

LD-SG Series Sanitary Diaphragm Pressure Gauge



LOMAS
TECHNOLOGY - GERMANY

Specification

Component	Material / Design
Case	AISI 304 stainless steel, polished (optional electropolished)
Ring	AISI 304 stainless steel, crimped
Window	Polycarbonate (optional laminated safety glass)
Dial Plate	Aluminum, white background with black/red markings
Pointer	Aluminum, black (micro-adjustable for 100 mm)
Movement	AISI 304 stainless steel (food-grade design, optional chrome-plated brass)
Bourdon Tube & Connection	AISI 316 stainless steel
Diaphragm Seal	AISI 316 stainless steel
Membrane	AISI 316L stainless steel, laser welded on sanitary seal
Sealing/O-rings	Food-grade elastomers (EPDM, FKM, or others on request)
Process Connection	Clamp 1 1/2" or 2" standard (DIN 32676 / ISO 2852 / 3-A); other sizes on request
Filling Medium	Food-grade glycerin or food oil (dry version optional)
Protection	Filling hole sealed with ball, O-ring, and M5 set screw

Parameters

Parameter	Value
Nominal Size	63 mm (2.5"), 100 mm (4")
Design Standard	EN 837-1 (Bourdon tube), 3-A Sanitary Standard
Accuracy Class	1.6 (standard for sanitary diaphragm gauges)
Scale Range	Vacuum : -1 ... 0 bar Compound: -1 ... +1.5 bar up to -1 ... +15 bar Positive Pressure: 0 ... 0.6 bar up to 0 ... 25 bar (up to 40 bar on request) Dual Scale: Optional bar/psi, mbar/inHg, or other ranges
Protection Class	IP65
Operating Temp. (Ambient)	-20 °C to +60 °C
Operating Temp. (Medium)	Suitable for SIP/CIP cycles (up to +150 °C with cooling element, +100 °C with filling)

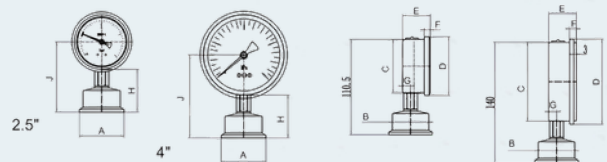
Applications

The Lomas LD-SG Series sanitary diaphragm pressure gauge is designed to meet the strict hygiene requirements of the food and beverage industry. Made from 316 stainless steel and compliant with 3-A sanitary standards, it is ideal for processes that require easy washdown, sterilization, and residue-free cleaning. The diaphragm seal prevents the process medium from contacting the internal parts of the gauge, ensuring safe, reliable, and hygienic operation.

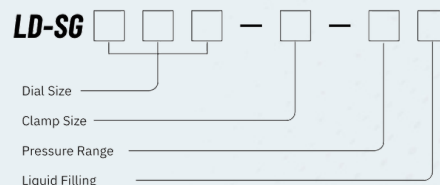
Special Features

- Hygienic all-stainless steel construction for sanitary applications.
- Integrated diaphragm seal, laser-welded for reliability.
- Easy-to-clean clamp connection for quick opening, cleaning, and seal replacement.
- Compatible with SIP (Sterilization in Place) and CIP (Cleaning in Place) procedures.
- Complies with 3-A sanitary standards.
- Polished case finish for enhanced hygiene and corrosion resistance.
- Available with food-grade glycerin or food oil filling for improved vibration damping.

Dimension Drawing



Dial size	Clamp Size	A	B	C	D	E	F	G	H	J
2.5"	1.5"/DN40	ø50.5	42	ø62	ø68	32	7	9	48.5	80
4"	1.5"/DN40	ø50.5	42	ø91.5	ø98.8	32	8	9	48	94
2.5"	2"/DN50	ø64	42	ø62	ø68	32	7	9	48.5	80
4"	2"/DN50	ø64	42	ø91.5	ø98.8	32	8	9	48	94



Code	Dial Size
63	2.5" (63 mm)
100	4" (100 mm)

Code	Clamp Size
C15	Clamp 1 1/2" / DN40 (Ø50.5 mm flange)
C20	Clamp 2" / DN50 (Ø64 mm flange)
DIN	Other clamp sizes per DIN standard (on request)
ISO	Other clamp sizes per ISO standard (on request)

Code	Pressure Range
-	Specify Range

Code	Liquid Filling
G	Glycerin-filled
F	Food oil-filled