

ELECTRIC CONTACT TYPE PRESSURE GAUGE

Special Features:

- Stainless Steel Case & Measuring System
- Socket & Case Welded
- Dry Or Liquid Filled
- Standard Followed In General EN 837-1

Applications:

Food & beverage, pharmaceutical, cryogenics, chemical & petrochemical industries, conventional & nuclear Power plants, pumps, hydro-cleaning machines, presses, engine Compressors, turbines, diesel engines & refrigerating plants



Specifications:

Standard Version: 100mm, 150mm

Accuracy	: $\pm 1.0\%$ of F.S.
Ambient temperature	: $- 20^{\circ}\text{C}$ to $+ 65^{\circ}\text{C}$
Process temperature	: Max 100°C
Electric Wiring	: Junction Box
Contact Setting	: Over on arc of 270° through a knob placed on front of lens
Operating pressure	: 75% of the Scale Value
Over pressure limit	: Not Suitable

Case	: AISI 304 SS
Ring	: AISI 304 SS, Bayonet Type
Bourdon	: AISI 316L SS
Socket	: AISI 316L SS (Directly Welded to Case)
Movement	: AISI 304 SS
Joints	: Tig Argon Arc Welding

Protection	: IP 65
Dial	: Aluminium, black graduation on white background
Pointer	: Aluminium, black coloured micrometer zero adjustable
Window	: Polycarbonate Dome
Contact	: Silver-Nicke
Blow off Disc	: Neoprene
Gasket	: Neoprene

Filled Version (OPTION ZZ)

Accuracy	: $\pm 1.6\%$ of F.S.
Ambient temperature	: Maximum 65°C
Process temperature	: $+15^{\circ}\text{C}$ / 65°C
Window	: Acrylic
Dampening Liquids	: Dielectric Oil
Other Features	: Refer Specification of Standard Version

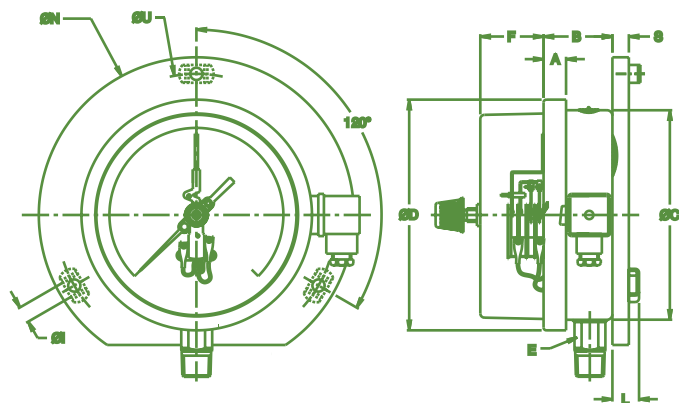
Dry But Fillable Version

Option Code	: Fillable Dampening Liquid
ZY	: Fillable Dielectric Oil

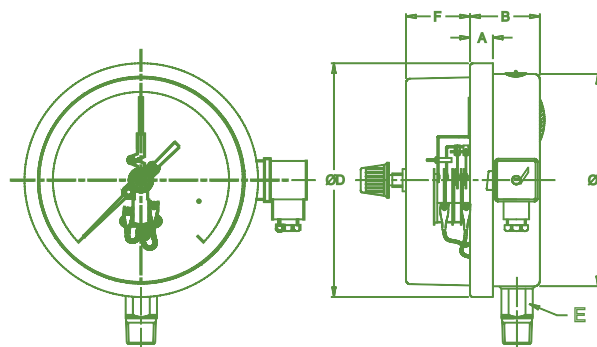
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DIMENSIONS - STANDARD VERSION

