

Pressure Gauge for General Purpose Series G15/G27



G15-10-01

G27-10-R1

- Be sure to read the precautions on page 663 for selection and mounting.

Standard Specifications

Model		G15	G27
Type		Back side thread	
Port size ⁽¹⁾		R 1/8: M5 (Female thread)	R 1/16
Fluid ⁽²⁾		Air	
Indication precision		±5% F.S. (Full span)	
Material	Case (Surface treatment)	Zinc die-casted (Black graphite coated)	
	Clear cover	Polycarbonate	
	Stud (Surface treatment)	Zinc die-casted (Black graphite coated)	
	Bourdon tube	Brass	
Mass (kg)		0.01	0.015

- Caution on handling: When drain or oil, etc. gets into the gauge, it may result in a malfunction.

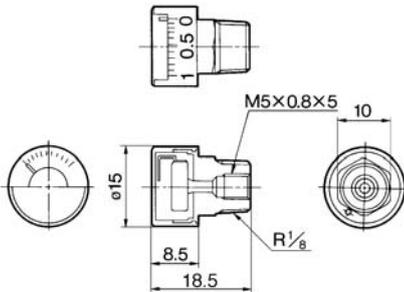
Note 1) When mounting a pressure gauge, use caution not to tighten excessively. Excessive tightening will cause product to be damaged. Use a pipe tape for sealing. Recommended tightening torque is between 3 and 4 N·m for R 1/16 and 7 and 9 N·m for R 1/8.

Note 2) Water cannot be used as an operating fluid. Because the clearance gap of the air passage of the Bourdon tube is very small. Water will block the gap and cause a malfunction.

Similarly, when using other fluids, please consult with SMC for fluid compatibility information concerning possible corrosion and response delay, etc.

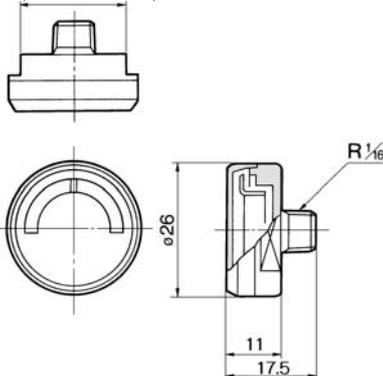
Dimensions

G15



G27

21 (Width across flats)



Model (Standard)

Model	Pressure range ⁽¹⁾		Indication unit	Connection thread
	MPa			
G15-10-01 ⁽²⁾	0 to 1.0		MPa	R 1/8, M5 (Female thread)
G27-10-R1	0 to 1.0		MPa	R 1/16

Note 1) Do not apply more excessive pressure than max. pressure display. It will be a cause of malfunction.

Note 2) Display unit: single unit compatible

Model (Made to Order)

Other versions of this unit can be made on a made-to-order basis.

Please consult with SMC for details, as delivery times may be extended.

Model	Pressure range ⁽¹⁾		Indication unit	Connection thread
	MPa	psi		
G27-10-M5-X201	0 to 1.0	—	MPa	M5 (Female thread)
G27-P10-R1-X30	0 to 1.0	0 to 150	MPa, psi	R 1/16

Note 1) Do not apply more excessive pressure than max. pressure display. It will be a cause of malfunction.

How to Order

G 15 - 10 - 01 - []

- Pressure gauge**
- Size**

Symbol	Outside diameter
15	ø15
27	ø26
- Connection thread**

Symbol	Size
01 ⁽¹⁾	R 1/8: M5 (Female thread)
R1 ⁽²⁾	R 1/16

Note 1) Both R1/8 and M5 (female thread) in case of G15 type
Note 2) Compatible with G27 type only
- Option**

Symbol	Specifications
Nil	—
X30	Both MPa and psi
X201	M5 (Female thread) only

Note 1) X3 (Wetted parts SUS) specifications are not available.
- Max. display pressure**

Symbol	Unit
10 ⁽¹⁾	1.0 MPa
P10 ^{(1) (2)}	1.0 MPa, 150 psi

Note 1) Pressure other than 1.0 MPa is not available.
Note 2) This symbol must be used with Option "X30."

