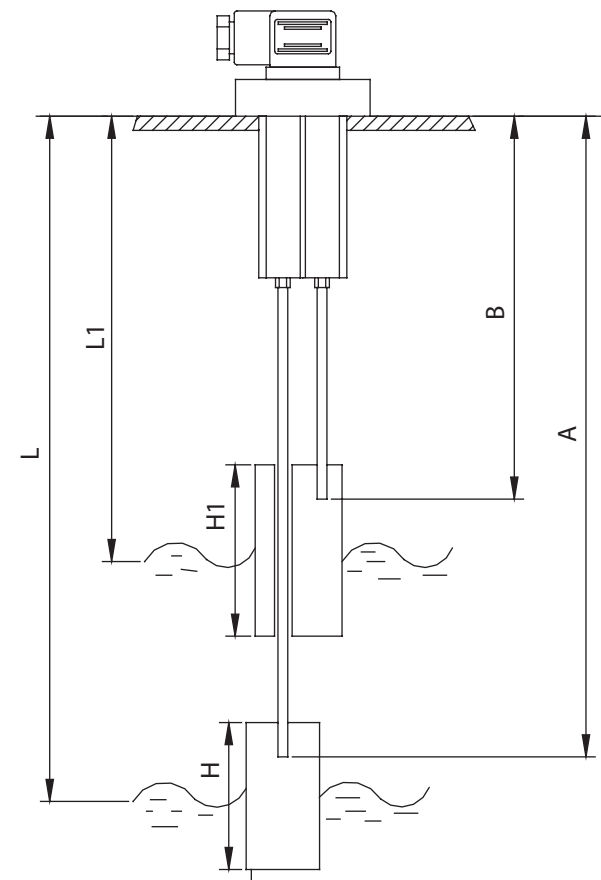
RAPID LEVEL

Rapid Level connection rod cutting table.

(NB : Carry out the cutting measurement with the rod in traction with respect to the body)



CONTROL VALUE (mm)	L=	ROD CUTTING FOR MIN. LEVEL A= (mm)	CONTROL VALUE (mm)	L1=	ROD CUTTING FOR MAX. LEVEL B= (mm)
90		H= 35			
100		H= 45			
110		H= 55			
120		116			
140		137			
160		158			
180		179	90	62	H1= 35
200		200	100	62	H1= 45
220		221	120		131
240		242	140		152
260		263	160		173
280		284	180		194
300		305	200		215
320		326	220		236
340		347	240		257
360		368	260		278
380		389	280		299
400		410	300		320
420		431	320		341
440		452	340		362
460		473	360		383
480		494	380		404
500		515	400		425
520		511	420		421
540		532	440		442
560		553	460		463
580		574	480		484
600		595	500		505
620		616	520		526
640		637	540		547
660		658	560		568
680		679	580		589
700		700	600		610
720		721	620		631
740		742	640		652
760		763	660		673
780		784	680		694
800		805	700		715
820		826	720		736
840		847	740		757
860		868	760		778
880		889	780		799
900		910	800		820
920		931	820		841
940		952	840		862
960		973	860		883
980		994	880		904
1000		1015	900		925



L-L1 = 100 mm
A-B = 90 mm

H = 35 (L = 90 mm)
H = 45 (L = 100 mm)
H = 55 (L = 110 mm)
H = 60 (L = 120 - 500 mm)
H = 90 (L = 501 - 1000 mm)
H1 = 35 (L1 = 90)
H1 = 45 (L1 = 100)
H1 = 70 (L1 = 120 - 1000 mm)

RL/G1-F3

RAPID LEVEL" TYPE LEVEL SWITCH WITH 1 FLOAT

RL/G1-1"GAS

ADVANTAGES OF THE RANGE

- 1- These electromagnetic level gauges in Kits can be obtained in the required length "L" simply by cutting the control rod with an ordinary pipe cutter and press fitting the float in the cutting place (see table for cutting).
- 2- The control rod can commute the signal of 1 or 2 Reeds in sequence (with single or exchange contact).
- 3- The float does not hold magnets, therefore the Level can also be used in the presence of dirty liquids or ferrous particles.

H = 35 (L = 90 mm)

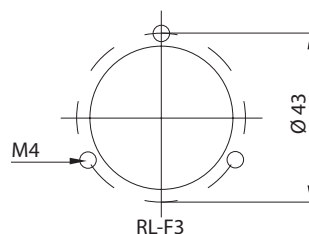
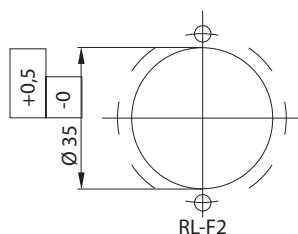
H = 45 (L = 100 mm)

H = 55 (L = 110 mm)

H = 60 (L = 120 - 500 mm)

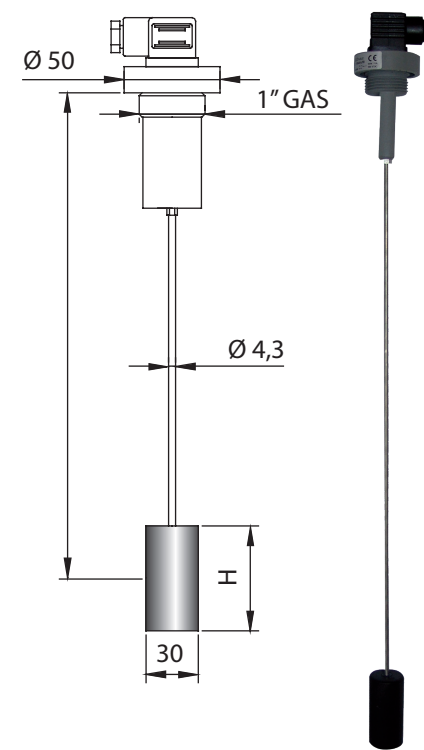
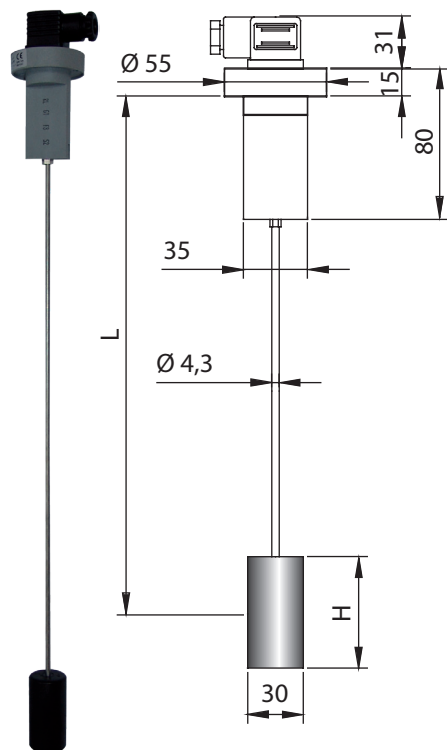
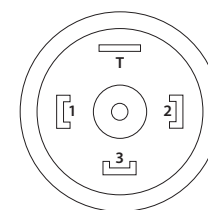
H = 90 (L = 501 - 1000 mm)



