



LEVEL MEASUREMENT

MLG28

Magnetic Level Gauge



Nikan Sanat Khavarmianeh

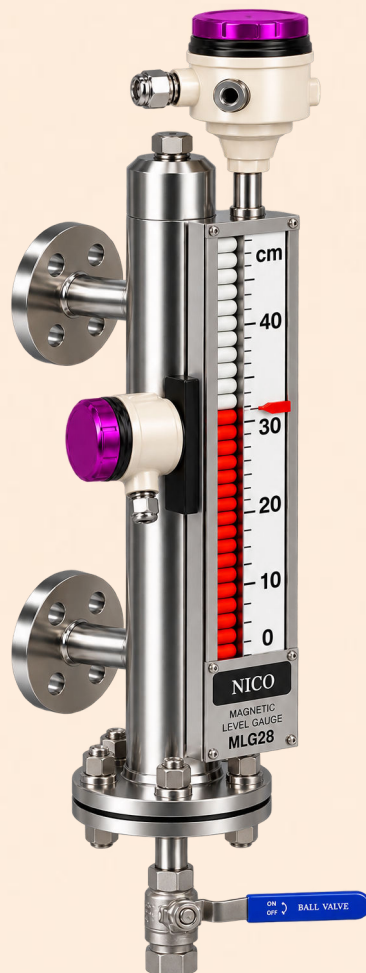
2026



LEVEL MEASUREMENT

MLG28

Magnetic Level Gauge



Local magnetic level indication for open and closed vessels, with optional level transmitter and optional magnetic level switches.

Product Overview

OPERATING PRINCIPLE · STANDARD AND OPTIONAL COMPONENTS

The NICO MLG28 is a magnetic level gauge for continuous local indication of liquid level in open and closed vessels. The gauge is mounted externally to the vessel, so the indicating elements remain outside the process boundary and the level can be read without opening or entering the vessel.

The gauge is supplied as a mechanical local indicator. A level transmitter and magnetic level switches are available as options and are supplied only when they are selected for the application.

OPERATING PRINCIPLE

The measuring chamber is connected to the vessel as a bypass chamber, so that the liquid inside it follows the level in the vessel. A magnetic float inside the chamber rises and falls with the liquid surface.

The magnetic field of the float acts through the chamber wall on the magnetic indicator mounted outside it. Each indicating element rotates as the float passes, so the indicated column follows the liquid level and remains visible against the graduated scale.



Generic representation of the operating principle. Proportions are illustrative and are not to scale.

Standard gauge components

- Measuring chamber
- Magnetic float
- Magnetic indicator
- Graduated scale
- Upper and lower process connections
- Upper auxiliary connection / closure
- Lower auxiliary connection / closure
- Nameplate

Optional accessories

- Level transmitter with two-wire 4–20 mA output
- Magnetic level switches for alarm or control duties
- Upper vent plug
- Upper vent needle valve
- Upper vent ball valve
- Lower drain plug
- Lower full-port ball valve
- Lower drain needle valve
- Blind-flange closure
- Special closed-vent or closed-drain connection
- Special-service requirements — subject to NICO engineering review

These items are not standard equipment. Availability and final construction are confirmed for the selected MLG28 configuration and process service.

Components and Process Connections

PRINCIPAL PARTS · PROCESS CONNECTION TYPES

Principal components

Component	Function
Measuring chamber	Contains the liquid column and the magnetic float
Magnetic float	Follows the liquid surface and carries the magnetic assembly
Magnetic indicator	Indicates the level outside the process boundary
Graduated scale	Provides the local reading against the indicated column
Process connections	Connect the chamber to the vessel
Auxiliary connections	Upper and lower connections or closures
Nameplate	Carries the tag and order identification

Two independent selections

The **process connection type** describes how the gauge is joined to the vessel. The **installation arrangement** describes where the upper and lower connections enter the measuring chamber. They are selected separately and are carried in separate fields of the model code.

Process Connection Type and Installation Arrangement are independent selections.