Pressure Gauge for General Purpose/ With Limit Indicator

Series *G36/GA36*



G36-10-01

- Be sure to read the precautions on page 663 for selection and mounting.

Standard Specifications

Model		G36	GA36
Type		Back side thread	Vertical side thread
Port size ⁽¹⁾		R 1/8 (Option M: With M5 female thread)	
Fluid ⁽²⁾		Air	
Indication precision		±3% F.S. (Full span)	
Material	Case (Surface treatment)	Aluminum die-casted (Black disulfide molybdenum coat treated)	Rolled steel (Black melamine painted)
	Clear cover	Polycarbonate (Part no.: G36-00-00-3)	
	Stud (Surface treatment)	Aluminum die-casted (Black disulfide molybdenum coat treated)	Brass
	Bourdon tube	Brass	
Mass (kg)		0.04	0.05

Note 1) When installing a pressure gauge, be careful not to fasten too tight. Excessive tightening will result in damage. Use a pipe tape for sealing. Recommended tightening torque is R 1/8: Set between 7 and 9 N·m.

Note 2) Not applicable to water as fluid because its stud is made from aluminum die-casted. Water may cause corrosion and block the air passage. Use a pressure gauge with wetted parts made from stainless steel, G46-□-X3. (Note: Take care when using G36-□-01M, whose wetted part is made from brass. Some corrosion may result.) Design system to not be affected by water hammer when using water as fluid. Similarly, when using other fluids, please consult with SMC, to prevent corrosion-related problems.

Model (Standard)

Model	Pressure range ⁽¹⁾		Indication unit	Connection thread	Note
	MPa				
G36-2-01	0 to 0.2		MPa	R 1/8	—
G36-4-01	0 to 0.4				
G36-7-01	0 to 0.7				
G36-10-01	0 to 1.0				
GA36-10-01	0 to 1.0				

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

Model (Made to Order)

Other versions of this unit can be made on a made-to-order basis. Please consult with SMC for details, as delivery times may be extended.

Model	Pressure range ⁽¹⁾		Indication unit	Connection thread	Note
	MPa	psi			
G36-10-01-X2	0 to 1.0	—	MPa	R 1/8	Plated stem (Ni)
G36-P2-01-X30	0 to 0.2	0 to 30	MPa, psi		—
G36-P10-01-X30	0 to 1.0	0 to 150			
G36-15-01	0 to 1.5	—	MPa		

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

Pressure Gauge for General Purpose/With Limit Indicator *Series G36/GA36*

How to Order

G **36** - **10** - **01** - **Option**

● **Size**

Symbol	Outside diameter
36	ø37.5

● **Type**

Symbol	Type
Nil	Back side thread
A	Vertical side thread

● **Pressure gauge**

● **Connection thread**

Symbol	Size
01	R 1/8

● **Max. display pressure**

Symbol	Unit
2	0.2 MPa
4	0.4 MPa
7	0.7 MPa
10	1.0 MPa
15	1.5 MPa
P2 (Note)	0.2 MPa, 30 psi
P10 (Note)	1.0 MPa, 150 psi

Note) This symbol must be used with Option "X30."

● **Option**

Symbol	Specifications
Nil	—
M	M5 (Female thread)

Note) Use M5 female thread when piping onto a panel.

