

PSS All Stainless Steel Pressure Gauge

Bourdon Tube Type, DN100



FEATURES

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

APPLICATION

- 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)
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 304/316L SS (Shank welded directly to case)
Movement mechanism	: AISI 304 SS
Dial	: Aluminum, black graduation on white background Pointer stopper on dial
Pointer	: Micro-zero adjustable, aluminum, black powder coated
Gaskets, Blow off disc & filling plug	: Neoprene
Window	: Sheet glass / Shatterproof safety glass

STANDARD SPECIFICATIONS

Dial size	DN100/ DN125 / DN150/DN250
Range	-1...0...1,600 bar
Mounting pattern	Direct, Bottom
Process connection	1/2" NPT (M)
Ingress protection	IP 54 / IP 65
Execution	Dry / Dry but fillable, glycerin

STANDARD SPECIFICATIONS: DAMPENING LIQUID FILLED, GLYCERIN

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

TEMPERATURE EFFECT

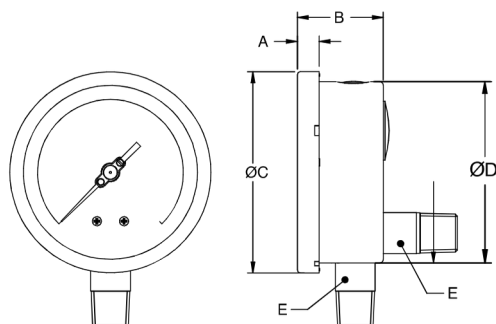
When temperature of the measuring system deviates from reference temperature (+20°C) max error $\pm 0.4\%$ / 10K of true scale value.

REFERENCE

EN 837-1, PED 97/23/EC

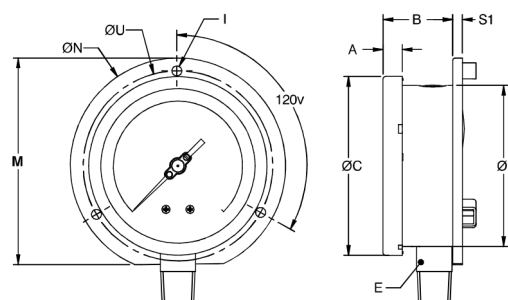
DIMENSIONAL DRAWING

MOUNTING: BOTTOM / LOWER BACK



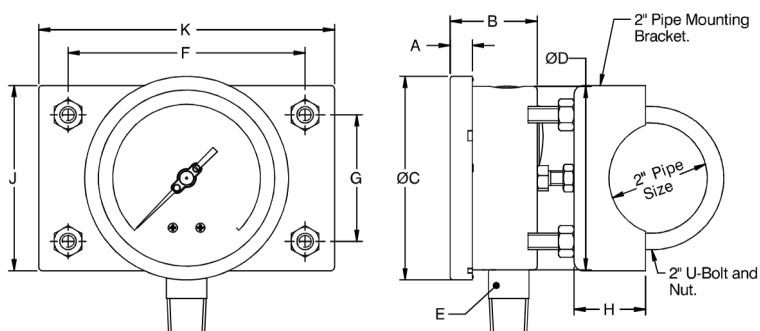
DN	A	B	ØC	ØD	E	Weight (grams)
100	12	48	111	100	SQ.22	506
125	15	48	129	118.5	SQ.22	694
150	15	48	161	149	SQ.22	900
250	18.5	50	263	250	SQ.22	2100

MOUNTING: SURFACE BOTTOM



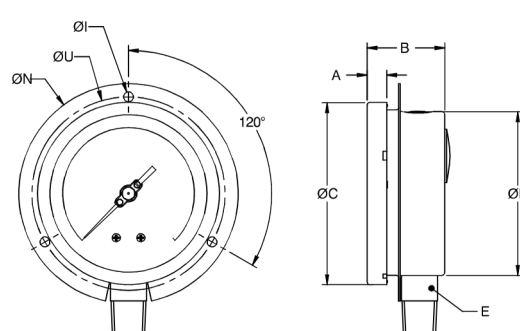
DN	A	B	ØC	ØD	E	ØI	M	ØN	S1	ØU	Weight (grams)
100	12	52	111	100	SQ.22	6	128	134	6	118	613
125	15	50	129	118.5	SQ.22	6	143.5	150	4	137	796
150	15	52	161	149	SQ.22	6	172.4	186	6	168	1080
250	18.5	51.5	263	250	SQ.22	7	286.5	290	1.5	276	2448

MOUNTING: BOTTOM, 2" PIPE BRACKET



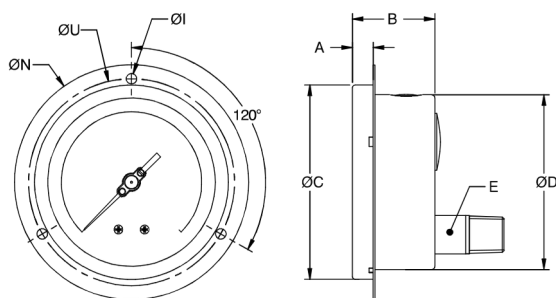
DN	A	B	ØC	ØD	E	F	G	H	J	K	Weight (grams)
100	12	48	111	100	SQ.22	129	69	39	101	161	1580
150	15	48	161	149	SQ.22	129	69	39	101	161	1974