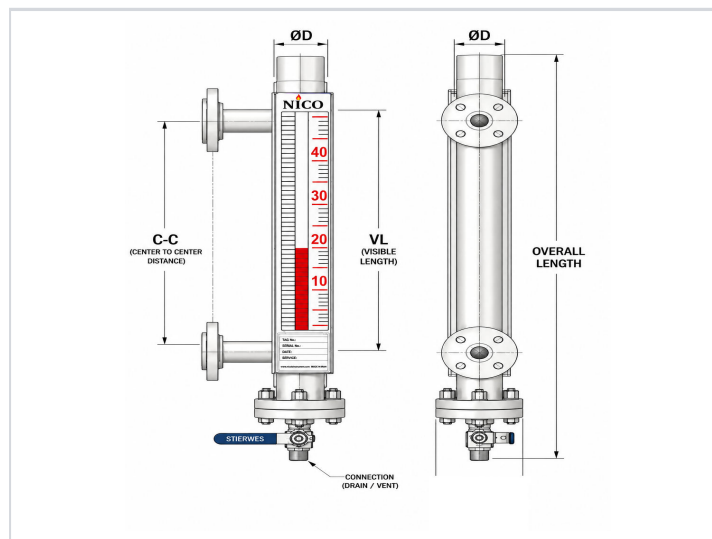
Connection availability, nominal size, dimensional standard, facing or sealing form, rating and material are confirmed for the selected configuration and stated in the order datasheet. Installation arrangements are shown on Page 6.

Process Connection Types



Representative connection forms. Shown without dimensions. Final connection geometry is according to the approved order drawing.

Dimension definitions



Definition diagram — C-C, Visible Length and overall chamber length. Shown without dimensional values.

Centre-to-Centre Distance (C-C): the vertical distance between the centre lines of the upper and lower side process connections. C-C applies to the SS — Side-Side arrangement only.

Visible Length (VL): the usable readable length of the magnetic indicator, measured from the lower readable limit to the upper readable limit. VL is not the overall chamber length and is not automatically equal to C-C. Chamber end extensions, vent and drain closures and non-readable end zones are excluded. For some SS designs VL may equal C-C, but this is stated for the selected configuration and is never assumed.

MH, FF and IL are stated in the order datasheet and on the approved dimensional drawing; they are not encoded in the model string in this revision. A vertically displaced indicator is stated as *Special indicator position* — specify required readable elevation; it is not an installation arrangement.

Level Transmitter

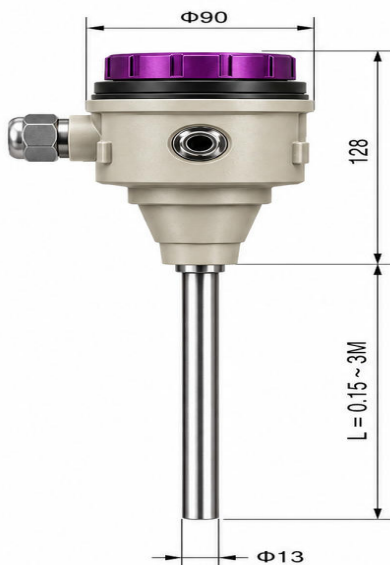
OPTIONAL CONTINUOUS OUTPUT · OPTION TX-R4

The MLG28 can be supplied with an optional resistive level transmitter mounted externally, alongside the measuring chamber. The transmitter follows the position of the same magnetic float that drives the local indicator, so local magnetic indication remains available independently of the electrical output. The transmitter is an option; a mechanical gauge without a transmitter remains available and is ordered with code **N0**.

TX-R4

Resistive Level Transmitter

Two-wire 4–20 mA · ordering value **R4**



Representative TX-R4 construction. Final dimensions according to the approved TX-R4 version and order drawing.

