## Model NDG16 · 17

## Differential Pressure Gauges



## QUTLINE

This differential pressure gauge is compactly de-signed to measure differential pressure of 2 places. This can be used for not only measurement of differential pressure, but also measurement of tank level,loss of head of strainer or flow measurement of pipe-line by combination with orifice.

Micro switch is used for the diff.pressure gauge with electric contact and suitable for ON-OFF control.

### FEATURES

- It can bear high pressure by liquid filled in the element interior, and isn't damaged even if extreme extravagance pressure, reverse pressure acts by valve operation.
- Process pipe laving connection gets vent plug whether it is an account, and can select it in top and bottom freedom.
- \* Case of demand asks for a unit of a street (kgf/cm² single dial) up to now as ordered.

### SPECIFICATION 1

#### Model:

NDG16 Differential pressure gauge

NDG17 Differential pressure gauge with electric contacts

#### Fluid:

Gas or liquid

#### Operating condition:

In case of NDG17 under the normal condition, where there is no inflammable gas and liquid which case the ignition or explosion.

#### Mounting type:

2B Pipe mounting, Panel mounting (NDG16 only), Surface mounting

#### Filled liquid:

Silicone oil (General use), Daifloil (Oxygen use)

#### Size :

150 DIA

#### Connection

Rc1/4(PT female), 1/4NPT female

#### Wetted parts material:

Body SCS14A
Bellows 316L st.st.
Gasket NBR

#### Differential pressure range:

0 ~ 10kPa→0 ~ 0.3MPa

#### Base pressure:

0 ~ 10MPa, 0 ~ 20MPa(Option)

One side pressure tight: 10MPa (100kgf/cm²)

#### Operating temperature:

-20 ~ 60 °C (But fluid should not be frozen)

#### Indication accuracy:

±0.5%F.S(NDG16 Only), ±1.0%F.S, ±1.5%F.S (Only Capillary Type & Low Diff. Range 20kPa Less ±1.0%F.S)

#### Blowout disk:

When an emergency, Bourdon tube exploded, it open up internal pressure from blowout disk, and blowout disk prevents puncture of Window.

Note To keep normal function, please take a space behind of gauge at least 10mm when installing.

Don't process or stop up the blowout disk.

#### Case material · finishing :

Aluminium alloy casting (AC7A)·Black

#### Vlave-manifold: (Option)

Three-way valve manifold which combined the stop valve for high and low pressure and stop valve.

This valve manifold is suitable for checking zero point or zero adjustment during operation and also available to prevent excess differential pressure or reversal differential pressrue.

Type No. : FV43-991, FV43-993

#### Dial scale specified: (Option)

Printed words, colored circle, customer's logo

#### Construction:

IP66 (NEMA 4)

Weight: NDG16 Approx. 5.2kg~ approx. 5.9kg

NDG17 Approx. 6.4kg~ approx. 6.6kg

### NDG17 DIFFERENTIAL PRESSURE GAUGE WITH ELECTRIC CONTACT

**Setting accuracy:** 

Within 1%F.S

Dead bane:

Fixed, within 8%F.S.

Temperature coefficient :

± 0.05%F.S./℃

Switch:

Micro switch

Number of contact;

One contact or two contact

Setting system:

Internal adjustment type (0~100% scale)

with setting lock

Outlet for electric wire:

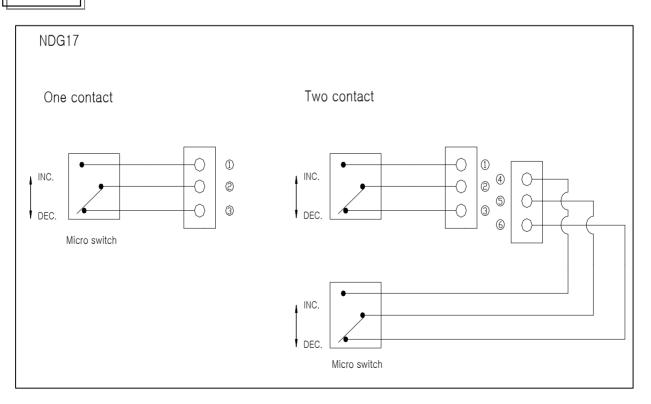
Conduit type PF 3/4", PT 3/4",

NPT 3/4"

#### Electric characteristices:

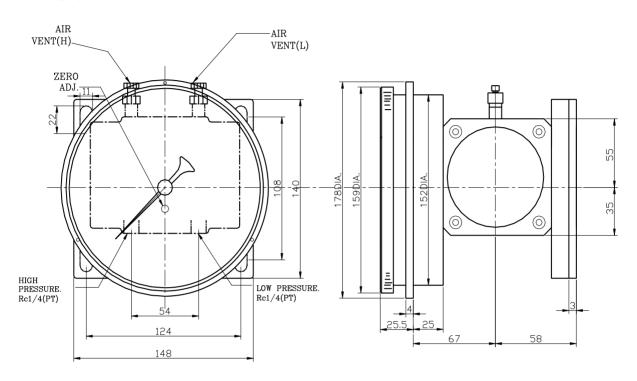
Rating			Withstand	Insulation	Load
	Load resistance	Inductive load	voltage	resistance	inductive
125V AC	5A	3A	Between terminal and case 1 minute	500V AC 100MΩ over Between terminal and case	Power factor 0.4 over (AC) Time-constant 0.7 or less (DC)
250V AC	5A	3A			
30V DC	5A	3A			
125V DC	1A	0.4A			

