



Double Diaphragm

FEATURES

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

APPLICATIONS

- Liquid & gaseous mediums
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical
- Food & Beverages
- Nuclear power plants

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

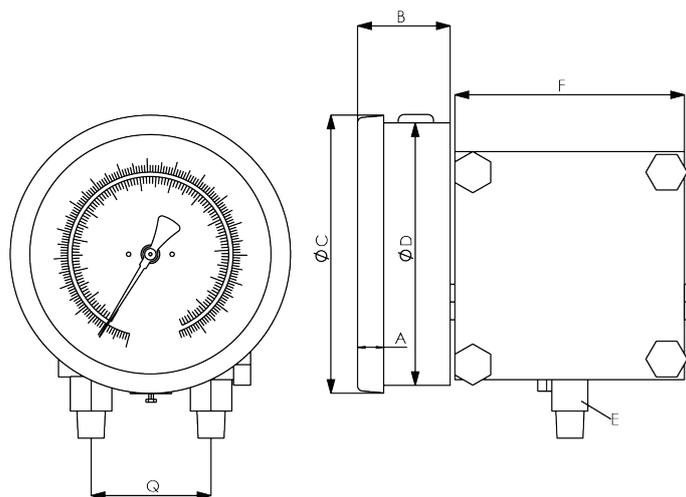
Dial size	DN100 / DN160
Range	0...60 mbar...40 bar
Mounting pattern	Direct, Bottom connection
Process connection	½" NPT (M) x 2 Nos (54mm center to center)
Ingress protection	IP 65
Execution	Dry / Dry but fillable

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)

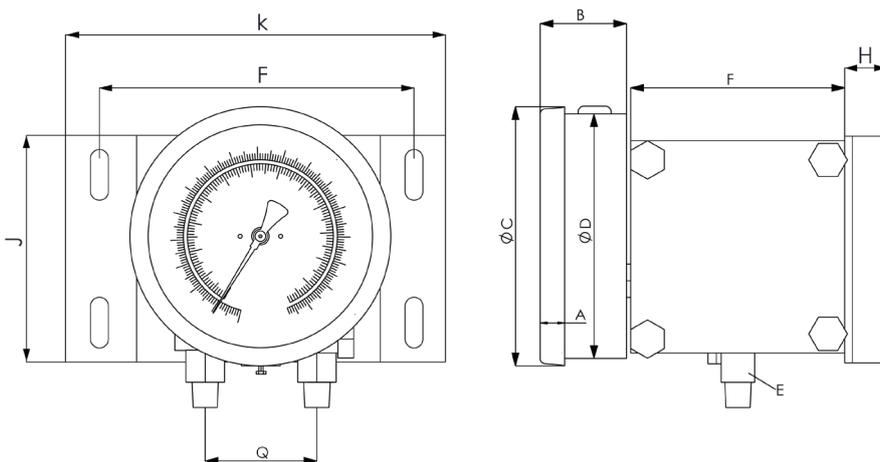
DIMENSIONAL DRAWING

Type A



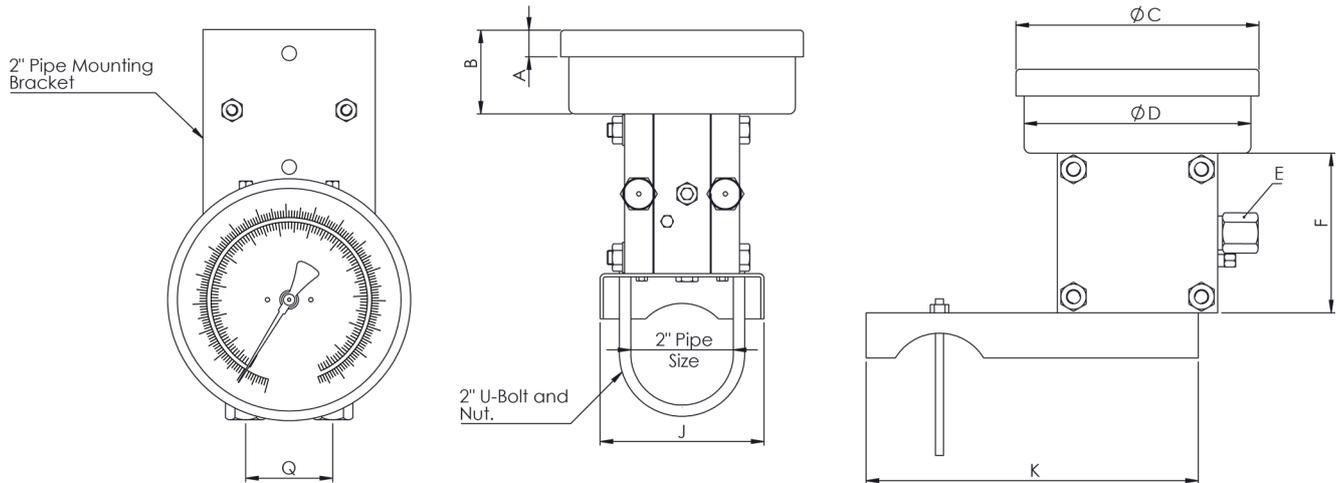
DN	A	B	C	D	E	Q	F	Weight
100	15	60	110	100	SW22	50	100	~5609 g
160	15	52	160	148	SW22	50	100	~6055 g

Type C



DN	A	B	C	D	E	Q	F	K	J	H	F	Weight
100	15	60	110	100	SW22	50	100	151	90	17	126	~5764 g
160	15	52	160	148	SW22	50	100	151	90	17	126	~6210 g

Type G



DN	A	B	C	D	E	Q	F	K	J	Weight
100	15	60	110	100	SW22	50	100	206	101	~6032 g
160	15	52	160	148	SW22	50	100	206	101	~6478 g

ORDERING CODES

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

Ordering Example:
MT-P100DP-05-XXX-A-14N-ER-EA-BA

NOTE

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

STANDARD RANGES

RANGE	"bar"	"kg/cm2"	"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/cm2"	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.