TX-R4 Technical Data

Parameter	TX-R4
Type and operating principle	Resistive level transmitter, following the magnetic float of the same gauge
Output signal	4–20 mA
Wiring system	Two-wire, loop powered
Nominal supply voltage	24 VDC nominal
Mounting arrangement	External to the measuring chamber
Allowable supply range	13–36 VDC ‡
Junction-box material	Aluminium alloy
Ingress protection	IP65
Sensor material	SS 304 or SS 316
Rod diameter <i>d</i>	13 mm or 20 mm, configuration-dependent
Resolution	10 mm, 8 mm or 5 mm, configuration-dependent
Working temperature	–30 to +150 °C
Sensor length <i>L</i>	200–6000 mm
Measurement range	Configuration-dependent †
Zero adjustment	Float at zero position; adjust output to 4 mA
Span adjustment	Float at highest position; adjust output to 20 mA
Hazardous-area status	No hazardous-area approval is offered for TX-R4
Communication protocol	HART availability is subject to confirmation for the selected transmitter version

† Configuration-dependent values are confirmed in the approved order datasheet.

‡ Source-indicated operating range; to be confirmed for the selected TX-R4 version. Accuracy, repeatability, maximum loop load, dead zones and cable-entry thread are not published; they are defined by the approved TX-R4 version.

Reference outline dimensions

Feature	Reference
Junction-box diameter	approx. Ø90 mm
Junction-box height	approx. 128 mm
Side projection shown	approx. 126 mm

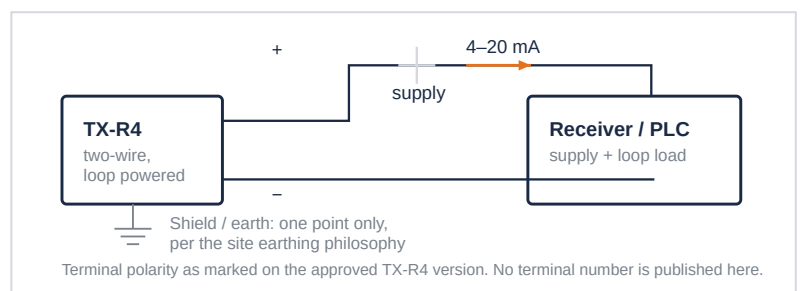
Layout guidance only; binding dimensions are on the approved order drawing.

Three separate quantities

Quantity	Meaning
Measurement range	The span over which the level is measured electrically
Sensor length <i>L</i>	The physical length of the transmitter sensing rod
Visible Length <i>VL</i>	The usable readable length of the magnetic indicator
Centre-to-centre <i>C-C</i>	Distance between two side process connections, SS arrangement

These quantities are stated separately with the order. They are related through the selected arrangement and are never interchangeable.

Two-wire loop connection



Connection principle only. The transmitter is in series with the supply and the receiver input, so one loop current carries supply and signal. Observe the polarity marked on the approved TX-R4 version. Terminal numbers, cable specification and the earthing point come from the approved order documents.

Level Switches — Engineered Option

EXTERNAL MAGNETIC SWITCHING POINTS · ALARM AND CONTROL DUTIES

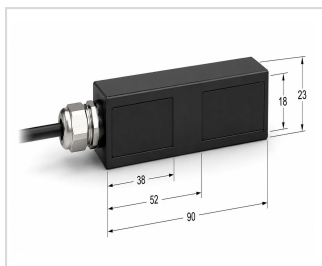
The MLG28 can be supplied with external magnetic level switches for high-level, low-level and intermediate alarm and control duties. Each switch is mounted on the outside of the measuring chamber and operates as the magnetic float passes its mounting position, so no additional process penetration is required and the switch can be inspected without breaking the process boundary.

Four switch constructions are available for application review and selection with the approved quotation. Working temperature, ingress protection, contact configuration and enclosure material are given below. The electrical contact rating is confirmed with the quotation for the selected switch version.