MOUNTING: BOTTOM, FRONT FLANGE



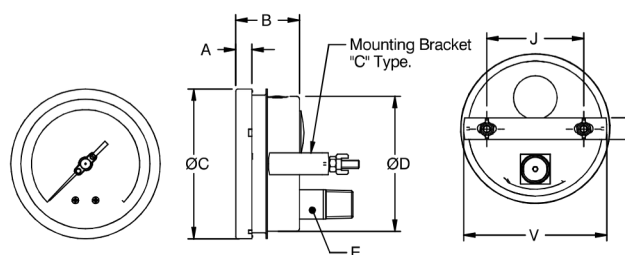
DN	A	B	ØC	ØD	E	ØI	ØN	ØU	Weight (grams)
100	12	48	111	100	SQ.22	6	134	118	580
150	15	48	161	149	SQ.22	6	186	168	2433

MOUNTING: LOWER BACK, FRONT FLANGE



DN	A	B	ØC	ØD	E	ØI	ØN	ØU	Weight (grams)
100	12	48	111	100	SQ.22	6	134	118	580
125	15	48	129	118.5	SQ.22	6	150	137	770
150	15	48	161	149	SQ.22	6	186	168	1016
250	18.5	50	263	250	SQ.22	7	290	276	2433

MOUNTING: LOWER BACK, "U" CLAMP



DN	A	B	ØC	ØD	E	J	K	V	Weight (grams)
100	12	48	111	100	SQ.22	72	16	108	595
125	15	48	129	118.5	SQ.22	75	15	125	790
150	15	48	161	149	SQ.22	106.5	16	158.5	1066
250	18.5	50	263	250	SQ.22	180	30	270	2310

ORDERING CODES

1. DIAL SIZE

100	: 100 mm / 4"
125	: 125 mm / 4, ½"
150	: 150 mm / 6"
250	: 250 mm / 10"

2. RANGE

XXX : Refer "Range Table"

3. MOUNTING PATTERN

BA	: Direct, Bottom
BB	: Wall/Surface/Projection mounting, Bottom
BP	: 2" Pipe/Yoke mounting, Bottom
BF	: Panel/Front flange mounting, Bottom
LA	: Lower, Back
LF	: Panel/Front flange mounting, Lower Back :
LU	: Panel/bracket mounting, Lower Back
CA	: Centre Back

4. PROCESS CONNECTION

13BM	: ¼" BSP (M)
17BM	: 3/8" BSP (M)
21BM	: ½" BSP (M)
13NM	: ¼" NPT (M)
17NM	: 3/8" NPT (M)
21NM	: ½" NPT (M)

Other thread size and standards available on request.

5. INGRESS PROTECTION

E3	: IP 65
E4	: IP 66
E5	: IP 67
E6	: IP 68

6. EXECUTIONS

C0	: Dry
C1	: Dry but fillable, glycerine
C2	: Dry but fillable, silicon oil
C4	: Dampening liquid filled, glycerine
C5	: Dampening liquid filled, silicon oil

7. OTHER OPTIONS

Z01	: SS tag plate, AISI 304 SS
Z02	: SS tag plate, AISI 316 SS
Z03	: Dial tag marking
Z04	: Case & Ring in AISI 316 SS
Z05	: AISI 316 SS movement
Z06	: Internal overload stop
Z07	: Internal vacuum stop
Z08	: External Zero adjustment
Z09	: Maximum Reading pointer
Z10	: Knife edge pointer
Z11	: Anti-parallax mirror band
Z12	: Dampening screw
Z13	: Monel wetted parts
Z14	: Shatterproof safety glass
Z15	: Plexi glass
Z16	: Toughened glass
Z17	: 5-point calibration certificate
Z18	: NABL calibration certificate
Z19	: CE certificate
Z20	: IBR certification
Z21	: Material test certificate 3.1
Z22	: Tested to NACE standards
Z23	: Dial with Ammonia temperature scale
Z24	: Dial with Freon temperature scales
Z25	: ON/OFF filling plug
Z27	: Receiver range
Z28	: Overrange protection 1.5xFS
Z29	: Accuracy CL 0.5/ CL 0.6 of FS
Z30	: Degreased for Oxygen service
Z31	: Dampened movement
Z32	: Epoxy coating (Case & Ring)
Z34	: Custom designed dial
Z32	: Electro polished (Case & Ring)

ORDERING EXAMPLE: PSS-0 TO 10 KG/CM²/PSI-BA-21BM-E3-C0

NOTES: 1. FOR OTHER CONNECTIONS, PLEASE CONTACT FACTORY.

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