

# Homogenizer Pressure Gauges

## DS 100

01.OM

- AISI 316L st.st. wetted parts
- Ra -0,8µm - 32µin (150 Grit) finishing
- Damping system
- C.I.P. and S.I.P execution
- Customer drawing process connections



Authorization NO. 597



These instruments are designed for homogenizer machines and are built according to standard n. 74-01 of 3-A organization (Sanitary Standards Symbol Administrative Council). The absence of interstices and the mirror finishing of the components assure the best hygiene. The process connection is a special diaphragm seal integrally built with the pressure gauge. To reduce the effects of severe operating conditions like vibrations and pulsations, the instruments can be liquid filled.

### Functional and constructive characteristics.

#### 01.OM.2 - Fillable

**Accuracy:** class 1,6 as per EN 837-1.

**Ambient temperature:** -25...+65 °C.

**Process temperature:** -20...+120 °C.

Max 150 °C for 1 hour during cleaning stage (C.I.P.)<sup>1</sup> and sterilization (S.I.P.)<sup>2</sup>.

**Working pressure** (referred to the full scale value): max 75%.

**Over pressure limit:** not available.

**Seal fill:** oil for food service.

**Protection:** IP 67.

**Process connection:** AISI 316L st.st. with Ra -0,8µm- 32µin (150 Grit) finishing.

**Diaphragm:** AISI 316L st.st. with Ra -0,8µm- 32µin (150 Grit) finishing.

**Welding:** AISI 316L TIG st.st. with Ra -0,8µm- 32µin (150 Grit) finishing.

**Flange and screw nut:** AISI 316.

**Case:** electro polished AISI 304 st.st.

**Ring:** AISI 304 st.st. polished, bayonet lock.

**Elastic element:** AISI 316L st.st. spiral form.

**Window:** Plexiglas.

**Movement:** stainless steel.

**Dial:** aluminium, white with black markings.

**Pointer:** aluminium black anodized.

**Gasket, blow out vent and filling plug:** EPDM

#### 01.OM.3 - Liquid filled

**Case filling liquid:** glycerine 99,5% (USP, E.P. and F.U.) for food service.

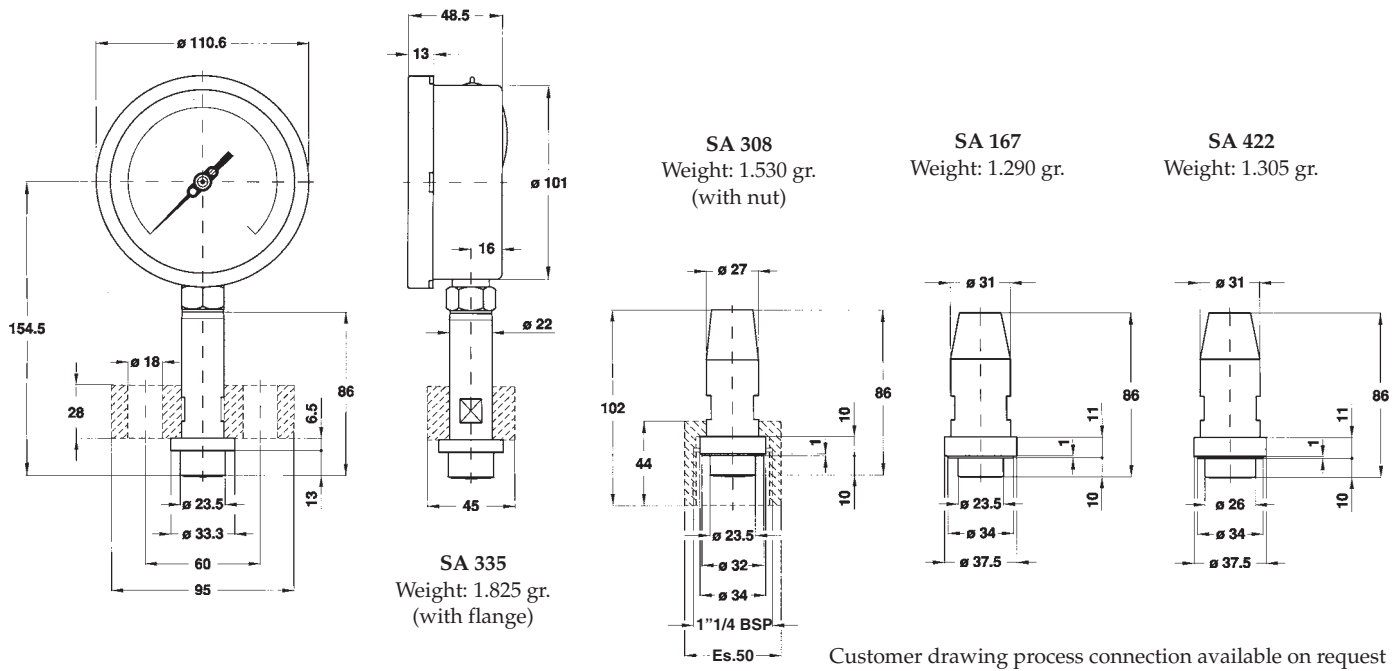
**Ambient temperature:** +15...+65 °C.

**Other features:** as type 01.OM.2.

1) C.I.P. = Cleaned In Place

2) S.I.P. = Steamed In Place

## TYPE, DIMENSIONS AND WEIGHTS (mm)



## RANGES

TAB. 1

RANGE	bar	bar ext.	bar ext.
		psi int.	MPa int.
0...160	◆	◆	◆
0...250	◆	◆	◆
0...400	◆	◆	◆
0...600	◆	◆	◆
0...1000	◆	◆	◆
0...1600 (1)	◆	◆	◆

(1) available only with some type of process connections

TAB. 2

RANGES	psi	psi int.	psi ext.	psi ext.
		kPa ext.	bar int.	Kg/cm <sup>2</sup> int.
0...2000	◆	◆	◆	◆
0...3000	◆	◆	◆	◆
0...4000	◆	◆	◆	◆
0...5000	◆	◆	◆	◆
0...6000	◆	◆	◆	◆
0...10000	◆	◆	◆	◆
0...15000	◆	◆	◆	◆

## HOW TO ORDER

	CODE & DESCRIPTION
<b>01</b>	01- Bourdon tube pressure gauges
<b>OM</b>	OM - homogenizer pressure gauges
<b>2</b>	2 - dry version 3 - filled version
<b>A</b>	A - lower connection
<b>E</b>	E - DS100
<b>3</b>	3 - up to 1600 bar
<b>0/160 bar</b>	see ranges tables
<b>308</b>	335 - dwg. as per SA 335 with flange 308 - dwg. as per SA 308 with nut 167 - dwg. as per SA 167 422 - dwg. as per SA 422
<b>L22</b>	see option table

## OPTIONS

DESCRIPTION	CODE	01.OM.2	01.OM.3
Calibration certificate	C01	◆	◆
Connection as per SA 308, without nut	S15	◆	◆
Connection as per SA 335, without flange	SF1	◆	◆
Maximum pointer IP 65 adjustable (1)	L22	◆	◆
Maximum pointer not adjustable	L12	◆	◆
Safety glass window	T32	◆	◆
Polycarbonate window	TPC	◆	◆

(1) only for Plexiglas window.



**DRUCK & TEMPERATUR Leitenberger GmbH**  
Postfach 64 • D-72136 Kirchentellinsfurt • Germany  
Tel.: 0 71 21 - 9 09 20 - 0 • Fax: 0 71 21 - 9 09 20 - 99  
E-Mail: dt-info@leitenberger.de  
INTERNET-Site: http://www.leitenberger.de