Information required with enquiry

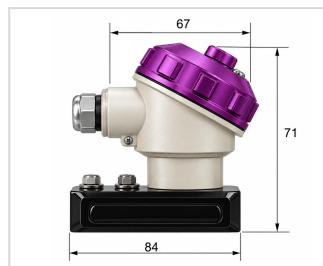
Required information	Examples
Duty and set point	High alarm, low alarm, pump stop, interface point
Number of points	1, 2, 3 or project requirement
Contact requirement	NO, NC or changeover
Connected load	AC/DC voltage, current, resistive or inductive load
Site conditions	Ambient temperature, area classification, required IP
Mounting location	Position stated from the agreed MLG28 datum

Switch constructions



S1

Cable-lead version



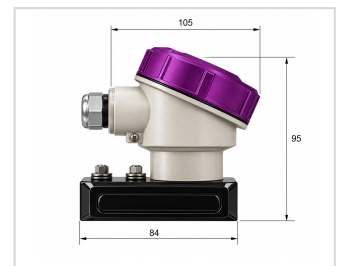
S2

Aluminium junction-box version



S3

Heavy aluminium enclosure



S4

Angled aluminium junction-box version

Switch comparison

Field	S1	S2	S3	S4
Construction	Cable-lead version	Aluminium junction-box version	Heavy aluminium enclosure	Angled aluminium junction-box version
Working temperature	–30 to +150 °C	–30 to +150 °C	–30 to +300 °C	–30 to +150 °C
Ingress protection	IP67	IP65	IP65	IP65
Contact configuration	Latching SPDT	Latching SPDT	Latching SPDT	Latching SPDT
Cable	1 m high-temperature silicone cable	—	—	—
Junction-box material	Not applicable	Aluminium alloy	Aluminium alloy	Aluminium alloy
Switching mechanism	Confirmed for the selected switch version			
Electrical contact rating	Confirmed with quotation for the selected switch version			
Hazardous-area status	—	—	No hazardous-area certification or marking is published; suitability for the installed area is confirmed with quotation	

Final electrical rating, connected-load compatibility and hazardous-area certification are confirmed in the approved quotation and order datasheet. No certification standard, protection concept, gas group, temperature class or certificate number is published, and no Ex marking is shown.

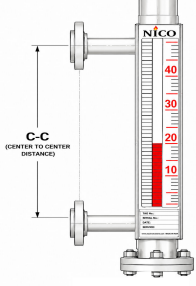
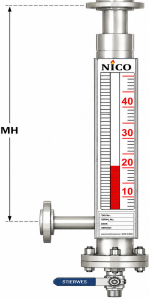
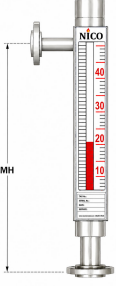
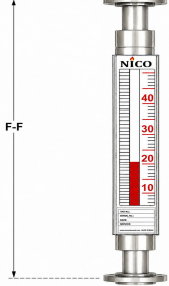
Where the connected circuit exceeds the verified rating of the supplied switch, use an interposing relay. Inductive loads require suitable suppression selected for the circuit. Switch Type, Switch Quantity and Switch Set Point are separate order parameters; each set point is stated in the approved order datasheet and is never encoded in the model string.

Installation Arrangements

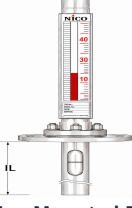
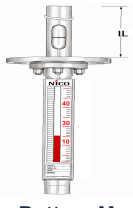
STANDARD EXTERNAL-CHAMBER ARRANGEMENTS · DIRECT AND SPECIAL MOUNTING

The installation arrangement defines where the upper and lower process connections enter the measuring chamber, and it is selected independently of the process connection type on Page 3. The governing vertical dimension is drawn on each card below. Final arrangement, nozzle geometry and configuration compatibility are confirmed by NICO engineering.

Standard External-Chamber Arrangements

 SS — Side-Side Upper: side (radial) Lower: side (radial) C-C, centre to centre of the two side nozzles	 ST — Side-Top Upper: axial at the top Lower: side (radial) MH — Mounting Height	 SB — Side-Bottom Upper: side (radial) Lower: axial at the bottom MH — Mounting Height	 TB — Top-Bottom Upper: axial at the top Lower: axial at the bottom FF — Face-to-Face Height
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Direct and Special Mounting — On Request

 TM — Top-Mounted Direct Insertion IL — Insertion Length	 BM — Bottom-Mounted Direct Insertion IL — Insertion Length	 SP — Special Arrangement Per approved project drawing
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TM, BM and IF require configuration-specific float guidance, mounting connection, insertion length and accessory compatibility. Availability is subject to NICO engineering review.

