

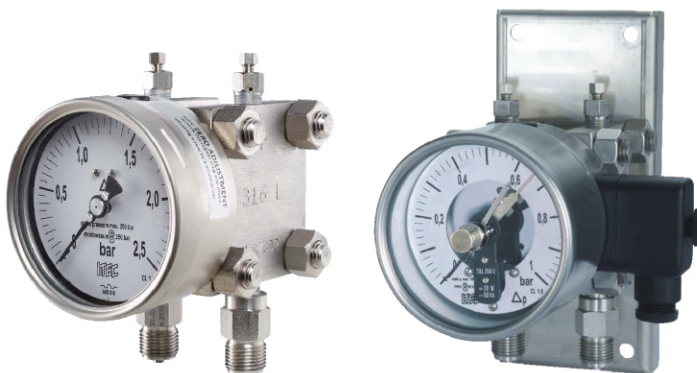
FEATURES

- Single side static sustainable
- Static pressure 400 bar max.
- External Zero adjustment
- Electric contact version
- Dry / liquid filled
- ATEX certified

APPLICATION

- Liquid & gaseous media
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical
- Level measurement in closed tank
- Filter monitoring

Double Diaphragm (Old Model code : DP 800 & DP 800 CE)



STANDARD PARAMETERS

Accuracy ¹	: CL 1.6 (AISI 316L SS / Hastelloy C276) : CL 2.5 (Monel 400)
Ambient temperature	: -40...+60°C (without dampening liquid) : -20...+60°C (with dampening liquid)
Service temperature	: 100°C max.
Static pressure limits (on either side)	: 40 bar / 100 bar / 250 bar / 400 bar
Over-pressure safety	: 400 bar for ranges 0...0.4 bar up to 0...40 bar
Zero shift	: Max. $\pm 2\%$ at 20°C and max. static pressure

MATERIAL OF CONSTRUCTION

Sensing element	: Double diaphragm, Internal stop without o-ring : ≤ 16 bar - AISI 316L SS, > 16 bar Inconel 718
Case & Ring material	: AISI 316 SS (Bayonet type)
Diaphragm	: AISI 316L SS
Chamber	: AISI 316L SS
Fastener	: AISI 304 SS (PN 100 bar max.) : Alloy steel zinc flake coated, RoHS complaint (PN 250 bar and PN 400 bar)
Movement mechanism	: Stainless Steel with ball bearing
Transmission chamber dampening liquid	: Silicon oil
Chamber sealing gaskets	: Viton
Dial	: Aluminum, black graduation on white background
Pointer	: Micro-zero adjustable, aluminum, black powder coated
Gaskets & filling plug	: NBR
Window	: Shatterproof Safety Glass, 4mm thickness
Purging plugs	: 2 x 1/4" NPT (M), AISI 316L SS

STANDARD SPECIFICATIONS

Dial size	: DN100 / DN160
Range	: 0...60 mbar (gauge body DN 140) : 0...100 to 0... 250 mbar (gauge body DN 100) : 0...0.4 to 0...40 bar (gauge body DN 88)
Mounting pattern	: Direct, Bottom connection
Process connection	: 1/4" NPT (F) x 2 Nos.
Ingress protection	: IP 65 - EN 60529 / IEC 529
Execution	: Dry

TEMPERATURE EFFECT

When temperature of the measuring system deviates from reference temperature (+20°C) max error $\pm 0.6\%$ / 10K of true scale value.

