FEATURES

- All SS measuring system
- Socket-case, direct welded
- Threaded / Flanged connection
- Over-pressure safety up to 10 times FS max. 40 bar

APPLICATION

- Liquid & gaseous media
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical
- Machine building
- General plant construction

REFERENCE

EN 837-3

II 2 GD c

Diaphragm
(Old model code : P400 & P400CE)

STANDARD PARAMETERS

Accuracy	:	CL 1.6
Ambient temperature	:	-20…+60°C / -40...+60°C with silicon oil dampening
Service temperature	:	100°C max.
Pressure limits	:	Over pressure up to 1.3 FS value
	:	Steady pressure up to FS value
	:	Fluctuating pressure up to 90% of FS value
Weld joint	:	TIG argon arc welding

MATERIAL OF CONSTRUCTION

Sensing element	:	Diaphragm
Case & Ring material	:	AISI 304 SS (Bayonet type)
Diaphragm	:	≤ 16 bar - AISI 316L SS, > 16 bar Inconel 718
Chamber	:	AISI 316 SS (lower and upper diaphragm housing)
Shank	:	AISI 316L SS
Movement mechanism	:	AISI 304 SS
Chamber sealing gaskets	:	FPM / FKM
Dial	:	Aluminum, black graduation on white background
Pointer	:	Micro-adjustable, aluminum, black powder coated
Gaskets, Blow off disc & filling plug	:	NBR
Window	:	Shatterproof safety glass

STANDARD SPECIFICATIONS

Dial size	:	DN100 / DN160
Range	:	0…10 to 0...16 mbar (flange Ø 174 mm)
	:	0... 25 to 0...250 mbar (flange Ø 150 mm)
	:	0...0.4 to 0...40 bar (flange Ø 100 mm)
Mounting pattern	:	Direct, Bottom connection
Process connection	:	½" NPT (M) / ½" BSP (M)
Ingress protection	:	IP 65 - EN 60529 / IEC 529
Execution	:	Dry

STANDARD SPECIFICATIONS : DAMPENING LIQUID FILLED, GLYCERIN

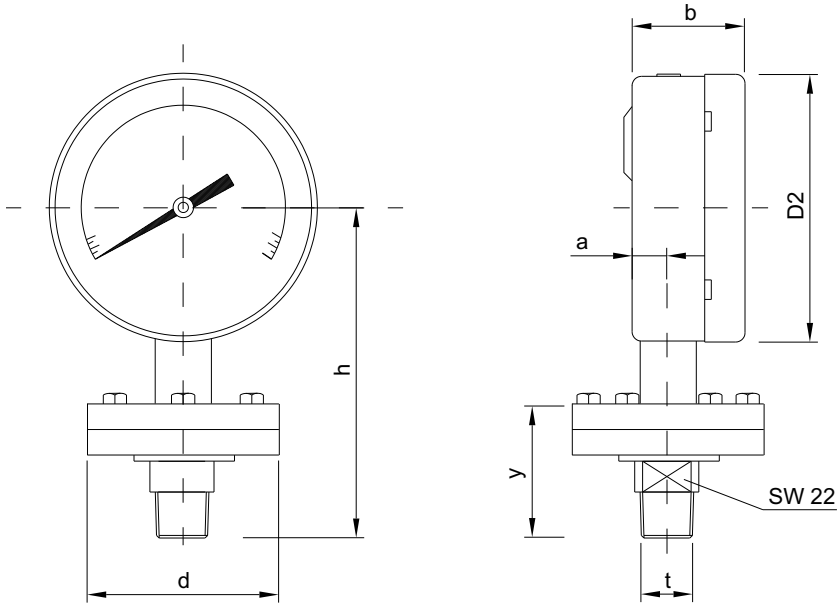
Window	:	Shatterproof safety glass
Dampening liquid	:	Glycerin [Service temperature up to 65°C]

TEMPERATURE EFFECT

When temperature of the measuring system deviates from reference temperature (+20°C) max error ±0.8% / 10K of true scale value.

