

FEATURES

- All SS measuring system
- Socket-case, direct welded
- External zero adjustment
- Dry / liquid filled
- CE marking

APPLICATION

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

External Zero Adjustment



STANDARD PARAMETERS

Accuracy	: CL 1.0
Ambient temperature	: -40...+65°C (without dampening liquid)
	: -20...+65°C (with dampening liquid)
Service temperature	: 300°C max.
Pressure limits	: Steady pressure up to FS value
	: Fluctuating pressure up to 90% of FS value
	: Short time 1.3 x FS value for range up to 100 bar
	: Short time 1.15 x FS value for range above 100 bar
Weld joints	: TIG argon arc welding

MATERIAL OF CONSTRUCTION

Sensing element	: Bourdon Tube (<100 bar : C - type , > 100 bar : Helical)
Case & Ring material	: AISI 304 SS (Bayonet type)
Bourdon tube & Shank	: AISI 316L SS (Shank welded directly to case)
Movement mechanism	: AISI 304 SS
Dial	: Aluminum, black graduation on white background
Pointer	: Micro-zero adjustable, aluminum, black powder coated
Gaskets, Blow off disc & filling plug	: Neoprene / NBR
Window	: Sheet glass / Shatterproof safety glass

STANDARD SPECIFICATIONS

Dial size	: DN100 / DN125 / DN150 / DN250
Range	: -1...0...1,600 bar
Mounting pattern	: Direct, Bottom connection
Process connection	: 1/2" NPT (M) / 1/2" BSP (M)
Ingress protection	: IP 54 / IP 65
Execution	: Dry / Dry but fillable
Zero adjustment	: External screw with locking mechanism

STANDARD SPECIFICATIONS : DAMPENING LIQUID FILLED, GLYCERIN

Window	: Safety glass
Dampening liquid	: Glycerin 99.7% [Service temperature up to 65°C]

TEMPERATURE EFFECT

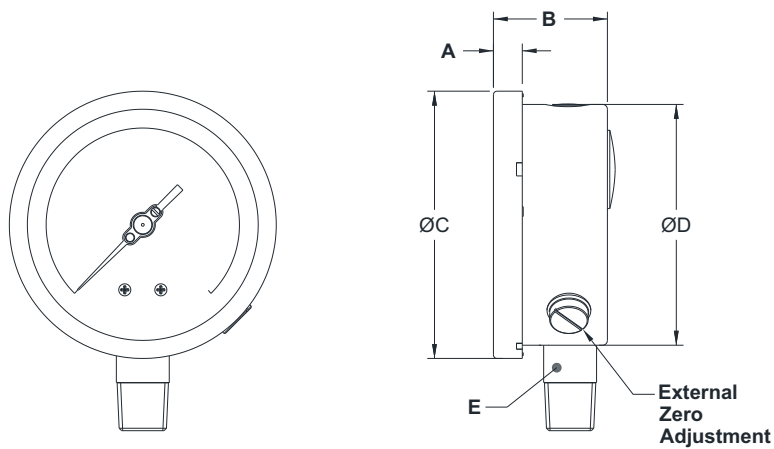
When temperature of the measuring system deviates from reference temperature (+20°C) max error $\pm 0.4\%$ / 10K of true scale value.

