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ALL SS ELECTRIC CONTACT PRESSURE GAUGE P502



FEATURES

- All SS measuring system
- Socket-case, direct welded
- CE marked contacts
- Liquid filled versions

APPLICATION

- Pumps & motor controls
- Water treatment plants
- Hydraulic & pneumatics
- Chemical & petrochemicals
- Pharmaceutical industries
- Compressors & utilities

REFERENCE

EN 837-1

STANDARD PARAMETERS

Accuracy	: CL 1.0
Ambient temperature	: -40...+65°C (without dampening liquid) : -20...+65°C (with dampening liquid)
Service temperature	: 200°C max.
Pressure limits	: Steady pressure up to FS value : Fluctuating pressure up to 90% of FS value
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	: Fixed, aluminum, black powder coated
Gaskets, Blow off disc & filling plug	: Neoprene / NBR
Window	: Shatterproof safety glass

STANDARD SPECIFICATIONS

Dial size	: DN100 / DN150
Range	: -1...0...1,600 bar
Mounting pattern	: Direct, Bottom connection
Process connection	: 1/2" NPT (M) / 1/2" BSP (M)
Ingress protection	: IP 65
Execution	: Dry
Switch	: 1NO; Make contact
Electrical termination	: 4 pin PG 13.5 connector

STANDARD SPECIFICATIONS : DAMPENING LIQUID FILLED

Window	: Shatterproof safety glass
Dampening liquid	: Dielectric oil
Gaskets, Blow off disc & filling plug	: Viton

TEMPERATURE EFFECT

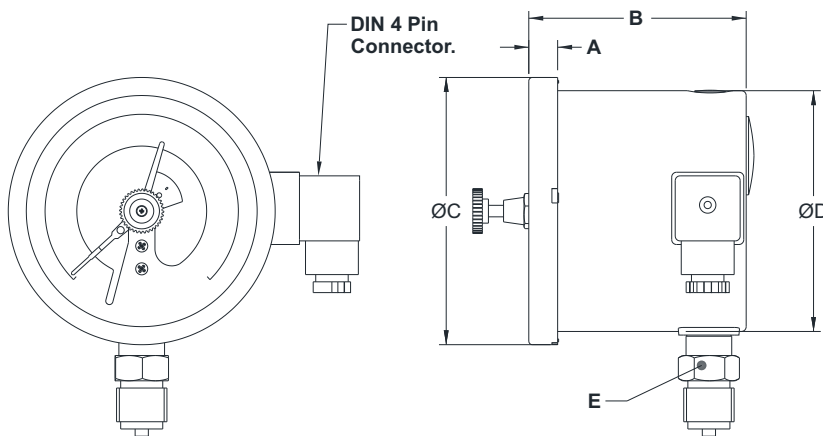
When temperature of the measuring system deviates from reference temperature (+20°C) max error $\pm 0.4\%$ / 10K of true scale value.