DIMENSIONAL DRAWING

Type B0



All dimensions are in mm.

Range	DN	d	a	b	D2	t	h±2	y	Weight (Kg)
mbar	100	174	17	52	100	½" BSP or ½" NPT	130	50	2.6
0/10 to 0/16	160		17	52	150	½" BSP or ½" NPT	150	50	3.2
mbar	100	150	17	52	100	½" BSP or ½" NPT	130	55	2.6
0/25 to 0/250	160		17	52	150	½" BSP or ½" NPT	155	55	3.2
bar	100	98	17	52	100	½" BSP or ½" NPT	130	55	1.8
0/0.4 to 0/40	160		17	52	150	½" BSP or ½" NPT	155	55	2.2

ELECTRIC CONTACT DETAILS				
Switch type	**Contacts**	**Action**	**Rating**	**Code**
Normally closed (1NC)	Single	Break contact	230VAC/1A; 48VDC/0.5A	CD1
Normally open (1NO)	Single	Make contact	230VAC/1A; 48VDC/0.5A	CD2
Normally closed (2NC)	Double	Break contact	230VAC/1A; 48VDC/0.5A	CD3
Normally open (2NO)	Double	Make contact	230VAC/1A; 48VDC/0.5A	CD4
Normally closed + Normally open (1NC+1NO)	Double	Break contact + Make contact	230VAC/1A; 48VDC/0.5A	CD5
Normally open + Normally closed (1NO+1NC)	Double	Make contact + Brake contact	230VAC/1A; 48VDC/0.5A	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. Codes starts with "CD" denomination are magnetic contacts and "CI" are Inductive contacts.
2. Inductive contacts are ATEX approved.

ORDERING CODES

1. DIAL SIZE — 04

04	100 mm / 4"
06	160 mm / 6"

2. RANGE — XXX

XXX	Refer "Range Table"

3. MOUNTING PATTERN — B0

B0	Direct, Bottom connection

4. PROCESS CONNECTION — 14N

12B	¼" BSP (M)	**12N**	¼" NPT (M)
13B	3/8" BSP (M)	**14B**	½" BSP (M)
14M	M20 X 1.5 mm (M)	**14N**	½" NPT (M)
A25	1½" RF 150# as per ANSI B 16.5		
A26	1½" RF 300# as per ANSI B 16.5		
A31	2" RF 150# as per ANSI B 16.5		
A32	2" RF 300# as per ANSI B 16.5		
D42	DN40 PN10 as per EN 1092 - 1		
D44	DN40 PN25 as per EN 1092 - 1		
D52	DN50 PN10 as per EN 1092 - 1		
D54	DN50 PN25 as per EN 1092 - 1		

* Other flange sizes available on request.

5. INGRESS PROTECTION — ER

ER	IP 65

6. EXECUTION — EA

EA	Dry
EG	Dampening liquid filled, glycerine
EH	Dampening liquid filled, silicon oil[2]

7. SWITCH CATEGORY — XX

RS	Precision contacts (magnetic)
RT	ATEX / CE approved contacts (inductive)

8. ELECTRIC CONTACT — XXX

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 — XX

BA	Case & Ring in AISI 316 SS (B0)
EY	Vacuum safe up to -1 bar
OQ	Over-pressure up to 5 times of FS[4]
OR	Over-pressure up to 10 times of FS[4]
PC	PTFE lining / coating on wetted parts
PK	Hastelloy wetted parts
PM	Monel wetted parts
TA	5 - point calibration certificate
TC	Material test certificate 3.1
TM	Material test certificate 2.2
TO	Certification for Oxygen service
TX	ATEX certificate
XB	Accuracy CL 1.0
XF	SS tag plate
XH	Flushing plug on lower body
XR	Custom designed dial
XT	Dial tag marking

Ordering Example : P604-04-XXX-B0-14N-ER-EA-XX-XXX-XX

NOTES

1. For other connections, please contact factory.
2. Rubber parts shall be in Viton.
3. For electrical contact details, refer model P501.
4. Maximum pressure shall be 40 bar.

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