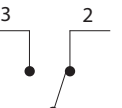
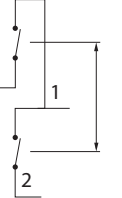
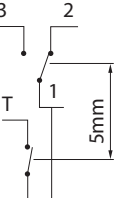
FIXING DIAGRAM



CONNECTION:

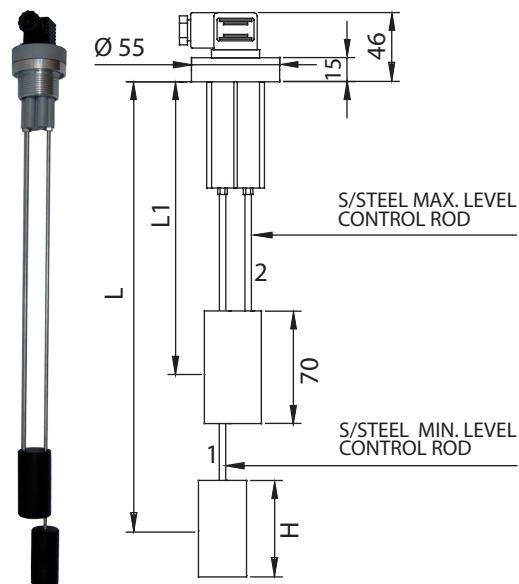
Connector CE
DIN 43650 IP65 PG.9



VERSION	CONNECTION	ELECTRICAL CONTACTS					REED	EXCHANGE REED		OPERATING TEMPERATURE -20 +80°C ON REQUEST 120°C	MAX. PRESSURE 10 Bar
RL / G1 - F3 (F2)	FLANGE 3 / 2 HOLES	S1= CLOSED IN ABSENCE OF LIQUID	S1A= CLOSED IN PRESENCE OF LIQUID	S2= EXCHANGE	S3= MIN.-EMPTY	S4= SPECIAL MIN.-EMPTY	3 A. 60V.A. 230VDC 230 VAC	1A. 20W 20V.A. 150VDC 150 VAC	0,5A. 30W 500 VDC		
RL / G1 - 1"GAS	1" GAS										
RL / G1 - 1"1/4 GAS	1" 1/4 GAS										
RL / G1 - 1"1/4 NPT	1" 1/4 NPT										

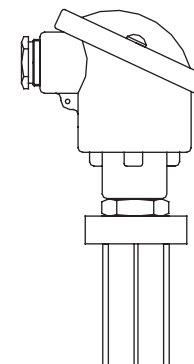
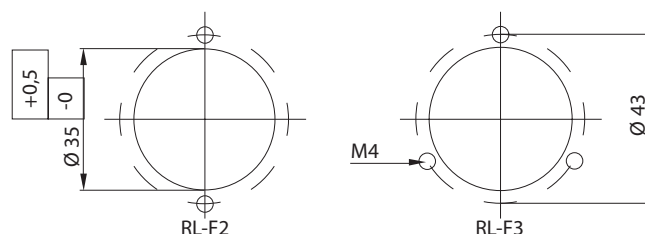
RL/G2

RAPID LEVEL" TYPE LEVEL SWITCH WITH 2 FLOATS



- * The RL/G2 range has a head which holds two control rods and two floats.
- * Each control rod can commute the signal of 1 or 2 Reeds (with single or exchange contact). Each head can therefore contain from 2 to 4 Reeds.
- * The most suitable system can be chosen for each rod.
- * In case of excessively dense liquids the two floats can be supplied entirely separate from each other to prevent rod 1 from undergoing friction with the float of rod 2.
- * The minimum distance between the two points to be controlled is 90mm.

FIXING DIAGRAM

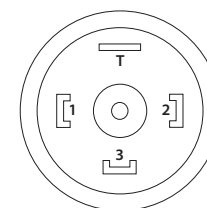




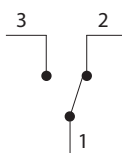
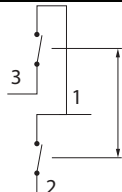
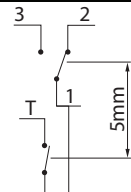
IP65 CONNECTION
HEAD
WITH 6 POLARITIES

Indispensable for
use with systems
providing for 4 to 6
polarities.

CONNECTION:

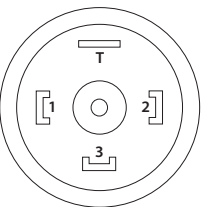
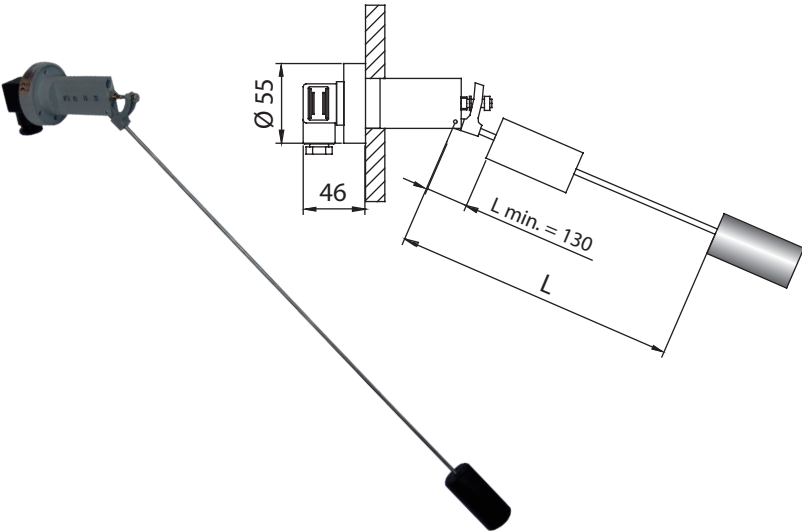
Connector CE
DIN 43650 IP65 PG.9



