WO71

List of products

RoHS

WO81

D81

WO71

MS99

FR51A

MS99S

MS61A-RA

QDP33

EMD8A

EMD7

EMT1

EMTGP1

EMT1H

EMT6

EMP5A

EMRT1

HWS15A

Accessories

Application

Precautions

Tecautions

Maintenance

Small-sized fine differential pressure gauge FS type/PS type

- A memory pointer, which is convenient for setting of index for planned differential pressure value or limit value, is equipped as standard.
- · Allows various pipe connections.
- Only by exchanging the base on the high-pressure side with that on the low pressure side, it is
 possible to change the polarity. *For side face piping only

Flat-type fine differential pressure gauge N type/R type

- · The lowest master gauge thickness of 29.2 mm has been achieved.
- · Thin design and standard equipment of rotary base make it possible to conduct smart piping.



Model WO71FS

(surface type w/VT base and memory pointer)



Model WO71PS

(square panel type w/VT base and memory pointer)



Model WO71N

(surface type/round panel type w/rotary base)



Model WO71R

(square panel type w/rotary base)



- conditioner

 Filter pressure loss management

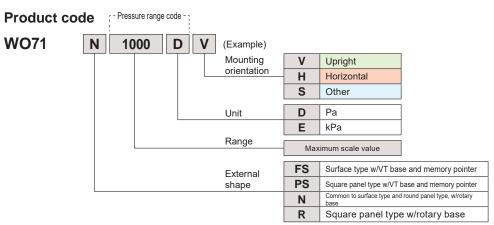
 Precision machine manufacturing
- line

 Building air conditioning control equipment

<Usage>

- Detection of clogging of air filter
- Room pressure measurement in a clean room
- Measurement of clogging of bug
 filter
- Measurement of dynamic pressure at ventilation/exhaust device

*(Refer to pages 114 to 117)



◆When making an inquiry or placing an order, specify the above product code.

W071

WO71

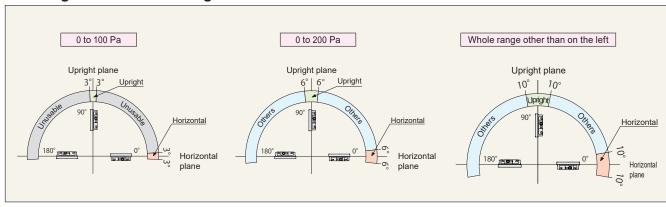
Specifications

Model	Surface type w/VT base and memory pointer Square panel type value and memory pointer				to surface type and Squel type, w/rotary base		Square panel type w/rotary base
	WO71FS	WO71PS	3		WO71N		WO71R
Pressure unit Pressure measurement method Pressure-receiving element Measured gas Scale indication angle Operating ambient temperature Operating ambient humidity Instrument body withstanding pressure Exterior material Durable vibration Durable impact Compatible pipe	Pa, kPa Differential pressure method Diaphragm Air and noncorrosive gas (liquid Approx. 70° -10°C to +50°C (no freezing all 90% RH or below (no condens: 50 kPa (refer to page 118) Polycarbonate and polyamide 5 to 10 Hz, amplitude of 10 mm 10 to 50 Hz, acceleration of 39 three axial directions) 100 m/s² (six times each for thr Fs type, PS type • Vinyl pipe or rubber pipe (ir Base for resin vinyl pipe (al Metallic pipe (outer diameter 6 separately sold base for m Hard tube (outer diameter 6	d cannot be measured) owed) ation allowed) ation allowed) n, m/s² (two hours each for ree axial directions) nner diameter of 6 mm) ready mounted on gauge) er of 6 ± 0.1 mm) etallic pipe is necessary. 6 × inner diameter 4 mm) etallic pipe and inner sleeve ush-in joint is necessary. nner diameter of 4 mm) pipe (already mounted on	Mass Accessorie	rity FS type, PS type Changeable (only for side face pipe) Identification with red on high pressure side N type, R type Unchangeable Indicating high-pressure side and low- "H" and "L" marks, respectively on the FS type Approx. 200 g PS type Approx. 180 g N type Main body: approx. 130 g, mapprox. 40 g R type Approx. 150 g FS type Mounting plate (already installed custom seal) PS type Mounting nut set, custom seal		e face pipe) high pressure side and blue on low re side and low-pressure side with pectively on the instrument body. prox. 130 g, mounting plate: (already installed on main body), et, custom seal (already installed on main body), v set, custom seal	
Pressure range code	Pressure range	Mounting orientation *It is necessary to specify the orientation at the time of order placement for all ranges.		cy (Note)		ure-receivin ent material	
100 D	0-100 Pa	Horizontal and upright					
200 D	0–200 Pa						
300 D	0–300 Pa						
500 D	0-500 Pa	Horizontal or	.0.5	0/ FC	0.11		00 I-D-
1000 D	0–1000 Pa	Upright	±2.5	% FS	Silic	cone rubber	20 kPa
2 E	0–2 kPa	or Others					
3 E	0-3 kPa	Others					
5 E	0-5 kPa						

