



## **FEATURES**

- · Laser welded diaphragm
- · Optional electric contacts
- · Optional transmitter output
- Filled version

#### Diaphragm Seal



### **APPLICATION**

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

#### **STANDARD PARAMETERS**

Weld joints

Accuracy : CL 1.6 Ambient temperature : -40...+65°C (without dampening liquid) -20...+65°C (with dampening liquid) : 10...150°C max. Service temperature Pressure limits Steady pressure up to FS value

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 (Shank welded directly to case) Movement mechanism Dampened movement, AISI 304 SS Dial : Aluminum, black graduation on white background Pointer Micro-zero adjustable, aluminum, black powder coated Gaskets & filling plug Silicon Rubber gasket & Neoprene filling plug Window Plexi glass

#### STANDARD SPECIFICATIONS

: DN100 Dial size Range 0...160 bar [B21], 0...250 bar [B24], 0...400 bar [B27], 0...600 bar [B29] Direct, Bottom connection Mounting pattern Process connection With mounting flange Seal filling fluid Food grade oil Ingress protection IP 65 Execution Dampening liquid filled, glycerine

#### STANDARD SPECIFICATIONS: DAMPENING LIQUID FILLED

Window : Acrylic glass dome Switch type : Normally open; Make contact (1NO) Execution Dampening liquid filled, dielectric oil Electrical termination 4 Pin PG13.5 connector

# REFERENCE

#### **TEMPERATURE EFFECT**

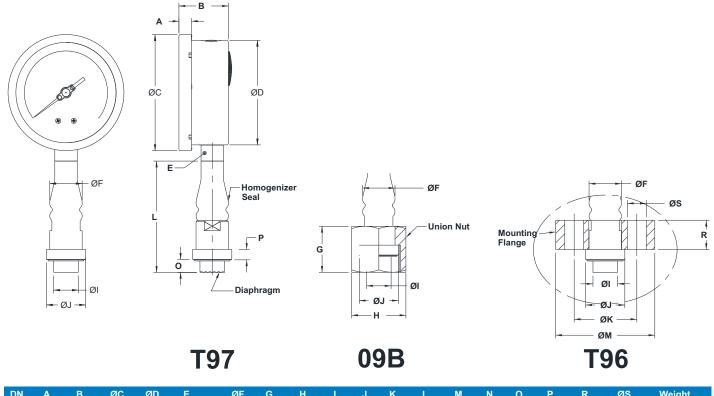
When temperature of the measuring system deviates from reference temperature (+20°C) max error  $\pm 0.4\%$  / 10K of true scale value.

# HOMOGENIZER PRESSURE GAUGES



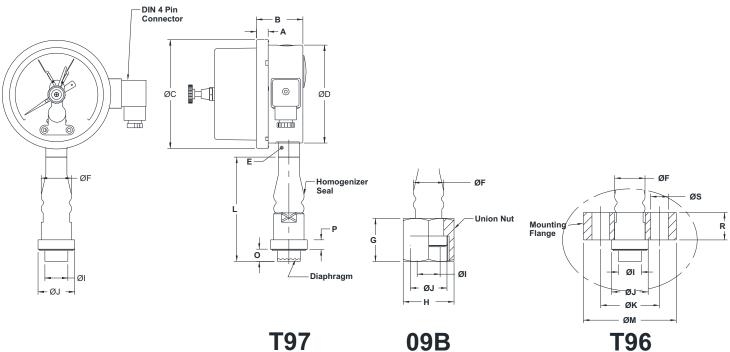
#### **DIMENSIONAL DRAWING**

#### Standard version



DN	Α	В	ØC	ØD	E	ØF	G	Н	1	J	К	L	M	N	0	Р	R	øs	Weight (Grams)
100	12	48	111	100	SQ.22	31	44	A/F50	23.5	37.5	60	106.5	95	45	11	11	28	18	1295

#### **Electric contact version**



All dimensions are in mm.