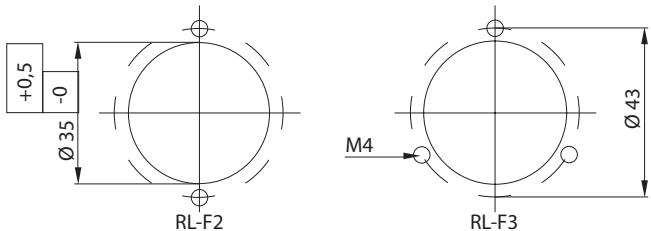
VERSION	CONNECTION	ELECTRICAL CONTACTS					REED	EXCHANGE REED		OPERATING TEMPERATURE -20 +80°C ON REQUEST 120°C	MAX. PRESSURE 10 Bar
		MIN. LEVEL CONTROL ROD						3 A. 60W 60V.A. 230VDC 230 VAC	1A. 20W 20V.A. 150VDC 150 VAC 0,5A. 30W 500 VDC		
RL / G2 - F3 (F2)	FLANGE 3/2 HOLES	S1= CLOSED IN ABSENCE OF LIQUID	S1A= CLOSED IN PRESENCE OF LIQUID	S2= EXCHANGE	S3= MIN. EMPTY	S4= SPECIAL. MIN. EMPTY					
RL / G2 - 1"1/4 GAS	1" 1/4 GAS	MAX. LEVEL CONTROL ROD									
		S1= CLOSED IN PRESENCE OF LIQUID	S1A= CLOSED IN ABSENCE OF LIQUID	S2= EXCHANGE	S3= MIN. EMPTY	S4= SPECIAL. MIN. EMPTY					
RL / G2 - 1"1/4 NPT	1" 1/4 NPT										

RL/G1 - L

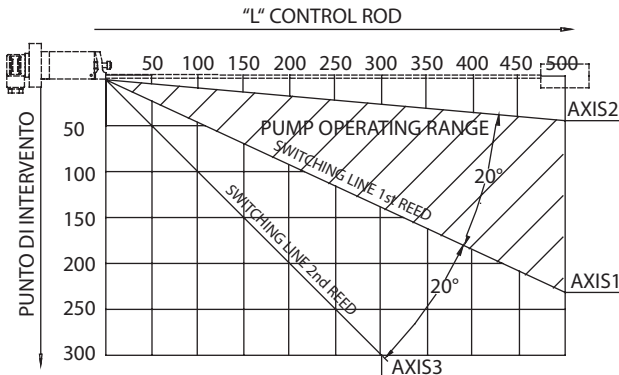
"RAPID LEVEL" TYPE LEVEL SWITCH FOR SIDE USE



CONNECTION:
Connector CE
DIN 43650 IP65 PG.9



FIXING DIAGRAM

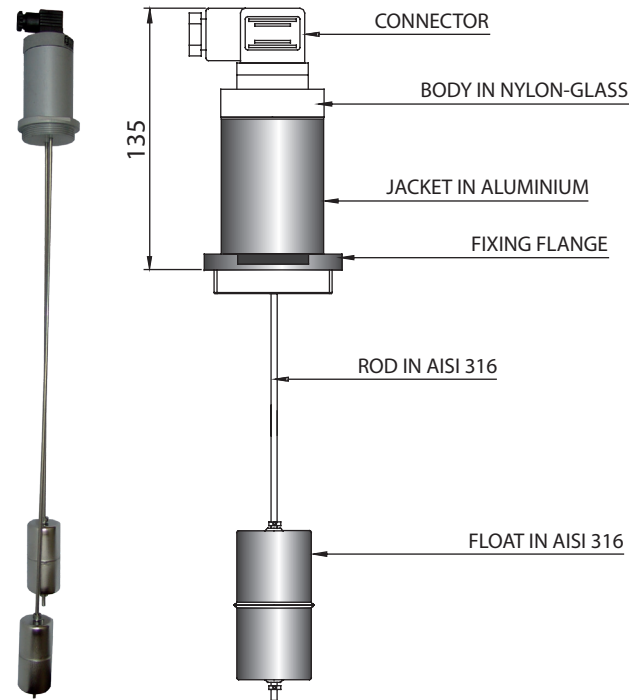


- * This level switch for "side" use is very versatile: like the "RL" range, it can also be used to control the maximum or minimum level and for controlling the minimum plus empty or maximum or overflow.
- * Unlike the "RL" range, the distance between the 1st and 2nd signal is not fixed, but has an angular value, which gradually increases with the length of the rod.
- * This gives the designer many choices; in fact, by varying the length "L", the switching points of the 1st and 2nd Reed vary (read on axis 1 and 2).
- * The Level (see diagram S3) can likewise be used to start a pump (1st Reed) on axis 1; the contact will remain closed until axis 2.
On axis 3 there will be the alarm signal (with diagram S4 there will also be the O.K. signal).

VERSION	CONNECTION	ELECTRICAL CONTACTS				REED	EXCHANGE REED		OPERATING TEMPERATURE	MAX PRESSURE 10 Bar
RL / L - G1 - F3 (F2)	FLANGE 3 / 2 HOLES	S1= CLOSED IN ABSENCE OF LIQUID	S1A= CLOSED IN PRESENCE OF LIQUID	S2= EXCHANGE	S3= MIN. EMPTY	3 A. 60W 60V.A. 230VDC 230 VAC	1A. 20W 20V.A. 150VDC 150 VAC	0,5A. 30W 500 VDC	-20 +80°C ON REQUEST 120°C	

RL/A - (G1 / G2)

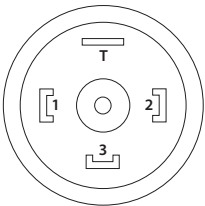
LEVEL SWITCH FOR AGGRESSIVE LIQUIDS WITH 1 OR 2 CONTROL POINTS



- * The RL/A is suitable for all liquids compatible with AISI 316 stainless steel.
- * The Rapid Level for aggressive liquids consists of a normal Rapid Level in nylon-glass inserted in an anodised aluminium jacket and fixed at the bottom to a flange that isolates the body from contact with the liquid contained in the tank; therefore only the control rods, the respective stops and the floats (all in AISI 316 stainless steel) remain in contact with the aggressiveness of the liquids on the internal part of the tank.
- * The flange can be supplied with fixing holes or with 1"1/2 Gas thread connections (only for Levels with one float) and 2" GAS (for all versions).
- * The float has a through hole enabling its positioning and possible repositioning.
- * Like the other Rapid Levels, also this model has magnets for activating the Reed contacts located inside the body, and therefore there is no problem with dirty liquids or liquids containing metal or ferrous particles.
- * For RL/A - G2 the minimum distance between the two control points must be at least 110mm.

