

Double Diaphragm



FEATURES

- Single side static sustainable
- Static pressure 200 bar max.
- Dry / liquid filled

APPLICATIONS

- Liquid & gaseous media
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical
- Level measurement in closed tank
- Filter monitoring

STANDARD PARAMETERS

Accuracy	CL 1.6	
Ambient temperature	-40...+60°C (without dampening liquid)	-20...+60°C (with dampening liquid)
Service temperature	150°C max.	
Static pressure	16...60 mbar : 25 bar	100 mbar...25 bar : 100 bar
Over-pressure safety	400 bar for ranges 0...0.4 bar up to 0...40 bar	
Pressure limits	Steady pressure up to FS value	Fluctuating pressure up to 96% of FS value
Standard	EN837-3	

*At 20°C and Zero static pressure.

MATERIAL OF CONSTRUCTION

Sensing element	Double diaphragm
Case & Ring material	AISI 304 SS (Bayonet type)
Diaphragm	AISI 316 SS
Chamber	AISI 316 SS
Movement mechanism	Stainless Steel
Transmission chamber dampening liquid	Silicon oil
Chamber sealing gaskets	NBR
Dial	Aluminum, black graduation on white background
Pointer	Micro-zero adjustable, Aluminum, black powder coated
Gaskets & filling plug	NBR
Window	Safety Glass
Dampening liquid	Glycerin

STANDARD SPECIFICATIONS

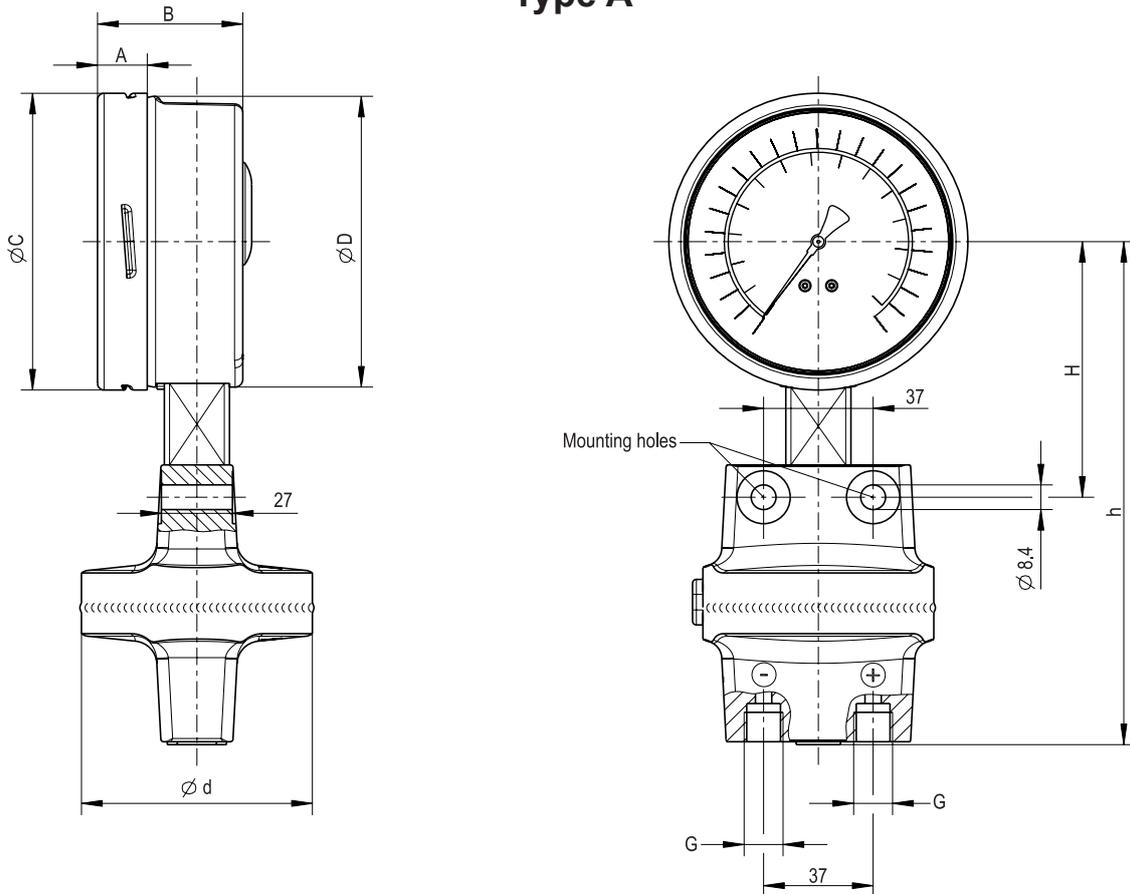
Dial size	DN100 / DN160
Range	0...60 mbar...40 bar
Mounting pattern	Direct, Bottom connection
Process connection	1/4" NPT (F) x 2 Nos (37mm center to center)
Ingress protection	IP 65
Execution	Dry / Dry but fillable

