# DG93 • 94 Fine Differential Pressure Gauge

#### Overview

This differential pressure gauge designed for 4kPa and below low pressure range can measure other various measuring units other than pressure to monitor level or flow measurements.

#### Features

- Pressure sensing element is stainless-steel bellows so that it can feature high corrosion resistance.
- 270° dial scale angle helps for easy reading.
- $\pm$ 1.5%F.S. high accuracy ( $\pm$ 2%F.S. for DG94)
- · Comes standard with air vent.
- Selectable upper connection mounting or lower connection mounting available for easy installation
- Since lead switch is used, switch action part is not influenced by external environment with long life and high reliability (DG94).

\*Reference pressure is the pressure to reference, or less fluctuating pressure side. Proof pressure against single port means the maximum over differential pressure.

#### Specifications 1

#### Model:

DG93 General fine differential pressure gauge

DG94 Fine differential pressure switch

#### Media:

Gases or liquids (Same process media against H, L ports) When process media is fluid, error can be generated because of its incomplete ventilation.

#### Operating environment:

Install in location where no gases or liquids may exist that have the potential to become flammable or ignitable under normal operating condition (for DG94)

#### Mounting:

2B pipe, wall mounting

Size:

φ150

#### Connection: Rc1/4

### Wetted parts:

Pressure containerSCS14BellowsSUS316LSealing partNBR

Differential pressure range: 0 to  $1 \rightarrow 0$  to 4kPa

Reference pressure: 0 to 500kPa



Proof pressure for single port: 20kPa

Operating temperature range: -5 to 40°C (Non-freezing)

#### Accuracy:

±1.5%F.S. (DG93) ±2%F.S. (DG94)

#### Dial scale angle: 270° (DG93)

250° (DG94)

Case material · finish: AC7A · Black

#### Zero adjustment:

Internally adjustable

#### Manifold valve: (Option)

Three-way valve in combination with stop valve both for high and low pressure, and equalizing valve. It prevents from overpressure, reversed pressure during zero point monitoring, zero adjustment operation or when the process starts its operation.

#### Weight: (Option)

Custom letters, colored circle and customer's logo

#### Weight:

Approx. 6.3kg to Approx. 8.3kg

## **NAGANO KEIKI**

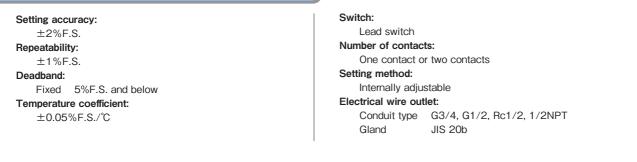
## **DG93 • 94** Fine Differential Pressure Gauge



#### Electrical rating (DG94):

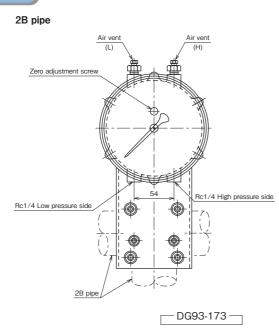
| Switch         | Rating   | Withstand voltage  | Insulation resistance   | Description  |
|----------------|--|--|---|--|
| Lead<br>switch | 125V AC 0.2A<br>200V DC 0.25A<br>100V DC 0.7A<br>(Load resistance) | Between non-continuous<br>terminal strip<br>400V AC 1 minute<br>Between terminal<br>and case<br>600V AC 1 minute | 500V DC<br>100MΩ and above<br>Between each<br>terminal and case | <ul> <li>Ensure the use of protection circuit when capacity load,<br/>lamp or long cable are in use carrying inductive load or<br/>surge current (Inrush current).</li> <li>Not available for 200V AC use</li> </ul> |

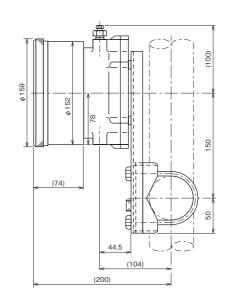
#### Specifications for DG94 pressure switch

