

DG16 · 17 · 26

Differential Pressure Gauge

Overview

- Enclosed liquid helps for withstanding high pressure preventing from damage caused by valve operation or reversed process pressure (within proof pressure)
- Selectable upper connection mounting or lower connection mounting

Differential pressure range

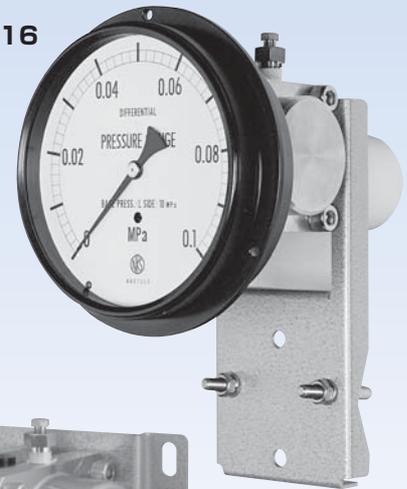
- 0 to 5, 8, 10kPa (DG26)
- 0 to 20, 25, 50, 70kPa (DG16·17)
- 0 to 0.1, 0.2, 0.3MPa (DG16·17)

Application

- Differential pressure, tank level measurement, strainer pressure loss measurement
- Filter clogging in pipeline system, flow measurement

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

DG16



DG26

(Low differential pressure type)

Specifications 1

Class	General differential pressure gauge	Differential pressure switch	General differential pressure gauge
Model	DG16	DG17	DG26
Size	φ 150		
Media	Gases or liquids (Specifications partially changed for gas measurement)		
Differential pressure	0 to 20, 25, 50, 70kPa 0 to 0.1, 0.2, 0.3MPa	0 to 20, 25, 50, 70kPa 0 to 0.1, 0.2, 0.3MPa	0 to 5, 8, 10kPa
Reference pressure	0 to 10MPa* ¹		0 to 4MPa
Proof pressure for single port	10MPa* ¹		4MPa
Connection	Rc1/4, 1/4NPT female		
Mounting	2B pipe mounting, Panel mounting (DG16 only), Wall mounting		2B pipe mounting, Wall mounting
Sealing method for pressure receiving part	O-ring or welding		
Material	Enclosed liquid	Silicone oil Fluids, Gases (N/A for oxygen service), Daifloil® (Oxygen service)	
	Pressure enclosure	SCS14A	SUS316
	Bellows	SUS316L	
	Gasket	NBR (Option: Fluororubber)	
	Case	AC7A · Black	
Front window	Acrylic (Option: Tempered)		
Accuracy	±1.5%F.S. (For DG17, ±3.0% when switch operated)		
Operating temperature	-5 to 40°C (Non-freezing)		
Zero adjustment	Internally adjustable		
Enclosure rating	IP43		
Weight	Approx. 5.2kg to 5.9kg	Approx. 6.4kg to 6.6kg	Approx. 14kg
Option	Manifold valve (Option)		

* 1 Consult us for high pressure proof pressure type (20MPa).

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Differential Pressure Gauge

Specifications 2

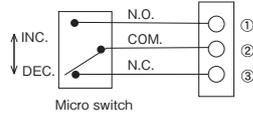
Repeatability	±1%F.S.	Number of contacts	1 or two contacts						
Deadband	Fixed 10%F.S. and below	Setting method	Internally adjustable (0% to 100% scale)						
Proof pressure for single port	±0.05%F.S./°C		Lock available						
Switch	Micro switch	Electrical wire outlet	Conduit type G3/4, G1/2, Rc1/2, 1/2NPT						
Electrical rating	Rating		Withstand voltage	Insulation resistance	Inductive load				
		Resistance load				1500V AC	500V DC 100MΩ and above	Power factor 0.4 and above (AC) Time constant 0.7 and below (DC)	
	125V AC	5A							3A
	250V AC	5A							3A
30V DC	5A	3A							
	125V DC	0.4A	0.05A	Between terminal and case 1 minute	Between each terminal and case				

※As setting scale on dial includes setting error, ensure the use of master gauge and reference pressure gauge to maintain accurate setting.

