

INDICATORE DI LIVELLO A COMANDO MAGNETICO SERIE MLG MAGNETIC DRIVE LEVEL INDICATORS MLG SERIES



DESCRIZIONE

Un magnete permanente incorporato nel galleggiante, comanda gli elementi sensibili montati in una apposita custodia a tenuta stagna, facendoli ruotare su se stessi di 180°. Questi elementi trattati con speciali vernici di colore diverso sulle due facce presentano con l'aumentare del livello (galleggiante in salita) le facce rosse e si posizionano con il diminuire dello stesso (galleggiante in discesa) presentando le facce bianche, indicando così in modo molto evidente la posizione del galleggiante e quindi del livello del liquido.

APPLICAZIONI E CARATTERISTICHE TECNICHE

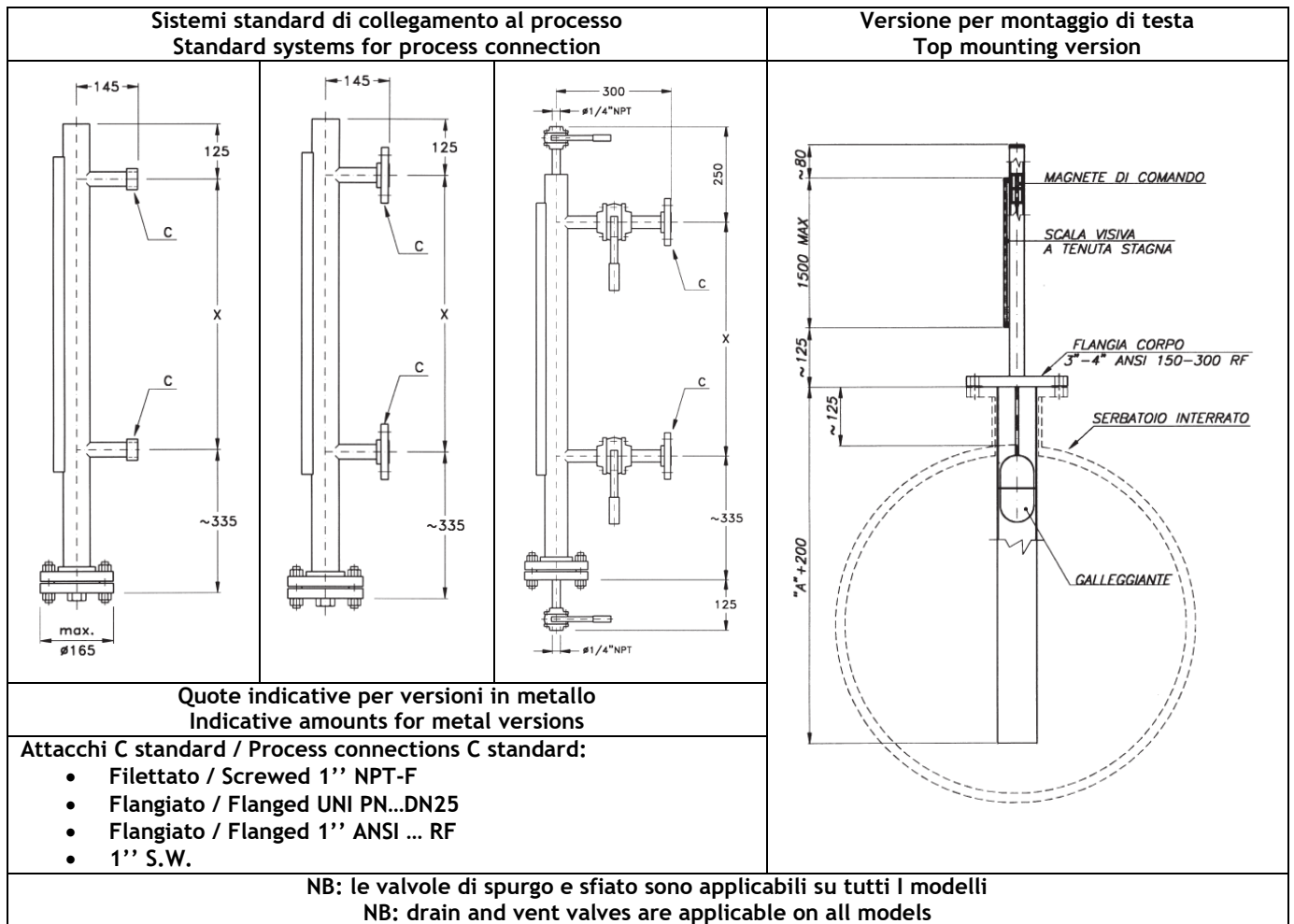
- misuratori visivi di livello di liquidi di qualsiasi tipo (p.s. min. 0,55 kg/dm³ per tipo metallico e min. 0,88 Kg/dm³ per tipo plastico)
- misura interfaccia di liquidi
- misura di livello di liquidi particolarmente aggressivi o con pressioni e temperatura non sopportabili dai normali livelli a tubo di vetro o a riflessione.
- precisione ± 5 mm
- pressione max ammissibile 50 kg/cm² per versioni standard fino a 150 kg/cm² per versioni su richiesta.
- temperatura di esercizio da -20°C a 200°C
- versioni per bassa temperatura fino a -160°C con antibrina e per alta temperatura fino a +400°C, su richiesta
- lunghezza massima 5,5 metri per tipo metallico e 3 metri per tipo plastico.
- versioni per p.s. < 0,65 kg/dm³ su richiesta.
- finestrella in vetro

DESCRIPTION

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 color on the two faces, show the red color 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 level.