Governing dimension — measured from and to

ARR	CC field	Dimension	Measured FROM	Measured TO
SS	nnnn	C-C	Centre line, upper side connection	Centre line, lower side connection
ST	NA	MH	Centre line, lower side connection	Gasket face, upper top connection
SB	NA	MH	Centre line, upper side connection	Gasket face, lower bottom connection
TB	NA	FF	Gasket face, upper top connection	Gasket face, lower bottom connection
TM	NA	IL	Gasket face, vessel top mounting connection	Lower tip of the inserted chamber / guide tube
BM	NA	IL	Gasket face vessel bottom mounting connection	Upper tip of the inserted chamber / guide tube
SP	nnnn / NA	—	Datum and dimension defined on the approved project drawing	

NA does not mean the arrangement has no vertical dimension. It means the C-C field is not used, because that arrangement has no two side connections defining a C-C; the governing dimension is the one named above and drawn on its card. Definitions: Page 3.

Selection and Enquiry Guide

INFORMATION REQUIRED TO CONFIGURE THE MLG28

The MLG28 is configured for the application. Submit the following information with the enquiry so that the construction, process connections, float and accessories can be selected and confirmed.

Enquiry data	Notes
Tag number	Identification of the gauge in the installation
Process fluid and composition	Medium and constituents relevant to material selection
Minimum liquid density at operating conditions	With units and at the stated condition
Maximum liquid density at operating conditions	With units and at the stated condition
Normal operating pressure	The usual pressure in service
Design pressure	The pressure the gauge is to be designed for
Operating temperature	The usual process temperature in service
Design temperature	The temperature the gauge is to be designed for
Ambient temperature	Conditions at the installed position
Arrangement	Selected gauge and installation arrangement
Process-connection size and type	Nominal size; flanged, threaded, sanitary or special
Connection standard and rating	Governing standard and the required rating designation
Chamber and wetted materials	Materials required for the chamber and each wetted part
Float construction	Confirmed by NICO engineering against the submitted process data
Measurement range	The required indicated span, in mm
Centre-to-centre distance, where applicable	Where the arrangement defines two side connections
Mounting or insertion dimension, where applicable	For top-, bottom- and internal-float arrangements
Transmitter requirement	Whether a level transmitter is required
Transmitter sensor length	Sensor length, or confirmation that NICO is to determine it
Switch type	Required switch construction reference
Switch quantity	Number of switching points required
Exact switch set points	Position of each point, referred to the measuring range
Contact duty and electrical load	Duty of each point and the connected circuit
Area classification	Classification of the installed position
Vent construction	Type, size, standard, rating, body, seat, sealing and packing materials
Drain construction	Type, size, standard, rating, body, seat, sealing and packing materials
Vent/drain conditions and discharge	Design pressure and temperature, discharge destination, cap, plug or locking device
Insulation, tracing, jacket or special service	Any additional service requirement

Final construction, materials, process connections, float selection and accessory compatibility are configuration-dependent and confirmed by NICO engineering against the submitted process conditions.

Density, pressure, temperature, set points and vent/drain construction are mandatory order data, not encoded in the model string.

Ordering Code — Mechanical Configuration

FIELDS 1 TO 6 · GAUGE CONSTRUCTION

SELECTION TABLES — AVAILABILITY AND COMBINATION CONFIRMED WITH QUOTATION

COMPLETE MODEL ARCHITECTURE

MLG28 — ARR — CON — SIZE — RAT — MAT — FLT — TX — SWT — SWQ — VNT — DRN — CC — VL

1 ARR — Arrangement

Code	Selection
SS	Side–Side
ST	Side–Top
SB	Side–Bottom
TB	Top–Bottom
TM	Top–Mounted Direct Insertion *
BM	Bottom–Mounted Direct Insertion *
IF	Internal–Float / In–Tank *
SP	Special Arrangement

2 CON — Process Connection

Code	Selection
FL	Flanged
TH	Threaded
SA	Sanitary
SP	Special

* On Request — see Page 6.

