

DIFFERENTIAL PRESSURE GAUGE

BELOW TYPE

Effex
INDUSTRIALSOLUTIONS

MODEL CODE : EAQ

SPECIAL FEATURES

- C E & ATEX APPROVED ELECTRICAL CONTACTS
- CASE & MEASURING SYSTEM IN SS
- STATIC PRESSURE UP TO 200 kg/cm² (ON REQUEST)
- SINGLE SIDE STATIC PRESSURE SUSTAINABLE
- DRY OR LIQUID FILLED
- ACCURACY UPTO 1.6% F. S.
- STANDARD FOLLOWED IN GENERAL EN 837 - 3

APPLICATIONS

CHEMICALS / REFINERY / NUCLEAR / AEROSPACE / FERTILIZER
/ PETROCHEMICALS / PHARMACEUTICAL / POWER / CEMENT / SUGAR /
FOOD & BEVERAGES / PULP / PAPER & ALLIED PROCESS INDUSTRIES.

SPECIFICATIONS

STANDARD VERSION : 100 mm & 150 mm.

Accuracy	: ±1.6% of F. S.
Ambient temperature	: - 25°C to + 65°C
Process temperature	: Max 100°C
Static pressure (On request)	: 10 kg/cm ² up to ranges 600 mmWC
	: 40 kg/cm ² for ranges 1000 mmWC to 2500 mmWC
	: 100 kg/cm ² for ranges 4000 mmWC & above

☞ Static Pressure up to 250 kg/cm² on request.

Case & Bezel	: AISI 304 SS (Bayonet Type)
Diaphragm	: AISI 316L SS (Double Diaphragm)
Nuts & Bolts	: AISI 304 SS
Process Connection	: Body : AISI 316 SS
	: Thread Connection : 1/4" NPT(F) x 2 Nos.
Movement	: AISI 304 SS With Internal Limits stops for Min. & Max. Pressure

Protection	: IP 65
Dial	: Aluminium, black graduation on white background
Pointer	: Aluminium, black coloured, Micrometer Zero Adjustable
Window	: Shatterproof / Safety Glass
Case Gasket	: Neoprene
Element Chamber Filling	: Silicon Oil (Others on request)
Diaphragm Sealing Gasket	: Viton
Scale Amplitude	: 180° to 270° (Depends on Range)

GLYCERINE FILLED VERSION (OPTION PY)

Accuracy	: ±1.6 % of F. S.
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Window	: Plexi Glass
Dampening Liquids	: Glycerin 99.7%
Other Features	: Refer Specification of Standard Version

ELECTRICAL CONTACTS - DRY VERSION

Accuracy	: ±2.5 % of F. S.
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Window	: Polycarbonate Dome
Dampening Liquids	: Dielectric Oi (Optional)
Electrical Contacts*	: Refer How to Order
Other Features	: Refer Specification of Standard Version.

* Please specify contact set points while ordering.

Temperature effect:

The variation of indication caused by effects of temperature is to be calculated by below formula;
which is to be added in the specified accuracy while measurement :-
Formula : $\pm 0.08 \times (t_2 - t_1) \% \text{ of F. S.}$
where t_1 = reference temperature (+20°C) and t_2 = ambient temperature in °C.

Note : The addition of mechanical electric contacts affects the accuracy of instruments such that 1% becomes 1.5%, 1.6% becomes 2.4% etc.

(Add the 50% of accuracy; If the contact is of the magnetically assisted type, this value can't be added within the ±5% of setting point.)



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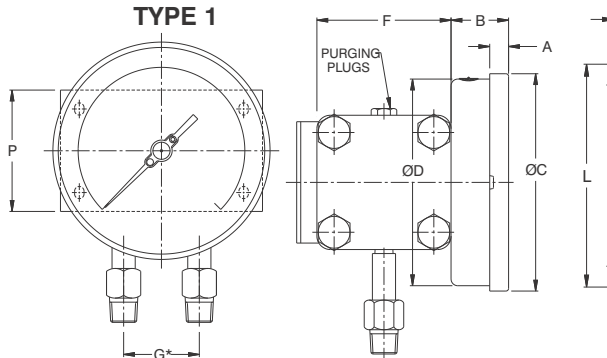
DIFFERENTIAL PRESSURE GAUGE