(Note) Accuracy in full span (refer to page 121)

◆For use environment, refer to page 118.

Mounting orientation and range It is necessary to specify the orientation at the time of order placement for all ranges.



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EMRT1

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Accessories

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Model WO71FS

List of products

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MS61A-RA

QDP33

EMD8A

EMD7

EMT1

EMTGP1

EMT1H

EMT6

EMP5A

EMRT1

HWS15A

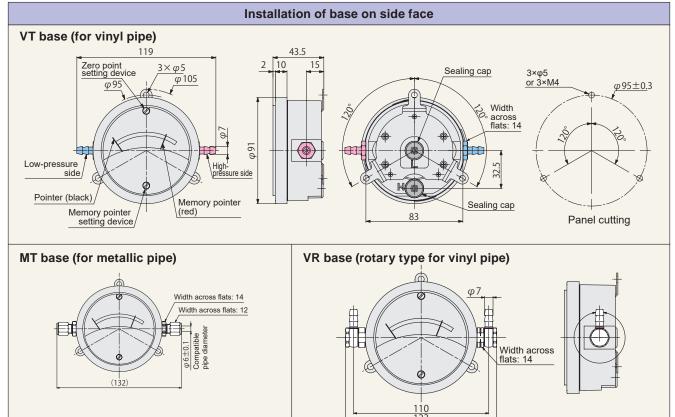
Accessories

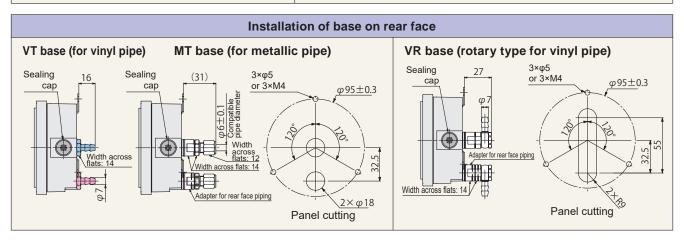
Application

Precautions

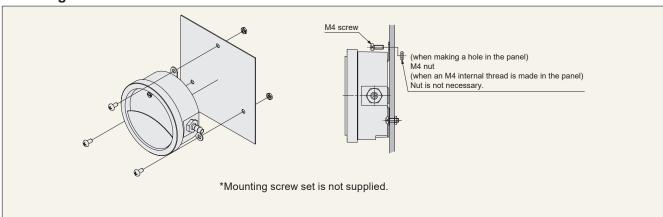
Maintenance

External dimension drawing



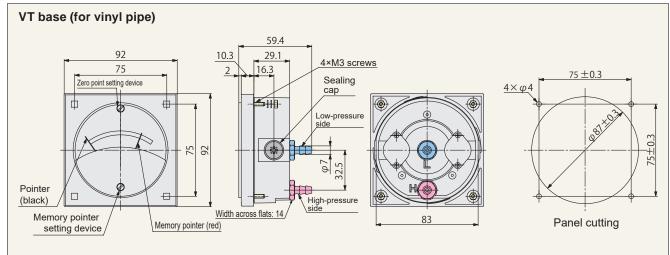


Mounting method

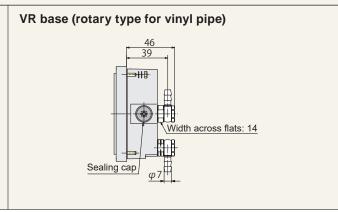


Model WO71PS

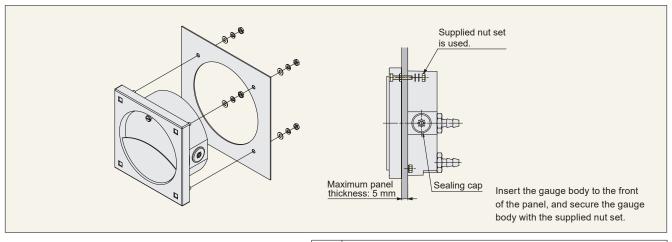
External dimension drawing



MT base (for metallic pipe) (50) (50) (9) (9) (9) (10)



Mounting method





- Tighten the screws and nuts to a torque of 0.8 N·m.
- Do not tighten to a torque that exceeds the specified value because doing so breaks the gauge body.