NOTES

1. At 20°C and Zero static pressure.

REFERENCE



EN 837-3

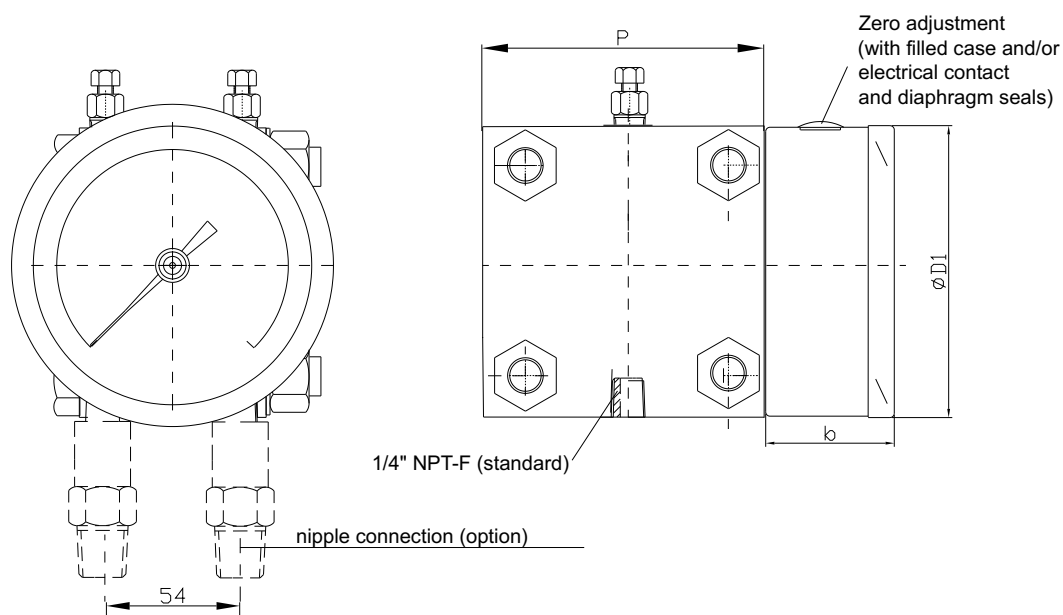
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STANDARD SPECIFICATIONS : DAMPENING LIQUID FILLED, GLYCERIN OR SILICON OIL

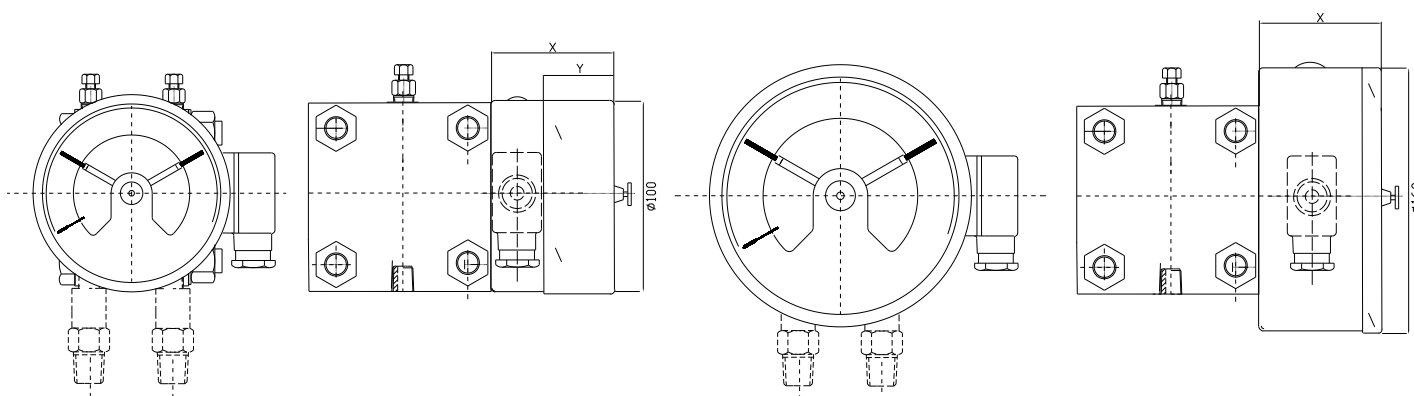
Accuracy	:	CL 2.5
Window	:	Shatterproof safety glass
Dampening liquid	:	Glycerin 99.7% / Silicon oil 47V50