## WIRING

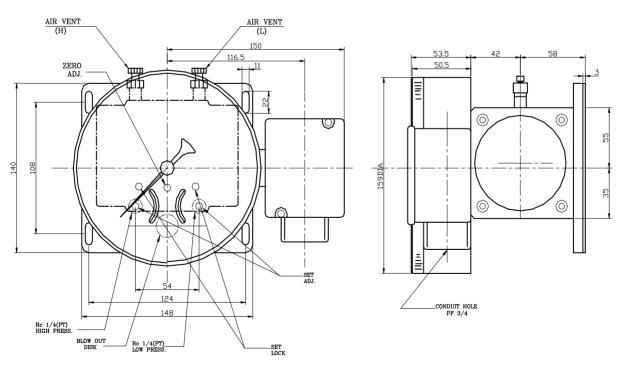


## DIMENSIONS:

#### NDG16



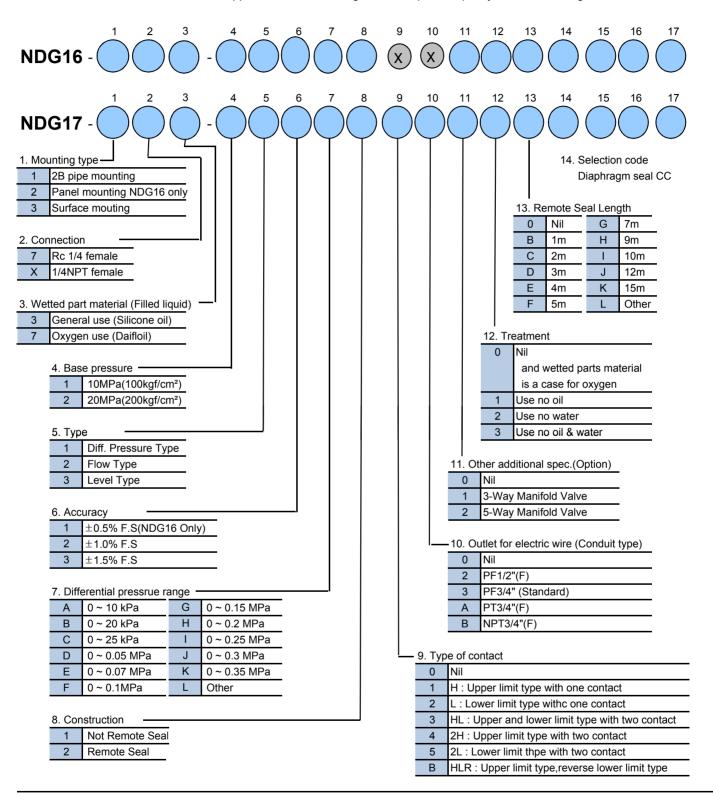
#### NDG17



Type No. constitution

Please specify Type No., each specification and range when ordering Please specify Type No., each specification and range when ordering

Note: For this Model, there is no applicable item for the figures X, but please specify X when ordering



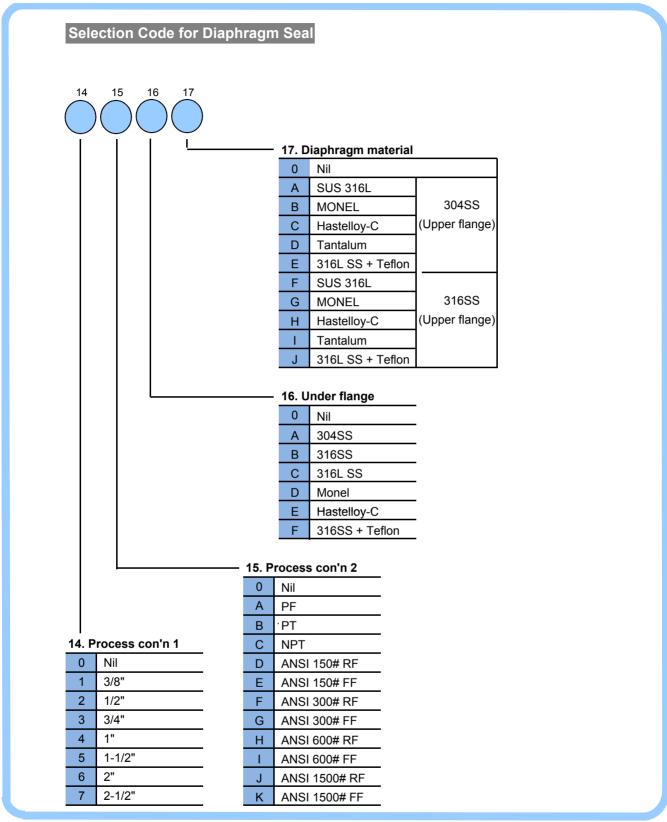


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