

## Description & Features

- Ranges 0-25 mbar up to 0-25 bar
- Scale angle 270°
- Accuracy class 1.6%



## Specifications

### Dial Size

4"(100mm), 6"(150mm)  
White aluminum with black figures

### Pressure range

0.36psi upto 360psi (25mbar upto 25bar)

### Case

304 stainless steel case and ring - bayonet bezel

### Pressure element

AISI 316Ti 1.4571 st. st. independent diaphragms

### Pointer

Aluminum with micrometer adjustable

### Differential cell

material:  
AISI 316L stainless steel;  
Monel (Code: SD);  
Hastelloy C276 (Code: SE)

Sizes:  
160mbar-25bar, mm 100×100  
25mbar-100mbar, mm 150×150

### Window

Polycarbonate

### Differential element filling liquid

silicone fluid (standard)  
food compatible fluid (on request)

### Differential cell gaskets

nitril rubber (NBR), standard  
FPM (viton) on request

### Movement

Stainless Steel

### Torsion shaft

Stainless Steel

### Connection

Standard 1/4"NPT female

### Unit of pressure

mbar, bar, kPa, kg/cm and psi for single  
or double scale(on request)

### Scale angle

270° (scale angle is 180° with ranges 0/25mbar)

### Static pressure

for all scale range, apart from the pressure  
entry in one or both connections:  
Static pressure 100bar for range: 160mbar-25bar  
Static pressure 25bar for range: 25mbar-100mbar  
Static pressure 100bar for range: 25mbar-100mbar  
(on request-option SY)  
Static pressure 200bar for range: 160mbar-25bar  
(on request-option SX)

### Ambient Temperature

-4°F to 140°F (-20°C to 60°C)

### Working Temperature

Maximum 120°C/248°F

### Protection

IP 55

### Thermal drift

With reference to the ambient temperature of 20°C,  
thermal drift affects the instrument accuracy as  
±0.6% every 10°C of variations.

### Accuracy

Class 1.6 (±1.6% of full scale deflection)

### Transparente

Note 1: accuracy indicated on the pressure gauge  
does not consider the interference of an  
eventually applied electric contact.

Note 2: Standard high pressure port is on the right

Note 3: diaphragm seal affects the accuracy of the  
instruments according to DS series Catalog  
according to working temperature.

See DS series Diaphragm Seals page 25

## Order Information

Series/ Dial Size/ Case Materials/ Wetted Parts/ Configuration/ Connection Size/ Thread/ Range/ Option

Ordering Code PDD Series									
Field No.	Code	Specifications							
1.	PDD	<b>Series</b>							
2.	40	<b>Dial Size</b> 4" (100mm) 6" (150mm)							
3.	T	<b>Case Material</b> AISI 304 stainless steel							
	S	AISI 316 stainless steel							
4.	S	<b>Wetted Parts Material</b> AISI 316 stainless steel							
	L	AISI 316L stainless steel							
	H	Hastelloy C							
	M	Monel							
	Z	Special request							
5.	A	<b>Configuration</b> Direct mounting (Bottom)							
	B	Surface mounting with clamp (Bottom)							
	C	Back panel flush mounting (Bottom)							
	D	2" pipe mounting (Bottom)							
6.	4	<b>Process Connection Size</b> 1/4"							
	2	1/2"							
	Z	Special request							
7.	NF	<b>Process Connection Thread</b> NPT Female							
	GF	G Female							
	NM	NPT Male							
	GM	G Male							
8.	ZZ	<b>Range (XXXX)</b>							
	mbar	0/25	0/40	0/60	0/100	0/160	0/250	0/400	0/600
	bar	0/1	0/1.6	0/2.5	0/4	0/6	0/10	0/16	0/25
9.	<b>Options</b>								
	S3	316 case and ring							
	SV	Laminated safety glass							
	SQ	Silicone fluid							
	SF	Fluoride fluid for cryogenic applications (-50°C...60°C)							
	SZ	Protection degree IP 55							
	SM	Maximum adjustable pointer							
	10	Accuracy 1.0							
	SS	Oxygen clean (High pressure port is on the left)							
	SL	High pressure port is on the left (Non oxygen clean request)							
	SC	Surface mounting with clamp							
	SH	Back panel flush mounting							
	SX	Static pressure 250 bar for ranges included between 100 mbar and 25 bar							
	SY	Static pressure 400 bar for ranges included between 100 mbar and 25 bar							
	SK	Static pressure 100 bar for ranges included between 25 mbar and 100 mbar							
	SD	Exotic materials diaphragm,monel							
	SE	Exotic materials diaphragm,hastelloy C276							
	SB	Monel wetted parts minimum pressure range available 0...600 mbar on 180° or ranges included between 100 mbar and 25 bar							
	SG	Monel wetted parts minimum pressure range available 0...60 mbar on 180° for ranges included between 25 mbar and 100 mbar							
	SA	Hastelloy C276 wetted parts minimum pressure range available 0...600 mbar on 180° for ranges included between 100 mbar and 25 bar							
	SJ	Hastelloy C276 wetted parts minimum pressure range available 0...60 mbar on 180° for ranges included between 25 mbar and 100 mbar							
	ZZ	Other connection size available							

