

Dial size: 100mm, 160mm



## FEATURES

- All SS measuring system
- Socket-case, direct welded
- Dry / liquid filled

## APPLICATIONS

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

## STANDARD PARAMETERS

Accuracy	CL 1.0		
Ambient temperature	-40...+65°C (without dampening liquid)	-20...+65°C (with dampening liquid)	
Medium temperature	-40...+200°C (without dampening liquid)	-40...+100°C (with dampening liquid)	
Pressure limits	Steady pressure up to FS value	Fluctuating pressure up to 90% of FS value	Short time 1.3 x FS value
Standard	EN837-1		

## MATERIAL OF CONSTRUCTION

Sensing element	Bourdon Tube (C - type or Helical)
Case & Ring material	AISI 304 SS (Bayonet type)
Bourdon tube & Socket	AISI 316 SS (Socket welded directly to case)
Movement mechanism	Stainless steel
Dial	Aluminum, black graduation on white background
Pointer	Micro-zero adjustable, Aluminum, black powder coated
Gaskets, Blow off disc & filling plug	NBR
Window	Safety glass

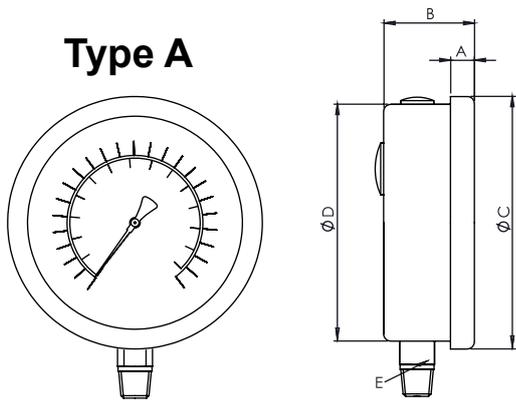
## STANDARD SPECIFICATIONS

Dial size	100mm (4") / 160mm (6") / 250mm (10")
Range	-1...0...1600 bar
Mounting pattern	Direct, Bottom connection
Process connection	½" NPT (M) / ½" BSP (M)
Ingress protection	IP 65
Execution	Dry / Dry but fillable
Dampening liquid	Glycerin

## TEMPERATURE EFFECT

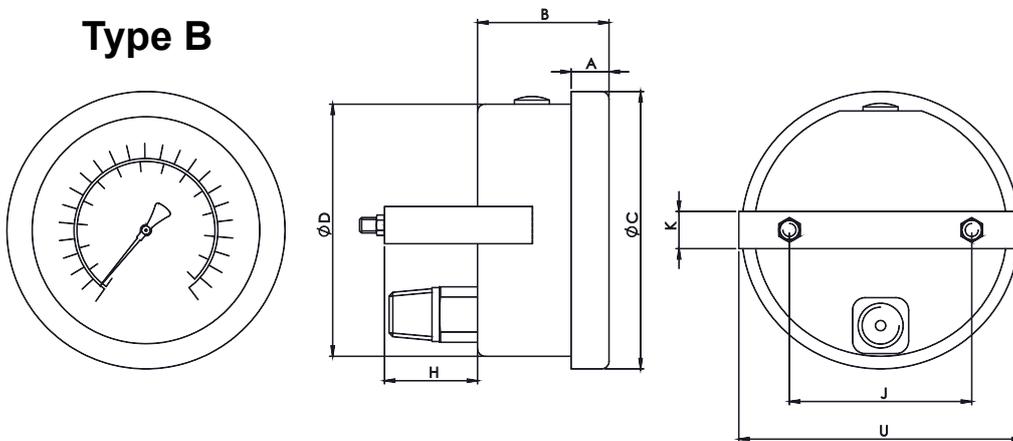
When temperature of the measuring system deviates from reference temperature (+20°C) max error  $\pm 0.4\%$  / 10K of true scale value. (According to EN837)

