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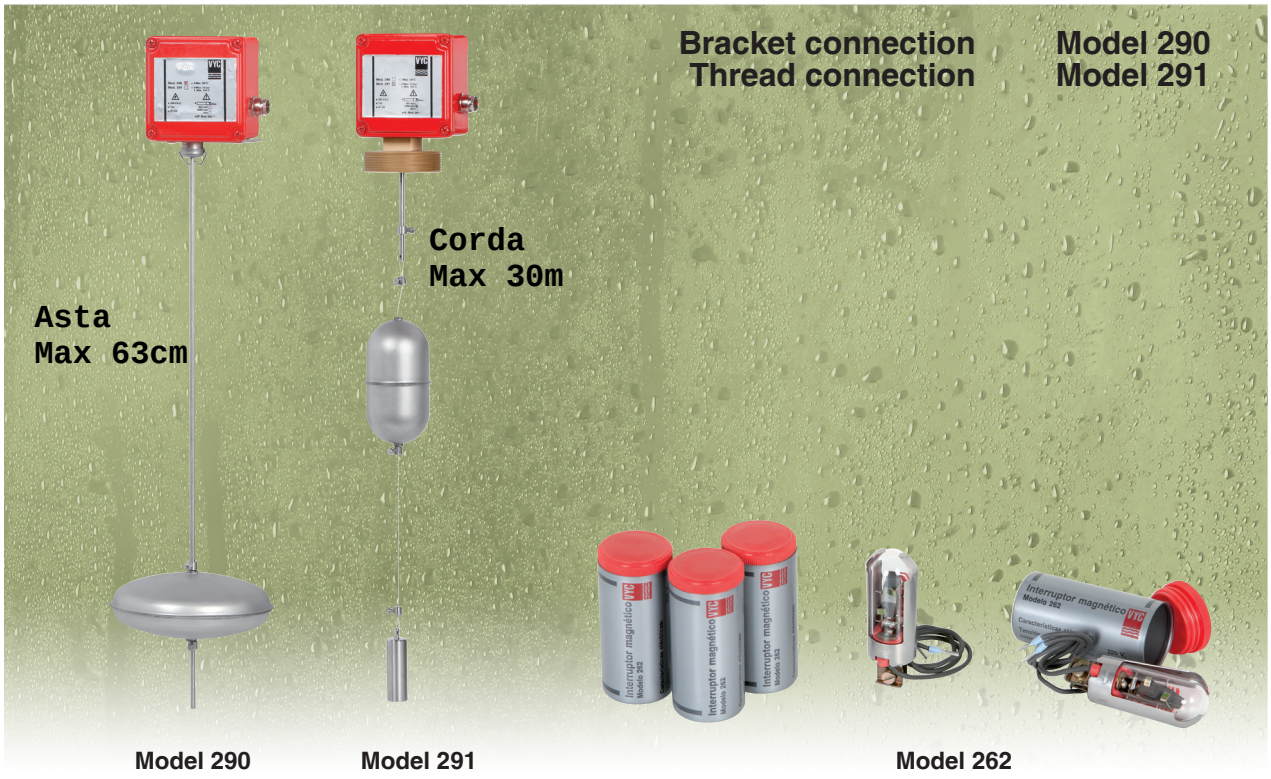
Sliding buoy type automatic level controller

EN ASME/MNPT



This device guarantees automatic, safe and reliable control, regulation and signalling of the level of liquids in; wells, tanks, cisterns, etc.
In accordance with the requirements of the pressure equipment directive 2014/68/EU.
EC controller verification certified by: TÜV Rheinland Industrie Service GmbH, Notified Body for Pressure Equipment ID-No. 0035.
Type (Module B) EC examination report nº DP B EPR 0535132968 certified by: TÜV Rheinland Ibérica ICT, S.A.

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., housed in a box made of isolating temperature resistant material which 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.
— Adjustment of operating points using end stops.
— 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 will be supplied.

IMPORTANT
If this equipment is connected 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 fluctuation length.
— Stainless steel buoy (EN-1.4401) with coating of Epoxy, PTFE (Teflón), Chemical nickel, etc.
— Other sizes of buoy.

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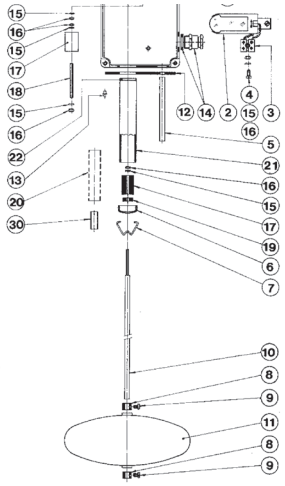
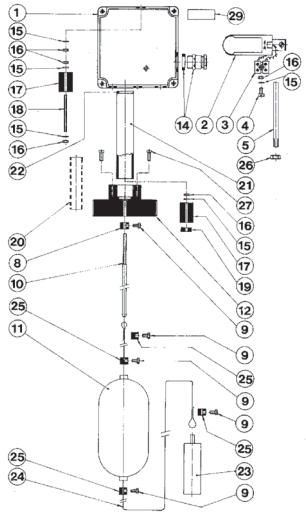