DIMENSIONAL DRAWING

Type B0



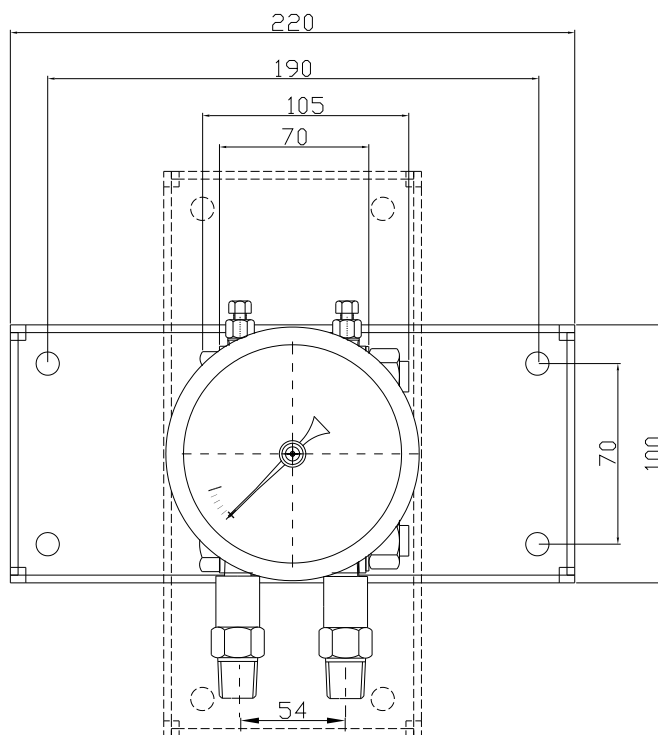
DN	Range mbar	P□ (PN40/100)	P□ (PN250)	P□ (PN400)	b	D1
100	≤160	140	-	-	51	100
100	250	100	100	-	51	100
100	≥400	88	88	100	51	100
160	≤160	140	-	-	51	160
160	250	100	100	-	51	160
160	≥400	88	88	100	51	160



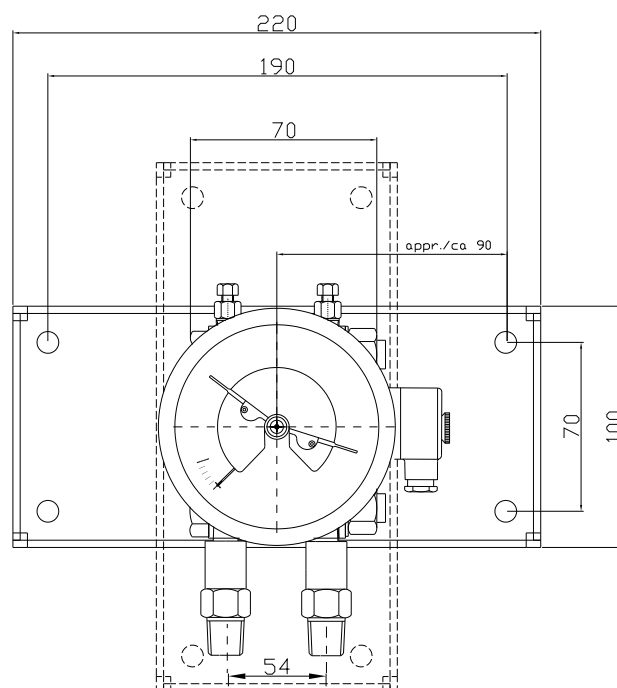
DN	Type of contact	X	Y
100	Single or double contact / SPDT	100	60
160	DPDT	110	-
160	Single or double contact / SPDT	102	-

All dimensions are in mm.

