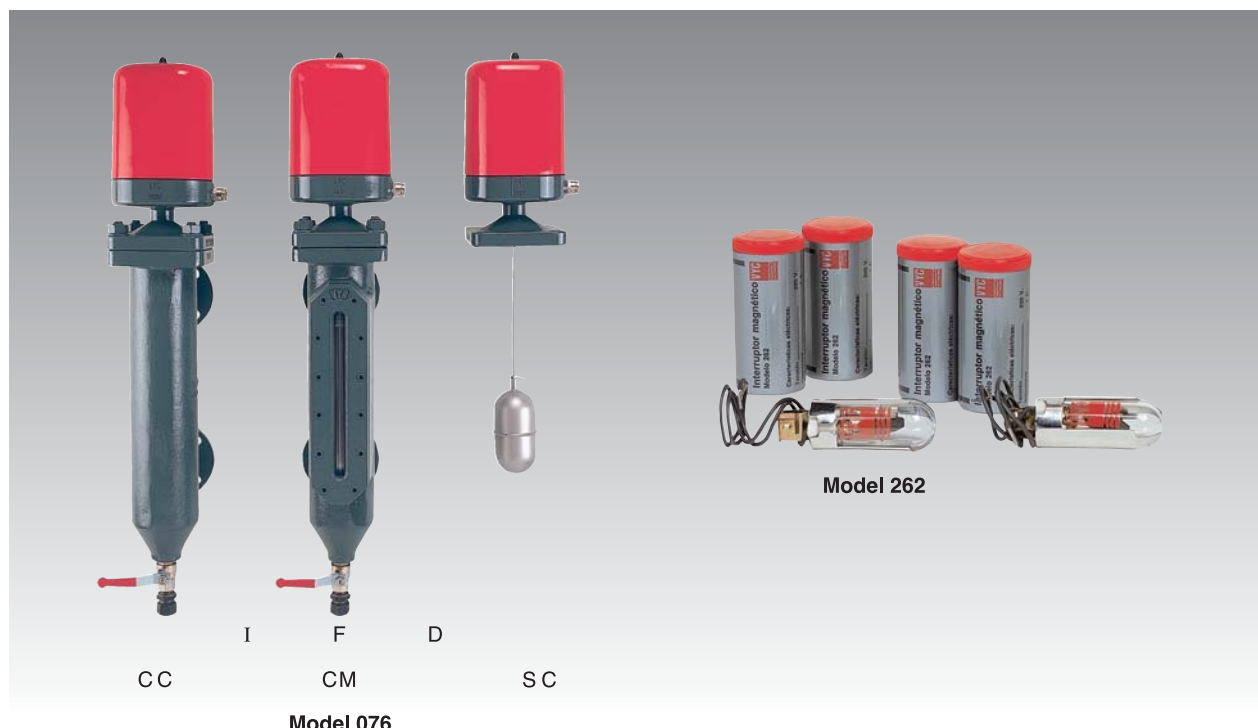


# Buoy type automatic level controller

Model 076



This device guarantees automatic, safe and reliable control, regulation and signalling of the level of liquids in; steam boilers, pressurised vessels, preheaters, processes, etc.

In accordance with the requirements of directive 97/23/EC.

EC controller verification certified by: TÜV Internacional Grupo TÜV Rheinland, S.L. EC 1027.

Type (Module B) EC examination report n° DP B EPR 0535132968 certified by: TÜV Internacional Grupo TÜV Rheinland, S.L.

## Specifications

- Materials carefully selected for their resistance to wear and tear, temperature and corrosion.
- Simplicity of construction ensuring minimum maintenance.
- The area of connectors, terminals, magnetic switches, etc., is attached to a totally tightness base in the area in contact with the fluid. A cover of isolating temperature resistant material prevents the entry of dust or dirt, etc. IP-65 protection.
- The components of the magnetic switch are rigorously selected to guarantee long life and total operating safety.
- Silver alloy breakers.
- Easy to connect and adjust the operating points.
- Models with multi-slatted polyprismatic reflector sight glass allow visual level readings, making a clear difference between the liquid and gas stages of the fluids. The sight glass is made of boron silicate and is designed so that if it accidentally breaks it will not fall out in pieces.
- All of the equipment and the switches have been thoroughly tried and tested.
- Each of the components is numbered, registered and checked. If prior request is made a certificates of materials, batch and tests will be supplied.