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 anti-frost 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



LIMITI DI PRESSIONE / PRESSURE LIMITS

	38 °C	100 °C	150 °C	200 °C
1" ANSI 150 FF UNI DN 25 PN 6	Vedi tabella seguente / See next table			
1" ANSI 150 RF UNI DN 25 PN 16	19	16	15	13
1" ANSI 300 RF UNI DN 25 PN 25	25	21	19	17
1" ANSI 300 RF UNI DN 25 PN 40	40	35	31	28
1" ANSI 600 RF UNI DN 25 PN 64	50	43	39	36
Versioni con corpo in / Body material SS AISI 316				

SCHEMA PRODOTTO DATA SHEET

DS-MLG
ED-21-06

CODIFICATION

00 Series

MLG	Magnetic Level Gauge	
-----	----------------------	--

01 Type of Mounting

LL	Side-Side	
TOP	Top Mounting	

02 Range in meters

0 ÷ 9	Range in meters	
-------	-----------------	--

03 Range in millimeters

0 ÷ 999	Range in millimeters	
---------	----------------------	--

04 Process Connection Standard and Type

A	Flange - ASME B16.5 - RF	
B	Flange - ASME B16.5 - Ring Joint	
C	Flange - ASME B16.5 - Large male face	
D	Flange - ASME B16.5 - Small male face	
E	Flange - ASME B16.5 - Large female face	
F	Flange - ASME B16.5 - Small female face	
G	Flange - ASME B16.5 - Large tongue face	
H	Flange - ASME B16.5 - Small tongue face	
L	Flange - ASME B16.5 - Large groove face	
M	Flange - ASME B16.5 - Small groove face	
1	Flange - UNI EN 1092 - RF	
2	Flange - UNI EN 1092 - Tongue	
3	Flange - UNI EN 1092 - Groove	
4	Flange - UNI EN 1092 - Spigot	
5	Flange - UNI EN 1092 - Recess	
6	Flange - UNI EN 1092 - O-Ring Spigot	
7	Flange - UNI EN 1092 - O-Ring Groove	

05 Process Connection Rating

01	Class 150 (ASME B16.5)	
02	Class 300 (ASME B16.5)	
03	Class 400 (ASME B16.5)	
04	Class 600 (ASME B16.5)	
05	Class 900 (ASME B16.5)	
06	Class 1500 (ASME B16.5)	
07	Class 2500 (ASME B16.5)	
20	PN 2,5 (UNI EN 1092)	
21	PN 6 (UNI EN 1092)	
22	PN 10 (UNI EN 1092)	
23	PN 16 (UNI EN 1092)	
24	PN 25 (UNI EN 1092)	
25	PN 40 (UNI EN 1092)	
26	PN 63 (UNI EN 1092)	
27	PN 100 (UNI EN 1092)	
28	PN 160 (UNI EN 1092)	
29	PN 250 (UNI EN 1092)	
30	PN 320 (UNI EN 1092)	
31	PN 400 (UNI EN 1092)	
40	Class 3000 (Socket Welding)	
41	Class 6000 (Socket Welding)	
42	Class 9000 (Socket Welding)	

SPRIANO® TECHNOLOGIES - www.spriano.it - spriano@terranova-instruments.com

a TERRANOVA® Srl brand - www.terranova-instruments.com - VAT IT07848810151

Factory & Sales: Via Gramsci 1 - 26827 Terranova dei Passerini (LO) - Italy

Head Office: Via Rosso Medardo 16 - 20159 Milano - Italy Ph: +39 0377 919119 - Fax: +39 0377 855720

06 Process Connection Size

01	1/2" (ASME B16.5)
02	3/4" (ASME B16.5)
03	1" (ASME B16.5)
04	1" 1/4 (ASME B16.5)
05	1" 1/2 (ASME B16.5)
06	2" (ASME B16.5)
07	2" 1/2 (ASME B16.5)
08	3" (ASME B16.5)
09	3" 1/2 (ASME B16.5)
10	4" (ASME B16.5)
11	5" (ASME B16.5)
12	6" (ASME B16.5)
20	DN 15 (UNI EN 1092)
21	DN 20 (UNI EN 1092)
22	DN 25 (UNI EN 1092)
23	DN 32 (UNI EN 1092)
24	DN 40 (UNI EN 1092)
25	DN 50 (UNI EN 1092)
26	DN 65 (UNI EN 1092)
27	DN 80 (UNI EN 1092)
28	DN 100 (UNI EN 1092)
29	DN 125 (UNI EN 1092)
30	DN 150 (UNI EN 1092)
40	1/2" SOCKET WELDED
41	3/4" SOCKET WELDED
42	1" SOCKET WELDED
43	1" 1/4 SOCKET WELDED
44	1" 1/2 SOCKET WELDED
45	2" SOCKET WELDED
46	2" 1/2 SOCKET WELDED
47	3" SOCKET WELDED
48	4" SOCKET WELDED