3 SIZE — Connection Size (inch)

SELECTION TABLE — CONFIRMED WITH QUOTATION

Code	Selection
S05	½"
S07	¾"
S10	1"
S15	1½"
S20	2"
S30	3"
S40	4"
S60	6"
SOR	On request

Inch is the primary designation; the code is 5 plus the size in inch × 10. SOR = on request.

4 RAT — Connection Rating

SELECTION TABLE — CONFIRMED WITH QUOTATION

Code	Selection
A15	ASME Class 150
A30	ASME Class 300
A60	ASME Class 600
P16	PN16
P25	PN25
P40	PN40
ROR	On request

Supplied only with its governing standard. PN and ASME Class are never interchangeable. ROR = on request.

5 MAT — Chamber / Wetted Construction

SELECTION TABLE — CONFIRMED WITH QUOTATION

Code	Selection
M01	Customary — SS 304 / 304L
M02	Customary — SS 316 / 316L
M03	Customary — SS 321 / 316Ti
M04	Special — duplex stainless steel
M05	Special — nickel alloy
M06	Special — titanium
M07	Special — lined carbon steel
M08	Special — thermoplastic / lined
MOR	On request

Grade and governing material standard are confirmed with the quotation. Covers the chamber and process connections only. MOR = on request.

6 FLT — Float Construction

SELECTION TABLE — CONFIRMED WITH QUOTATION

Code	Selection
F01	Customary — SS 316 / 316L
F02	Customary — SS 316Ti
F03	Special — duplex stainless steel
F04	Special — nickel alloy
F05	Special — titanium
F06	Special — thermoplastic / coated
FOR	On request

Float construction is matched to liquid density, design pressure and temperature and chamber configuration. FOR = on request.

SIZE APPLICABILITY IS ARRANGEMENT- AND CONNECTION-DEPENDENT

Float passage on TM, BM, IF. The chamber or guide is inserted through one vessel connection, so that connection must pass the float; small sizes are not feasible and the minimum size per arrangement is confirmed by NICO.

Small side connections on SS, ST, SB. They restrict liquid exchange between vessel and chamber and slow the indicated response, especially with viscous or deposit-forming liquids.

Threaded and sanitary sizes. Threaded connections are normally offered only in the smaller sizes; sanitary sizes follow the applicable sanitary standard, confirmed with the quotation.

Size versus rating. Not every size exists in every rating; a combination is valid only where the governing flange standard lists it.

Ordering Code — Accessories and Dimensions

FIELDS 7 TO 13 · ACCESSORIES, CLOSURES AND ORDER DIMENSIONS

COMPLETE MODEL ARCHITECTURE

MLG28 — ARR — CON — SIZE — RAT — MAT — FLT — TX — SWT — SWQ — VNT — DRN — CC — VL

— TX — SWT — SWQ — VNT — DRN — CC — VL

7 TX — Level Transmitter

Code	Selection
N0	Without transmitter
R4	TX-R4 resistive transmitter, two-wire 4–20 mA
SP	Special

8 SWT — Level Switch Type

Code	Selection
N0	Without level switch
S1	Cable-lead switch construction
S2	Aluminium junction-box switch construction
S3	Heavy-enclosure switch construction — certification to be confirmed
S4	Angled junction-box switch construction — certification to be confirmed
SP	Special engineered switch

Final electrical rating, connected-load compatibility and hazardous-area certification are confirmed in the approved quotation and order datasheet. Constructions and published data: Page 5.