NOTES

1. Gauge accuracy shall be CL 1.0. but switching accuracy shall be CL 5.0

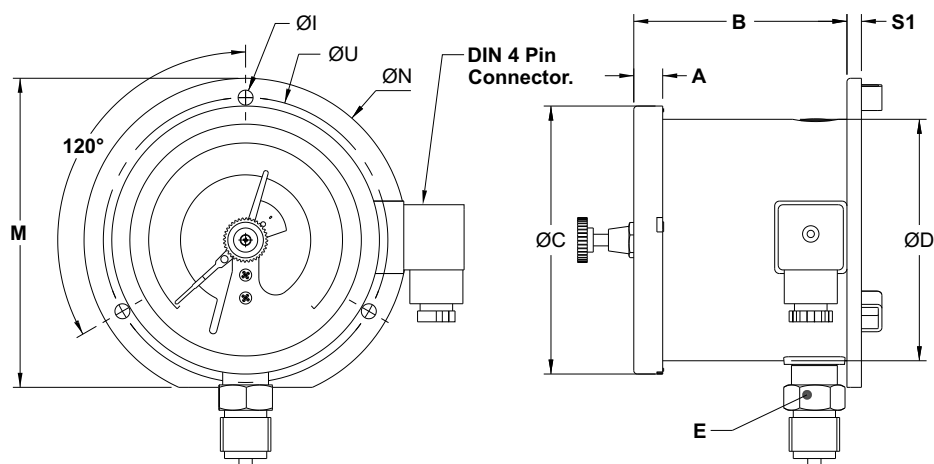
DIMENSIONAL DRAWING

Type B0



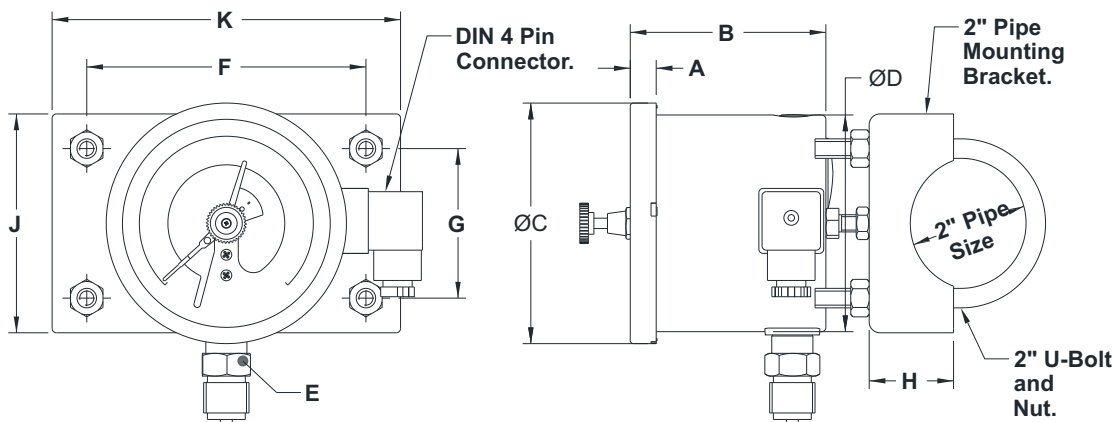
DN	A	B	ØC	ØD	E	Weight (grams)
100	12	90	111	100	A/F-22	801
150	15	90	161	149	A/F-22	1195

Type B1



DN	A	B	ØC	ØD	E	ØI	M	ØN	S1	ØU	Weight (grams)
100	12	94	111	100	A/F22	6	128	134	6	118	908
150	15	94	161	149	A/F22	6	172.4	186	6	168	1375

Type B2

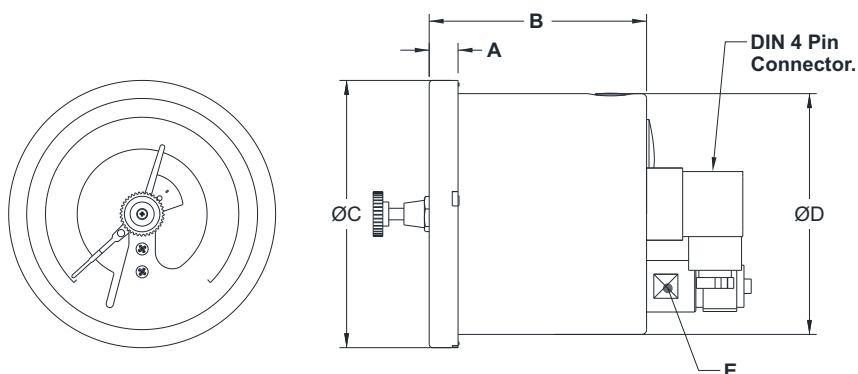


DN	A	B	ØC	ØD	E	F	G	H	J	K	Weight (grams)
100	12	90	111	100	A/F22	129	69	39	101	161	1875
150	15	90	161	149	A/F22	129	69	39	101	161	2269

All dimensions are in mm.