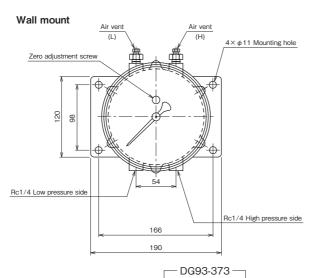


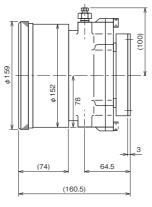
#### Dimensions 1

Unit: mm

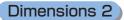




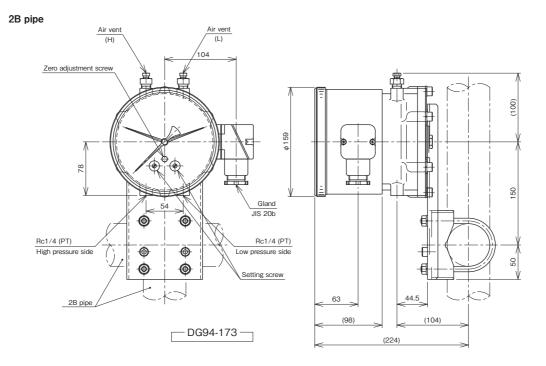




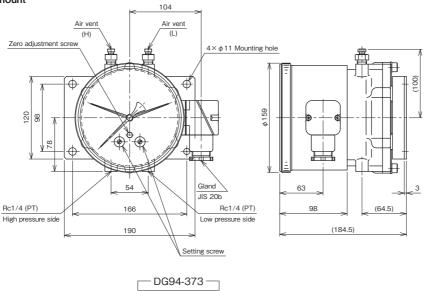
### **DG93 • 94** Fine Differential Pressure Gauge



Unit: mm



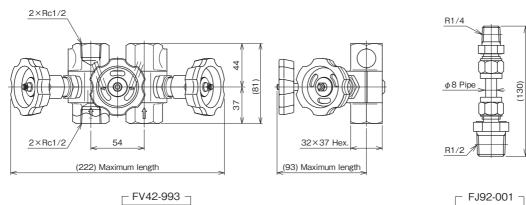
Wall mount



#### Manifold valve: (Option)

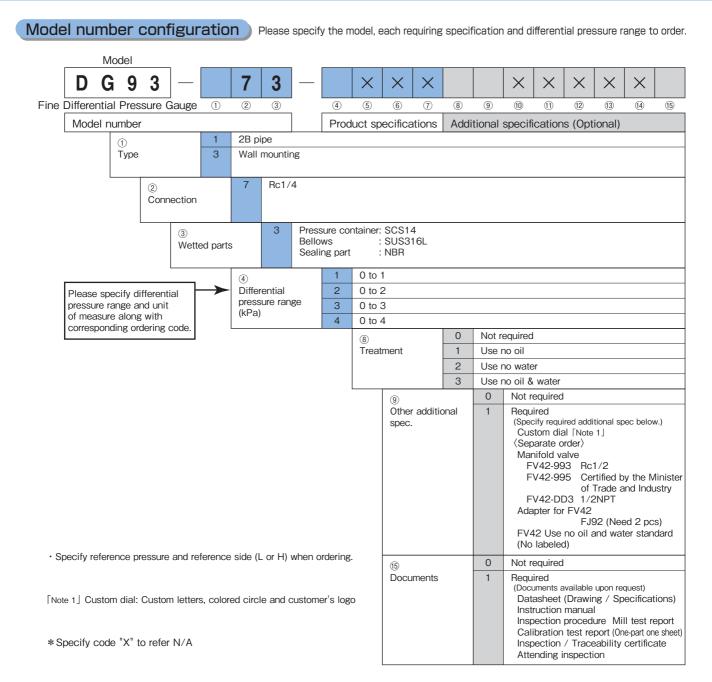
\*Need 2 pcs of FJ92-001 to mate to diff. P. gauge.

#### Manifold adapter: (Option)



## DG93·94

Fine Differential Pressure Gauge



## DG93·94

Fine Differential Pressure Gauge

