

## APPLICATIONS

- Sanitary, food & beverages
- Optional electric contacts
- Optional transmitter output
- Filled version

## FEATURES

- Dairy, Ice cream industries
- Pharmaceutical industries
- Sterilization applications



## HOMOGENIZER PRESSURE GAUGE, ANI18-1

## DESCRIPTION

### General

**Design :** EN 837-3

**Accuracy :**  $\pm 1.6\%$  of full scale

**Ambient temperature:** -40...+65°C [without dampening liquid]  
-20...+65°C [with dampening liquid]

**Service temperature :** 10...150°C max.

**Pressure limits :** Steady pressure up to FS value  
Fluctuating pressure up to 90% of FS value  
Short time 1.3 x FS value for range up to 100 bar  
Short time 1.15 x FS value for range above 100 bar

**Weld joints :** TIG argon arc welding

### Material of construction

**Sensing element :** Diaphragm

**Case & Ring material :** AISI 304 SS (Bayonet type)

**Diaphragm, Bourdon tube & Shank :** AISI 316L SS

**Movement mechanism :** AISI 304 SS

**Dial :** Aluminum, black graduation on white background

**Pointer :** Fixed, aluminum, black powder coated

**Gaskets & filling plug :** Neoprene

**Window :** Plexi glass

### Standard version

**Dial size :** DN100

**Range :** -1...600 bar

**Mounting pattern :** Direct, Bottom connection

**Process connection :** Without mounting flange

**Seal filling fluid :** Glycerine [10°C to 150°C]

**Ingress protection :** IP 65

**Execution :** Dry / Dry but fillable

### Filled versions

#### Glycerin

**Window :** Plexi glass

**Dampening liquid :** Glycerin 99.7%

### Temperature effect

When temperature of the measuring system deviates from reference temperature (+20°C) :  
max error  $\pm 0.4\%$  / 10K of true scale value.

# FULLY WELDED DIAPHRAGM SEAL WITH PRESSURE GAUGE ANI18-2

## DIMENSIONAL DRAWING

## ORDERING CODE

<b>MODEL</b>						<b>ANI10</b>
ANI18-2 Fully Welded Diaphragm Seal with Pressure Gauge						
<b>DIAL SIZE</b>						
<b>D4</b>	4" / 100 mm					
<b>MOUNTING CONNECTION</b>						
M1						
<b>CASE FILLING</b>						
<b>F1</b>	Dry		<b>F2</b>	Dry but fillable		
			<b>F3</b>	Glycerin filled		
<b>WETTED PARTS</b>						
<b>S02</b>	AISI 316 SS		<b>S03</b>	AISI 316L SS		
<b>INGRESS PROTECTION</b>						
<b>I1</b>	IP 65		<b>I6</b>	IP 68		
<b>RANGE</b>						
0-250 bar Please mention range required with the measurement unit [TGI offer in all types of National & International measurement units, e.g. kg/cm <sup>2</sup> , psi, kPa, etc. with single or dual scales]						
<b>OTHER OPTIONS</b>						
<b>E16</b>	5 - point calibration certificate		<b>E31</b>	Custom designed dial		
<b>E17</b>	Material test certificate 3.1		<b>E21</b>	Material test certificate 2.2		
<b>E27</b>	SS tag plate, AISI 304 SS		<b>E47</b>	Crimped case & ring		
			<b>E32</b>	Dial tag marking		
			<b>E28</b>	SS tag plate, AISI 316 SS		
<b>0-250 bar</b>						
<b>E16/E27</b>						

Ordering Example : ANI18-1.D2.M1.P42.F2.S02.I1/0-250 bar/E16/E27

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West Bengal, India.  
Website : www.aninstruments.com

**Plant II**  
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GIDC - 3rd Phase,  
Vapi - 396 195. Gujarat, India.  
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