Type B2



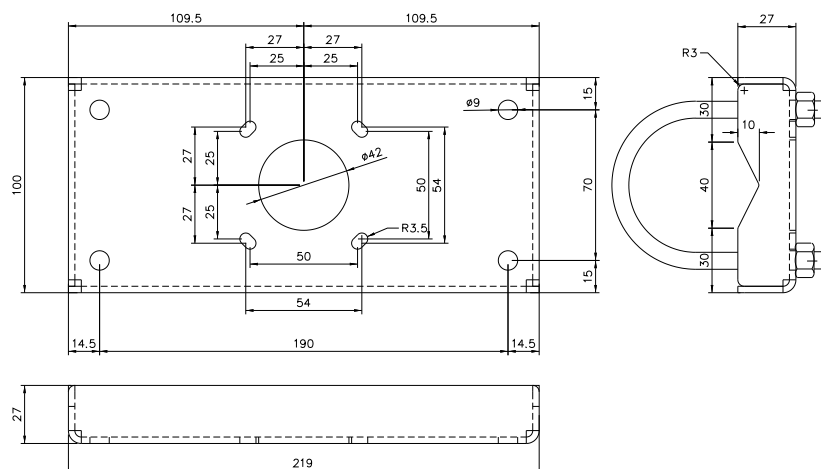
**Type B2
With Electric Contact**



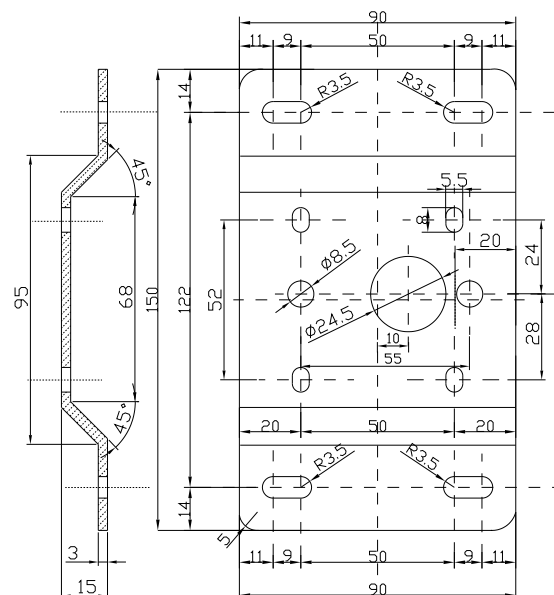
All dimensions are in mm.

DIMENSIONAL DRAWING

2" pipe bracket



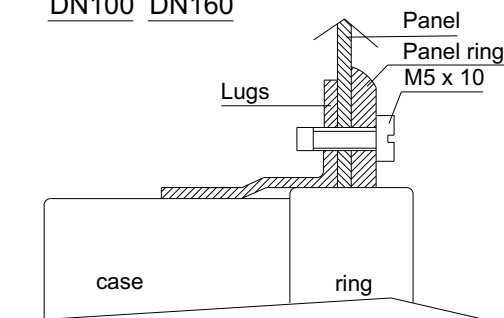
Back flange surface mounting



Panel Mounting (*)

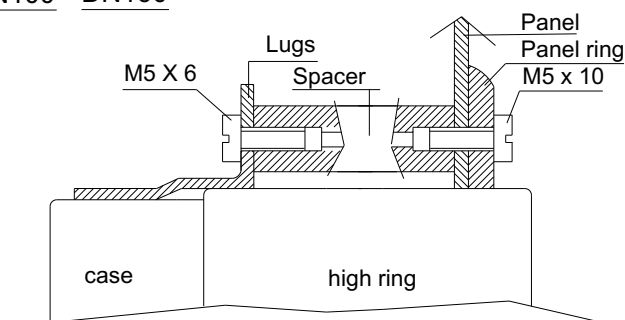
Panel Mounting with electrical contacts (*)

