

2000 SERIES MAGNETIC DRIVE LEVEL INDICATORS

APPLICATIONS AND TECHNICAL DATA

- visual level indicators for any type of liquids
(s. g. 0,55 kg/dm³ min. for the metallic type and 0,88 Kg/dm³ for the plastic type).
- interface measurement of liquids
- level measurement of particularly aggressive liquids or with pressure and temperature not suitable for standard glass tube or reflection indicators
- accuracy ± 5 mm.
- Max. pressure 50 Bar for standard versions and up to 150 bar for on request versions.
- operating temperatures from -20°C to 200°C
- Special versions for low temperature up to -160°C with antifrost device and for high temperature up to +400°C.
- Max. length 5,5 meters for metallic type and 3 meters for plastic type
- Version for s.g. <0,65 Kg/dm³, on request

WORKING PRINCIPLE

A permanent magnet incorporated in the float actuates the sensing elements mounted in the special waterproof case, causing them to rotate 180°.

These elements, which are treated with special paints of contrasting colour on the two faces, show the red colour faces when the level increases (float going up) and the white faces when the level decreases (float going down), thus showing very clearly the position of the float and hence the liquids's level.



Standard systems for connection to the process.			Top mounting version
<p>Socket welding</p>	<p>flanged</p>	<p>with shut-off valves</p>	<p>MAGNET INDICATOR FLANGE 3"-4" ANSI 150-300 RF TANK FLOAT</p> <p>S.G. = 0.8-1.2 Kg/dm³ PRESSURE MAX = 10 Kg/cm² TEMPERATURE MAX = 200°C</p>
Indicative amounts for metal versions (in mm.)			
Standard "C" connections: threaded 1" NPT-F; Flange UNI PN ... DN 25/1" ANSI ...RF; 1" S.W.			mod. 2016 T

N.B. Drain and vent valves are applicable to all models.



Model		2006 (1)			2016	2025	2040	2064 (2)		
STD "C" Flange connection		1" ANSI 150 FF UNI DN 25 PN 6			1" ANSI 150 RF UNI DN 25 PN 16	1" ANSI 300 RF UNI DN 25 PN 25	1" ANSI 300 RF UNI DN 25 PN 40	1" ANSI 600 RF UNI DN 25 PN 64		
Version		P	M	PF	J	J	J	J		
TEMPERATURE	38° C	SEE TABLE FOR TOLERANCE LIMITS OF PLASTIC TYPE INDICATORS			19	25	40	50		Max pressure in bar
	100° C				16	21	35	43		
	150° C				15	19	31	39		
	200° C				13	17	28	36		
	BODY RATING				-			ANSI 150	PN 25	

(1) Plastic type
(2) Pressurized float
On request versions with body rating higher than ANSI 300 can be supplied (models 2100 - 2150).

MATERIALS

CODE FOR:	Materials	AISI 316	PVC	Moplen	PVDF
	Body	J	P	M	PF
	Float	2	5	6	PF
	Internal gaskets: Graphoil (G) Spirometallic (S) Teflon (T) Viton (V) only for plastic type				

TOLERANCE LIMITS OF PLASTIC VERSION SWITCHES

MATERIALS	PVC	from 0° C to + 60° C pressure 6 bar at 25° C; 4 bar at 35° C; 1 bar at 60° C
	MOPLEN	from 0° C to + 80° C pressure 6 bar at 25° C; 4 bar at 45° C; 1 bar at 80° C
	PVDF	from -10° C to + 135° C pressure 6 bar at 20° C; 4 bar at 65° C; 1 bar at 135° C

ACCESSORIES TO ORDER

- ball-type shut-off valve DN 25 (1") up to mod. 2040; globe for the model 2064.
- ball-type drain and/or vent valves DN 6 (1/4") up to mod. 2040; globe for the model 2064.
- graduated scale.
- high and/or low level alarms, REED type
- 4÷20 mA transmitter.
- inox case.
- heating/cooling jacket or steam tracer.
- indication of float broken (yellow flags).
- protection window in polycarbonate.

HOW TO ORDER:

Example: 2016 - J - 2 - G

2016 model
J body in S/steel AISI 316
2 float in S/steel AISI 316
G gasket in graphoil

The following data is also required: type of liquid, specific gravity, operating temperature and pressure, distance of "x" connections.

ob OFFICINE OROBICHE S.p.A.

24010 Ponteranica (Bergamo) ITALY - via Serena, 10 - Tel. 0039.035.4530.211 - Fax 0039.035.570546
www.officineorobiche.it e-mail: info@officineorobiche.it

Information subject to change without prior warning