● **Option**

Symbol	Specifications
Nil	—
X2	Nickel plated
X4	Oil-free (Wetted parts degrease washing)
X30	Both MPa and psi

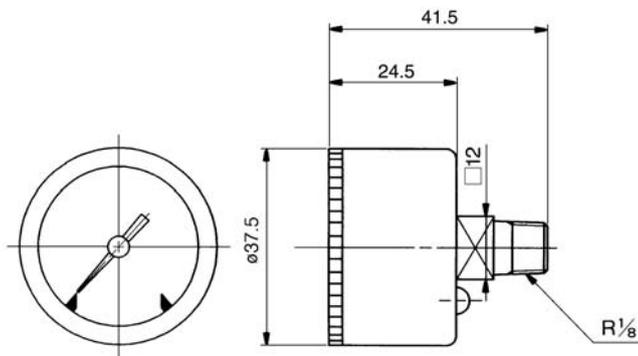
Note 1) X3 (wetted parts stainless steel) specifications is not available.

Note 2) Cover ring assembly is not available.

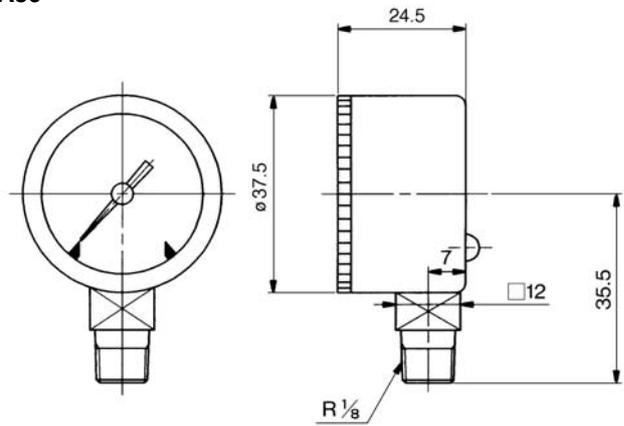
G
GS
PPA

Dimensions

G36



GA36



Pressure Gauge for General Purpose/ With Limit Indicator

Series G46/GA46



G46-10-02M-C

- Be sure to read the precautions on page 663 for selection and mounting.

Standard Specifications

Model		G46	GA46
Type		Back side thread	Vertical side thread
Port size ⁽¹⁾		R 1/8, R 1/4 (Option M: with M5 female thread)	
Fluid ⁽²⁾		Air	
Indication precision		±3% F.S. (Full span)	
Material	Case (Surface treatment)	Aluminum die-casted (Black disulfide molybdenum coated)	Rolled steel (Black melamine painted)
	Clear cover	Polycarbonate (Part no.: G46-00-00-3)	
	Stud (Surface treatment)	Aluminum die-casted (Black disulfide molybdenum coated)	Brass
	Bourdon tube	Brass	
Mass (kg)		0.05	0.075
Attachment: With cover ring assembly	C	Part no.: 1305104-1A	—
	C1	Part no.: 1305104-3A	

Note 1) When mounting a pressure gauge, use caution not to tighten excessively. Excessive tightening will cause product to be damaged. Use a pipe tape for sealing. Recommended tightening torque: R 1/8: Set between 7 and 9 N·m, R 1/4: 12 and 14 N·m respectively.

Note 2) Not applicable to water as fluid because its stud is made from aluminum die-casting. Water may cause corrosion and block the air passage. Use G46-□-X3 pressure gauge with wetted parts stainless steel (wetted parts of G46-□-01M are made of brass and this become lightly corroded. Take precautions when using.) Design system to not be affected by water hammer when using water as fluid. Similarly, when using other fluids, please consult SMC for fluid compatibility information concerning corrosive potential.

Model (Standard)

Model	Pressure range ⁽¹⁾	Indication unit	Connection thread	Note
	MPa			
G46-2-01/02	0 to 0.2	MPa	R 1/8, 1/4	—
G46-4-01/02	0 to 0.4			
G46-7-01/02	0 to 0.7			
G46-10-01/02	0 to 1.0			
G46-2-01 to 02M	0 to 0.2			
G46-4-01 to 02M	0 to 0.4		R 1/8, 1/4 M5 (Female thread)	
G46-7-01 to 02M	0 to 0.7			
G46-10-01 to 02M	0 to 1.0			
GA46-10-01 to 02	0 to 1.0			

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

Model (Made to Order)

Other versions of this unit can be made on a made-to-order basis. Please consult with SMC for details, as delivery times may be extended.