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Model WO71N

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MS61A-RA

QDP33

EMD8A

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EMRT1

HWS15A

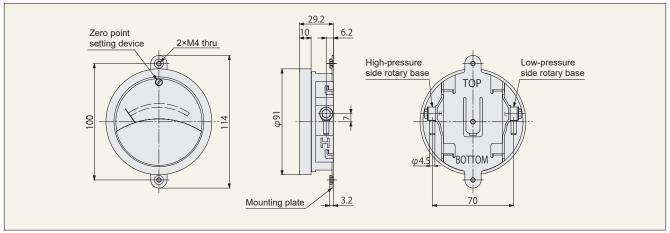
Accessories

Application

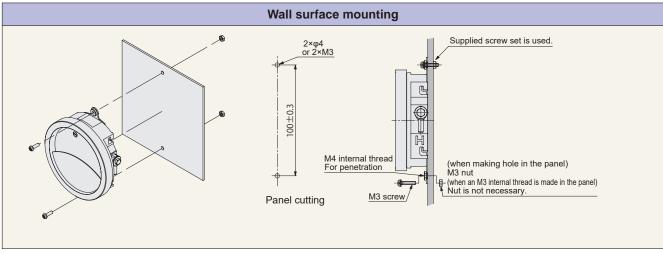
Precautions

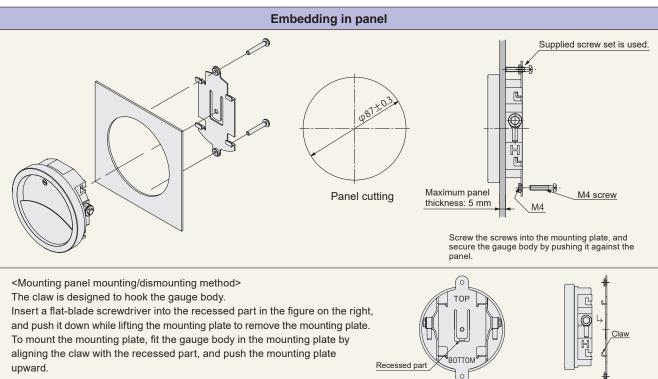
Maintenance

External dimension drawing



Mounting method



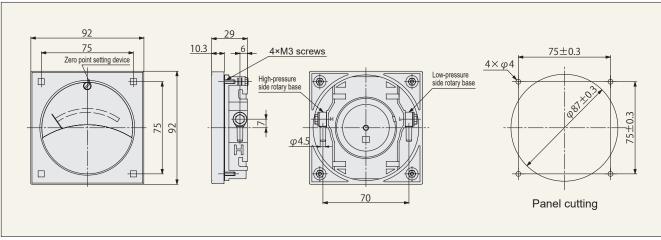


Manostar gauge

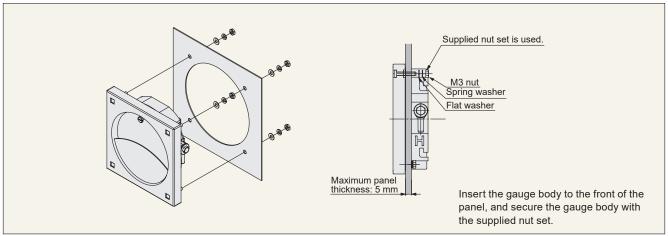
W071

Model WO71R

External dimension drawing



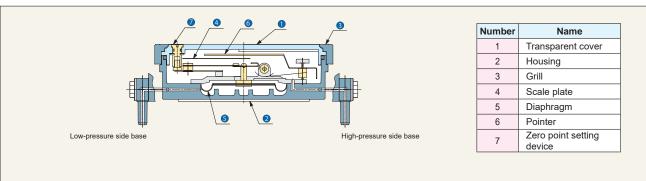
Mounting method





- \bullet Tighten the screws and nuts to a torque of 0.8 N·m.
- Do not tighten to a torque that exceeds the specified value because doing so breaks the gauge body.

Overview of structure



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EMRT1

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Accessories

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WO71 List of scales

Pressure range | Minimum scale

Pressure range Minimum scale

Pressure range Minimum scale

5 Pa

10 Pa

0.1 kPa

0-100 Pa

100

0-300 Pa

0-2 kPa

Pa

300

Pa

kPa

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EMT1H

EMT6

EMP5A

EMRT1

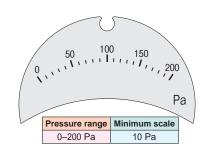
HWS15A

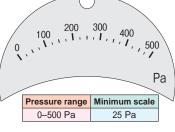
Accessories

