



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.

Specifications

Standard Version : 50 mm & 63 mm

Accuracy	: ±1.6% of F. S.
Ambient temperature	: -10 to 65°C
Process temperature	: -10 to 180°C
Operating pressure range	: 75% of Scale Value
Over pressure limit	: 130% of Max. 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)
Sanitary Seal	: 11/2" size in AISI 316 SS (Without clamp, Gasket & Mating part)

Protection	: IP 65
Dial	: Aluminum, black graduation on white background
Pointer	: Aluminum, black coloured, fixed
Window	: Plexi Glass
Gasket	: Silicon rubber
Filling Plug	: Nitrile
Sealing Fluid	: Food Grade Oil (OKS 370)

Dry but fillable version (option FG)

Fillable Dampening Liquid	: Glycerine 99.7%
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Other Features	: Refer Specification of Standard Version

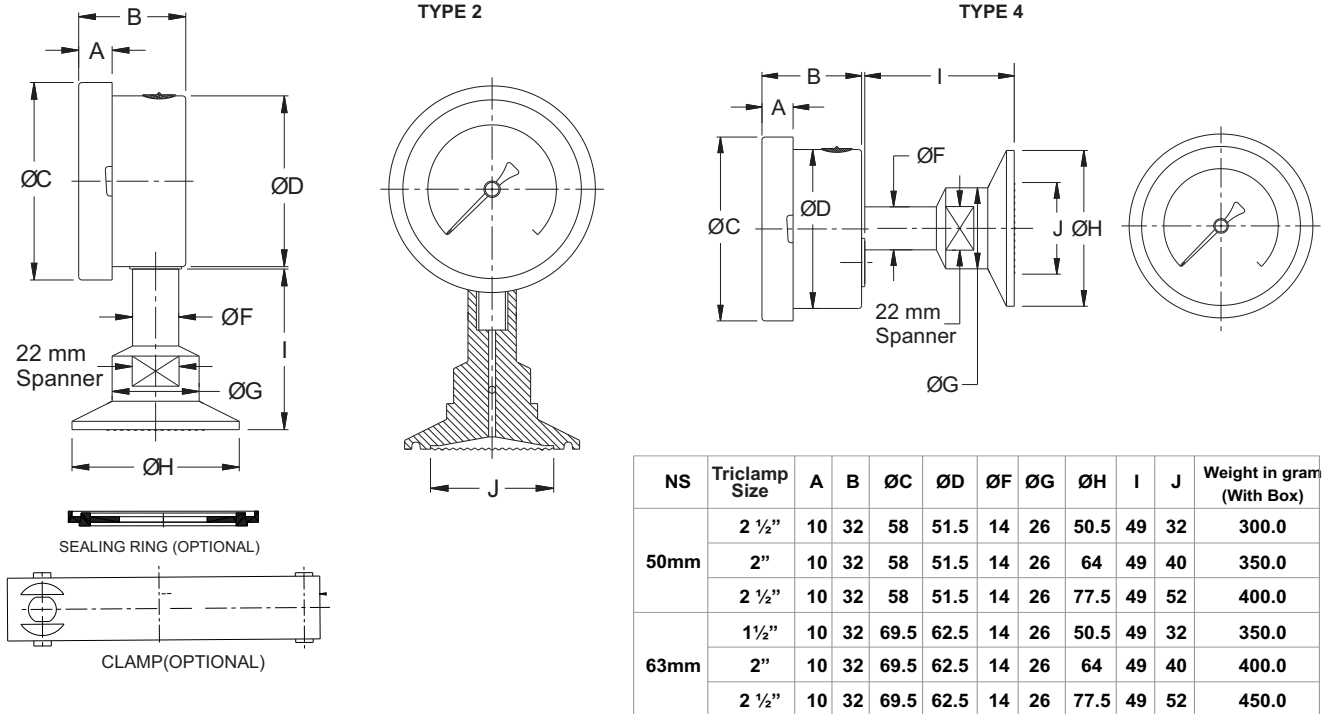
Glycerine filled version (option PY)

Accuracy	: ±1.6% of F. S.
Process Temperature	: Maximum 100°C
Ambient Temperature	: Maximum 65°C
Window	: Plexi Glass
Dampening Liquids	: Glycerine 99.7%
Other Features	: Refer Specification of Standard Version

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.

Dimensions - standard version



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

Range Table

Note : We offer National / International Scales like kPa, MPa, bar, psi, kg/cm² & 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/cm² with psi scales.

Pressure range

Range (psi with kg/cm ²)			
psi	kg/cm ²	psi	kg/cm ²
0/30	0/2	0/300	0/20
0/60	0/4	0/400	0/28
0/100	0/7	0/500	0/35
0/150	0/10	0/600	0/40
0/220	0/16		

Compound range

Range (mmHg with kg/cm ² & inHg with psi)			
mmHg with kg/cm ²	inHg with psi	mmHg with kg/cm ²	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

How To Order						Example
Basic Model						AY
Code						
Nominal Size			C	D		X
Type of Mounting			50 mm	63 mm		
2	Direct bottom entry		4	Direct center back entry		X
Sanitary seal (for 1" size sanitary seal, consult factory for drawing, price and delivery.)						XX
YN	1 ½" Sanitary seal in AISI 316 SS (Standard)		YP	2 ½" Sanitary seal in AISI 316 SS		
YO	2" Sanitary seal in AISI 316 SS					
Body						XX
CL	AISI 316 SS (Standard)		CM	AISI 316L SS		
Diaphragm						
UJ	AISI 316L (Standard)					XX
Filling fluids						XX
UV	Food Grade Oil (OKS 370) [-10 to 180°C/14 to 356°F] (Standard)					
Clamp						
ZO	1 ½" Clamp in AISI 304		ZQ	2½" Clamp in AISI 304 SS		XX
ZP	2" Clamp in AISI 304					
Gasket (sealing ring)						XX
FX	1 ½" Silicon gasket		FZ	2½" Silicon gasket		
FY	2" Silicon gasket					
Bottom mating part						XX
KB	1 ½" Sanitary seal in AISI 316		KD	2 ½" sanitary seal in AISI 316		
KC	2" Sanitary seal in AISI 316					
End connection of bottom mating part (* Bore size will be 8 mm)						XX
3BM	3/8" BSP (M)*	4NM	½" NPT (M)*	5MM	M33 x 1.5 (M)	
4BM	½" BSP (M)*	4ZB	½" PIPE (M) (Plain End)	5BM	3/4" BSP (M)	
Range						0/10 kg/cm²
Refer range table						
Optional extras						
RH	Custom designed dial		RX	Shatterproof / safety glass**		XX
SG	Oxygen service (for dry version)		RZ	Toughened glass**		
PS	AISI 316 SS case & bezel		SX	SS tag plate		
PW	Five point calibration certificate		FG	Fillable liquid glycerine		
PY	Dampening liquid glycerine filled		TB	Helium leak test		
GH	Material test certificates*		ZM	Electro polished case & bezel		
SQ	Case with rolling type bezel#					

For mounting type 4 only ** Suitable for Bayonet type version & Bezel dimensions will be different.

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

Ordering Example: AY . X . X . XX . XX . XX . XX . XX . XX . XX . 0/10kg/cm² . XX

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.