⚙️ Type 1

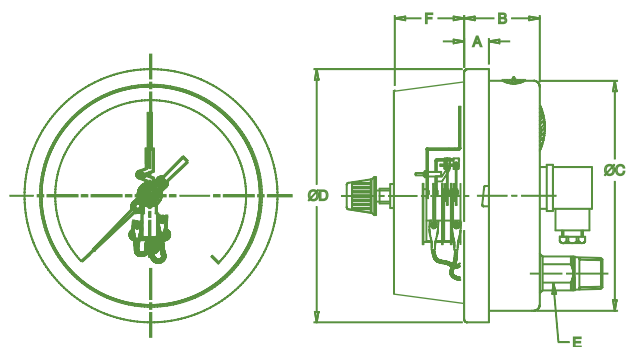


⚙️ Type 2

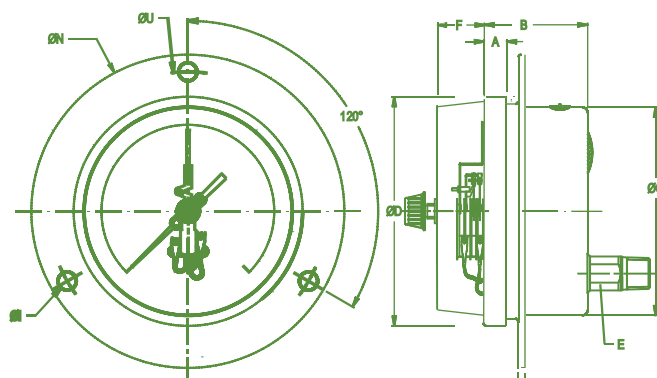


NS	A	B	ØC	ØD	E	ØI	ØN	ØU	L	S
100	12.5	48	100	110	22	43.5	6	14.5	6	134
150	15	49	149	161	22	43.5	5.5	15	6	186

⚙️ Type 3



⚙️ Type 4

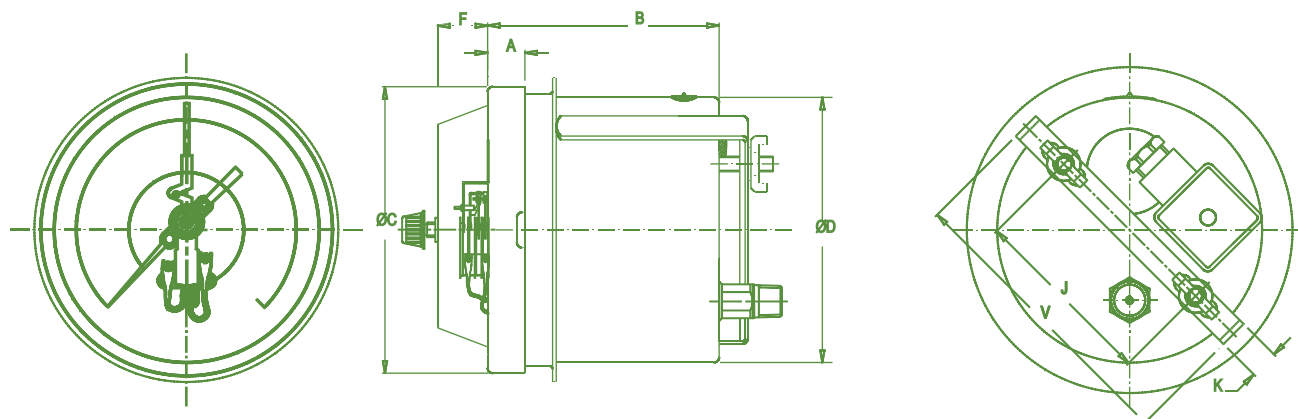


NS	A	B	ØC	ØD	E	F
100	12.5	48	100	110	22	43.5
150	15	49	149	161	22	43.5

NS	A	B	ØC	ØD	E	F	ØI	ØN	ØC
100	12.5	48	110	100	22	43.5	6	134	118
150	15	49	161	149	22	43.5	6	186	168

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⚙️ Type 5



NS	A	B	ØC	ØD	E	F	J	K	V
100	12.5	48	100	110	A/F 21	6	134	118	106
150	15	49	149	161	A/F 22	6	186	168	158

RANGE TABLE

Note : Omicron offers National / International Scales like kPa, MPa, bar, psi, kg/cm & Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. 2 Following are the example tables for kg/cm & psi scales

⚙️ Pressure:

SINGLE SCALE - (kg/cm² or bar)

RANGE	RANGE	RANGE	RANGE	RANGE
0/1.6	0/10	0/60	0/400	0/1000
0/2.5	0/16	0/100	0/600	0/1400
0/4	0/25	0/160		0/1600
0/6	0/40	0/250		

DUAL SCALE (PSI with kg/cm²) or PSI with bar

RANGE (PSI)	RANGE (kg/cm ²)	RANGE (PSI)	RANGE (kg/cm ²)	RANGE (PSI)	RANGE (kg/cm ²)
0/25	0/1.6	-0/400	0/28	0/4000	0/280
0/35	0/2.5	0/500	0/35	0/5000	0/350
0/60	0/4	0/600	0/40	0/6000	0/400
0/100	0/7	0/1000	0/70	0/10000	0/700
0/150	0/10	0/1500	0/100	0/15000	0/1000
0/200	0/14	0/2000	0/140	0/20000	0/1400
0/300	0/20	0/3000	0/200	0/23000	0/1600
0/2.5	0/16	0/100	0/600	0/1400	0/1400