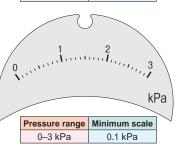
Application

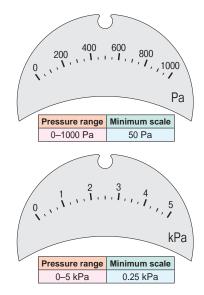
Precautions

Maintenance

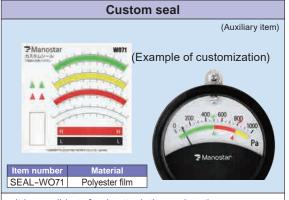




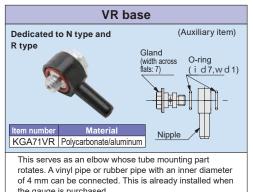




Accessories dedicated to WO71



It is possible to freely attach the seal on the gauge body to color-code the scale and indicate the planned differential pressure value and limit value.



the gauge is purchased. There are no high-pressure side and low-pressure



side polarities. As the structure allows the O-ring (2 pieces) to drop, pay attention not to lose the O-ring at the time of removal of the base.



This is used for mounting the gauge

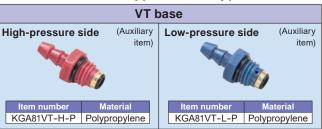


Manostar gauge

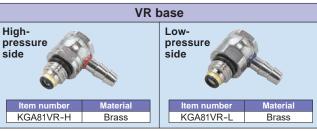
W071

WO71

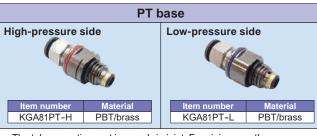
Accessories for FS type and PS type



A vinyl pipe or rubber pipe with an inner diameter of 6 mm can be connected. This is already installed when the gauge is purchased. RoHS



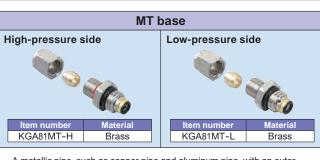
This serves as an elbow whose tube mounting part rotates. A vinyl pipe or rubber pipe with an inner diameter of 6 mm can be connected



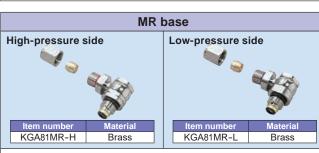
The tube mounting part is a push-in joint. For piping, use the separately sold tube (refer to page 112) or a tube compatible with JIS B 8381-1. (Connectable tube outer diameter: 6 mm)