CONNECTION:

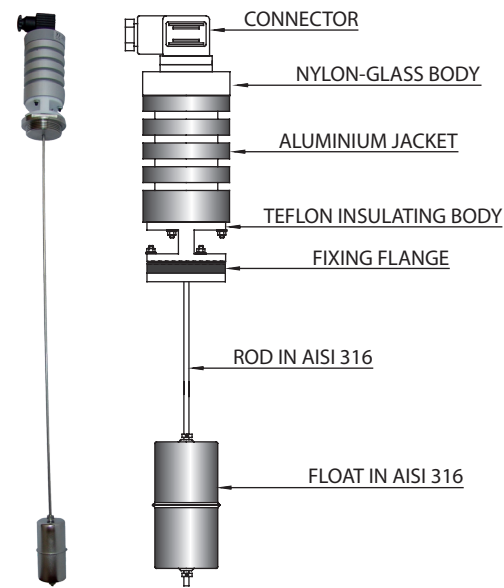
Connector CE
DIN 43650 IP65 PG.9



VERSION	CONNECTION	ELECTRICAL CONTACTS				REED	EXCHANGE REED		OPERATING TEMPERATURE -30 +100°C ON REQUEST 120°C	MAX. PRESSURE 10 Bar
RL / A - G1	1" 1/2 GAS	S1= CLOSED IN ABSENCE OF LIQUID	S1A= CLOSED IN PRESENCE OF LIQUID	S2= EXCHANGE	S3= MIN. EMPTY	S4= SPECIAL MIN. EMPTY	3 A. 60W .A. 230VDC 230 VAC	1A. 20W 20V.A. 150VDC 150 VAC		
RL / A - G2	2" GAS						3 A. 60W .A. 230VDC 230 VAC	1A. 20W 20V.A. 150VDC 150 VAC	0,5A. 30W 500 VDC	

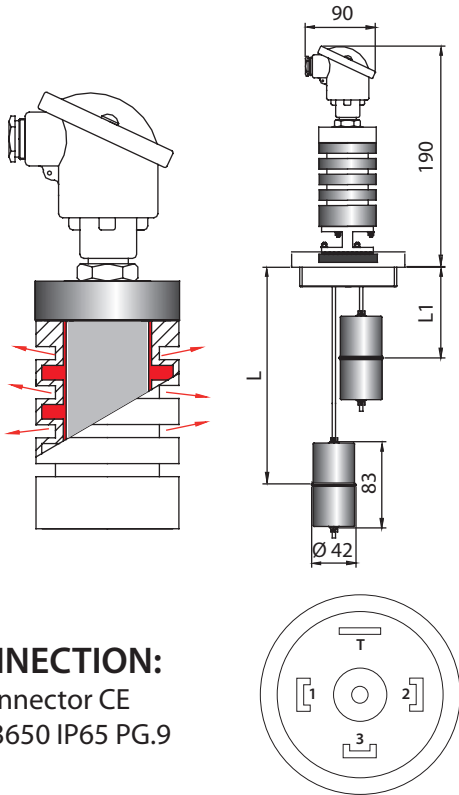
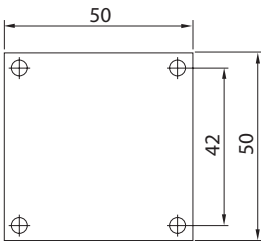
RL/T - (G1 / G2)

LEVEL SWITCH FOR HIGH TEMPERATURES
WITH 1 OR 2 CONTROL POINTS



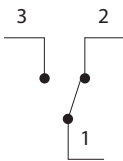
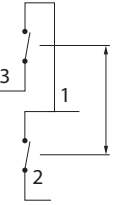
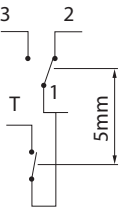


*The Rapid Level switch for temperatures consists of a normal RL with nylon-glass body, inserted in a completely finned (for heat dispersion) anodised aluminium jacket and joined to the fixing flange through an insulating body (teflon).
* This combined method of separating and protecting from the heat and dissipating the residual heat by means of a big increase in the radiant surface, allows our Rapid Level to also work continuously up to 200°C without problems for the electrical part contained in the body.
* The flange can be supplied with fixing holes or with 1"1/2 Gas thread connections (only for level switches with one float) and 2" GAS for all versions.

DRILLING DIAGRAM
FOR THE ALUMINIUM FLANGE

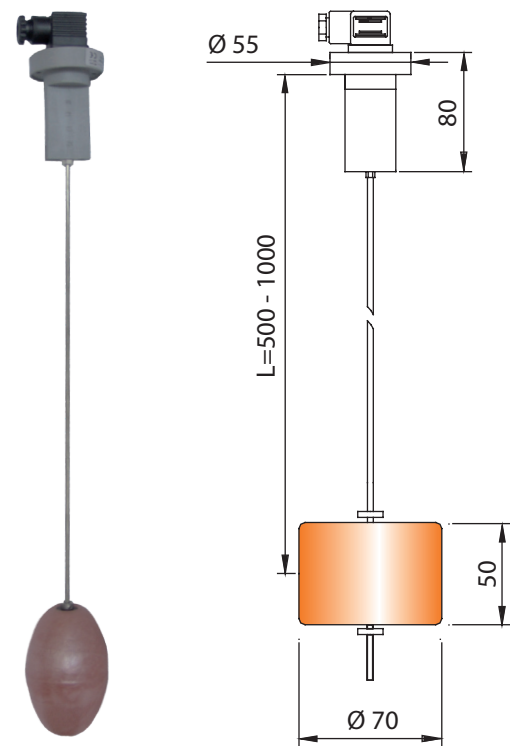


CONNECTION:
Connector CE
DIN 43650 IP65 PG.9

VERSION	CONNECTION		ELECTRICAL CONTACTS					REED	EXCHANGE REED		OPERATING TEMPERATURE -30 +200°C	ATMOSPHERIC PRESSURE
RL / T - G1	ALUMINIUM	AISI 316 S/STEEL	S1= CLOSED IN ABSENCE OF LIQUID 	S1A= CLOSED IN PRESENCE OF LIQUID 	S2= EXCHANGE 	S3= MIN. EMPTY 	S4= SPECIAL MIN. EMPTY 	3 A. 60W 60V.A. 230VDC 230 VAC	1A. 20W 20V.A. 150VDC 150 VAC	0,5A. 30W 500 VDC		
	1" 1/2 GAS	1" 1/2 GAS										
	ALUMINIUM FLANGE 4 HOLES											
RL / T - G2	2" GAS	2" GAS										

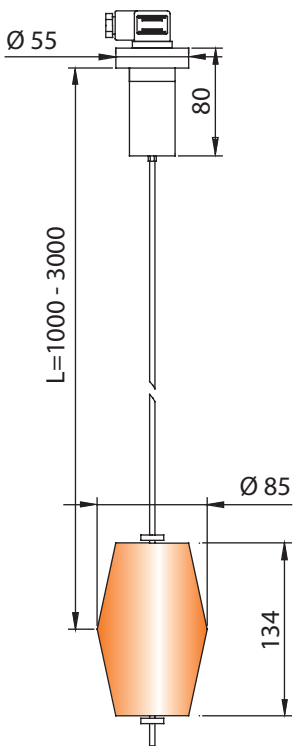
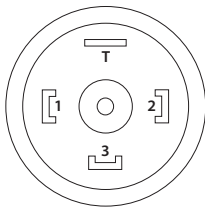
RL/G1 - MAXI