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Vacuum & Compound:

DUAL SCALE (inHg with PSI & mmHg with kg/cm²)

RANGE inHg with PSI	RANGE -mmHg with kg/cm ²	RANGE inHg with PSI	RANGE mmHg with kg/cm ²	RANGE inHg with PSI	RANGE mmHg with kg/cm ²
- 30/15	- 760/1	- 30/100	- 760/6	- 30/300	- 760/20
- 30/30	- 760/2	- 30/150	- 760/9	- 30/350	- 760/24
- 30/60	- 760/3	- 30/200	- 760/15		

SINGLE SCALE (kg/cm²)

RANGE	RANGE	RANGE	RANGE
- 1/0.6	- 1/3	- 1/9	- 1/24
- 1/1.5	- 1/5	- 1/15	

ACCESSORIES †

EC	GAUGE COCK	ED	GAUGE SAVER	EG	SNUBBER
DX	DIAPHRAGM SEAL	*	NEEDLE VALVE	EH	SIPHON

ELECTRIC CONTACT TYPE PRESSURE GAUGE

HOW TO ORDER

Basic Model:

PGEC

CODE	F	H	F
Nominal Size(mm)	100 mm	150 mm	

Type Of Mounting:

2

1. Wall / Surface / Projection Mounting With Bottom Entry
2. Direct Bottom Entry
3. Direct Lower Back Entry
4. Direct Center Back Entry
5. Flush Panel Back Entry with Front Flange
6. Back Entry with Mounting Bracket

Gauge Connection:

03B

03B	1/8" BSP (M)	06BT	1/4" BSPT (M)	15N	1/2" NPT (M) STANDARD	M16	M 16 X 1.5 (M)
03N	1/8" NPT (M)	10B	3/8" BSP (M) STANDARD	15B	1/2" BSP (M) STANDARD	M20	M 20 X 1.5 (M)
06B	1/4" BSP (M)	10BT	3/8" BSPT (M)	15BT	1/2" BSPT (M)		
06N	1/4" NPT (M)	10N	3/8" NPT (M)	M12	M 12 X 1 (M)		

Note : : Connections like PT/PF/Flaired /UNF/G/R etc.can be provided on request.
Non standard connections can be provided through adaptors.

Range:

0-600
mmWC

Refer tables

Options:

PW

FOR NON STANDARD PRODUCTS/OPTIONAL ITEMS, PLEASE CONTACT FACTORY FOR DELIVERY AND MINIMUM QUANTITY OF ORDER

TI	AISI 316 CASE & BEZEL	TF	TESTED TO NACE STANDARDS
PS	FIVE POINT CALIBRATION CERTIFICATE	RH	CUSTOM DESIGNED DIAL
PW	INTEGRAL DAMPENING SCREW IN AISI 316 SS	QB	DAMPENING SCREW IN AISI 316 SS
ZY	CUSTOM DESIGNED DIAL	SA	INTERNAL OVER PRESSURE STOP
SX	PLEXI GLASS	SB	INTERNAL VACUUM STOPS
SW	SHATTERPROOF / SAFETY GLASS	ZF	CASE WITH BALL BURNISHING FINISH
TB	HELIUM LEAK TEST	ZK	CASE WITH BUFFING FINISHING

Electric Contacts

PW

A) MAGNETIC SNAP ACTION TYPE (230 V AC, 1 Amp.) B) INDUCTIVE TYPE (220 V AC, 0.4 Amp.) (48 V DC, 0.5 Amp.)

RJ	Single; NORMALLY CLOSED	YW	Single; NORMALLY OPEN
RK	Double; NORMALLY CLOSED + NORMALLY OPEN	YV	Single; NORMALLY CLOSED
RL	Single; NORMALLY OPEN	YX	Double; NORMALLY CLOSED + NORMALLY OPEN
RM	Double; NORMALLY OPEN + NORMALLY CLOSED	YY	Double; NORMALLY OPEN
RN	Double; NORMALLY CLOSED	YZ	Double; NORMALLY CLOSED
RO	Double; NORMALLY OPEN	ZA	Double; NORMALLY OPEN + NORMALLY CLOSED
RU	BOOSTER FOR CURRENT UPTO 5 Amp		
RA	SPDT		
RC	DPDT		

Ordering Example : PGEC - F - 2 - 03B - 0/10kg/cm - RH

Note : Due to continuous improvement, the specification may vary from time to time.