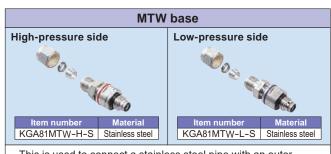
The tube mounting part is a rotary elbow push-in joint. The piping is the same as that for the PT base. (Connectable tube outer diameter: 6 mm)



A metallic pipe, such as copper pipe and aluminum pipe, with an outer diameter of 6 ± 0.1 mm can be connected. However, for stainless steel pipe, use an MTW base. When connecting with a plastic pipe (outer diameter 6 mm × inner diameter 4 mm), remove the brass sleeve and use the separately sold resin inner sleeve set (XIN6×4; refer to page 111).



This serves as an elbow whose tube mounting part rotates. The piping material is the same as that of MT base. When connecting with a plastic pipe (outer diameter 6 mm × inner diameter 4 mm), remove the brass sleeve and use the separately sold resin inner sleeve set (XIN6×4; refer to page 111).

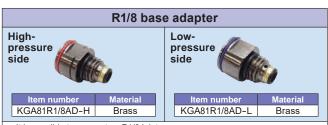


This is used to connect a stainless steel pipe with an outer diameter of 6 ± 0.1 mm.



When arranging an MT base on the rear face of the WO71FS type, this adapter is required as a spacer for hooking a stabilizing wrench to the base at the time of pipe connection. This adapter is also required when arranging the VR base or MR base (excluding MTW base) on the rear face in order to avoid interference between the base and panel.

When connecting an R1/8 joint, use an R1/8 base adapter.



It is possible to connect an R1/8 joint.
*The specifications of this adapter differ from those of the adapter for rear face piping.



It is possible to connect an R1/8 joint

The specifications of this adapter differ from those of the adapter for rear face piping.

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Warranty

Warranty period

The warranty period for our product is one (1) year from delivery to the location specified by the orderer who makes a direct transaction with us.

Scope of warranty

If any failure or defect attributable to us becomes clear during the above warranty period, we will repair the product or supply a substitute product free of charge. However, even during the warranty period, we will exclude the product from the scope of the warranty if the failure or defect corresponds to any of the following:

- (1) The failure or defect was caused by an unreasonable condition, environment, handling, or usage not mentioned in the instruction manual, specifications, and our product catalog.
- (2) The failure or defect was caused by a factor other than our product.
- (3) The failure or defect was caused by a modification or repair conducted by a party other than us.
- (4) The failure or defect was caused by an event that could not be foreseen at the scientific and technical levels at the time of product shipment from us.
- (5) The failure or defect was caused by an external factor not attributable to us, such as acts of God and disasters.

Please note that the warranty mentioned here means the warranty for our individual product, and damage provoked by a failure or defect of the product is excluded from the scope of the warranty.

*This warranty is valid only in Japan.

Application and usage

Our products are designed and manufactured as general-purpose instruments for general industries.

Therefore, our products are not intended for the following uses, and our products used in such a manner are outside the scope of application.

- (1) Equipment that is anticipated to greatly affect lives and properties, such as nuclear power generation, aviation, railways, marine vessels, vehicles, and medical devices
- (2) Utilities that include electricity, gas, and service water
- (3) Use in outdoor locations and under similar conditions or environments other than those stipulated in the instruction manual
- (4) Usage to which considerable safety consideration and attention equivalent to (1) and (2) above need to be given

Service

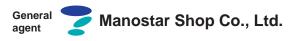
Scope of service

Because the product price does not include service expenses, such as the dispatch of engineers, we will separately charge for the expenses in the following cases:

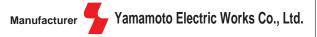
- (1) Instruction for installation and adjustment and a witnessed test run
- (2) Maintenance inspection, adjustments, and repairs
- (3) Technical guidance and technical education
- (4) Witnessed inspections of products at our factory

<<Note>> The product specifications and information in this catalog are subject to change without prior notice for product improvement or other reasons.

●For order placement, contact								



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