“MAXI” LEVEL SWITCH FOR CONTROL UNITS



- POSSIBILITY OF CONTROL UP TO 3 m
- SOLID ROD AND FLOAT IN PVC FOAM
- VERY QUICK AND EASY ADJUSTMENT OF SWITCHING POINT

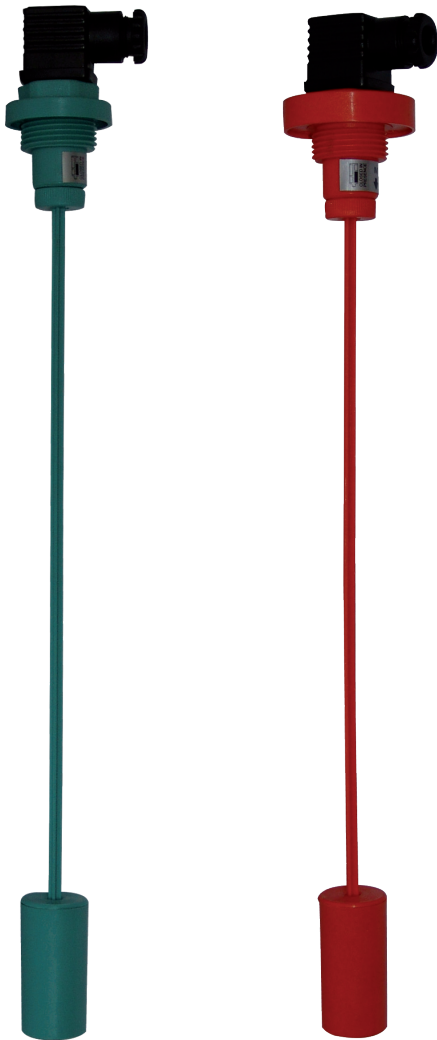
CONNECTION:
Connector CE
DIN 43650 IP65 PG.9



VERSION	CONNECTION	ELECTRICAL CONTACTS					REED	EXCHANGE REED		OPERATING TEMPERATURE -20 +80°C ON REQUEST 120°C	MAX. PRESSURE 10 Bar
RL / G1 - MAXI - F3 (F2)	FLANGE 3 / 2 HOLES	S1= CLOSED IN ABSENCE OF LIQUID	S1A= CLOSED IN PRESENCE OF LIQUID	S2= EXCHANGE	S3= MIN. EMPTY	S4= SPECIAL MIN. EMPTY	3 A. 60W 60V.A. 230VDC 230 VAC	1A. 20W 20V.A. 150VDC 150 VAC	0,5A. 30W 500 VDC		
RL / G1 - MAXI -1"GAS	1" GAS										
RL / G1 - MAXI -1"1/4 GAS	1" 1/4 GAS										
RL / G1 - MAXI - 1"1/4 NPT	1" 1/4 NPT										

MG - Mini Genius

ENTIRELY IN PLASTIC MATERIAL FOR SMALL
CONTROL UNITS



* EASY TO USE

there are two scales (oil and water) on the rod, that indicate the exact cutting place for obtaining the required switching point.

* SAFE

- a) the level switch has structural separation of the electrical part from the tank;
- b) insensitive to dirty liquids and metal particles.

* VERSATILE

- a) it can have two types of fixing (flange + thread) at the same time;
- b) the electrical contacts are reversible (N.O. / N.C. in pres.) with an operation of just a few seconds.

* COMPATIBLE

all parts of the level switch are made from the same material (nylon-glass /polypropylene-glass), to make chemical compatibility checking very easy.

* CONVENIENT

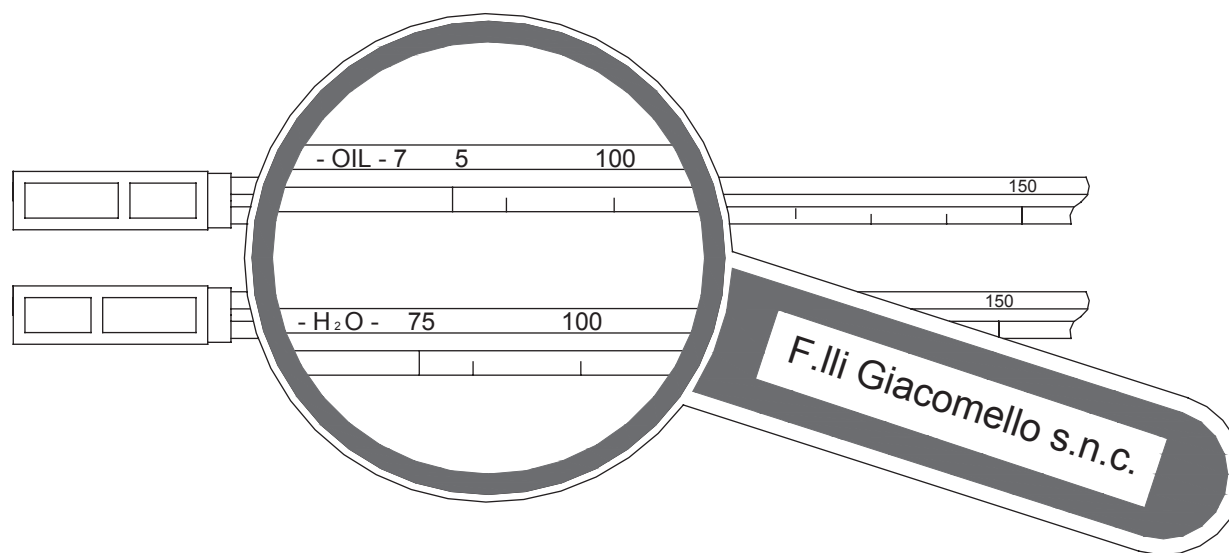
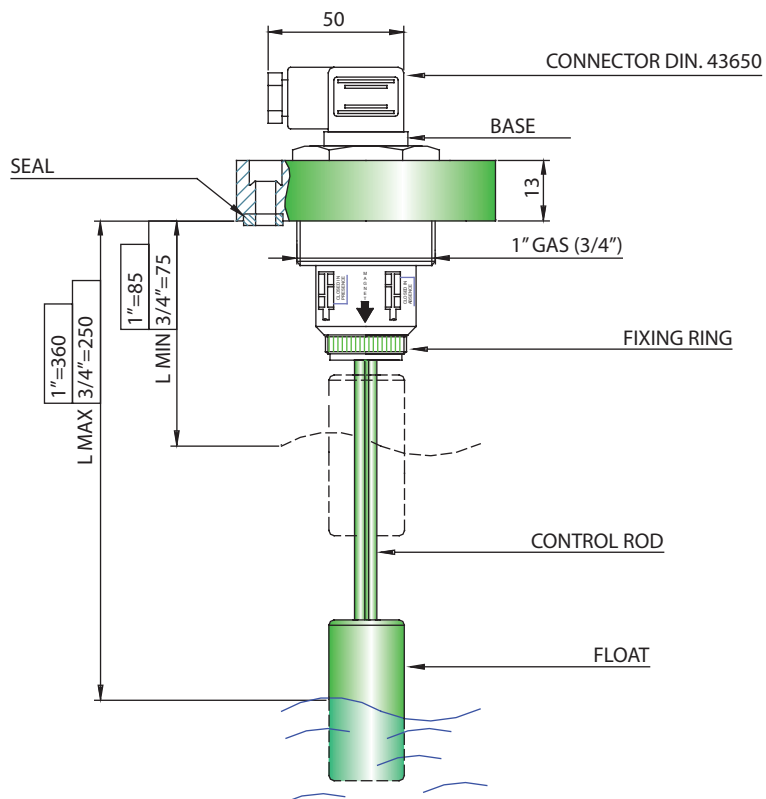
this level switch is not only the newest and most reliable available on the market from a technical standpoint, but is also the best in terms of quality value for money.