**Option 1**

Maximum adjustable pointer  
 Laminated Safety Glass  
 Protection degree IP65  
 Oxygen cleaning  
 Silicone fluid  
 Accuracy 1.0%  
 2" pipe mounting  
 Surface mounting with clamp  
 Back panel flush Mounting  
 316 case and ring  
 200bar static pressure  
 Monel 400 wetted parts  
 Hastelloy C276 wetted parts  
 Static pressure 100 bar for range 25 mbar-100mbar  
 Other connection size available

**Option 2**

Diaphragm seals(see DS series)  
 with stainless steel or exotic material diaphragm, with an appropriate bigger diameter, are applicable to instruments with ranges included between 60 mbar and 25 bar; in this case the instrument can be identified by the number if the chosen model, adding the reference of the suitable diaphragm seal among those of DS series.

**Electric contact(see ECS series)**

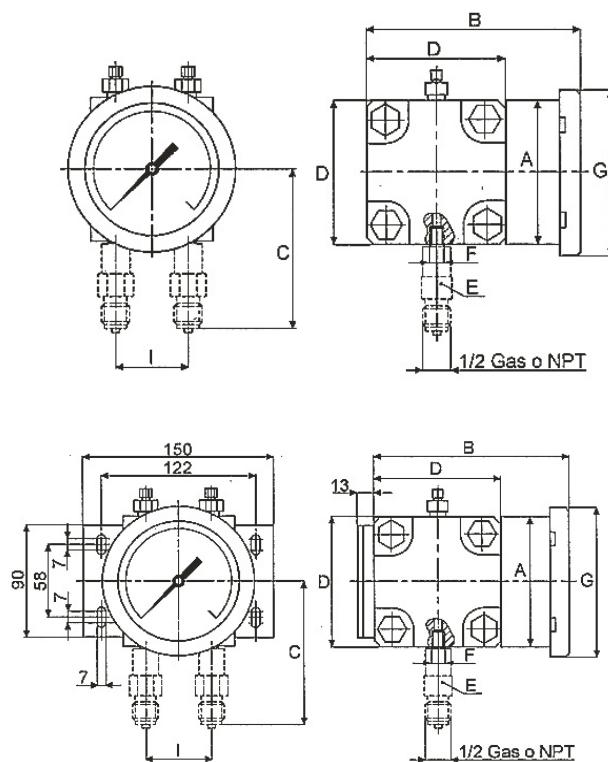
the instrument can be identified by the number if the chosen model, adding the reference of the switching action as shown in table of ECS series. Differential pressure gauges equipped with electric contacts are available in dry execution only.

**Accessories(see W series)**  
 manifold valve.

\*\* The table shows the static pressure values apart from the pressure entry in one or both connections, related range.

Range	Static pressure (bar)		Range	Static pressure (bar)	
	Standard	Special		Standard	Special
0-25 mbar	25	100	0-160 mbar	100	200
0-40 mbar	25	100	0-250 mbar	100	200
0-60 mbar	25	100	0-400 mbar	100	200
0-100 mbar	25	100	0-600 mbar	100	200

Range	Static pressure (bar)		Range	Static pressure (bar)	
	Standard	Special		Standard	Special
0-1 bar	100	200	0-6 bar	100	200
0-1.6 bar	100	200	0-10 bar	100	200
0-2.5 bar	100	200	0-16 bar	100	200
0-4 bar	100	200	0-25 bar	100	200

**Dimensions****PDD - A**

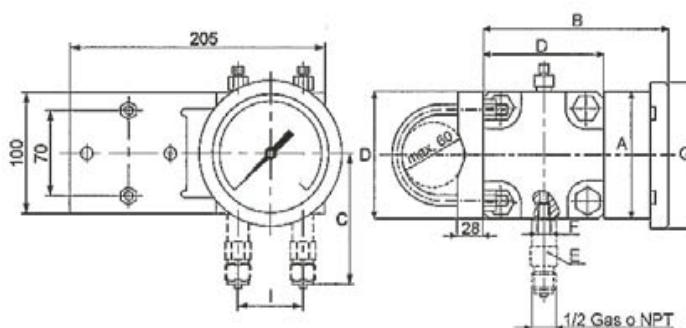
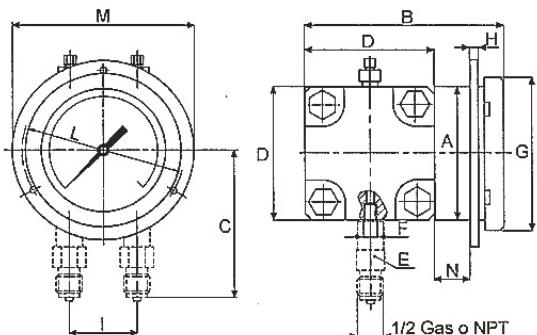
## Pressure gauge for Direct Mounting (Bottom)