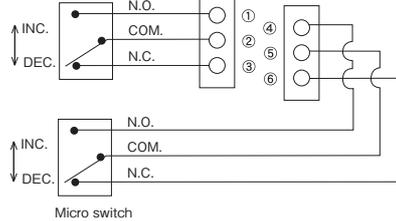
Wiring

DG17

1SW

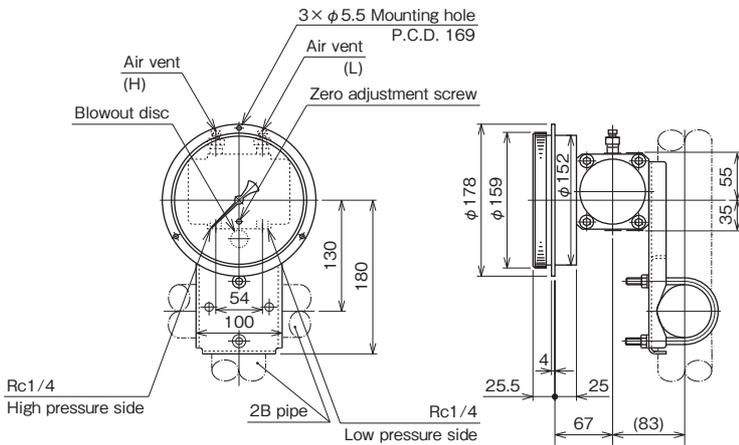


2SW

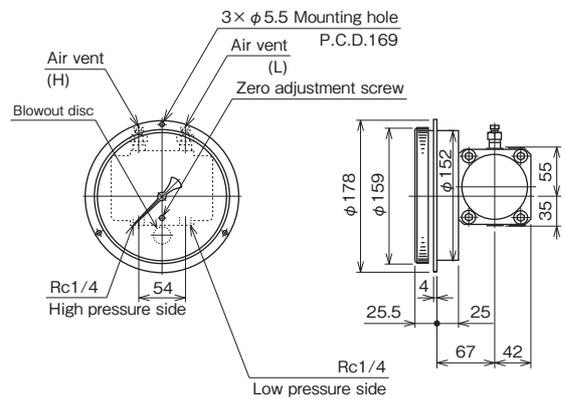


Dimensions 1