MG - Mini Genius

The brand-new MG range is the result over 20 years' experience in the field of level switches. This product is a happy synthesis of problems solved and universal use... nothing has been left to chance.

For dealers, it is the right product to meet the needs of every customer (user).

Extreme versatility and reliability are the main features of this "big - little" level switch.



Cutting the control rod.

After choosing the scale corresponding to the liquid used (water - oil), cut the control rod with nippers or scissors at the place corresponding to the control level (see level "L"); then join the float to the rod, fitting it in the special seat.

MG - Mini Genius

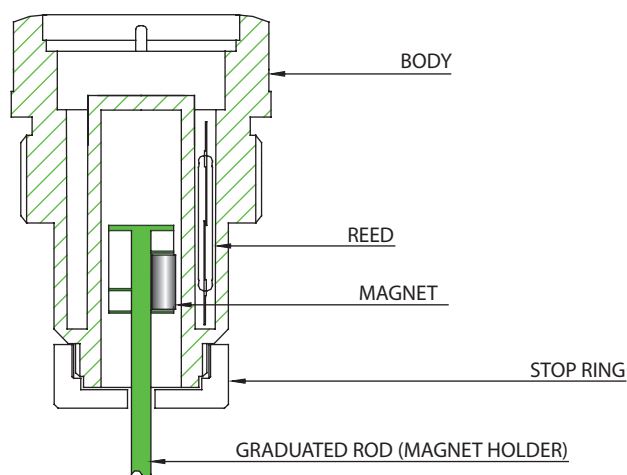
The level switch has the electrical part completely separate from the liquid and perfectly protected on the connector side.

The result is a safer product.

Production currently provides for the base body with 1" Gas thread (3/4" on request).

A flange with 3 holes (Ø55) or 6 holes (Ø70) can be welded to it (see table).

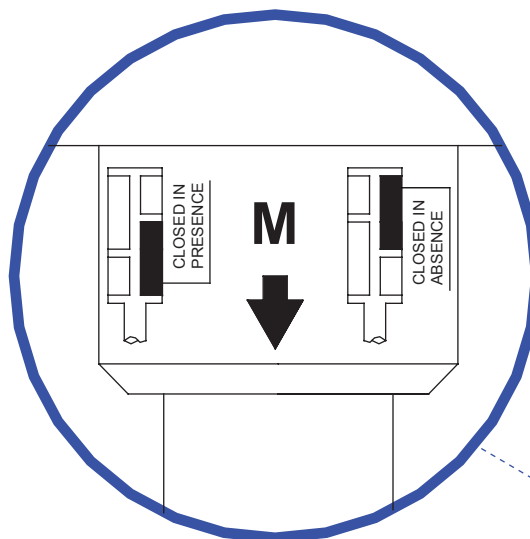
Moreover, by ordering the flanged (3 or 6 holes) level switch the user will also have a 1" Gas thread connection (3/4" Gas on request) available, for further fixing possibilities.



A main feature of the MG range is reversibility: by shifting the position of the magnet (M) it is possible to have the contact CLOSED IN PRESENCE or CLOSED IN ABSENCE of liquid.

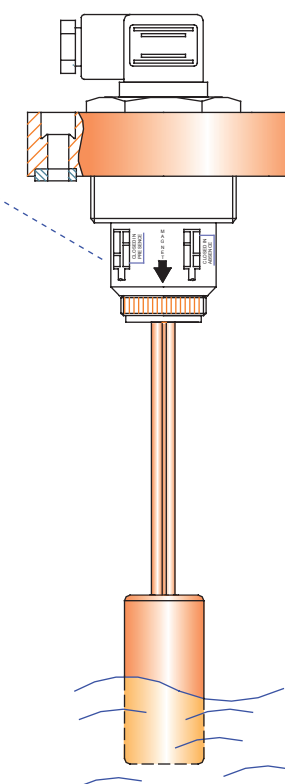
Everything is made even easier by the presence of a label above the body, which makes positioning of the magnet inside the body clear and immediate.

Except for particular cases, it is no longer necessary to order an SPDT exchange contact.



MG range level switches are insensitive to dirt or ferrous particles in the liquid, as there is no magnet on the float and because the float is integral with the rod.

Unlike the other level switches, all the components (body - rod - float - etc.) of the MG series are made from the same material; this makes it very easy to consult the compatibility tables and choose the right material needed.



The MG can be ordered in:
nylon-glass for use with:

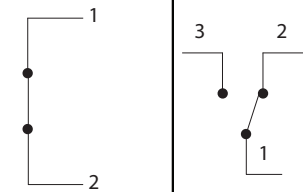
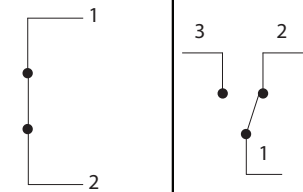
- water
- oil
- alcohol
- vinegar
- petroleum
- petrol

polypropylene - glass
(on request) suitable for:

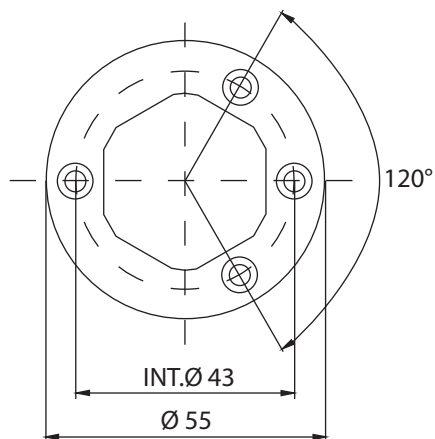
- distilled water
- ethyl alcohol
- detergents
- soda
- benzol