## IMPORTANT

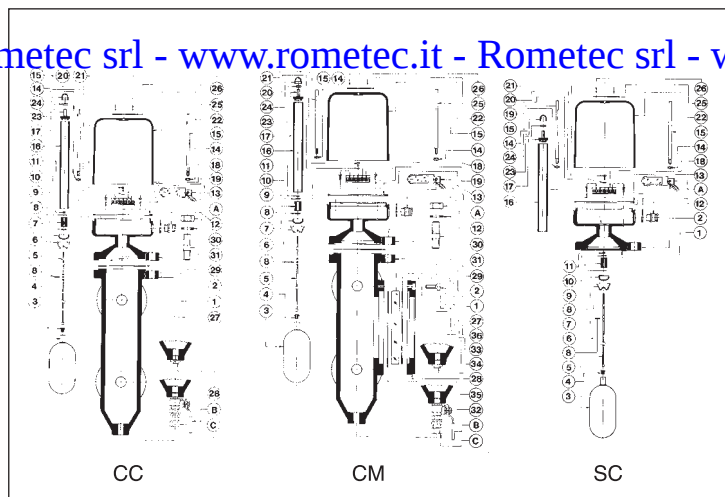
In steam boilers and other vessels with precipitating fluids we recommend adding a blowoff valve to the equipment, Mod. 999, 1/2" joined to the waste pipe for periodic release of sludge. As a minimum a 2 ÷ 3 second release must be performed every 8 hours.

If the 076-SC Model is connected to steam boilers or to vessels with turbulent fluids they must be supplied with the corresponding breakwater.

Depending on demand:

- Possibility of manufacture in other types of material, for use in special working conditions (high temperatures, fluids, etc.).
- Other connections and body length.
- Stainless steel buoy (EN-1.4401) with coating of Epoxy, PTFE (Teflón), Chemical nickel, etc.

Other sizes of buoy

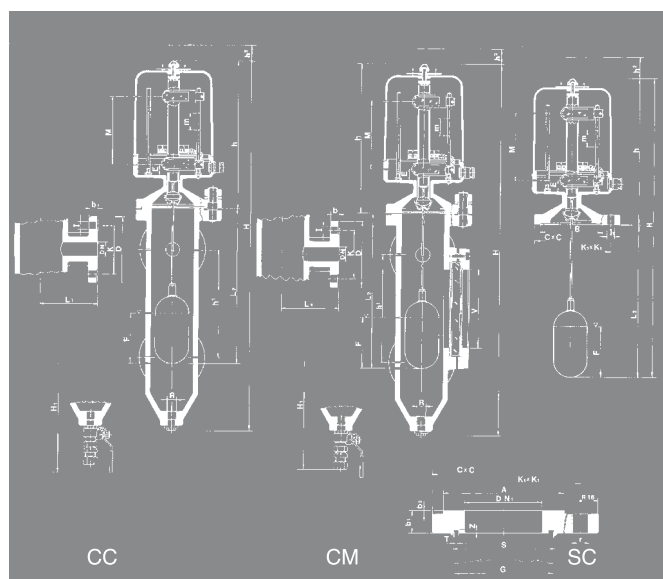


MODEL	CC	CM	SC
DN	25	25	—
CONNECTION	—	—	4 Screws M.16x40
h <sup>1</sup>	190	250	—
H	655	715	536
H <sub>1</sub>	790	840	—
M (MAX. LEVEL FLUCTUATION)	120	120	120
m (MIN. DISTANCE BETWEEN SWITCHES) (1)	30	30	30
(MINIMUM)	25	25	25
MAX. N° OF SWITCHES (2)	5	5	5
h <sup>2</sup>	160	160	160
h	262	262	262
L <sub>2</sub>	312	372	312
L <sub>1</sub>	100	100	—
BUOY	Ø 60 x 120	Ø 60 x 120	Ø 60 x 120
F (FLOATING LEVEL IN WATER)	87	87	87
REFLECTION GLASS	—	N° III 165 x 34 x 17	N° VI 250 x 34 x 17
V	—	140	225
R	1/2"	1/2"	—
	Whitworth gas-tight cylindrical female thread ISO 228/1 1987 (DIN-259)		
CONNECTING FLANGE			
PN1016 EN1092-2			
D	115	115	—
K	85	85	—
I	14	14	—
b	16	16	—
DILLS N°.	4	4	—
C x C	—	—	130 x 130
K <sub>1</sub> x K <sub>1</sub>	—	—	98,3 x 98,3
I <sub>1</sub>	—	—	18
B	—	—	110
DN <sub>1</sub>	—	—	70
K <sub>1</sub> x K <sub>1</sub>	—	—	98,3 x 98,3
r	—	—	M.16
	—	—	Metric female thread ISO (DIN-13) 1973
b <sub>1</sub>	—	—	20
b <sub>2</sub>	—	—	3,5
N° OF THREADS	—	—	4
C x C	—	—	130 x 130
A	—	—	109,8
S	—	—	90
T	—	—	4,5
G	—	—	88,9x3,2 (DIN-2448)
N	—	—	3
WEIGHT IN Kgs.	14,40	17,40	16,30
			22,00
			4,60
CODE	VIEWER (3)	—	—
	2104-076.	51061	51062
		51063	51064
		51065	51066
		51067	51068
		50061	50062