10 VNT — Upper Vent / Closure

Code	Selection	Intended use
VP	Vent plug	Routine venting not required
VN	Vent needle valve	Controlled release of gas or pressure
VB	Vent ball valve	Rapid venting, non-hazardous service
BF	Blind-flange closure	High-integrity or special service
SP	Special vent arrangement	Engineering review

A plug, globe, metal-seated or cryogenic valve is handled under **SP**. Where an external vent or drain is intentionally omitted the chamber end is closed by an approved welded, threaded or flanged closure; “no valve” is never an open process connection. Typical NICO auxiliary connection: ½ in NPT, not universal. Valve preference and order data: Page 10.

9 SWQ — Number of Switches

Code	Selection
00	Without switch
01, 02	Required quantity, two digits
...	
XX	Special quantity / engineering review

A separate field, never combined with switch type. No maximum is published: quantity and minimum spacing depend on the verified switch body, the measuring range and the available mounting length. Set points: order datasheet.

13 VL — Visible Length

Entry	Definition
nnnn	Usable Visible Length in mm — all arrangements

The usable readable length of the magnetic indicator, from the lower readable limit to the upper readable limit. See Page 3.

12 CC — Centre-to-Centre Distance

FOR SS TYPE ONLY	
Entry	Definition
nnnn	Centre-to-Centre Distance in mm — SS type only
NA	Required for ST, SB, TB, TM, BM and IF
SP	According to approved project drawing

NA means the C-C field is not used, not that the arrangement has no vertical dimension. MH, FF and IL are stated in the order datasheet; the exact FROM and TO datum per arrangement is tabulated on Page 6.

VL applies to every arrangement; C-C to SS only.

11 DRN — Lower Drain

Code	Selection	Intended use
DP	Drain plug	Routine draining not required
DB	Full-port drain ball valve	Flushing, viscous liquid, deposits
DN	Drain needle valve	Controlled draining or sampling
BF	Blind-flange closure	High-integrity or special service
SP	Special drain arrangement	Engineering review

SYNTAX EXAMPLE ONLY — NOT A RELEASED ORDERING CODE

MLG28-SS-FL-[SIZE]-[RAT]-[MAT]-[FLT]-N0-N0-00-VP-DP-1200-1000	SS Side-Side; C-C 1200 mm; Visible Length 1000 mm
MLG28-ST-FL-[SIZE]-[RAT]-[MAT]-[FLT]-R4-S2-02-SP-DP-NA-1400	ST Side-Top with TX-R4 transmitter and two S2 switches; C-C is NA; Visible Length 1400 mm; set points in the order datasheet
MLG28-SB-FL-[SIZE]-[RAT]-[MAT]-[FLT]-N0-N0-00-VP-SP-NA-1400	SB Side-Bottom; C-C is NA; Visible Length 1400 mm; Mounting Height stated separately

Square brackets mark fields completed from the selection tables on Pages 8 and 9 and confirmed with the quotation.

Installation and Commissioning

GENERAL GUIDANCE

The following is general guidance only. Site procedures, the applicable permit-to-work system and qualified personnel govern the installation, commissioning and operation of the equipment at all times.

Before installation

- Verify the tag and confirm that the gauge matches the ordered configuration
- Inspect the gauge for transport damage before it is removed from its packing
- Confirm the vessel nozzle positions, orientation and alignment against the arrangement the gauge was supplied for
- Confirm that the correct sealing elements for the application are available and approved for use

Mechanical installation

- Support and align the gauge so that no piping or nozzle stress is imposed on the measuring chamber or its connections
- Confirm that the gauge is installed in its correct orientation, with the indicator facing the intended reading position
- Verify that the installation is isolated and depressurised before any work is carried out on the process boundary
- Leave the indicator and any accessories accessible for reading and service

Commissioning

- Fill and pressurise the gauge gradually, allowing the float to settle as the liquid level rises
- Confirm that the indicator moves freely and follows the level over the measuring range
- Where a transmitter is fitted, verify the signal loop and confirm that the output responds to a change in level
- Where switches are fitted, function-test each point at its required position
- Inspect all connections for leakage while the gauge is brought into service

Installation, sealing arrangements, tightening requirements and test conditions are confirmed for the supplied configuration. Contact NICO engineering where the required arrangement is not established for the installation.

