



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

APPLICATIONS

THESE INSTRUMENTS ARE DESIGNED FOR SANITARY, FOOD, PROCESS & 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 60°C |
| Process temperature | : 10 to 150°C |
| Operating pressure range | : 75% of Scale Value |
| 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) |
| 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 | : Neoprene |
| Sealing Fluid | : Glycerin |

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 65°C |
| Ambient Temperature | : Maximum 65°C |
| Window | : Plexi Glass |
| Dampening Liquids | : Glycerine 99.7% |
| Other Features | : Refer Specification of Standard Version |

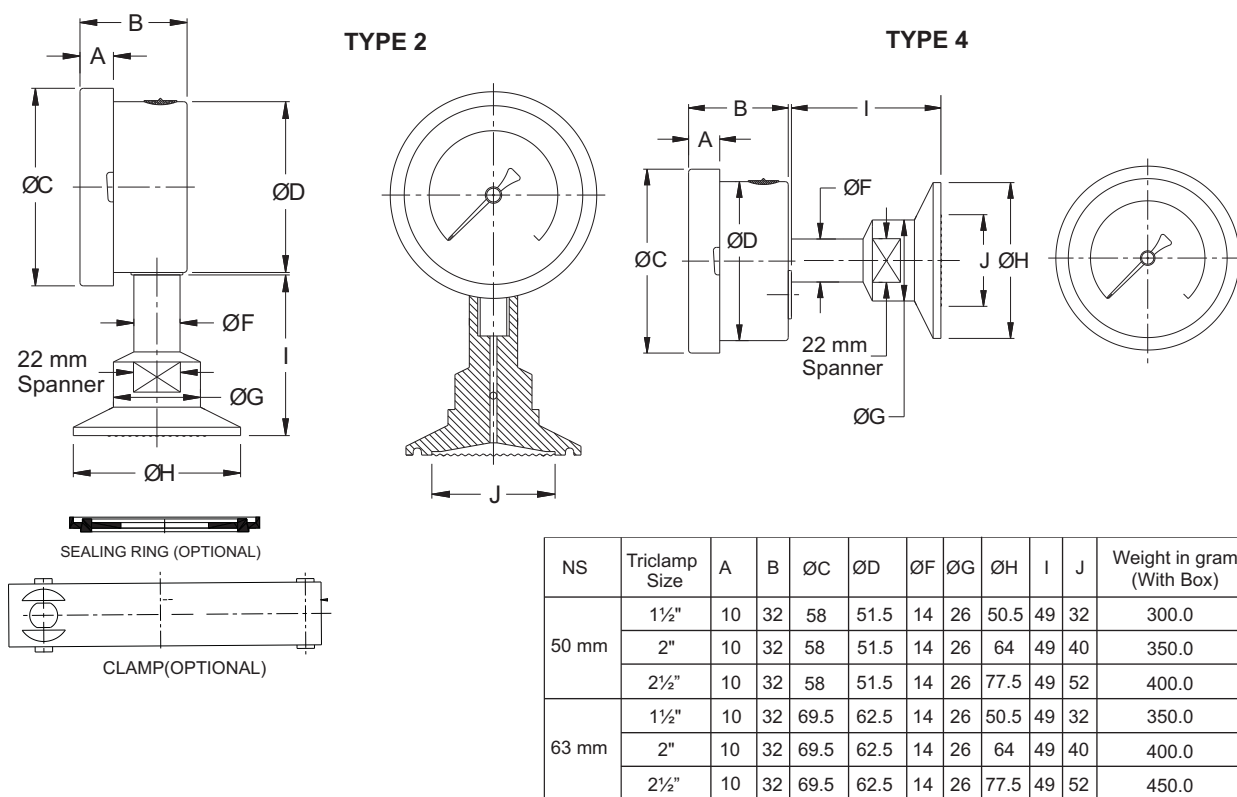
Temperature effect: The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula : $\pm 0.08 \times (t_2 - t_1) \% \text{ of F. S.}$
where t_1 = reference temperature (+20°C) and t_2 = ambient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



DIAPHRAGM TYPE (50 mm & 63 mm)

DIMENSIONS - STANDARD VERSION

AY



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

RANGE TABLE

Note : Waaree offers 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 |

DIAPHRAGM TYPE (50 mm & 63 mm)

AY

HOW TO ORDER

BASIC MODEL

CODE

NOMINAL SIZE

C

D

50 mm

63 mm

TYPE OF MOUNTING

2 DIRECT BOTTOM ENTRY

4 DIRECT CENTER BACK ENTRY

SANITARY SEAL (FOR 1" SIZE SANITARY SEAL, CONSULT FACTORY FOR DRAWING, PRICE AND DELIVERY.)

YN 1 1/2" SANITARY SEAL IN AISI 316 SS (Standard)

YP 2 1/2" SANITARY SEAL IN AISI 316 SS

YO 2" SANITARY SEAL IN AISI 316 SS

BODY

CL AISI 316 SS (Standard)

CM AISI 316L SS

DIAPHRAGM

UJ AISI 316L (Standard)

FILLING FLUIDS

UF GLYCERIN [10 to 150 °C / 50 to 302 °F] (Standard)

UV FOOD GRADE OIL [-20 to 140 °C / -4 to 284 °F]

UG LIQUID PARAFFIN [10 to 200 °C / 50 to 392 °F]

CLAMP

ZO 1 1/2" CLAMP IN AISI 304

ZQ 2 1/2" CLAMP IN AISI 304 SS

ZP 2" CLAMP IN AISI 304

GASKET (SEALING RING)

FX 1 1/2" SILICON GASKET

FZ 2 1/2" SILICON GASKET

FY 2" SILICON GASKET

BOTTOM MATING PART

KB 1 1/2" SANITARY SEAL IN AISI 316

KD 2 1/2" SANITARY SEAL IN AISI 316

KC 2" SANITARY SEAL IN AISI 316

END CONNECTION OF BOTTOM MATING PART (* Bore size will be 8 mm)

3BM 3/8" BSP (M)*

4NM 1/2" NPT (M)*

5MM M33 x 1.5 (M)

4BM 1/2" BSP (M)*

4ZB 1/2" PIPE (M) (Plain End)

5BM 3/4" BSP (M)

RANGE

REFER RANGE TABLE

OPTIONAL EXTRAS

RH CUSTOM DESIGNED DIAL

RX SHATTERPROOF / SAFETY GLASS

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

* 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 - 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.



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