### Type A



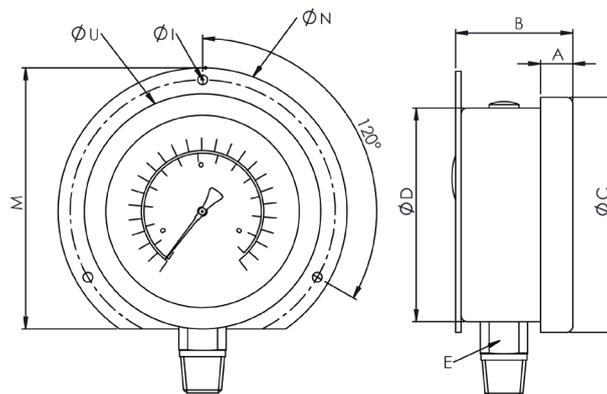
DN	A	B	C	D	E	Weight
100	15	50	110	100	sq22	~532 g
160	15	50	160	150	sq22	~859 g

### Type B



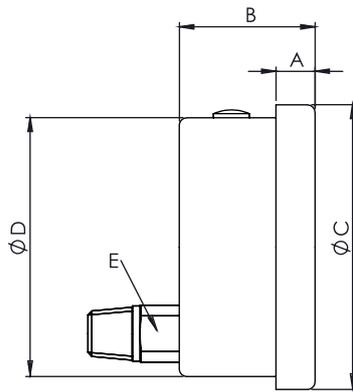
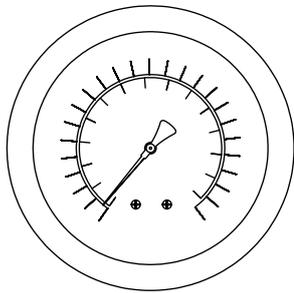
DN	A	B	C	D	E	U	J	H	K	Weight
100	15	49	110	100	sq22	111	69	17	15	~588 g
160	15	50	160	150	sq22	160	120	17	20	~944 g

### Type C



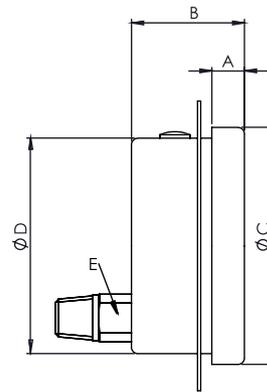
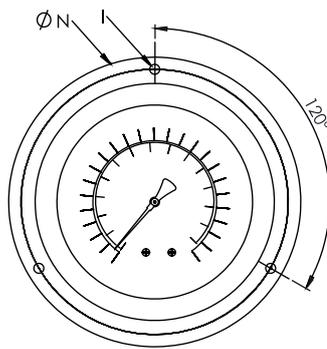
DN	A	B	C	D	E	M	U	I	N	Weight
100	15	52	111	100	sq22	115	114	6	129	~618 g
160	16	55	160	150	sq22	185	114	6	129	~1013 g

### Type D



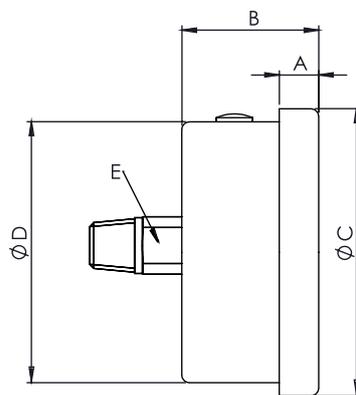
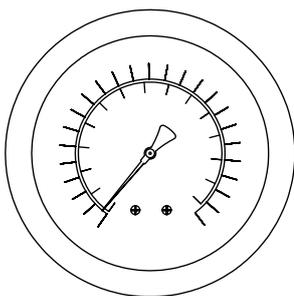
DN	A	B	C	D	E	Weight
100	15	49	110	100	sq22	~532 g
160	15	50	160	150	sq22	~859 g