DN	Α	В	ØC	ØD	Е	ØF	G	Н	1	J	K	L	M	N	0	Р	R	ØS	Weight (Grams)
100	12	10	111	100	SO 22	31	11	A/E50	23.5	37.5	60	106.5	95	15	11	11	28	18	1205

### HOMOGENIZER PRESSURE GAUGES



#### **ORDERING CODES** 1. DIAL SIZE 8. ELECTRIC CONTACT 04 CS<sub>1</sub> 04 100 mm / 4" CS<sub>1</sub> Break contact (1NC) 25 25 mm / 2.5" CS<sub>2</sub> Make contact (1NO) CS3 2 x Break contact (2NC) CS4 2 x Make contact (2NO) 2. RANGE CS<sub>5</sub> 1 Break + 1 Make (1NC+1NO) XXX **XXX** Refer "Range Table" CS<sub>6</sub> 1 Make + 1 Break (1NO+1NC) CD1 Break contact (1NC) Make contact (1NO) CD2 3. MOUNTING PATTERN **B0** CD3 2 x Break contact (2NC) B<sub>0</sub> Direct, Bottom connection CD4 2 x Make contact (2NO) CD5 1 Break + 1 Make (1NC+1NO) CD6 1 Make + 1 Break (1NO+1NC) 4. PROCESS CONNECTION **T96** CD7 **SPDT T96** With mounting flange **DPDT** CD8 **T97** Without mounting flange CI1 Break contact (1NC) 09B 11/4" BSP (F) Union Nut CI2 Make contact (1NO) CI3 2 x Break contact (2NC) 5. INGRESS PROTECTION CI4 2 x Make contact (2NO) **ER** CI5 1 Break + 1 Make (1NC+1NO) IP 65 **ER** CI6 1 Make + 1 Break (1NO+1NC) **IP 66 ES** CI9 Booster relay for current up to 5A ET **IP 67** 7. OTHER OPTIONS 6. EXECUTION XX EB GW Maximum reading pointer EB Dry but fillable RA Rubber parts, Viton EG Dampening liquid filled, glycerine TA 5 - point calibration certificate EK Dampening liquid filled, dielectric oil<sup>2</sup>

TC

TM

XF

XG

XR

**XT** 

RR

Material test certificate 3.1

Material test certificate 2.2

SS tag plate, AISI 304 SS

SS tag plate, AISI 316 SS

Custom designed dial

Dial tag marking

Ordering Example: P702-04-XXX-B0-T96-ER-EB

ELECTRIC CONTACT DETAILS											
Switch type	Contacts	Action	Rating	Code							
Normally closed (1NC)	Single	Break contact	230VAC/1A; 48VDC/0.5A	CS1 / CD1							
Normally open (1NO)	Single	Make contact	230VAC/1A; 48VDC/0.5A	CS2 / CD2							
Normally closed (2NC)	Double	Break contact	230VAC/1A; 48VDC/0.5A	CS3 / CD3							
Normally open (2NO)	Double	Make contact	230VAC/1A; 48VDC/0.5A	CS4 / CD4							
Normally closed + Normally open (1NC+1NO)	Double	Break contact + Make contact	230VAC/1A; 48VDC/0.5A	CS5 / CD5							
Normally open + Normally closed (1NO+1NC)	Double	Make contact + Brake contact	230VAC/1A; 48VDC/0.5A	CS6 / CD6							
SPDT	Single		230VAC/1A; 48VDC/0.5A	CD7							
DPDT	Double		230VAC/1A; 48VDC/0.5A	CD8							
Normally closed (1NC)	Single	Break contact	220VAC/0.4A	CI1							
Normally open (1NO)	Single	Make contact	220VAC/0.4A	CI2							
Normally closed (2NC)	Double	Break contact	220VAC/0.4A	CI3							
Normally open (2NO)	Double	Make contact	220VAC/0.4A	CI4							
Normally closed + Normally open (1NC+1NO)	Double	Break contact + Make contact	220VAC/0.4A	CI5							
Normally open + Normally closed (1NO+1NC)	Double	Make contact + Brake contact	220VAC/0.4A	CI6							

#### **NOTES**

- 1. For other connections, please contact factory.
- 2. Rubber parts shall be in Viton.

7. SWITCH CATEGORY

**Economic contacts** 

Precision contacts

ATEX / CE approved contacts

RR

RS

RT

- 3. Codes starts with "CS / CD" denomination are magnetic contacts and "CI" are Inductive contacts.
- 4. Type 'CS' contacts are single insulated and economic contacts & 'CD' are double insulated and precision contacts.
- 5. Inductive contacts are ATEX approved.