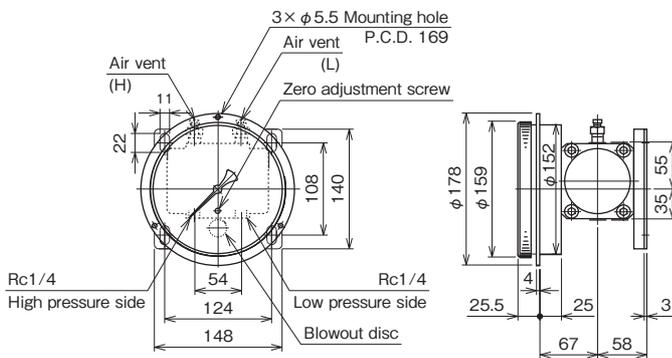
Unit: mm



□ DG16-17 □



□ DG16-27 □



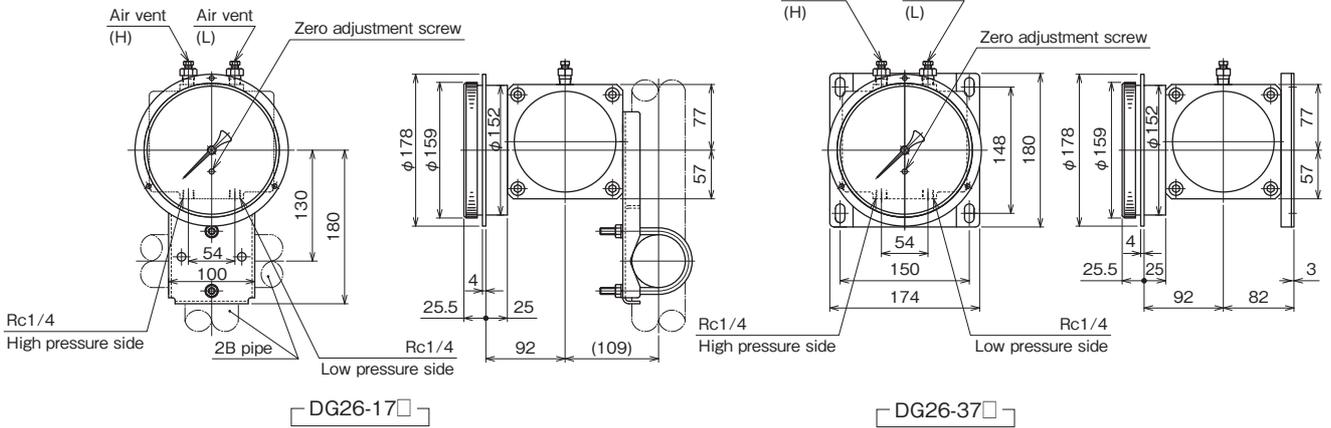
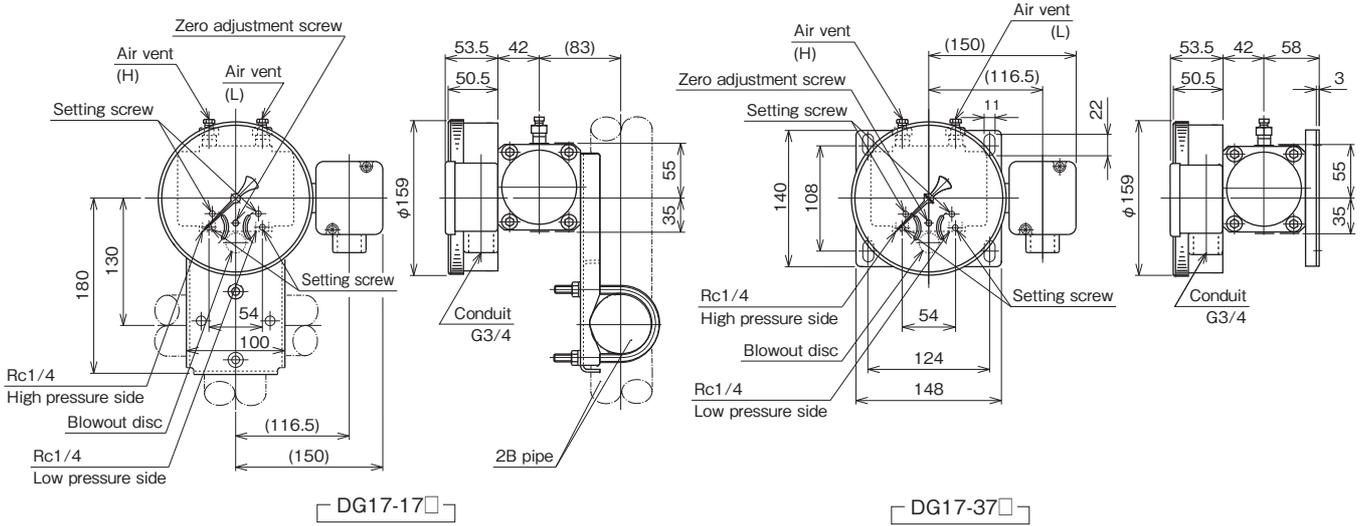
□ DG16-37 □

