

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 mediums
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical
- Food & Beverages

Diaphragm



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	: 1/2" NPT (M) or 1/2" BSP (M)
Ingress protection	: - 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.

REFERENCE

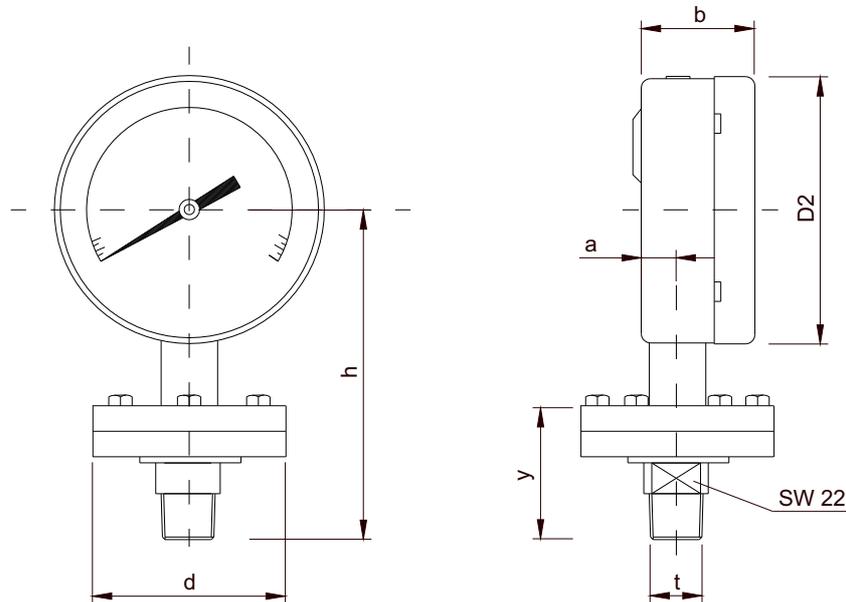


EN 837-3

II 2 GD c

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

- Codes starts with "CD" denomination are magnetic contacts and "CI" are Inductive contacts.
- Inductive contacts are ATEX approved.

ORDERING CODES
1. DIAL SIZE

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

04
2. RANGE

XXX Refer "Range Table"

XXX
3. MOUNTING PATTERN

B0 Direct, Bottom connection

B0
4. PROCESS CONNECTION

12B 1/4" BSP (M) **12N** 1/4" NPT (M)
13B 3/8" BSP (M) **14B** 1/2" BSP (M)
14M M20 X 1.5 mm (M) **14N** 1/2" NPT (M)
A31 Flange as per ANSI B 16.5
A43 Flange as per EN standard

14N
5. INGRESS PROTECTION

ER IP 65

ER
6. EXECUTION

EA Dry
EB Dry but fillable, glycerine
EC Dry but fillable, silicon oil²
EG Dampening liquid filled, glycerine
EH Dampening liquid filled, silicon oil²

EA
7. SWITCH CATEGORY

RS Precision contacts
RT ATEX / CE approved contacts

XX
8. ELECTRIC CONTACT

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

XXX
7. OTHER OPTIONS

BA Case & Ring in AISI 316 SS (B0)
EY Vacuum safe up to -1 bar
GL AISI 316 SS movement
OQ Over-pressure up to 5 times of FS⁴
OR Over-pressure up to 10 times of FS⁴
PC PTFE lining / coating on wetted parts
PK Hastelloy lining / coating on wetted parts
PM Monel lining / coating on wetted parts
C1 Accuracy class 1%
TC Material test certificate 3.1
TM Material test certificate 2.2
TO Certification for Oxygen service
T5 Max. Medium temperature +200°C (NOT for ATEX version)
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

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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.