07 Body and Chamber Materials

A	Body and Chamber in SS AISI 316/316L
B	Body and Chamber in HC276
C	Body and Chamber in INCONEL 625
D	Body and Chamber in DUPLEX
E	Body and Chamber in SUPER DUPLEX
F	Body and Chamber in MONEL 400

08 Float Material and Density

A0	Float in SS AISI 316, Density = 340 ÷ 500 Kg/m ³
A1	Float in SS AISI 316, Density = 500 ÷ 700 Kg/m ³
A2	Float in SS AISI 316, Density = 700 ÷ 900 Kg/m ³
A3	Float in SS AISI 316, Density = 900 ÷ 1100 Kg/m ³
A4	Float in SS AISI 316, Density = 1100 ÷ 1300 Kg/m ³
A5	Float in SS AISI 316, Density = 1300 ÷ 1500 Kg/m ³
A6	Float in SS AISI 316, Density = 1500 ÷ 1700 Kg/m ³
A7	Float in SS AISI 316, Density = 1700 ÷ 1900 Kg/m ³
A8	Float in SS AISI 316, Density = 1900 ÷ 2000 Kg/m ³
T0	Float in Titanium, Density = 340 ÷ 500 Kg/m ³
T1	Float in Titanium, Density = 500 ÷ 700 Kg/m ³
T2	Float in Titanium, Density = 700 ÷ 900 Kg/m ³
T3	Float in Titanium, Density = 900 ÷ 1100 Kg/m ³
T4	Float in Titanium, Density = 1100 ÷ 1300 Kg/m ³
T5	Float in Titanium, Density = 1300 ÷ 1500 Kg/m ³
T6	Float in Titanium, Density = 1500 ÷ 1700 Kg/m ³
T7	Float in Titanium, Density = 1700 ÷ 1900 Kg/m ³
T8	Float in Titanium, Density = 1900 ÷ 2000 Kg/m ³

09 Bolt Material

A	Bolts - ASTM A320 L7
B	Bolts - ASTM A193 B7
C	Bolts - ASTM A193 B8
D	Bolts - ASTM A193 B8M
E	Bolts - ASTM A193 B8M Cl.2

10 Nuts Material

1	Nuts - ASTM A194 2H	
2	Nuts - ASTM A194 2HM	
3	Nuts - ASTM A194 Gr.7	
4	Nuts - ASTM A194 Gr.8M	
5	Nuts - ASTM A194 Gr.8MA	

11 Vent Connection

A	Vent - Screwed - 1/2" NPT	
B	Vent - Screwed - 3/4" NPT	
C	Vent - Screwed - 1" NPT	
D	Vent - Flanged - 1/2" (ASME B16.5)	
E	Vent - Flanged - 3/4" (ASME B16.5)	
F	Vent - Flanged - 1" (ASME B16.5)	
G	Vent - Flanged - DN 15 (UNI EN 1092)	
H	Vent - Flanged - DN 20 (UNI EN 1092)	
L	Vent - Flanged - DN 25 (UNI EN 1092)	

12 Drain Connection

A	Drain - Screwed - 1/2" NPT	
B	Drain - Screwed - 3/4" NPT	
C	Drain - Screwed - 1" NPT	
D	Drain - Flanged - 1/2" (ASME B16.5)	
E	Drain - Flanged - 3/4" (ASME B16.5)	
F	Drain - Flanged - 1" (ASME B16.5)	
G	Drain - Flanged - DN 15 (UNI EN 1092)	
H	Drain - Flanged - DN 20 (UNI EN 1092)	
L	Drain - Flanged - DN 25 (UNI EN 1092)	
Z	Not Applicable (TOP Mounting)	

13 Housing and Flags Configuration

1	Housing Aluminum with Red & White flags	
2	Housing SS 316 with Red & White flags	
3	Housing Aluminum with Red, White AND Yellow alarm flags	
4	Housing SS 316 with Red, White AND Yellow alarm flags	

14 Operating Temperature

A	Up to 50 °C	
B	50 ÷ 100 °C	
C	100 ÷ 150 °C	
D	150 ÷ 200 °C	
E	200 ÷ 250 °C	
F	250 ÷ 300 °C	
G	300 ÷ 350 °C	
H	Over 350 °C	

15 Hazardous Area Classification

A	ATEX Certified Ex-H	
N	Not Hazardous Area	

16 Options

01	Painting STD SPRIANO (Up to 150 °C)	
02	Painting STD SPRIANO (Up to 350 °C)	
03	Offshore painting (Up to 200 °C)	
04	Offshore painting (Up to 350 °C)	
05	Material certificates 3.1	
06	PMI Certificates	
07	HIC / SSC Test	
08	Ball Valves screwed	
09	Ball Valves flanged	
10	Graduated scale with arrows	
11	Inductive Contacts	
12	Heating or Cooling Jacket	