- (1) Attached to the same mounting.  
 (2) The maximum number of switches is 5 for each of the two mountings.  
 The buoy type automatic level controller Model 076 is supplied with no Model 262 magnetic switches. All switches requested are supplied separately.  
 (3) F = Front viewer, D = Right viewer, I = Left viewer.

N° PIECE	PIECE	MATERIAL
1	Base joint	Klingerit cardboard
2	Base	S. steel (EN-1.4408)
3	Buoy (1)	S. steel (EN-1.4401)
4	Connector	S. steel (EN-1.4401)
5	Guide rod	S. steel (EN-1.4401)
6	Cap securing clip	S. steel (EN-1.4310)
7	Cap end stop	S. steel (EN-1.4301)
8	Buffer	S. steel (EN-1.4301)
9	Magnet	Alnico - 500
10,20	Washer	S. steel (EN-1.4401)
11,14,23	Nut	S. steel (EN-1.4401)
12	Gland	Brass (EN-CW617N)
13	O-ring gasket	Fluorelastomer (Vitón)
15	Switch mounting	S. steel (EN-1.4305)
16	Guide tube	S. steel (EN-1.4401)
17	Cap	S. steel (EN-1.4301)
18	Terminal block	Bakelite
19,21	Screw	S. steel (EN-1.4401)
22	Cap	Aluminium (EN-AC-43000)
24	Cap	Plastic
25	Plate	Aluminium
26	Rivets	Aluminium (AIMg5)
27	Body	Cast iron (EN-JL1040)
28	Cap	Carb. steel (EN-1.1181)
29	Stud	Carb. steel (EN-1.1181)
30	Nut	Carb. steel (EN-1.1141)
31	Washer	Carb. steel (EN-1.1141)
32	Coupling	Graphite
33	Crystal	Boron-Silicate
34	Coupling	Klingerit cardboard
35	Sight glass cover	Cast iron (EN-JL1040)
36	Cover screws	Cast steel (EN-1.1191)
	DN	25 (2)
	PN	16
OPERATING CONDITIONS	PRESSURE IN bar	13,3
	MAX. TEMP. IN °C	150
	MIN. TEMP. IN °C	-10 (3)

- (1) See brochure for Model 152 Ø60x120.  
 (2) In Model 076-SC the coupling is made with 4 M.16x40 screws.  
 (3) As long as the equipment is free of humidity. Under the same conditions Model 076-SC can work up to -60°C.  
 (A) The buoy type automatic level controller Model 076 is supplied with no Model 262 magnetic switches.  
 All switches requested are supplied separately.  
 (B) (C) The blowoff valve and the waste water pipe joint are options on request.



## Magnetic switch

### Model 262

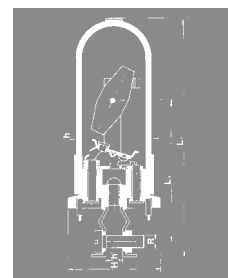
#### Specifications

Electrical characteristics: — Voltage: 220 V.A.C.  
 — Current: 1 A.

Magnetic characteristics: — Material: ALNICO - 1500.  
 — Residual induction (Br): 8500 / 8600 G.  
 — Coercive force (Hc): 1400 / 1500 Oe.  
 — Energy index (B-H) maximum: 4,2.



MODEL	262
R	M.4
	Metric male thread ISO (DIN-13) de 1973
H	27
h	23
h <sup>1</sup>	5
L <sub>1</sub>	70
L <sub>2</sub>	43
WEIGHT IN Kgs.	0,041
CODE	2104 - 262.0000



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 Founded in 1914

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