DG16·17·26

Differential Pressure Gauge

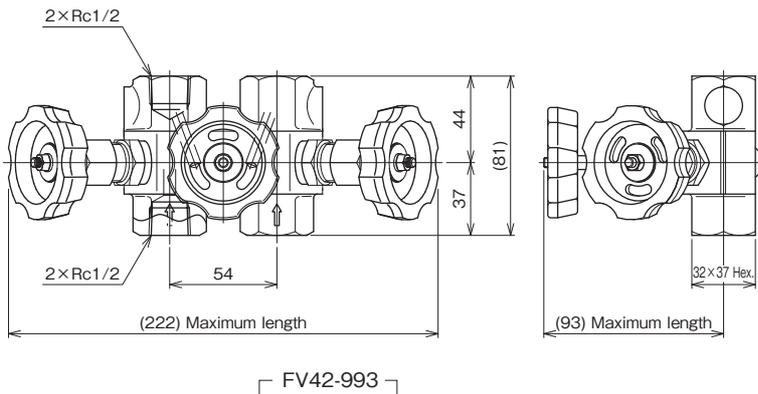
Dimensions 2

Unit: mm

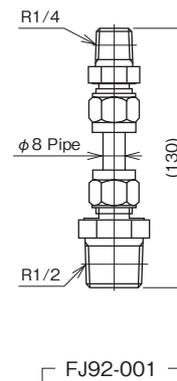


Manifold valve: (Option)

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



Manifold adapter: (Option)



DG16·17·26

Differential Pressure Gauge

Model number configuration

Please specify the model, each requiring specification and differential pressure range to order.

Model

D G 1 6 — ① ② ③ — ④ × ⑤ × ⑥ × ⑦ ⑧ ⑨ × ⑩ × ⑪ × ⑫ × ⑬ × ⑭ ⑮

Differential Pressure Gauge
(General indication type)

Model number		Product specifications	Additional specifications (Optional)
① Mounting	1	2B pipe mounting	
	2	Panel mounting	
	3	Wall mounting	
② Connection	7	Rc1/4	
	X	1/4NPT female	
③ Wetted parts (Enclosed liquid)	3	For fluids	(Bellows plug: O-ring, Enclosed liquid: Silicone oil)
	6	For gases except oxygen	(Bellows plug: Welding, Enclosed liquid: Silicone oil)
	8	Oxygen service	(Bellows plug: Welding, Daifloil® (Oxygen service))
④ Differential pressure range	1	0 to 20, 25kPa	
	2	0 to 50, 70kPa, 0.1, 0.2, 0.3MPa	
⑧ Treatment	0	Not required When wetted parts specified by oxygen service	
	1	Use no oil	No treatment necessary when oxygen service is specified
	2	Use no water	
	3	Use no oil & water	
⑨ Other additional spec.	0	Not required	
	1	Required (Documents available upon request) Custom dial [Note 1] <Separate order> Manifold valve FV42-993 Rc1/2 FV42-995 Certified by the Minister of Trade and Industry FV42-DD3 1/2NPT Adapter for FV42 FJ92 (Need 2 pcs) FV42 Use no oil and water standard (No labeled)	
⑮ Documents	0	Not required	
	1	Required (Documents available upon request) Datasheet (Drawing / Specifications) Instruction manual Inspection procedure Mill test report Calibration test report (One-part one sheet) Inspection / Traceability certificate Strength calculation Attending inspection	

Please specify differential pressure range and unit of measure along with corresponding ordering code.

• Specify reference pressure and reference side (L or H) when ordering.

[Scope of manufacturing]

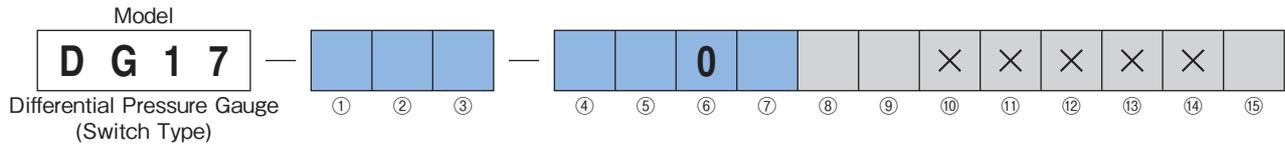
• Reference pressure: 0 to 10MPa, Proof pressure against single port: 10MPa

[Note 1] Custom dial: Custom letters, colored circle and customer's logo

* Specify code "X" to refer N/A

Model number configuration

Please specify the model, each requiring specification and differential pressure range to order.



