

Diaphragm



FEATURES

- All SS measuring system
- Socket-case, direct welded

APPLICATIONS

- Liquid & gaseous mediums
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical

STANDARD PARAMETERS

Accuracy	CL 1.6	
Ambient temperature	-40...+65°C	
Medium temperature	150°C max	
Pressure limits	Steady pressure up to FS value	Fluctuating pressure up to 90% of FS value
Standard	EN837-3	

MATERIAL OF CONSTRUCTION

Sensing element	Diaphragm
Case & Ring material	AISI 304 SS (Bayonet type)
Diaphragm	AISI 316 SS
Socket	AISI 316 SS (Welded directly to case)
Movement mechanism	Stainless steel
Dial	Aluminum, black graduation on white background
Pointer	Micro-adjustable, Aluminum, black powder coated
Gaskets, Blow off disc & filling plug	NBR
Window	Safety glass
Dampening liquid	Glycerin

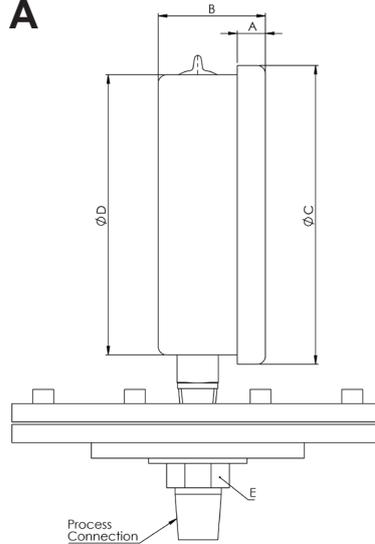
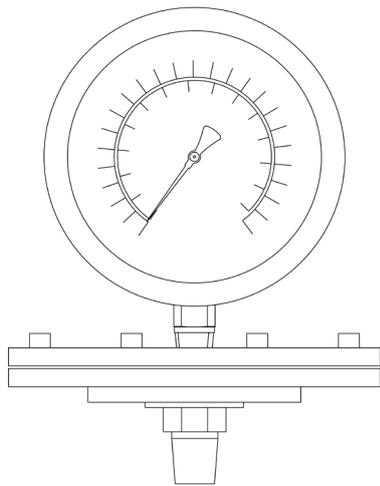
STANDARD SPECIFICATIONS

Dial size	100mm (4") / 160mm (6")
Range	16...600 mbar / -1...0...25 bar
Mounting pattern	Direct, Bottom connection
Process connection	½" NPT (M)
Ingress protection	IP 65
Execution	Dry

TEMPERATURE EFFECT

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

Type A



DN	A	B	C	D	E	Weight
100	17	50	101	99	SW27	~3475 g
160	17	50	160	158	SW27	~4227 g

ORDERING CODES

1. DIAL SIZE		05	6. EXECUTION		EA
05	100 mm / 4"		EA	Dry	
07	160 mm ¹ / 6"		EG	Glycerine oil	
			EH	Silicon oil	
2. RANGE		XXX	7. OTHER OPTIONS		BA
XXX	Refer "Range Table"		BA	Case & Ring in AISI 316 SS	
3. MOUNTING PATTERN		A	EN	Dampening screw, AISI 316 SS	
A	Direct, Bottom connection		GL	AISI 316 SS movement	
G	2" Pipe/Yoke mounting, Bottom connection		TA	Calibration certificate	
4. PROCESS CONNECTION		14N	TC	Material test certificate	
13B	3/8" BSP (M)		TO	Use for Oxygen service	
14B	1/2" BSP (M)		XF	SS tag plate, AISI 304 SS	
14M	M20 X 1.5 mm (M)		XG	SS tag plate, AISI 316 SS	
14N	1/2" NPT (M)		XR	Custom designed dial	
5. INGRESS PROTECTION		ER	XT	Dial tag marking	
ER	IP 65		TN	NACE standards	
			SF	Solid front	
			MN	Monel wetted parts	
			HT	Hastelloy wetted parts	

Ordering Example: MT-P100SD-05-XXX-A-14N-ER-EA-BA

NOTE

- Case size is 150mm (D), Case+Ring=160mm (C)
- For other connections, please contact factory.

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
-1...0	B37	K37	N37	-	-	-100...0	E37	0.1...0	M37
-1...0.6	B38	K38	N38	-	-	-100...60	E38	-0.1...0.06	M38
-1...1.5	B39	K39	N39	-	-	-100...150	E39	-0.1...0.15	M39
-1...3	B42	K42	N42	-	-	-100...300	E42	-0.1...0.3	M42
-1...5	B43	K43	N43	-	-	-100...500	E43	-0.1...0.5	M43
-1...9	B45	K45	N45	-	-	-100...900	E45	-0.1...0.9	M45
-1...15	B47	K47	N47	-	-	-100...1500	E47	-0.1...1.5	M47
-1...24	B49	K49	N49	-	-	-100...2400	E49	-0.1...2.4	M49

RANGE	"mbar"	RANGE	"kg/cm ² "	RANGE	"psi"	RANGE	"mmH ₂ O"
0...10	F01	0...0.01	K61	0...0.15	S51	0...100	H01
0...16	F03	0...0.016	K62	0...0.25	S52	0...160	H02
0...25	F05	0...0.025	K63	0...0.36	S53	0...250	H03
0...45	F07	0...0.045	K64	0...0.65	S54	0...450	H04
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.