Model	DN	A	B	C	D	E	F	G	I
(160mbar-25bar)	100	103	150	112	100	22	1/4	118	54
	150	150	150	112	100	22	1/4	166	54
(25mbar-100mbar)	100	103	200	137	150	22	1/4	118	54
	150	150	200	137	150	22	1/4	166	54

**PDD - B**

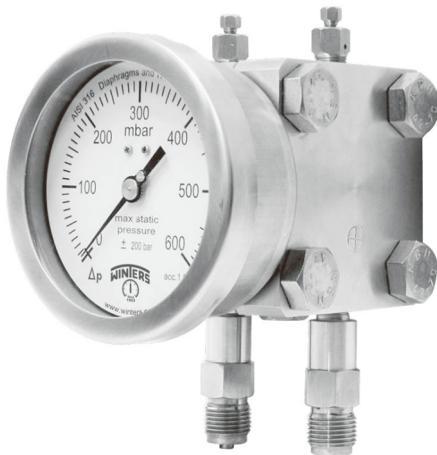
## Pressure gauge for surface mounting with clamp

Model	DN	A	B	C	D	E	F	G	I
(160mbar-25bar)	100	103	150	112	100	22	1/4	118	54
	150	150	150	112	100	22	1/4	166	54
(25mbar-100mbar)	100	103	200	137	150	22	1/4	118	54
	150	150	200	137	150	22	1/4	166	54



PDD-A

Pressure gauge for direct mounting



PDD-C

Pressure gauge for back panel flush mounting with 3 hole front flange



PDD - C

Pressure gauge for Back panel flush Mounting (Bottom)

Model	DN	A	B	C	D	E	F	G	H	I	L	M	N
(160mbar-25bar)	100	103	150	112	100	22	1/4	118	7	54	126	140	27
	150	150	150	112	100	22	1/4	166	7	54	178	192	27
(25mbar-100mbar)	100	103	200	137	150	22	1/4	118	7	54	126	140	27
	150	150	200	137	150	22	1/4	166	7	54	178	192	27

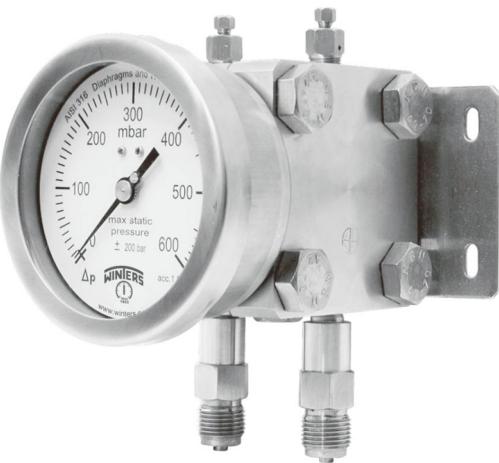
PDD - D

Pressure gauge for 2" pipe mounting

Model	DN	A	B	C	D	E	F	G	I
(160mbar-25bar)	100	103	150	112	100	22	1/4	118	54
	150	150	150	112	100	22	1/4	166	54
(25mbar-100mbar)	100	103	200	137	150	22	1/4	118	54
	150	150	200	137	150	22	1/4	166	54

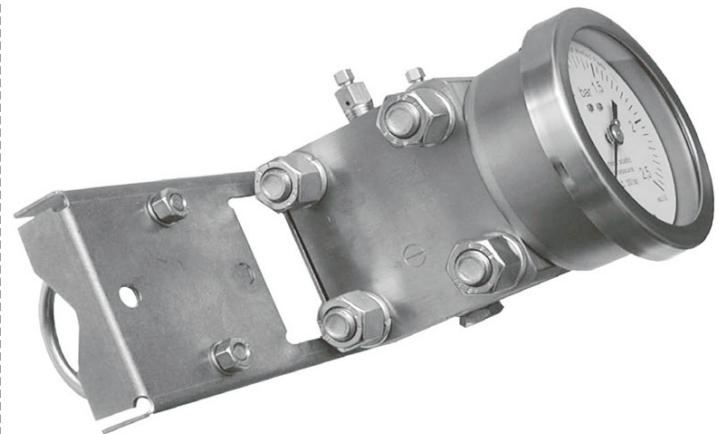
PDD-D

Pressure gauge for surface mounting with clamp



PDD-C

Pressure gauge for horizontal or vertical 2" pipe mounting with AISI 304 SS mounting brackets



Range: 160 mbar...25 bar



Range: 25 mbar...100 mbar



Range: 160 mbar...25 bar