Model 290

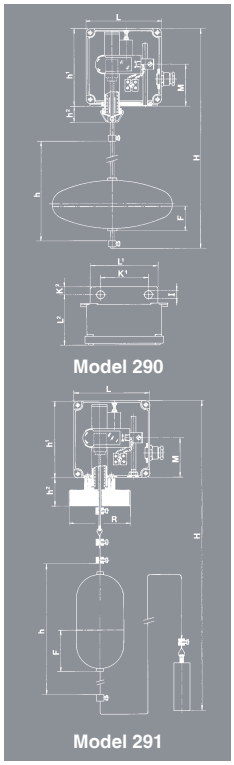


Model 291

N° PIECE	PIECE	MODEL 290	MODEL 291
1	Box	Aluminium (ASTM B 85 y B 179)	Aluminium (ASTM B 85 y B 179)
2	Magnetic switch	Model 262	Model 262
3	Block	Bakelite	Bakelite
4	Block screw	S. steel (EN-1.4401)	S. steel (EN-1.4401)
5	Switch fastening axis	S. steel (EN-1.4301)	S. steel (EN-1.4301)
6	Cap end stop	S. steel (EN-1.4301)	–
7	Cap securing clip	S. steel (EN-1.4310)	–
8,25	Buffer	S. steel (EN-1.4401)	S. steel (EN-1.4401)
9,27	Stop-screw	S. steel (EN-1.4401)	S. steel (EN-1.4401)
10	Guide road	S. steel (EN-1.4401)	S. steel (EN-1.4401)
11	Buoy (1)	S. steel (EN-1.4401)	S. steel (EN-1.4401)
12	Bracket	S. steel (EN-1.4301)	Brass (EN-CW617N)
13	Rivets	Aluminium (AlMg5)	Aluminium (AlMg5)
14	Gland	Brass (EN-CW617N)	Brass (EN-CW617N)
15	Washer	S. steel (EN-1.4401)	S. steel (EN-1.4401)
16,26	Nut	S. steel (EN-1.4401)	S. steel (EN-1.4401)
17	Magnet	Alnico - 500	Alnico - 500
18	Dowel	S. steel (EN-1.4301)	S. steel (EN-1.4301)
19	Spacer	S. steel (EN-1.4305)	S. steel (EN-1.4305)
20	Spring	S. steel (EN-1.4310)	S. steel (EN-1.4310)
21,30	Case	S. steel (EN-1.4301)	S. steel (EN-1.4301)
22	Case cover	S. steel (EN-1.4301)	S. steel (EN-1.4301)
23	Weight	–	S. steel (EN-1.4401)
24	Guide wire	–	S. steel (EN-1.4310)
29	Characteristic plate	Aluminium	Aluminium
	DN	Bracket with 2 screws M.8x...	2 1/2"
	PN	—	PMS . 19 bar
OPERATING CONDITIONS	PRESSION IN bar (2)	—	19,0 / 17,1 / 14,8 / 13,3
	MAX. TEMP. IN °C (2)	150	20 / 50 / 100 / 150
	MIN. TEMP. IN °C	0	-60 (3)
	MAX.VISCOSITY IN Cps	500	280

(1) See brochure for Model 152 Ø150x60 and Ø60x120 slidings.
(2) For higher pressures and temperatures see our technical department.
(3) As long as the equipment is free of humidity.

MODEL		290	291
R		—	2 1/2"
CONNECTION		2 screws M.8x...	Whitworth gas-tight male thread cylindrical ISO 228/1 (DIN-259) NPT thread male ASME B1.20.1
H	STANDARD	630	3320
	MAXIMUM	—	30320
h (LEVEL FLUCTUATION)	STANDARD	495	3000
	MAXIMUM	—	30000
h^1		98,5	95,5
h^2		20	35
M (MAXIMUM)		52	49
MAX. N°. OF SWITCHES		1	1
BUOY		Ø 150 x 60	Ø 60 x 120
F (FLOATING LEVEL IN WATER)		28	54
L		95,5	95,5
L^1		85	—
L^2		65	—
K^1		59	—
K^2		10	—
I		9	—
DRILLS N°.		2	—
WEIGHT IN kgs.		1,08	1,65
CODE		2104-290.0002	GAS 2104-291.5222 NPT 2104-291.52221



Model 290

Model 291

Magnetic switch

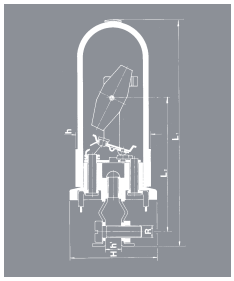
Model 262

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)
H	27
h	23
h^1	5
L_1	70
L_2	43
WEIGHT IN kgs.	0,041
CODE	2104 - 262.0000



VYC industrial, sau
Founded in 1914

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