DN100 DN160



The assembly consist of:
Panel ring
4 screws M5

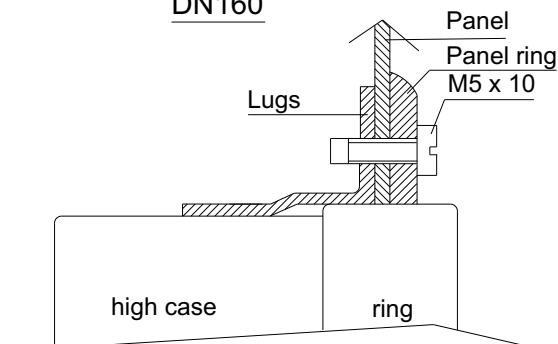
DN100 DN160



The assembly consist of:
Panel ring
4 spacers
8 screws M5

(*) Panel Cut-out : 105 mm for DN100 & 165 mm for DN160

DN160

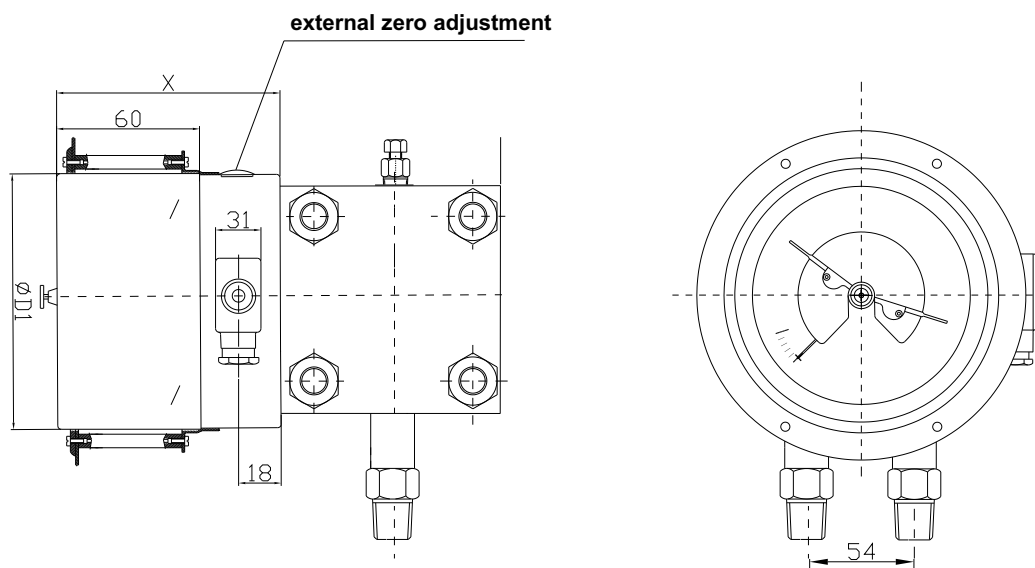


The assembly consist of:
Panel ring
4 screws M5

All dimensions are in mm.

DIMENSIONAL DRAWING

Type B3



All dimensions are in mm.

STANDARD SPECIFICATIONS : ELECTRIC CONTACT VERSION

Accuracy	:	CL 2.5
Window	:	Shatterproof Safety Glass, 4mm thickness
Switch	:	1NO; Make contact
Dampening liquid	:	Dielectric oil (Optional)

