

# Vacuum System Peripherals: Pressure Gauge for Vacuum: Series GZ46



GZ46

GZ46-2

## Specifications

Model		GZ46	GZ46E
Type		Back screw	
Connecting <sup>(1)</sup>		R 1/8 R 1/4 (Option: M = with M5 x thread)	
Fluid <sup>(2)</sup>		Air	
Indication accuracy		±3% F.S. (Full span)	
Parts washing		—	Wetted parts degrease washing
Material	Case (Surface treatment)	Rolled steel (Black melamine coating)	
	Clear cover (Surface treatment)	Polycarbonate Part no: G46-00-00-3	Polycarbonate (Hard coated) Part no: G46-00-00-2
	Body	Brass	Brass (Electroless nickel plated) <sup>(3)</sup>
	Bourdon tube	Brass	
With attachment cover assembly	C	Part no: 1305104-1A	
	C1	Part no: 1305104-3A	

Note 1) When attaching the pressure gauge, make sure not to fasten excessively, since it could cause the gauge to leak or to become damaged.

Use port tape as sealant. Recommended fastening torque = R 1/8: 7 to 9 N·m, R 1/4: 12 to 14 N·m.

Note 2) Please consult with SMC if other fluids are used, a corrosive problem may result.

Note 3) Mobile parts (gear, etc) inside the pressure gauge is made of brass.

## Selection

### ⚠ Caution

- Do not expose the gauge to shocks or vibrations.
- Please contact SMC if the gauge is exposed to pressure pulsations or high frequency operation.

## Mounting

### ⚠ Caution

- During transport and installation, make sure the gauge is not exposed to shock, such as dropping, to maintain precision.
- To ensure the proper posture of the gauge, the zero point of the graduation on the gauge must face downward and perpendicular to the ground.
- Do not install the gauge in an area that is exposed to high temperatures or humidity.
- When attaching the pressure gauge, make sure to place a wrench directly on the squared off portion. If a force is applied to some other area to screw in the gauge, it could cause the gauge to leak or to become damaged.

## How to Order

**GZ 46 E - K 1 K - 01 M - C**

Pressure gauge for vacuum

Model

Symbol	O.D.
46	ø42.5

Specifications

Symbol	Specifications
Nil	—
E	External parts oil-free Copper/Fluorine-free

Pressure unit for positive pressure

Symbol	Unit
Nil	—
K	kPa

Display pressure range

Symbol	Unit: kPa
Nil	-100 to 0
1	-100 to 100
2	-100 to 200

Pressure unit for vacuum

Symbol	Unit
K	kPa

Connecting

Symbol	Size
01	R 1/8
02	R 1/4

Option

Symbol	Specifications
Nil	—
M	M5 (Female thread)

Note) Use M5 female thread for panel mounting.

Attachment (Covering assembly)

Symbol	Specifications
Nil	Without covering assembly
C	Clear cover has no protrusion (Clear cover is irremovable.)
C1	Clear cover has no protrusion (Clear cover is removable.)

Note) X3 (wetted parts) is not stainless steel specifications.

## Model (Stock item)

Model	Pressure range <sup>Note)</sup>	Unit	Connecting	Note
	kPa			
GZ46-K-01 to 02	-100 to 0	kPa	R 1/8, 1/4	—
GZ46-K-01 to 02-C, C1	-100 to 0	kPa	R 1/8, 1/4	With covering assembly
GZ46-K-01 to 02M	-100 to 0	kPa	R 1/8, 1/4 M5 (Female thread)	—
GZ46E-K-01 to 02M	-100 to 0	kPa	R 1/8, 1/4 M5 (Female thread)	—
GZ46-K2K-01 to 02	-100 to 200	kPa	R 1/8, 1/4	—

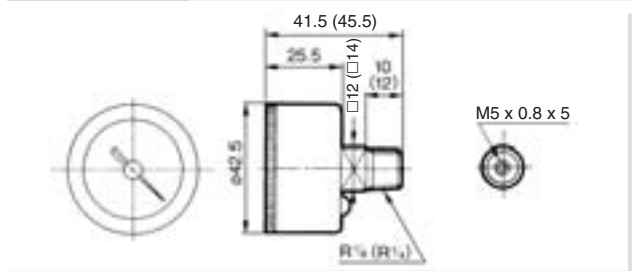
Note) Do not apply pressure that exceeds max. display pressure, since it would cause the gauge to malfunction.

Model (Made to order) Other versions (not including models below) can be made on a made-to-order basis. Please consult with SMC for details, as delivery times may be extended.

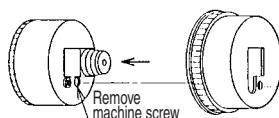
Model	Pressure range <sup>Note)</sup>	Unit	Connecting	Note
	kPa			
GZ46-K1K-01 to 02	-100 to 100	kPa	R 1/8, 1/4	—

Note) Do not apply pressure that exceeds max. display pressure, since it would cause the gauge to malfunction.

## Dimensions

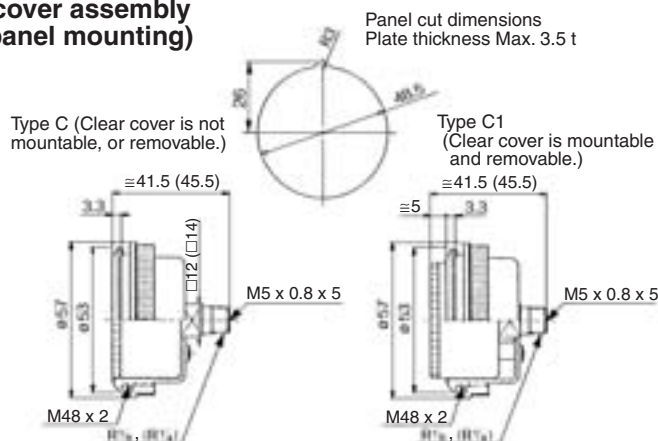


### How to install cover assembly



- Remove machine screw (1 location) of pressure gauge.
- Set the cover on pressure gauge.
- Tighten the machine screw to cover. Tightening torque is 0.3 to 0.5 N·m.

## With cover assembly (For panel mounting)



( ): Port size is R 1/4