

## FEATURES

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

## APPLICATION

- Oil & Gas applications
- Corrosive environments
- Liquid & gaseous mediums
- Nuclear power plants

## REFERENCE

EN 837-1, PED 97/23/EC

### DIN Style Case & Ring



### STANDARD PARAMETERS

Accuracy	: CL 1.0 (DN100 / DN150) & CL 1.6 (DN63)
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), DIN style
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
	: Fixed, aluminum, black powder coated (DN63)
Gaskets, Blow off disc & filling plug	: Neoprene / NBR
Window	: Shatterproof safety glass

### STANDARD SPECIFICATIONS

Dial size	: DN63 / DN100 / DN150
Range	: -1...0...1,600 bar (DN100 / DN150)
	: -1...0...1,000 bar (DN63)
Mounting pattern	: Direct, Bottom connection
Process connection	: 1/2" NPT (M) / 1/2" BSP (M) [DN100 / DN150]
	: 1/4" NPT (M) / 1/4" BSP (M) [DN63]
Ingress protection	: IP 65
Execution	: Dry but fillable

### STANDARD SPECIFICATIONS : DAMPENING LIQUID FILLED, GLYCERIN

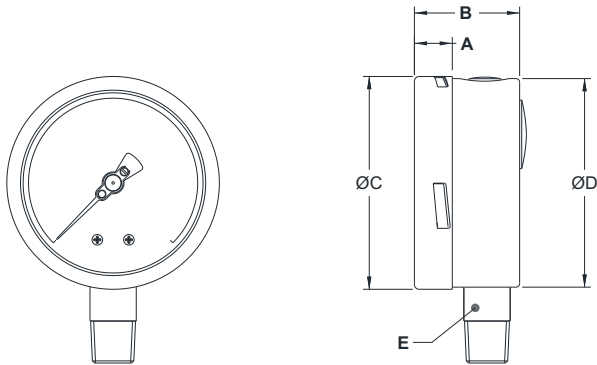
Window	: Safety glass
Dampening liquid	: Glycerin 99.7% [Service temperature up to 65°C]

### TEMPERATURE EFFECT

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

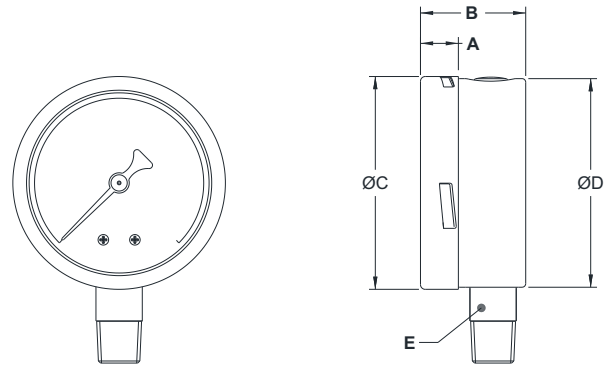
DIMENSIONAL DRAWING

Type B0



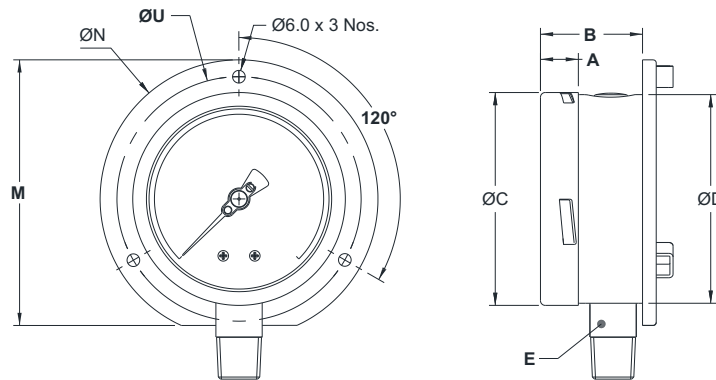
DN	A	B	ØC	ØD	E	Weight (grams)
63	12	32	64	61.7	SQ.14	190