ELECTRIC CONTACT DETAILS

Switch type	Contacts	Action	Rating	Code
Normally closed (1NC)	Single	Break contact	230VAC/1A; 48VDC/0.5A	CD1
Normally open (1NO)	Single	Make contact	230VAC/1A; 48VDC/0.5A	CD2
Normally closed (2NC)	Double	Break contact	230VAC/1A; 48VDC/0.5A	CD3
Normally open (2NO)	Double	Make contact	230VAC/1A; 48VDC/0.5A	CD4
Normally closed + Normally open (1NC+1NO)	Double	Break contact + Make contact	230VAC/1A; 48VDC/0.5A	CD5
Normally open + Normally closed (1NO+1NC)	Double	Make contact + Brake contact	230VAC/1A; 48VDC/0.5A	CD6
SPDT	Single		230VAC/1A; 48VDC/0.5A	CD7
DPDT	Double		230VAC/1A; 48VDC/0.5A	CD8
Normally closed (1NC)	Single	Break contact	220VAC/0.4A	CI1
Normally open (1NO)	Single	Make contact	220VAC/0.4A	CI2
Normally closed (2NC)	Double	Break contact	220VAC/0.4A	CI3
Normally open (2NO)	Double	Make contact	220VAC/0.4A	CI4
Normally closed + Normally open (1NC+1NO)	Double	Break contact + Make contact	220VAC/0.4A	CI5
Normally open + Normally closed (1NO+1NC)	Double	Make contact + Brake contact	220VAC/0.4A	CI6

NOTES

- Codes starts with "CD" denomination are magnetic contacts and "CI" are Inductive contacts.
- Inductive contacts are ATEX approved.

ORDERING CODES

1. DIAL SIZE		04	8. SWITCH CATEGORY		XX
04	100 mm / 4"		RS	Precision contacts (magnetic)	
06	160 mm / 6"		RT	ATEX / CE approved contacts (inductive)	
2. RANGE		XXX	9. ELECTRIC CONTACT		XX
XXX	Refer "Range Table"		CD1	Break contact (1NC)	
3. MOUNTING PATTERN		B0	CD2	Make contact (1NO)	
B0	Direct, Bottom connection		CD3	2 x Break contact (2NC)	
B1	Wall/Surface/Projection mounting, Bottom connection		CD4	2 x Make contact (2NO)	
B2	2" Pipe/Yoke mounting, Bottom connection		CD5	1 Break + 1 Make (1NC+1NO)	
B3	Panel/Front flange mounting, Bottom Connection		CD6	1 Make + 1 Break (1NO+1NC)	
4. PROCESS CONNECTION		02N	CD7	SPDT	
02N	1/4" NPT (F) x 2 Nos.		CD8	DPDT	
13B	3/8" BSP (M) x 2 Nos.		CI1	Break contact (1NC)	
14B	1/2" BSP (M) x 2 Nos.		CI2	Make contact (1NO)	
14M	M20 X 1.5 mm (M) x 2 Nos.		CI3	2 x Break contact (2NC)	
14N	1/2" NPT (M) x 2 Nos.		CI4	2 x Make contact (2NO)	
* Male threads through adaptors			CI5	1 Break + 1 Make (1NC+1NO)	
5. INGRESS PROTECTION		ER	CI6	1 Make + 1 Break (1NO+1NC)	
ER	IP 65		CI9	Booster relay for current up to 5A	
6. EXECUTION		EA	10. OTHER OPTIONS		XX
EA	Dry		DM	Monel diaphragm	
EB	Dry but fillable		DO	Hastelloy C-276 diaphragm	
EF	Dry but fillable, dielectric oil ²		GW	Maximum reading pointer	
EK	Dampening liquid, dielectric oil ²		GZ	External zero adjustment (Standard for filled versions)	
7. STATIC PRESSURE		040	NM	Monel chambers	
040	40 bar		NO	Hastelloy C-276 chambers	
100	100 bar		OF	Food grade oil filled chamber	
250	250 bar		TA	5 - point calibration certificate	
400	400 bar		TC	Material test certificate 3.1	
			TM	Material test certificate 2.2	
			TN	Tested to NACE standards	
			TO	Certificate of Oxygen service	
			TX	ATEX certificate	
			XF	SS tag plate	
			XR	Custom designed dial	
			XT	Dial tag marking	

Ordering Example : P301-04-XXX-B0-02N-ER-EA-040

COMPATIBLE ACCESSORIES

Diaphragm seal
5 Valve Manifolds
3 Valve manifolds

NOTES

- For other connections, please contact factory.
- Rubber parts shall be in Viton.