Vent and drain selection

Service	Preferred upper vent	Preferred lower drain
Clean, non-hazardous liquid	Needle valve	Full-port ball valve
Viscous or deposit-forming liquid	Needle valve	Full-port ball or special plug valve
Controlled sampling	Needle valve	Needle valve
Toxic, flammable or restricted fluid	Needle valve to closed vent	Valve to closed drain
Elevated-temperature service	Forged needle/globe, engineering-selected	Forged ball/globe, engineering-selected
Cryogenic service	Cryogenic valve, suitable bonnet/packing	Cryogenic valve, suitable bonnet/packing
No routine vent or drain required	Plug or blind closure	Plug or blind closure

A needle valve is the preferred general vent-valve arrangement, permitting controlled release of trapped gas and pressure; a ball valve gives rapid opening and is selected only where the process and discharge arrangement permit it. A full-port ball valve is preferred for draining where flushing or removal of deposits is required; a needle valve suits controlled draining or sampling of clean liquids but may block where solids or deposits are present.

Valve body, seat, stem, packing, gasket and closure materials must be compatible with the process fluid, design pressure and design temperature. A PTFE-seated ball valve is not universally suitable for elevated-temperature service. Outlets for toxic, flammable, corrosive or environmentally restricted fluids shall be routed to an approved closed-vent, flare, recovery or closed-drain system and never discharge to atmosphere or an open floor drain.

Maintenance and Troubleshooting

GENERAL INSPECTION AND CORRECTIVE GUIDANCE

Routine inspection

- Confirm that the indicated level agrees with the process condition
- Inspect the indicator for free and continuous movement over the range
- Inspect the process connections and closures for leakage
- Check that fasteners remain secure
- Inspect the sealing elements and replace deteriorated seals
- Inspect small-bore drain passages for blockage where deposits are expected

Before any intervention

- Isolate and depressurise the gauge before any work on the process boundary
- Isolate the electrical supply before an accessory enclosure is opened
- Observe the site permit-to-work system and use qualified personnel
- Isolate and depressurise the chamber before operating or removing any plug, valve or closure
- Open vent and drain valves gradually and confirm the discharge path is safe before opening; do not discharge hazardous fluid to personnel areas or the environment
- Check valve orientation, accessibility and leakage after commissioning
- Confirm the float orientation whenever the float is removed and refitted
- Replace valve seats, packing or seals only with materials approved for the process

Troubleshooting

Symptom	Possible cause	Corrective action
Indicator does not follow the level	Deposits or foreign matter restricting float movement inside the chamber	Isolate, depressurise and clean the measuring chamber; confirm free float movement before returning to service
Indicator does not follow the level	Magnetic or magnetically conductive material close to the measuring chamber	Identify and remove the magnetic influence, or relocate the affected item away from the chamber
Sluggish or irregular indication	Process conditions affecting float movement, such as viscosity, solids or deposits	Review the service conditions and confirm the suitability of the selected float arrangement with NICO engineering
Sluggish or irregular indication	The rate of level change exceeds the response capability of the selected float and indicator arrangement	Review the application dynamics and confirm the allowable response rate with NICO engineering
Suspected float obstruction	Accumulation on the float or on the internal chamber wall	Isolate and depressurise, then inspect and clean; confirm the float orientation when it is refitted
Leakage at a process connection	Deterioration of the sealing element, or loss of joint integrity	Isolate and depressurise, then replace the sealing element with one approved for the application and re-test the joint
Transmitter output unavailable	Loss of supply, or a fault in the connecting cable or its terminations	Verify the supply and the loop connections; isolate the supply before the transmitter enclosure is opened
Switch does not operate at the required level	Switch position not set to the required point, or the mounting arrangement is not correct for the configuration	Confirm the required point against the measuring range and have the mounting arrangement confirmed by NICO engineering

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INDUSTRIAL INSTRUMENTATION

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