Type B0



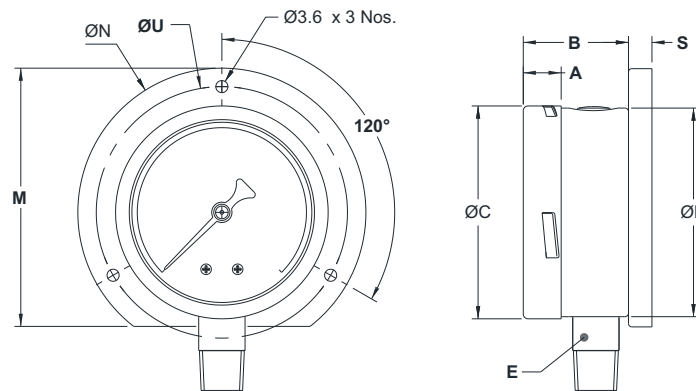
DN	A	B	ØC	ØD	E	Weight (grams)
100	16.5	50	101	99	SQ.22	491
150	17	51	162	159	SQ.22	890

Type B1



DN	A	B	ØC	ØD	E	M	ØN	S	ØU	Weight (grams)
63	12	32	64	61.7	SQ.14	80	86	7	75	240

Type B1

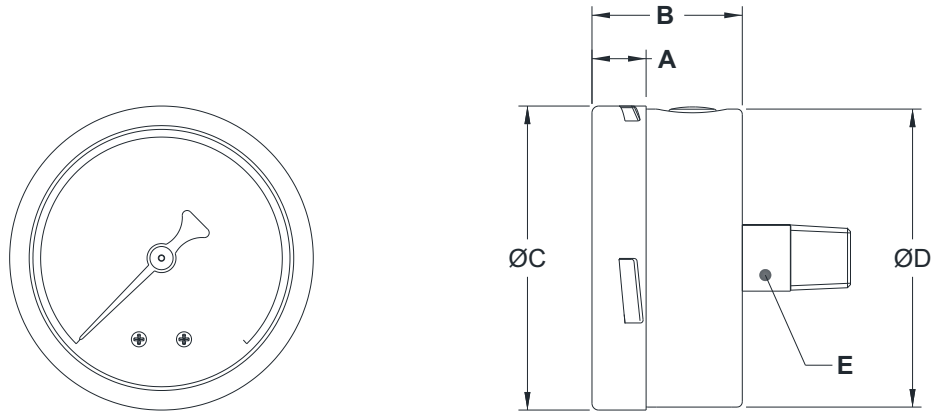


DN	A	B	ØC	ØD	E	M	ØN	ØU	Weight (grams)
100	16.5	54	101	99	SQ.22	126	132	116	598
150	17	55	162	159	SQ.22	188	196	178	1070

All dimensions are in mm.

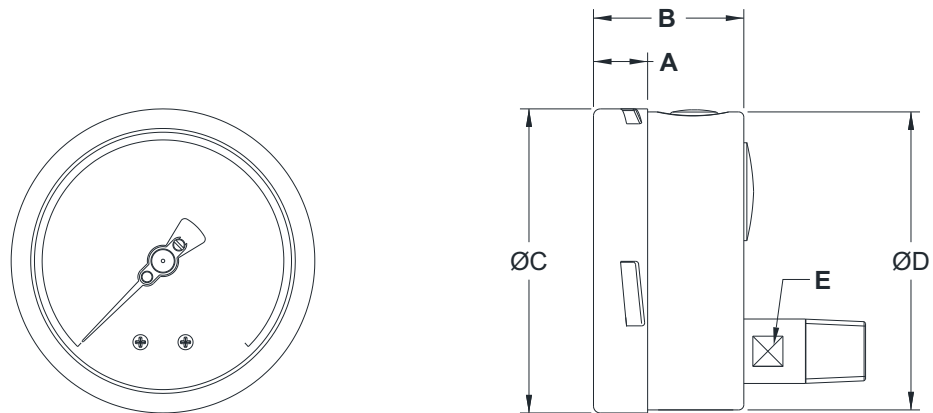
DIMENSIONAL DRAWING

Type R0



DN	A	B	ØC	ØD	E	Weight (grams)
63	12	32	64	61.7	SQ.14	190

Type L0



DN	A	B	ØC	ØD	E	Weight (grams)
100	16.5	50	101	99	A/F-18	491
150	17	51	162	159	A/F-18	890

