

# HOMOGENIZER PRESSURE GAUGE

## BOURDON TYPE



IPS-PG-12

### SPECIAL FEATURES

- C E & ATEX APPROVED ELECTRICAL CONTACTS
- LASER WELDED DIAPHRAGM
- FACILITATE USAGE IN FILLED VERSION VIBRATION ZONES TO AVOID DAMAGES TO ITS MECHANISM.
- SUITABLE FOR HOMOGENIZER MACHINES.
- ELECTRICAL CONTACT OPTIONS AVAILABLE.
- STANDARD FOLLOWED IN GENERAL EN 837-3.

### APPLICATIONS

THESE GAUGES ARE BEING USED IN APPLICATIONS WHERE HYGIENE IS OF PRIME IMPORTANCE LIKE DAIRY, FOOD, ICE CREAM, BEVERAGES, PHARMACEUTICAL INDUSTRIES & STERILIZATION.

### SPECIFICATIONS

#### STANDARD VERSION : 100 mm

Accuracy	: $\pm 1.6\%$ of F. S.
Ambient temperature	: $-25^{\circ}\text{C}$ to $+65^{\circ}\text{C}$
Process temperature	: Max. $120^{\circ}\text{C}$
Operating pressure range	: 75% of Scale Value

Case & Bezel	: AISI 304 SS (Bayonet Type)
Bourdon	: AISI 316L SS
Socket	: AISI 316L SS
Movement	: AISI 304 SS
Diaphragm	: AISI 316L SS
Body	: AISI 316 SS
Joints	: Tig Argon Arc Welding

Protection	: IP 65
Dial	: Aluminum, black graduation on white background
Pointer	: Aluminum, black coloured micrometer zero adjustable
Window	: Plexi Glass
Blow off Disc	: Neoprene
Gasket & Filling plug	: Neoprene
Sealing liquid	: Glycerin
Dampening Liquid	: Glycerin 99.7%

### ELECTRICAL CONTACTS - DRY VERSION

Accuracy	: $\pm 2.5\%$ of F. S.
Ambient Temperature	: Maximum $65^{\circ}\text{C}$
Process Temperature	: Maximum $65^{\circ}\text{C}$
Window	: Polycarbonate Dome
Dampening Liquids	: Dielectric Oil (Optional)
Electric Contacts*	: Refer How to Order
Other Features	: Refer Specification of Standard Version

\* Please specify contact set points while ordering.

#### 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 :  $\pm 0.08 \times (t_2 - t_1) \%$  of F. S.

where  $t_1$  = reference temperature ( $+20^{\circ}\text{C}$ ) and  $t_2$  = ambient temperature in  $^{\circ}\text{C}$ .



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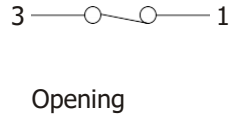
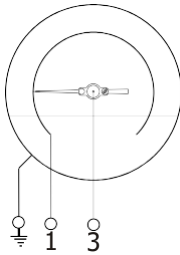
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## WIRING DIAGRAMS FOR ELECTRIC CONTACTS

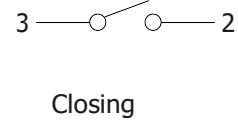
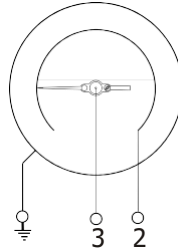
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### SINGLE CONTACT

1 NO

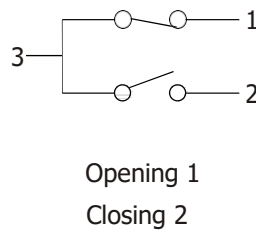
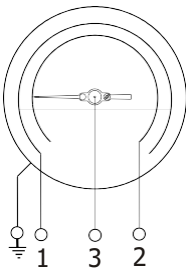


1 NC

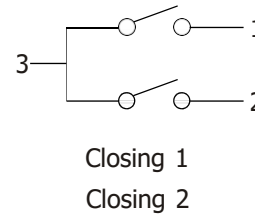
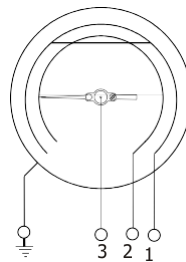


### DOUBLE CONTACT

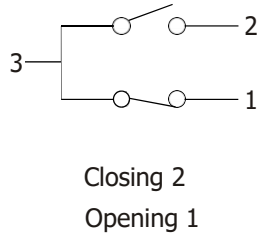
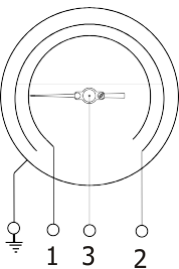
1 NO + 1 NC



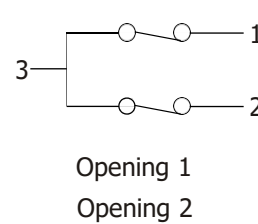
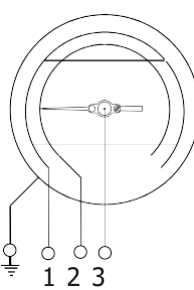
1 NC + 1 NC



1 NC + 1 NO

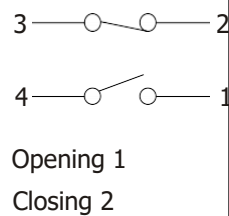
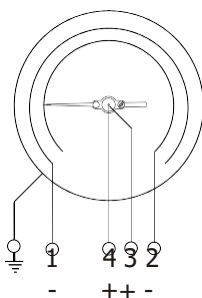


1 NO + 1 NO

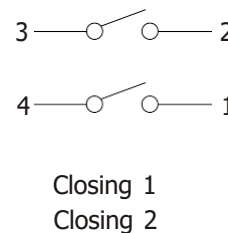
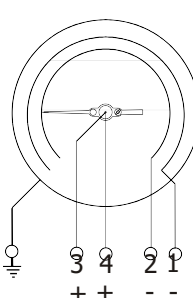


### INDEPENDENT DOUBLE CONTACT

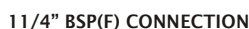
1 NO+ 1 NC



1 NC + 1 NC



## IPS-PG-12



WITHOUT FLANGE CONNECTION

### FLANGE CONNECTION

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

## IPS-PS-12

## F

X

X

XXX

## 0-250

XX

XX

## XX

XX

\*MATERIAL TEST CERTIFICATES WILL BE PROVIDED FOR WETTED PARTS ONLY WITH CHEMICAL COMPOSITION TESTING. FOR OTHERS, PLEASE CONSULT FACTORY.

\*\*BOD, Gasket & Filling plug of NBR. Refer Price List for Viton.

(FOR DRY VERSION, WITH INGRESS PROTECTION UP TO IP 55 & POLY CARBONATE DOME AS A WINDOW.)

**B) INDUCTIVE TYPE (220 V AC, 0.4 Amp.)**

YW Single; NORMALLY OPEN (1 NO)  
 YV Single; NORMALLY CLOSED (1 NC)  
 YX Double; NORMALLY CLOSED + NORMALLY OPEN  
 (1 NC + 1 NO)  
 YY Double; NORMALLY OPEN (BOTH NO)  
 YZ Double; NORMALLY CLOSED (BOTH NC)  
 ZA Double; NORMALLY OPEN + NORMALLY CLOSED  
 (1 NO + 1 NC)

\* FOR DOUBLE INSULATED ELECTRICAL CONTACTS, CONSULT FACTORY FOR PRICE & DELIVERY.