BELOW TYPE

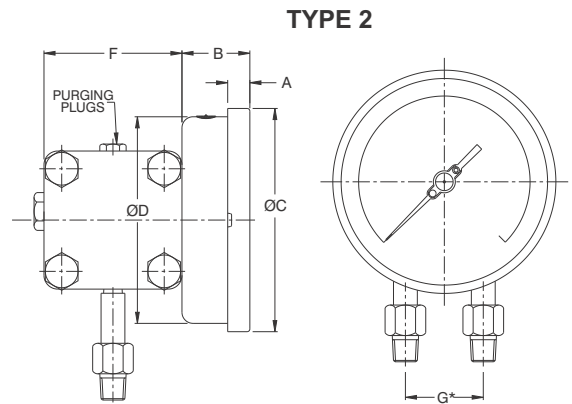


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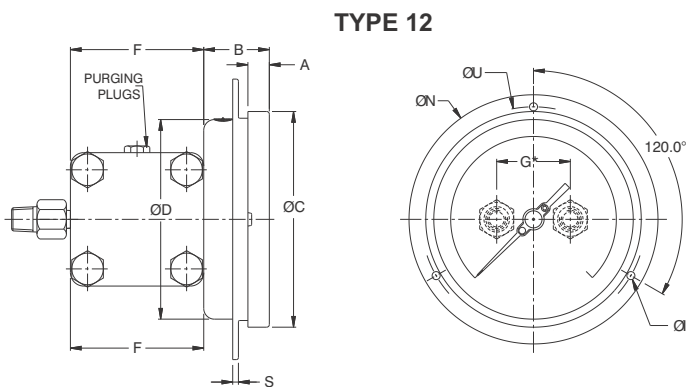
DIMENSIONS - STANDARD VERSION



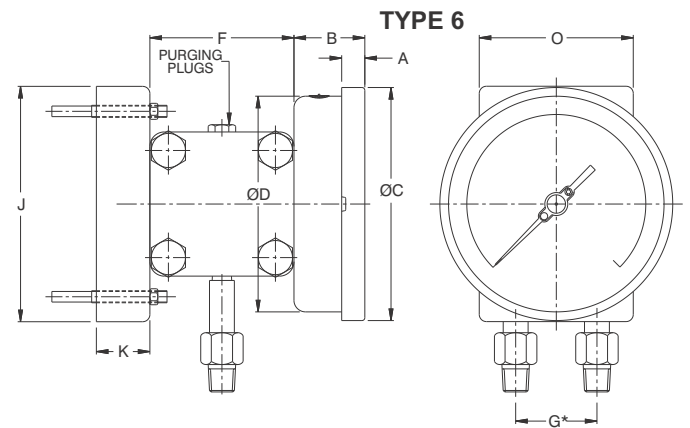
NS	A	B	ØC	ØD	F	G*	M	L	P	Weight in gram (With Box)
100	12.5	47	111	100	99	54	15	150	90	6450.0
150	15	49	161	149	99	54	15	150	90	6750.0



NS	A	B	ØC	ØD	F	G*	Weight in gram (With Box)
100	12.5	47	111	100	99	54	6150.0
150	15	49	161	149	99	54	6400.0



NS	A	B	ØC	ØD	S	ØI	ØN	ØU	F	G*	Weight in gram (With Box)
100	12.5	47	111	100	1	6	134	118	99	54	6250.0
150	15	49	161	149	1	6	186	168	99	54	6500.0



NS	A	B	ØC	ØD	F	G*	J	K	O	Weight in gram (With Box)
100	12.5	47	111	100	99	54	161	39	101	7250.0
150	15	49	161	149	99	54	161	39	101	7450.0

Notes : • Drawings are not to scale. • All Dimensions are in mm. • NS = Nominal Size. • *Connections shown in drawings are optional.

APPLICATIONS

Note : Effex offers National / International Scales like kPa, MPa, bar, psi, kg/cm², mbar, MWC, inWC & Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. Scales for floor are also available.

Following are the example tables for kg/cm² & mmWC

PRESSURE RANGE (Single Scale)

Low Pressure			High Pressure		
mmWC	mmWC	mmWC	kg/cm ²	kg/cm ²	kg/cm ²
0/250*	0/1000	0/4000	0/1	0/2.5	0/10
0/400*	0/1600	0/6000	0/1.6	0/4	0/16
0/600	0/2500		0/2	0/6	0/25

* Accuracy shall be ±2.5% of F. S. for ascending readings.