### Type E



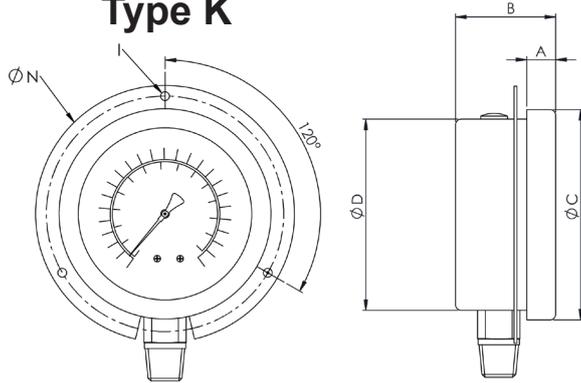
DN	A	B	C	D	E	N	I	Weight
100	15	49	110	100	sq22	130	7	~618 g
160	15	50	160	150	sq22	190	7	~1013 g

### Type J



DN	A	B	C	D	E	Weight
100	15	49	110	100	sq22	~532 g
160	15	50	160	150	sq22	~859 g

#### Type K



DN	A	B	C	D	E	N	I	Weight
100	15	50	110	100	sq22	130	7	~618 g
160	15	50	160	150	sq22	190	7	~1013 g

### ORDERING CODES

1. DIAL SIZE		05	6. EXECUTION		EA
05	100 mm / 4"		EA	Dry	
07	160 mm <sup>1</sup> / 6"		EB	Dry but fillable	
08	250 mm / 10"		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	EM	Dampening screw, Monel	
A	Direct, Bottom connection		EN	Dampening screw, AISI 316 SS	
B	Panel/bracket mounting, Lower Back connection		EX	Internal overload stop	
C	Wall/Surface/mounting, Bottom connection		EY	Internal vacuum stop	
D	Back connection		EZ	Pointer stop on dial	
E	Panel/Front flange mounting, Back connection		GL	AISI 316 SS movement	
G	2" Pipe/Yoke mounting, Bottom connection		GM	Dampened movement	
J	Centre, Back connection <sup>2</sup>		GX	Knife edge pointer	
K	Panel/Front flange mounting, Bottom connection		MN	Monel wetted parts	
4. PROCESS CONNECTION		14N	N9	Dial with Ammonia temperature scale	
12B	¼" BSP (M)		OP	Overrange protection 1.5xFS	
12N	¼" NPT (M)		P8	Epoxy coating	
13B	3/8" BSP (M)		R9	Receiver gauge	
14B	½" BSP (M)		TA	Calibration certificate	
14M	M20 X 1.5 mm (M)		TC	Material test certificate	
14N	½" NPT (M)		TL	Helium leak testing	
Other thread size and standards available on request			TN	NACE standards	
5. INGRESS PROTECTION		ER	TO	Use for Oxygen service	
ER	IP 65		TT	C.C. with NABL traceability	
ET	IP 67		XA	Accuracy: 0.5% of FS	
			XF	SS tag plate, AISI 304 SS	
			XG	SS tag plate, AISI 316 SS	
			XR	Custom designed dial	
			XT	Dial tag marking	

#### NOTES

- Case size is 150mm (D), Case+Ring=160mm (C)
- Available in DN100 only.
- C.C. = Calibration Certificate
- For other connections, please contact factory.

**Ordering Example :**  
**MT-P100ST-05-XXX-A-14N-ER-EA-BA**

### STANDARD RANGES

RANGE	"bar"	"kg/cm <sup>2</sup> "	"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
0...60	B17	K17	N17	0...870	S17	0...6000	E17	0...6	M17
0...70	B18	K18	N18	0...1000	S18	0...7000	E18	0...7	M18
0...100	B19	K19	N19	0...1500	S19	0...10000	E19	0...10	M19
0...160	B21	K21	N21	0...2300	S21	0...16000	E21	0...16	M21
0...250	B24	K24	N24	0...3600	S24	0...25000	E24	0...25	M24
0...400	B27	K27	N27	0...6000	S27	0...40000	E27	0...40	M27
0...600	B29	K29	N29	0...8700	S29	0...60000	E29	0...60	M29
0...700	B30	K30	N30	0...10000	S30	0...70000	E30	0...70	M30
0...1000	B31	K31	N31	0...15000	S31	-	-	0...100	M31
0...1600	B34	K34	N34	0...23200	S34	-	-	0...160	M34
-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

#### NOTES

1. Other scales & measurement units are available.
2. Equivalent scales available in kg/cm<sup>2</sup>, 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.