Model number		Product specifications	Additional specifications (Optional)
① Mounting	1	2B pipe mounting	
	3	Wall mounting	
② Connection	7	Rc1/4	
	X	1/4NPT female	
③ Wetted parts (Enclosed liquid)	3	For fluids	(O-ring type, Enclosed liquid: Silicone oil)
	6	For gases except oxygen	(Weld type, Enclosed liquid: Silicone oil)
	8	Oxygen service	(Weld type, Enclosed liquid: Daifloil®)
④ Differential pressure range	1	0 to 20, 25kPa	
	2	0 to 50, 70kPa, 0.1, 0.2, 0.3MPa	
⑤ Contact	A	H : Upper limit with one contact	
	B	L : Lower limit with one contact	
	C	HL : Upper and lower limit with two contacts	
	D	2H : Upper limit with two contacts	
	E	2L : Lower limit with two contacts	
	Q	HLR: Reverse upper (lower) limit	
⑥ Switch	0	Switch (Micro switch)	
⑦ Electrical wire outlet (Conduit type)	B	G1/2	
	C	G3/4 (Standard)	
	J	Rc1/2	
	K	1/2NPT female	
		Others	
⑧ Treatment	0	Not required When wetted parts specified by oxygen service	
	1	Use no oil	No treatment necessary when oxygen service is specified
	2	Use no water	
	3	Use no oil & water	
⑨ Other additional spec.	0	Not required	
	1	Required (Documents available upon request) Custom dial [Note 1] (Separate order) Manifold valve FV42-993 Rc1/2 FV42-995 Certified by the Minister of Trade and Industry FV42-DD3 1/2NPT Adapter for FV42 FJ92 (Need 2 pcs) FV42 Use no oil and water standard (No labeled)	
⑮ Documents	0	Not required	
	1	Required (Documents available upon request) Datasheet (Drawing / Specifications) Instruction manual Inspection procedure Mill test report Calibration test report (One-part one sheet) Inspection / Traceability certificate Strength calculation Attending inspection	

Please specify differential pressure range and unit of measure along with corresponding ordering code.

As setting scale on dial includes setting error, ensure the use of master gauge and reference pressure gauge to maintain accurate setting.

• Specify reference pressure and reference side (L or H) when ordering.

[Scope of manufacturing]
• Reference pressure: 0 to 10MPa, Proof pressure against single port: 10MPa

[Note 1] Custom dial: Custom letters, colored circle and customer's logo

* Specify code "X" to refer N/A

DG16·17·26

Differential Pressure Gauge

Model number configuration

Please specify the model, each requiring specification and differential pressure range to order.

Model

Differential Pressure Gauge (General indication type)

Model number: **D G 2 6** — [] [] [] — **1** × × × [] [] × × × × × []

① Mounting: 1 2B pipe mounting, 3 Wall mounting

② Connection: 7 Rc1/4, X 1/4NPT female

③ Wetted parts (Enclosed liquid): 3 For fluids (O-ring type, Enclosed liquid: Silicone oil), 6 For gases except oxygen (Weld type, Enclosed liquid: Silicone oil), 8 Oxygen service (Weld type, Enclosed liquid: Daiffoil®)

④ Differential pressure range: 1 0 to 5, 8, 10kPa

⑧ Treatment: 0 Not required (When wetted parts specified by oxygen service), 1 Use no oil, 2 Use no water, 3 Use no oil & water (No treatment necessary when oxygen service is specified)

⑨ Other additional spec.: 0 Not required, 1 Required (Documents available upon request): Custom dial [Note 1], (Separate order) Manifold valve (FV42-993 Rc1/2, FV42-995 Certified by the Minister of Trade and Industry), FV42-DD3 1/2NPT Adapter for FV42, FJ92 (Need 2 pcs), FV42 Use no oil and water standard (No labeled)

⑮ Documents: 0 Not required, 1 Required (Documents available upon request): Datasheet (Drawing / Specifications), Instruction manual, Inspection procedure, Mill test report, Calibration test report (One-part one sheet), Inspection / Traceability certificate, Strength calculation, Attending inspection

Please specify differential pressure range and unit of measure along with corresponding ordering code.

• Specify reference pressure and reference side (L or H) when ordering.

[Scope of manufacturing]

• Reference pressure: 0 to 4MPa, Proof pressure against single port: 4MPa

[Note 1] Custom dial: Custom letters, colored circle and customer's logo

* Specify code "X" to refer N/A