Note : Other Scale are available on customer request.

ACCESSORIES (Refer Datasheet for complete specifications)

MANIFOLDS

* Refer catalogue for valves and manifolds

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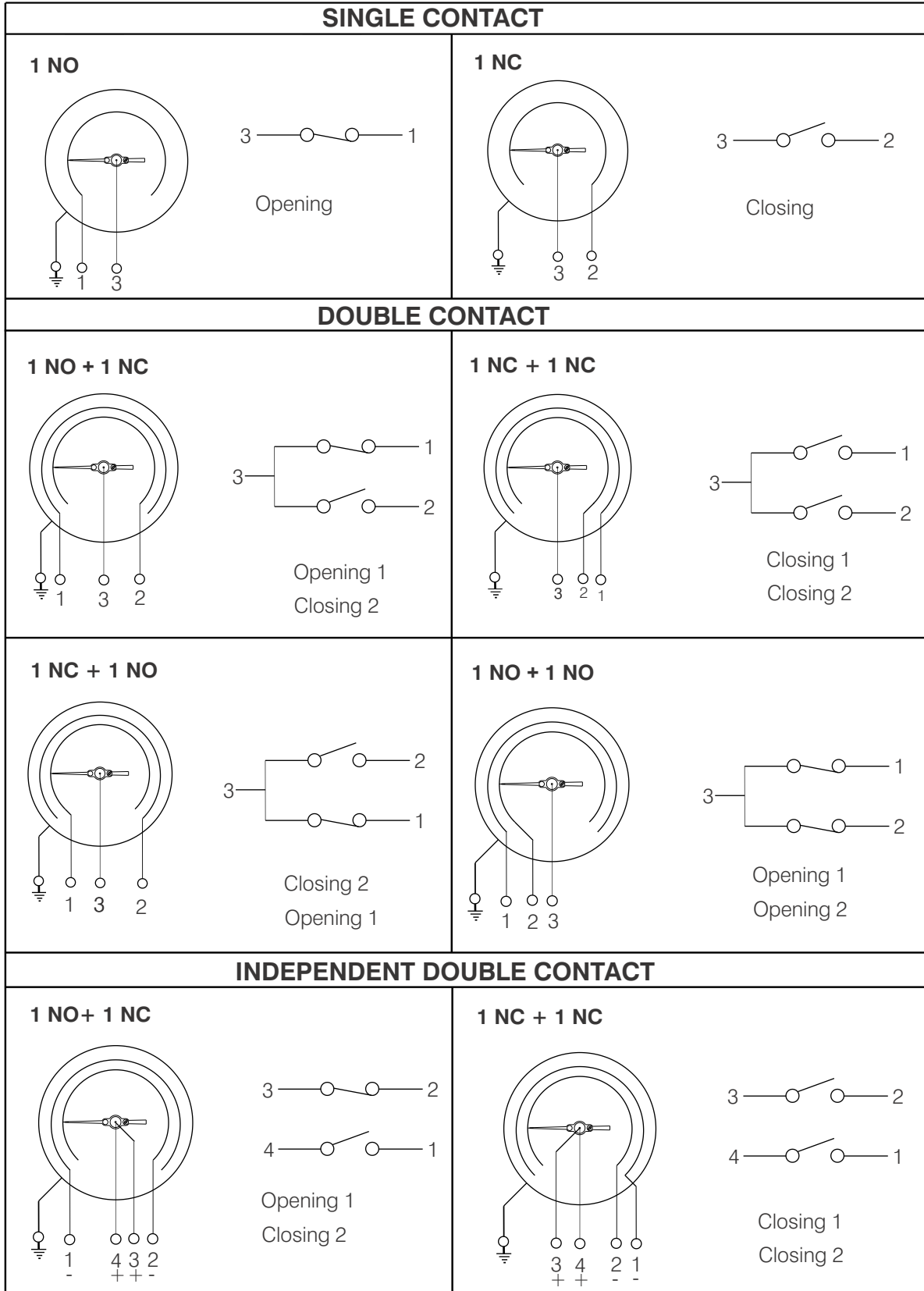
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WIRING DIAGRAMS FOR ELECTRIC CONTACTS



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