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HOMOGENIZER PRESSURE GAUGES

P702



FEATURES

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

APPLICATION

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

REFERENCE

EN 837-1

STANDARD PARAMETERS

Accuracy	: CL 1.6
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
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 (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

Dial size	: DN100
Range	: 0...160 bar [B21], 0...250 bar [B24], 0...400 bar [B27], 0...600 bar [B29]
Mounting pattern	: Direct, Bottom connection
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

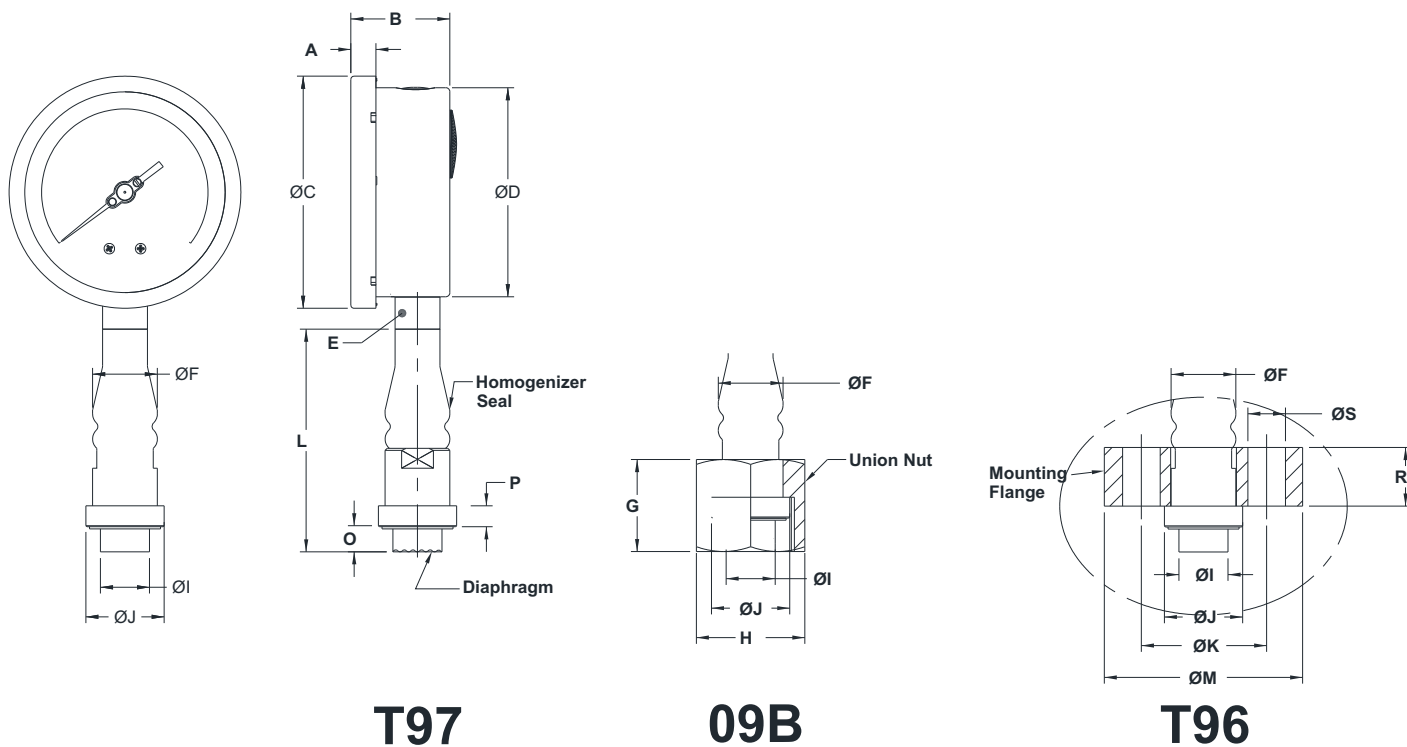
Window	: Acrylic glass dome
Switch type	: Normally open; Make contact (1NO)
Execution	: Dampening liquid filled, dielectric oil
Electrical termination	: 4 Pin PG13.5 connector