REFERENCE

EN 837-1, PED 97/23/EC

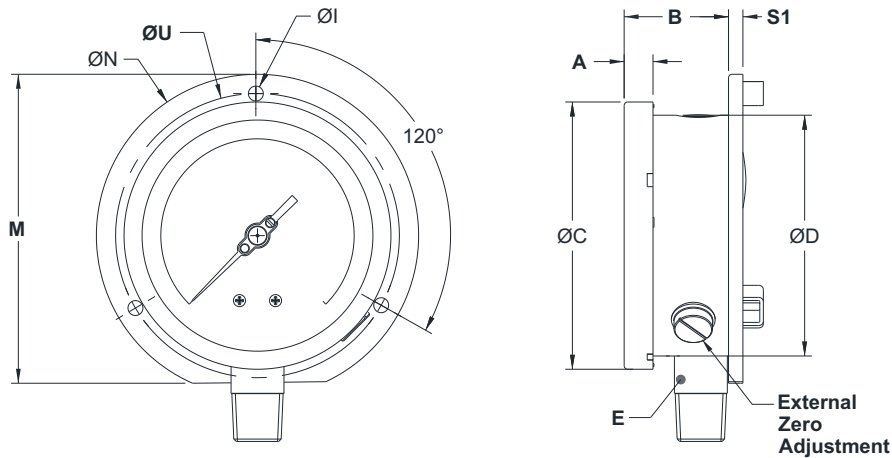
DIMENSIONAL DRAWING

Type B0



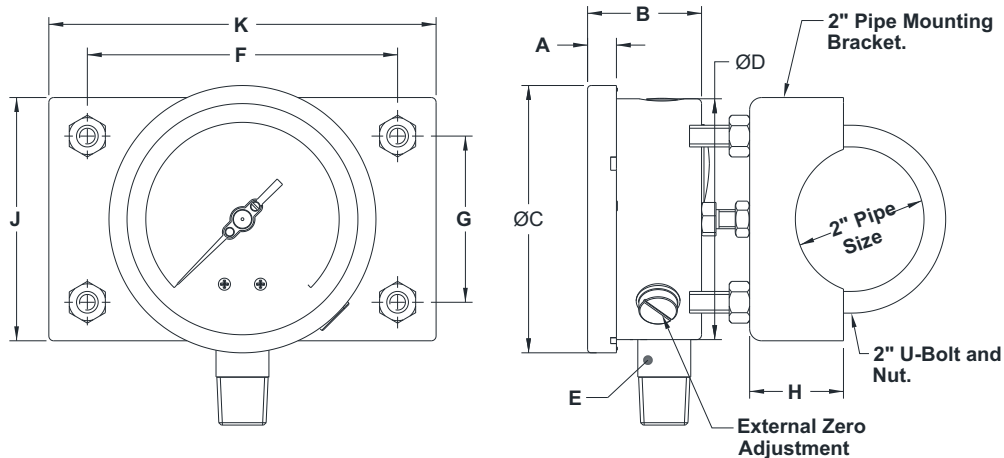
DN	A	B	ØC	ØD	E	Weight (grams)
100	12	48	111	100	SQ.22	506
125	15	48	129	118.5	SQ.22	694
150	15	48	161	149	SQ.22	900
250	18.5	50	263	250	SQ.22	2100

Type B1



DN	A	B	ØC	ØD	E	ØI	M	ØN	S1	ØU	Weight (grams)
100	12	52	111	100	SQ.22	6	128	134	6	118	613
125	15	50	129	118.5	SQ.22	6	143.5	150	4	137	796
150	15	52	161	149	SQ.22	6	172.4	186	6	168	1080
250	18.5	51.5	263	250	SQ.22	7	286.5	290	1.5	276	2448

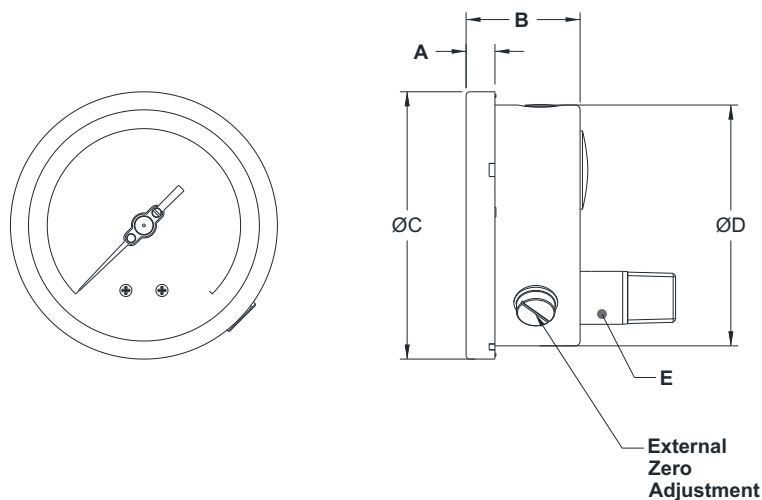
Type B2



DN	A	B	ØC	ØD	E	F	G	H	J	K	Weight (grams)
100	12	48	111	100	SQ.22	129	69	39	101	161	1580
150	15	48	161	149	SQ.22	129	69	39	101	161	1974