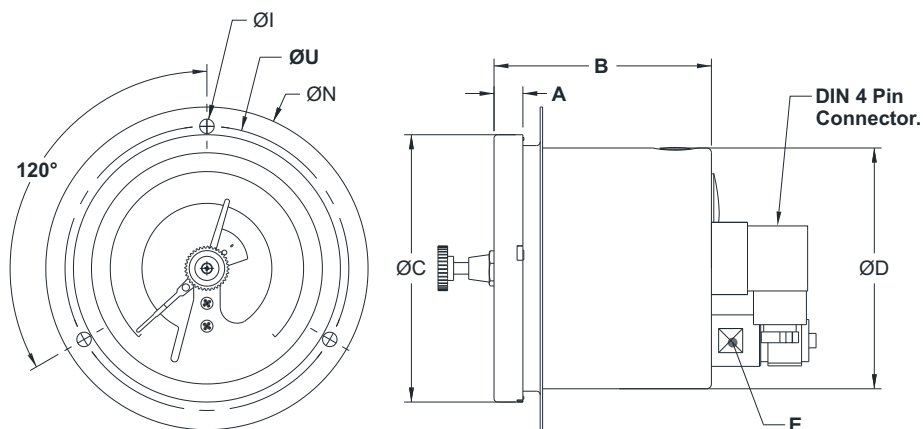
DIMENSIONAL DRAWING

Type L0



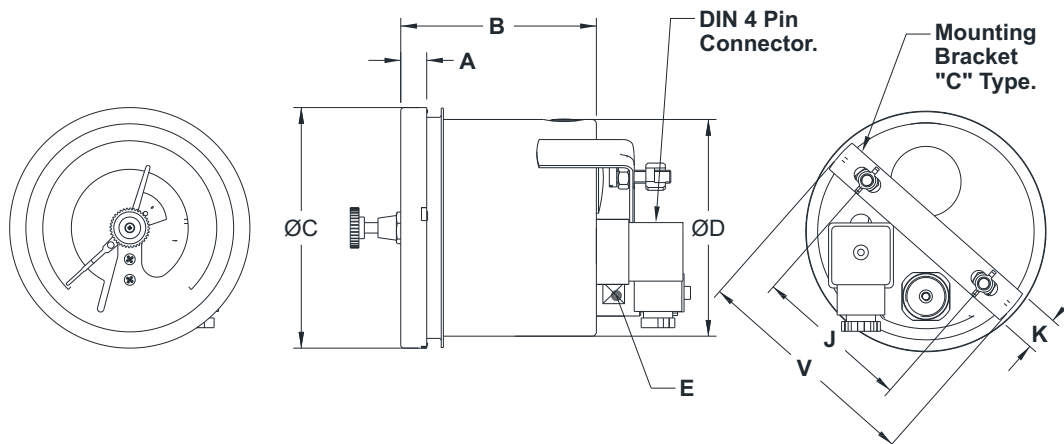
DN	A	B	ØC	ØD	E	Weight (grams)
100	12	90	111	100	A/F17	801
150	15	90	161	149	A/F17	1195

Type L1



DN	A	B	ØC	ØD	E	ØI	ØN	ØU	Weight (grams)
100	12	90	111	100	A/F17	6	134	118	833
150	15	90	161	149	SQ.22	6	186	168	1269

Type L2



DN	A	B	ØC	ØD	E	J	K	V	Weight (grams)
100	12	90	111	100	A/F17	72	16	108	813
150	15	90	161	149	A/F17	106.5	16	158.5	1284

ORDERING CODES

1. DIAL SIZE

04	100 mm / 4"
06	150 mm / 6"

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
L0	Lower, Back connection
L1	Panel/Front flange mounting, Lower Back connection
L2	Panel/bracket mounting, 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
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6. EXECUTION

EA	Dry
EF	Dry but fillable, dielectric oil ⁴
EK	Dampening liquid, dielectric oil ⁴

7. SWITCH CATEGORY

RS	Precision contacts
RT	ATEX / CE approved contacts

04

XXX

B0

14N

ER

EA

RR

8. ELECTRIC CONTACT

CD1	Break contact (1NC)
CD2	Make contact (1NO)
CD3	2 x Break contact (2NC)
CD4	2 x Make contact (2NO)
CD5	1 Break + 1 Make (1NC+1NO)
CD6	1 Make + 1 Break (1NO+1NC)
CD7	SPDT
CD8	DPDT
CI1	Break contact (1NC)
CI2	Make contact (1NO)
CI3	2 x Break contact (2NC)
CI4	2 x Make contact (2NO)
CI5	1 Break + 1 Make (1NC+1NO)
CI6	1 Make + 1 Break (1NO+1NC)
CI9	Booster relay for current up to 5A

CD1

9. 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)
BK	Case & Ring in AISI 316 SS (L0)
BL	Case & Ring in AISI 316 SS (L1)
BM	Case & Ring in AISI 316 SS (L2)
EM	Dampening screw, Monel
EN	Dampening screw, AISI 316 SS
GL	AISI 316 SS movement
GM	Dampened movement
G6	6 pin, M20x1.5mm connector
G7	Earth terminal
MN	Monel wetted parts
RA	Rubber parts, Viton
RW	Vent plug ON/OFF type
TA	5 - point calibration certificate
TC	Material test certificate 3.1
TM	Material test certificate 2.2
TN	Tested to NACE standards
TO	Certification for Oxygen service
XF	SS tag plate, AISI 304 SS
XG	SS tag plate, AISI 316 SS
XR	Custom designed dial
XT	Dial tag marking

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