TEMPERATURE EFFECT

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

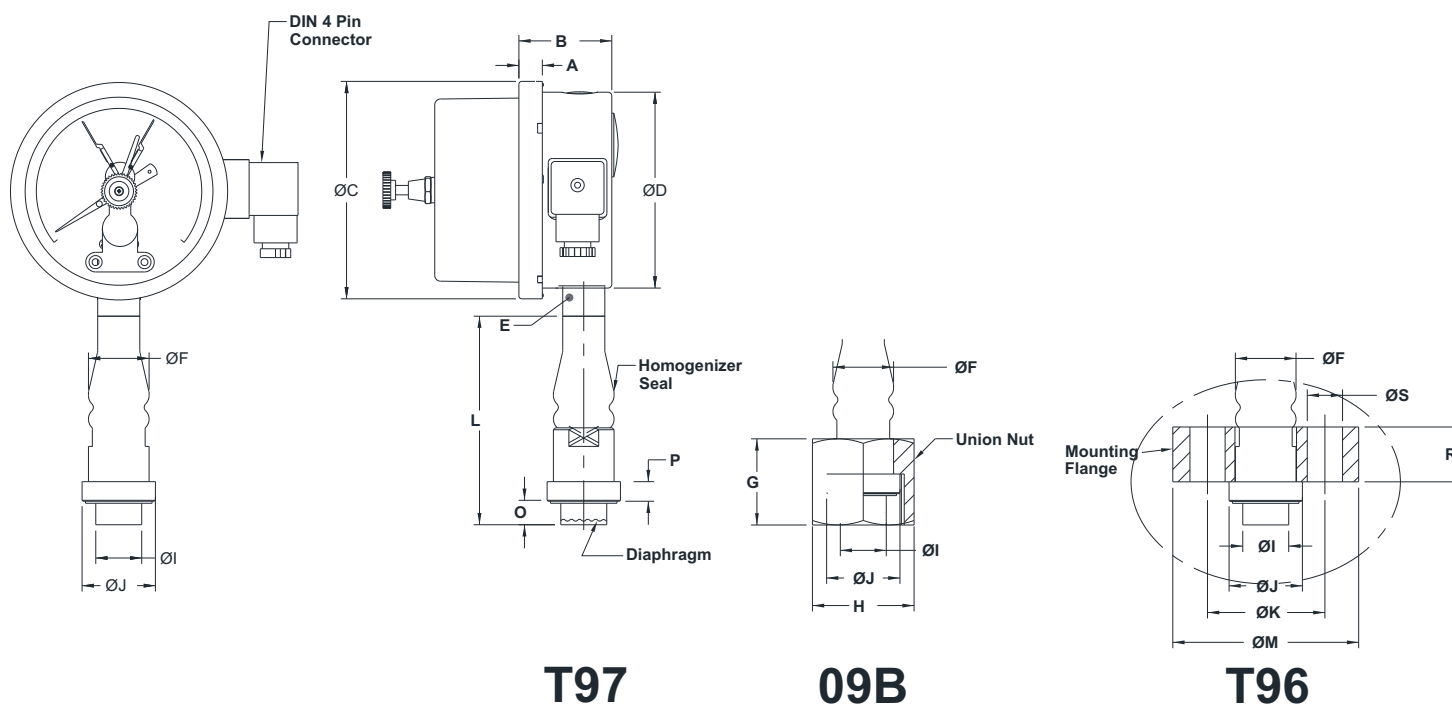
DIMENSIONAL DRAWING

Standard version



DN	A	B	ØC	ØD	E	ØF	G	H	I	J	K	L	M	N	O	P	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	A	B	ØC	ØD	E	ØF	G	H	I	J	K	L	M	N	O	P	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

ORDERING CODES

1. DIAL SIZE

04	100 mm / 4"
25	25 mm / 2.5"

2. RANGE

XXX	Refer "Range Table"
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3. MOUNTING PATTERN

B0	Direct, Bottom connection
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4. PROCESS CONNECTION

T96	With mounting flange
T97	Without mounting flange
09B	1 1/4" BSP (F) Union Nut

5. INGRESS PROTECTION

ER	IP 65
ES	IP 66
ET	IP 67

6. EXECUTION

EB	Dry but fillable
EG	Dampening liquid filled, glycerine
EK	Dampening liquid filled, dielectric oil ²

7. SWITCH CATEGORY

RR	Economic contacts
RS	Precision contacts
RT	ATEX / CE approved contacts

8. ELECTRIC CONTACT

CS1	Break contact (1NC)
CS2	Make contact (1NO)
CS3	2 x Break contact (2NC)
CS4	2 x Make contact (2NO)
CS5	1 Break + 1 Make (1NC+1NO)
CS6	1 Make + 1 Break (1NO+1NC)
CD1	Break contact (1NC)
CD2	Make contact (1NO)
CD3	2 x Break contact (2NC)
CD4	2 x Make contact (2NO)
CD5	1 Break + 1 Make (1NC+1NO)
CD6	1 Make + 1 Break (1NO+1NC)
CD7	SPDT
CD8	DPDT
CI1	Break contact (1NC)
CI2	Make contact (1NO)
CI3	2 x Break contact (2NC)
CI4	2 x Make contact (2NO)
CI5	1 Break + 1 Make (1NC+1NO)
CI6	1 Make + 1 Break (1NO+1NC)
CI9	Booster relay for current up to 5A

7. OTHER OPTIONS

GW	Maximum reading pointer
RA	Rubber parts, Viton
TA	5 - point calibration certificate
TC	Material test certificate 3.1
TM	Material test certificate 2.2
XF	SS tag plate, AISI 304 SS
XG	SS tag plate, AISI 316 SS
XR	Custom designed dial
XT	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

- For other connections, please contact factory.
- Rubber parts shall be in Viton.
- Codes starts with "CS / CD" denomination are magnetic contacts and "CI" are Inductive contacts.
- Type 'CS' contacts are single insulated and economic contacts & 'CD' are double insulated and precision contacts.
- Inductive contacts are ATEX approved.

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