MG - Mini Genius

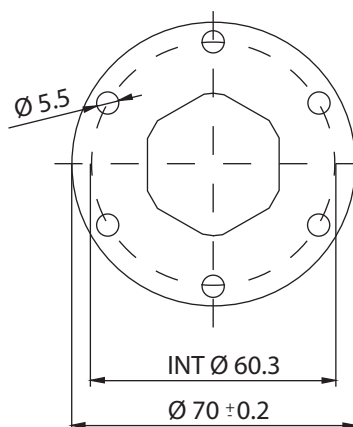
SUMMARY CHART

MODEL	CHARACTERISTICS	MATERIAL	Ø FLOAT	"L" ROD	CONTACT	OPERATING TEMPERATURE	PRESSURE	ELECTRICAL CONTACTS		REED				
MG - 1" - S1 (S1A-S2)	1" GAS	NYLON	30	360	REVERSING (IF NOT OTHERWISE IN DEMAND COMES FURNISHED WITH CONTACTING N.C. IN ABSENCE - S1)	"-20 + 80°C" ON REQUEST 100°C	3 BAR AT 20°C	S1= N.C. IN ABSENCE.	S2 (EXCHANGE)	S1 (S1A)	S2 (EXCHANGE)			
MG - 1" - F3 - S1 (S1A-S2)	1" GAS + 3 HOLES		30	360		"-20 + 80°C"		S1A= N.C. IN PRESENCE		2A. 40W. 40V.A. 230VDC / VAC	1A. 20W. 20V.A. 150VDC 150 VAC			
MG - 1" - F6 - S1 (S1A-S2)	1" GAS + 6 HOLES		30	360										
MG - P - 1" - S1 (S1A-S2)	1" GAS	P.P.	30	360										
MG - P - 1" - F3 - S1 (S1A-S2)	1" GAS + 3 HOLES		30	360										
MG - P - 1" - F6 - S1 (S1A-S2)	1" GAS + 6 HOLES		30	360										
MG - 3/4" - S1 (S1A-S2)	3/4" GAS	NYLON	23	250		"-20 + 80°C" ON REQUEST 100°C		3 BAR AT 20°C					2A. 40W. 40V.A. 230VDC / VAC	1A. 20W. 20V.A. 150VDC 150 VAC
MG - 3/4" - F3 - S1 (S1A-S2)	3/4" GAS + 3 HOLES		23	250		"-20 + 80°C"								
MG - 3/4" - F6 - S1 (S1A-S2)	3/4" GAS + 6 HOLES		23	250										
MG - P - 3/4" - S1 (S1A-S2)	3/4" GAS	P.P.	23	250										
MG - P - 3/4" - F3-S1 (S1A-S2)	3/4" GAS + 3 HOLES		23	250										
MG - P - 3/4" - F6-S1 (S1A-S2)	3/4" GAS + 6 HOLES		23	250										

FLANGE 3 HOLES

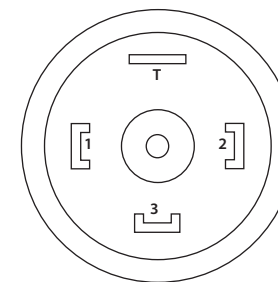


FLANGE 6 HOLES



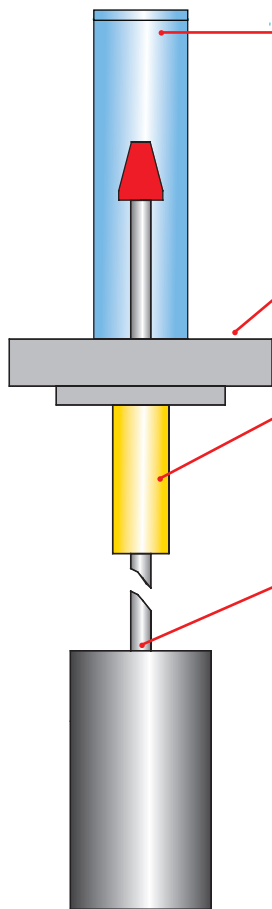
CONNECTION:

