

## DSTC

All SS Diaphragm Sealed Pressure Gauge Sanitary Process Connection (TC END)

#### **Special Features**

- Stainless steel case & measuring system
- Laser welded diaphragm
- Dry or liquid filled
- Diaphragm seal integrally built with gauge.
- Reduces the effect of vibration / pulsation
- Polished diaphragm provides best hygiene factor
- Standard followed en 837-3

#### Application

- Especially designed for sanitary application
- Pharmaceutical
- Paint industry
- Bacterial & fungal accumulates which contaminate the process are eliminated
- The mirror finishing of the components assures the best hygiene.



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#### Specifications

Specifications							
Standard Version : 50 mm, 6	3 mm &	100mm					
Accuracy	:	±1.6% of F.S.					
Ambient temperature	:	10 to 60°C					
Process temperature	: 10 to 150°C						
Operating pressure range							
Over pressure limit	:	130% of Scale Value					
Case & Bezel	:	AISI 304 SS (Polished) (Bayonet Type)					
Socket	:	AISI 316 SS					
Bourdon	:	AISI 316L SS					
Movement	:	AISI 304 SS					
Body	:	AISI 316 SS					
Joints	:	Tig Argon Arc Welding					
Diaphragm	:	AISI 316L SS (Polished) Laser Welded					
Sanitary Seal	:	1-1⁄2" size in AISI 316 SS (Without clamp, Gasket & Mating part)					
Protection	:	IP 68					
Dial	: Aluminum, black graduation on white background						
Pointer	:	Aluminum, black coloured, fixed					
Window	:	Plexi Glass					
Gasket	:	Silicon rubber					
Filling Plug	:	Neoprene					
Sealing Fluid :		Glycerin					
Dry but fillable version (option	on FG)						
Fillable Dampening Liquid	:	Glycerine 99.7%					
Ambient Temperature	ature : Maximum 65°C						
Process Temperature	:	Maximum 65°C					
Other Features : Refer Specification of Standard Version							
Glycerine filled version (opti	on PY)						
Accuracy	:	±1.6% of F. S.					
Process Temperature	emperature : Maximum 65°C						
Ambient Temperature	:	Maximum 65°C					
Window	:	Plexi Glass					
Dampening Liquids	:	Glycerine 99.7%					
Other Fredures		Defen Crestification of Standard Version					

### Temperature effect :

:

Other Features

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 :  $\pm 0.08 \times (t2 - t1) \%$  of F. S. where t1 = reference temperature ( $\pm 20^{\circ}$ C) and t2 = ambient temperature in °C.

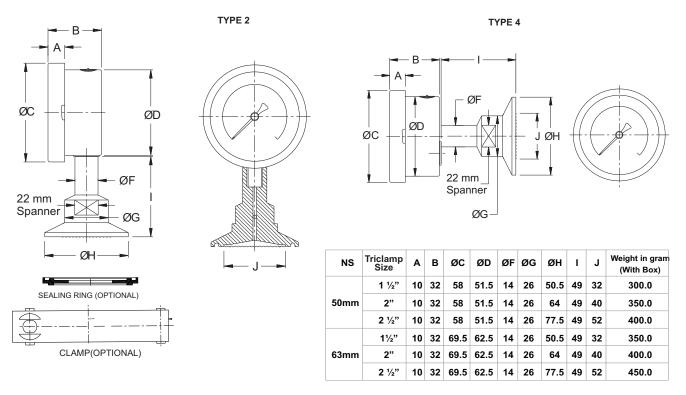
Refer Specification of Standard Version



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**Dimensions - Standard Version** 



Notes : • Drawings are not to scale. • All Dimensions are in mm. • NS = Nominal Size.

• For NS 100 Dimensions, Please Refer Catalogue of WP4 or WP6

### Range Table

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

Pressure range						
Range (psi with kg/cm)						
kg/cm²	psi	kg/cm²				
0/2	0/300	0/20				
0/4	0/400	0/28				
0/7	0/500	0/35				
0/10	0/600	0/40				
0/16						
	0/2 0/4 0/7 0/10	0/2 0/300   0/4 0/400   0/7 0/500   0/10 0/600				

Compound range

Range (mmHg with kg/cm <sup>2</sup> & inHg with psi)					
mmHg with kg/cm <sup>2</sup>	inHg with psi	mmHg with kg/cm <sup>2</sup>	inHg with psi		
-760/2	-30/ 30	-760/10	-30/ 150		
-760/4	-30/60	-760/14	-30/200		
-760/7	-30/100	-760/20	-30/300		



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How	To Order							Examp
Basic	Model							
Code								DST
Nomir	nal Size				20	25	40	x
Туре с	of Mounting				50 mm	63 mm	100 mm	^
2	Direct bottom entry		4	Direct center bac	k entry			Х
Sanita	<b>ry seal</b> (for 1" size sanitary seal, c	onsult factory	for drawing	g, price and deliver	y.)			_
40 50	1-1⁄2" Sanitary seal in AISI 316 SS 2" Sanitary seal in AISI 316 SS	63	2-1⁄2" Sanitary seal in AISI 316 SS				XX	
Body								
<b>S</b> 6	AISI 316 SS (Standard)		SL	AISI 316L SS				XX
Diaph	ragm							
SL	AISI 316L (Standard)							XX
Filling	g fluids							_
GF LP	Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) Liquid paraffin [10 to 200 °C / 50 to 392 °F]			Food grade oil [-	20 to 140°C	/ -4 to 284 ⁰F]		XX
Clamp	)							_
C4 C5	1-½" Clamp in AISI 304 2" Clamp in AISI 304		C6	2-1/2" Clamp in Al	SI 304 SS			XX
Gaske	et (sealing ring)							
G4 G5	1-½" Silicon gasket 2" Silicon gasket		G6	2-1/2" Silicon gas	ket			XX
Bottor	m mating part							
B4 B5	1-1⁄2" Sanitary seal in AISI 316 2" Sanitary seal in AISI 316		B6	2-1/2" sanitary sea	al in AISI 316	3		XX
End co	onnection of bottom mating part	(* Bore size	will be 8 m	m )				
3BM 4BM	3/8" BSP (M)* 4№ ½" BSP (M)* 4Ζ		<sup>-</sup> (M)* E (M) (Plain			3 x 1.5 (M) BSP (M)		XX
Range	)							
Refer ı	range table							0/10
Optior	nal extras							kg/cn
CDD	Custom designed dial		STG	Shatterproof / sa	fety glass			
OXC				Toughened glass				
Cb6	AISI 316 SS case & bezel		STP	SS tag plate				XX
	Democratic a line del secondo - 60	L		Fillable liquid gly	cerine			
LGF MTC	Dampening liquid glycerine fillec Material test certificates*		HLT		aaaa 8 borr			
CRB			EPC	Electro polished	case & Deze	1		

\* Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.

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For other optional items, please contact factory for delivery and minimum quantity of order.

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing.

Modifications may take place and materials specified may be replaced by others without prior notice.