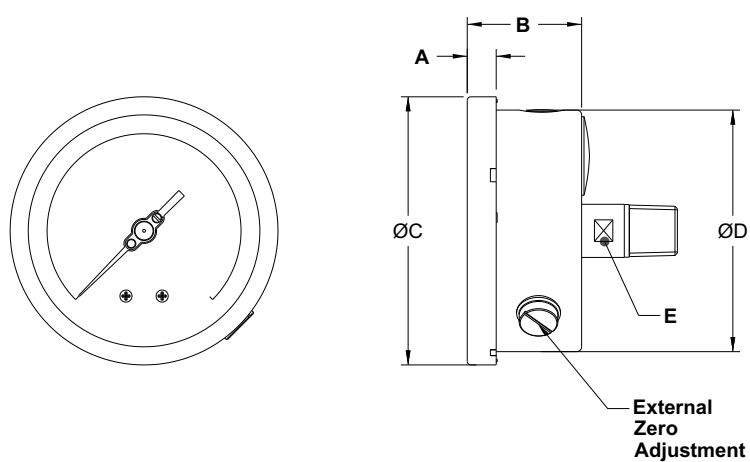
DIMENSIONAL DRAWING

Type L0



DN	A	B	ØC	ØD	E	Weight (grams)
100	12	48	111	100	SQ.22	506
150	15	48	161	149	SQ.22	2100

Type R0



DN	A	B	ØC	ØD	E	Weight (grams)
100	12	48	111	100	A/F 17	506
150	15	48	161	149	A/F 17	2100

RANGE V/s OVER RANGE

RANGE "bar"	OVER RANGE "bar"
0...1	4
0...1.6	6
0...2.5	10
0...4	16
0...6	25
0...10	40
0...16	48
0...25	75
0...40	80
0...60	120
0...100	200
0...160	320
0...250	500
0...400	800
0...600	1200

ORDERING CODES

1. DIAL SIZE

04	100 mm / 4"
05	125 mm / 4 1/2"
06	150 mm / 6"
10	250 mm / 10"

2. RANGE

XXX	Refer "Range Table"
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3. MOUNTING PATTERN

B0	Direct, Bottom connection
B1	Wall/Surface/Projection mounting, Bottom connection
B2	2" Pipe/Yoke mounting, Bottom connection
R0	Centre, Back connection ²
L0	Lower, Back connection

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)

5. INGRESS PROTECTION

ER	IP 65
ES	IP 66
ET	IP 67

6. EXECUTION

EA	Dry ⁴
EB	Dry but fillable
EG	Dampening liquid filled, glycerine
EH	Dampening liquid filled, silicon oil

7. OTHER OPTIONS

BA	Case & Ring in AISI 316 SS (B0)
BB	Case & Ring in AISI 316 SS (B1)
BC	Case & Ring in AISI 316 SS (B2)
BG	Case & Ring in AISI 316 SS (R0)
BK	Case & Ring in AISI 316 SS (L0)
EM	Dampening screw, Monel
EN	Dampening screw, AISI 316 SS
EX	Internal overload stop
EY	Internal vacuum stop
EZ	Pointer stop on dial
G9	Dial with Freon temperature scales
GB	Plexi glass
GC	Shatterproof safety glass
GD	Toughened glass
GL	AISI 316 SS movement
GM	Dampened movement
GW	Maximum Reading pointer ³
GX	Knife edge pointer
MN	Monel wetted parts
N9	Dial with Ammonia temperature scale
OP	Overrange protection 1.5xFS
OS	High overpressure protection ⁷
P8	Epoxy coating (Case & Ring)
R9	Receiver gauge ⁴
RA	Rubber parts, Viton
RW	Vent plug, ON-OFF type
TA	5 - point calibration certificate
TC	Material test certificate 3.1
TE	CE certificate
TI	IBR certification
TL	Helium leak testing
TM	Material test certificate 2.2
TN	Tested to NACE standards
TO	Certification for Oxygen service
TP	Performance test
TT	C.C. with NABL traceability
XA	Accuracy CL 0.5 / CL 0.6 of FS
XF	SS tag plate, AISI 304 SS
XG	SS tag plate, AISI 316 SS
XK	Electro polished (Case & Ring)
XN	Anti-parallax mirror band
XR	Custom designed dial
XT	Dial tag marking

Ordering Example : P102-04-XXX-B0-14N-ER-EB

NOTES

- For other connections, please contact factory.
- Available in dry version with accuracy CL 1.0 or above.
- Available with Ingress Protection IP 54 (dust proof) only.
- Refer Range V/s Overpressure table.

- Available in DN100 only.
- Please specify the second scale required.
- C.C. = Calibration Certificate