Connector CE
DIN 43650 IP65 PG.9



RL/G1 - V

VISUAL IMMERSION LEVEL SWITCH FLANGED CONNECTION

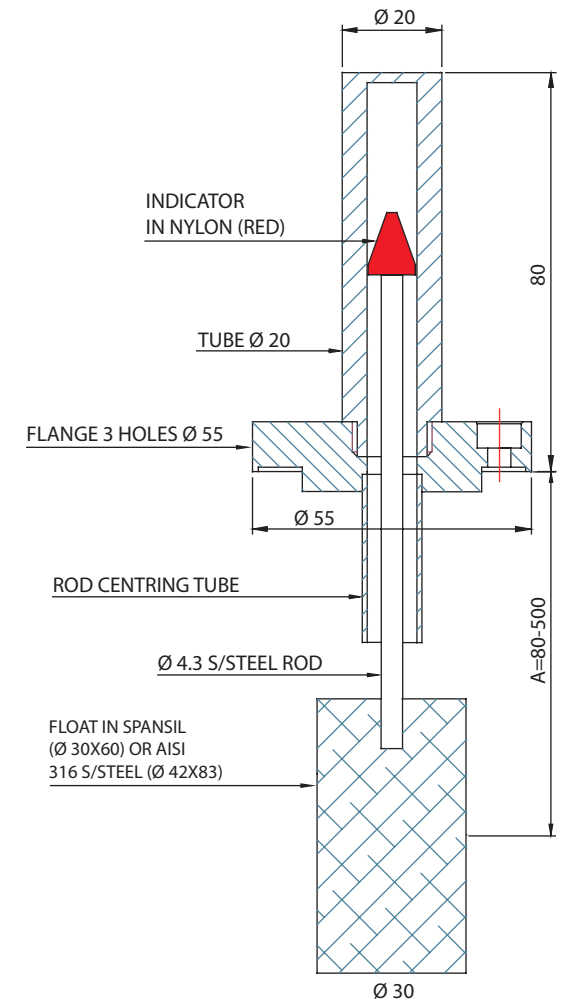


VISUAL MONITORING OF
LIQUID LEVEL

FIXING FLANGE 3 HOLES

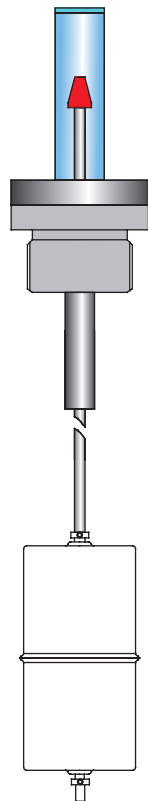
ROD PROTECTION AND CENTRING TUBE

QUICK AND EASY ADJUSTMENT OF
MINIMUM MONITORING POINT,
LIKE FOR THE ENTIRE "RL" RANGE



RL/G1 - V - 1"1/4

VISUAL IMMERSION LEVEL SWITCH 1"1/4 GAS
THREAD CONNECTION AND NPT

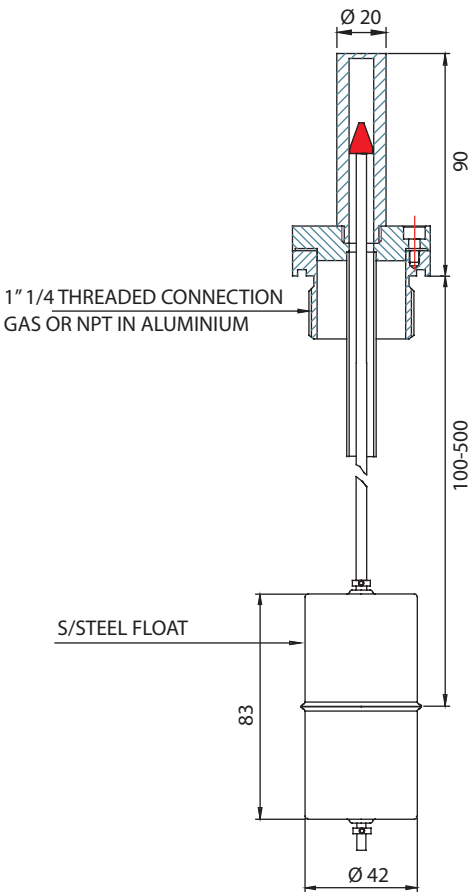


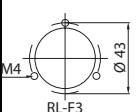
The easiest way to visually monitor the liquid level, without having to drill the side of the tank.

Adjustment is quick and practical:

- remove the float that creates a pressure seal with a silicone sheath (version with NBR float)
- cut the rod and centring tube with a pipe cutter
- refit the float
- or it can be ordered already to size.

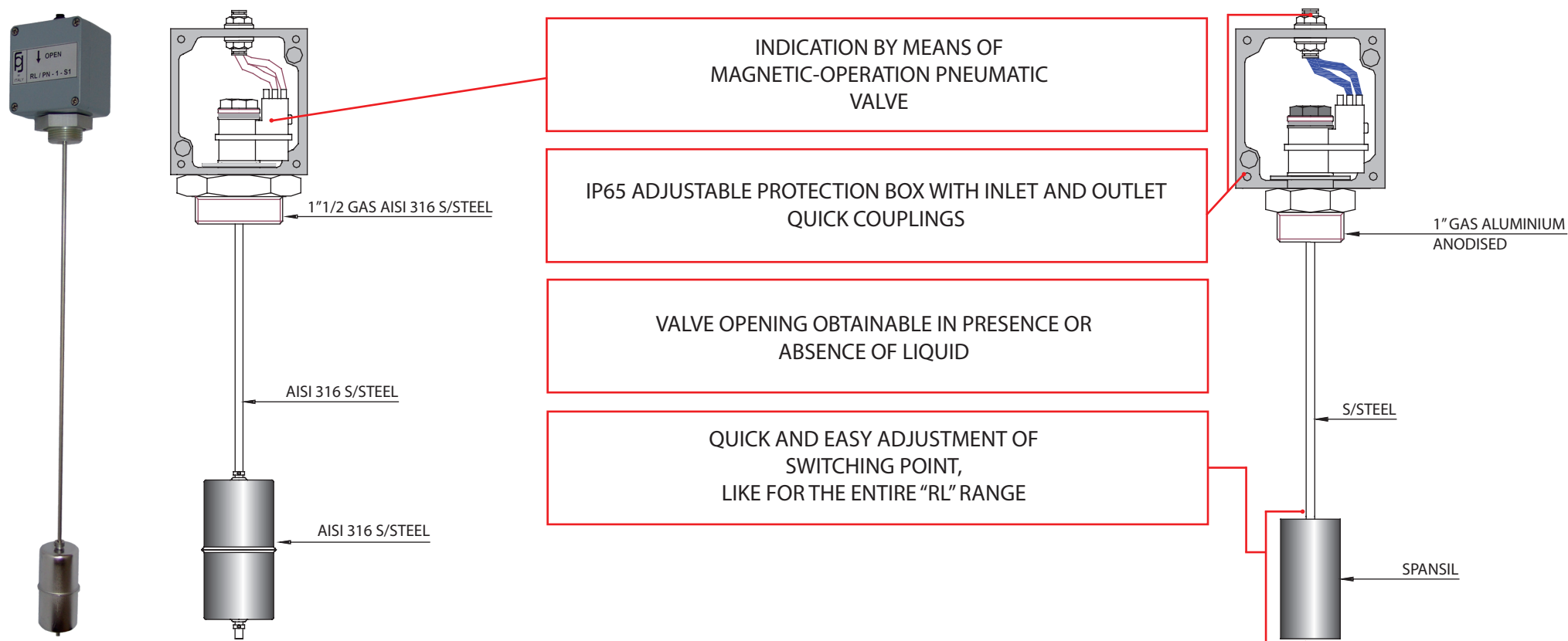
The float pushes the rod, with an indicator at the top which clearly and accurately shows the level of the liquid.



MODEL	OPERATING TEMPERATURE	OPERATING PRESSURE	MATERIAL ROD Ø4,3	TUBE Ø20	MATERIAL SEAL	MATERIAL FLANGE Ø55	MATERIAL CENTERING TUBE	MATERIAL FLOAT	DRILLING DIAGRAM	SWITCHING POINT
RL/G1-V	-20 +70 °C	5 BAR	AISI 304	METHACRYLATE	NBR (SILICONE ON REQUEST)	ANODISED ALUMINIUM	BRASS	NBR FOAM		80 - 500 mm
RL/G1-V-INOX			AISI 316				AISI 316	AISI 316		
THE RING NUT 1"1/4 GAS OR NPT CON BE COMBINED WITH EITHER THE BRASS OR S/STEEL VERSION										100 - 500 mm

RL/PN

PNEUMATIC CONTROL LEVEL SWITCH WITH ADJUSTABLE SWITCHING POINT



MODEL	PNEUMATIC VALVE OPENING		CONNECTION	HEX. WRENCH	DIMENS. OF FLOAT ACCORDING TO SWITCHING POINT	FLOAT	ROD
RL / G1 - PN -1"1/2	S1	IN ABSENCE OF LIQUID	AISI 316 1"1/2 GAS	60	Ø 42 x 83 AISI 316 S/STEEL	AISI 316 S/STEEL	AISI 316 S/STEEL
RL / G1 - PN -1"	S1A	IN PRESENCE OF LIQUID	ALUMINIUM 1" GAS	45	Ø 30 x 90 SPANSIL	SPANSIL	AISI 304 S/STEEL