TEMPERATURE EFFECT

When temperature of the measuring system deviates from reference temperature (+20°C) max error ±0.4% / 10K of true scale value. (According to EN837)

DIMENSIONAL DRAWING

Type A



DN	G	A	B	C	D	d	H	h	Weight
100	G1/4	16.9	49.7	101	98.5	75	83	178.5	~1796 g
160	G1/4	17.5	59	161	159	78	117	200	-

ORDERING CODES

1. DIAL SIZE		05	7. OTHER OPTIONS		BA
05	100 mm / 4"		BA	Case & Ring in AISI 316 SS	
07	160 mm ¹ / 6"		DM	Monel diaphragm	
2. RANGE		XXX	DO	Hastelloy C-276 diaphragm	
XXX	Refer "Range Table"		GW	Maximum reading pointer	
3. MOUNTING PATTERN		A	TA	Calibration certificate	
A	Direct, Bottom connection		TC	Material test certificate	
G	2" Pipe/Yoke mounting, Bottom connection		TN	NACE standards	
4. PROCESS CONNECTION		14N	XF	SS tag plate, AISI 304 SS	
02N	¼" NPT (F) x 2 Nos.		XR	Custom designed dial	
13B	3/8" BSP (M) x 2 Nos.		XT	Dial tag marking	
14B	½" BSP (M) x 2 Nos.		CA	Connector Male to Male adaptor	
14M	M20 X 1.5 mm (M) x 2 Nos.				
14N	½" NPT (M) x 2 Nos.				
04N	½" NPT (F) x 2 Nos.				
Other thread size and standards available on request					
5. INGRESS PROTECTION		ER			
ER	IP 65				
6. EXECUTION		EA			
EA	Dry				

Ordering Example:

MT-P110DP-05-XXX-A-14N-ER-EA-BA

NOTE

1. Case size is 150mm (D), Case+Ring=160mm (C)

STANDARD RANGES

RANGE	"bar"	"kg/cm ² "	"bar / psi"	RANGE	"psi"	RANGE	"kPa"	RANGE	"MPa"
0...0.6	B01	K01	N01	0...10	S01	0...60	E01	-	-
0...1	B02	K02	N02	0...15	S02	0...100	E02	0...0.1	M02
0...1.6	B03	K03	N03	0...25	S03	0...160	E03	0...0.16	M03
0...2.5	B05	K05	N05	0...35	S05	0...250	E05	0...0.25	M05
0...4	B06	K06	N06	0...60	S06	0...400	E06	0...0.4	M06
0...6	B07	K07	N07	0...100	S07	0...600	E07	0...0.6	M07
0...10	B09	K09	N09	0...150	S09	0...1000	E09	0...1	M09
0...16	B11	K11	N11	0...235	S11	0...1600	E11	0...1.6	M11
0...25	B13	K13	N13	0...365	S13	0...2500	E13	0...2.5	M13
0...40	B16	K16	N16	0...600	S16	0...4000	E16	0...4	M16

RANGE	"mbar"	RANGE	"kg/cm ² "	RANGE	"psi"	RANGE	"mmH ₂ O"
0...60	F09	0...0.06	K65	0...1.0	S55	0...600	H05
0...100	F11	0...0.1	K66	0...1.5	S56	0...1000	H06
0...160	F13	0...0.16	K67	0...2.5	S57	0...1600	H07
0...250	F15	0...0.25	K68	0...3.6	S58	0...2500	H08
0...400	F17	0...0.4	K69	0...6.0	S59	0...4000	H09
0...600	F19	0...0.6	K01	0...10	S01	0...6000	H10

NOTES

1. Other scales & measurement units are available.
2. Equivalent scales available in kg/cm², psi, kPa, MPa, bar/psi, kPa/bar, kPa/psi or any other special scales.
3. Primary scales shall be in «BLACK» and secondary scales shall be «RED».
4. Special scales, custom dial design, OEM/private logo printing is available, details contact our marketing team.