**ORDERING CODES**

**1. DIAL SIZE**

<b>25</b>	63 mm / 2.5"
<b>04</b>	100 mm / 4"
<b>06</b>	150 mm / 6"

**04**

**2. RANGE**

<b>XXX</b>	Refer "Range Table"
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**XXX**

**3. MOUNTING PATTERN**

<b>B0</b>	Direct, Bottom connection
<b>B1</b>	Wall/Surface/Projection mounting, Bottom connection
<b>R0</b>	Centre, Back connection
<b>L0</b>	Lower, Back connection
<b>L1</b>	Panel/Front flange mounting, Lower Back connection
<b>L2</b>	Panel/bracket mounting, Lower Back connection

**B0**

**4. PROCESS CONNECTION**

<b>12B</b>	1/4" BSP (M)
<b>12N</b>	1/4" NPT (M)
<b>13B</b>	3/8" BSP (M)
<b>14B</b>	1/2" BSP (M)
<b>14M</b>	M20 X 1.5 mm (M)
<b>14N</b>	1/2" NPT (M)

**14N**

**5. INGRESS PROTECTION**

<b>ER</b>	IP 65
<b>ES</b>	IP 66
<b>ET</b>	IP 67

**ER**

**6. EXECUTION**

<b>EA</b>	Dry <sup>7</sup>
<b>EB</b>	Dry but fillable
<b>EG</b>	Dampening liquid filled, glycerine
<b>EH</b>	Dampening liquid filled, silicon oil

**EA**

**7. OTHER OPTIONS**

<b>BA</b>	Case & Ring in AISI 316 SS (B0)
<b>BB</b>	Case & Ring in AISI 316 SS (B1)
<b>BG</b>	Case & Ring in AISI 316 SS (R0)
<b>BK</b>	Case & Ring in AISI 316 SS (L0)
<b>BL</b>	Case & Ring in AISI 316 SS (L1)
<b>BM</b>	Case & Ring in AISI 316 SS (L2)
<b>EM</b>	Dampening screw, Monel
<b>EN</b>	Dampening screw, AISI 316 SS
<b>EX</b>	Internal overload stop
<b>EY</b>	Internal vacuum stop
<b>EZ</b>	Pointer stop on dial
<b>G9</b>	Dial with Freon temperature scales
<b>GB</b>	Plexi glass
<b>GD</b>	Toughened glass
<b>GL</b>	AISI 316 SS movement
<b>GM</b>	Dampened movement
<b>GW</b>	Maximum Reading pointer <sup>3</sup>
<b>GX</b>	Knife edge pointer
<b>MN</b>	Monel wetted parts
<b>N9</b>	Dial with Ammonia temperature scale
<b>OP</b>	Overrange protection 1.5xFS
<b>P8</b>	Epoxy coating (Case & Ring)
<b>R9</b>	Receiver gauge <sup>4</sup>
<b>RA</b>	Rubber parts, Viton
<b>RW</b>	Vent plug, ON-OFF type
<b>TA</b>	5 - point calibration certificate
<b>TC</b>	Material test certificate 3.1
<b>TE</b>	CE certificate
<b>TI</b>	IBR certification
<b>TL</b>	Helium leak testing
<b>TM</b>	Material test certificate 2.2
<b>TN</b>	Tested to NACE standards
<b>TO</b>	Certification for Oxygen service
<b>TP</b>	Performance test
<b>TT</b>	C.C. with NABL traceability
<b>XA</b>	Accuracy CL 0.5 / CL 0.6 of FS
<b>XF</b>	SS tag plate, AISI 304 SS
<b>XG</b>	SS tag plate, AISI 316 SS
<b>XK</b>	Electro polished (Case & Ring)
<b>XN</b>	Anti-parallax mirror band
<b>XR</b>	Custom designed dial
<b>XT</b>	Dial tag marking

**XX**

**Ordering Example : P104-04-XXX-B0-14N-ER-EA**

**NOTES**

1. For other connections, please contact factory.
3. Available in dry version only with accuracy CL 1.0 or above.
5. For options applicable to dial size code 25, please refer model P103.
7. Available with Ingress Protection IP 54 (Dust Proof) only.

2. Available in DN100 & DN150 only.
4. Please specify the second scale required.
6. C.C. = Calibration Certificate