Model	Pressure range ⁽¹⁾		Indication unit	Connection thread	Note				
	MPa	psi							
G46-2-01 to 02-C/C1	0 to 0.2	—	MPa	R 1/8, 1/4	With cover ring assembly				
G46-4-01 to 02-C/C1	0 to 0.4	—							
G46-7-01 to 02-C/C1	0 to 0.7	—							
G46-10-01 to 02-C/C1	0 to 1.0	—							
G46-2-01 to 02M-C/C1	0 to 0.2	—							
G46-4-01 to 02M-C/C1	0 to 0.4	—		R 1/8, 1/4 M5 (Female thread)					
G46-7-01 to 02M-C/C1	0 to 0.7	—							
G46-10-01 to 02M-C/C1	0 to 1.0	—							
G46-P2-01 to 02-X30	0 to 0.2	0 to 30				MPa, psi	R 1/8, 1/4	—	
G46-P10-01 to 02-X30	0 to 1.0	0 to 150							
G46-2-02M-X4	0 to 0.2	—	MPa	R 1/4 M5 (Female thread)	Oil-free				
G46-4-02M-X4	0 to 0.4	—							
G46-7-02M-X4	0 to 0.7	—							
G46-10-02M-X4	0 to 1.0	—							
G46-2-02M-C/C1-X4	0 to 0.2	—							
G46-4-02M-C/C1-X4	0 to 0.4	—		MPa	R 1/4 M5 (Female thread)	Oil-free, With cover ring assembly			
G46-7-02M-C/C1-X4	0 to 0.7	—							
G46-10-02M-C/C1-X4	0 to 1.0	—							
G46-P2-01 to 02-C-X30	0 to 0.2	0 to 30					MPa, psi	R 1/8, 1/4	With cover ring assembly
G46-P10-01 to 02-C-X30	0 to 1.0	0 to 150							
G46-10-02-X2	0 to 1.0	—	MPa	R 1/4	Plated stem (Ni)				
G46-15-01 to 02	0 to 1.5	—							

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

Pressure Gauge for General Purpose/With Limit Indicator **Series G46/GA46**

How to Order

G **46** - **10** - **01** - **Option** - **Attachment** - **Option**

• **Pressure gauge**

• **Type**

Symbol	Type
Nil	Back side thread
A	Vertical side thread

• **Size**

Symbol	Outside diameter
46	ø42.5

• **Connection thread**

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

• **Option**

Symbol	Specifications
Nil	—
M	With M5 (Female thread)

Note) Use M5 female thread when piping onto a panel.

• **Max. display pressure**

Symbol	Unit
2	0.2 MPa
4	0.4 MPa
7	0.7 MPa
10	1.0 MPa
15	1.5 MPa
P2 (Note)	0.2 MPa, 30 psi
P10 (Note)	1.0 MPa, 150 psi

Note) This symbol must be used with Option "X30."

• **Attachment**

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

Note) Compatible with G46 type only

• **Option**

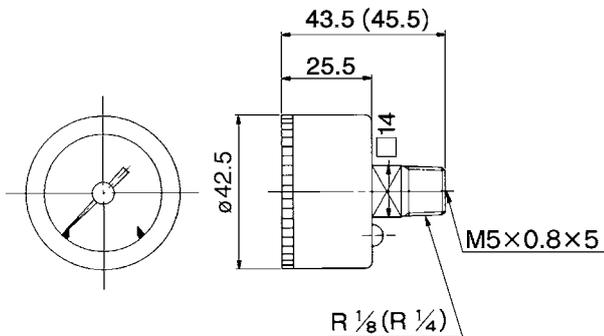
Symbol	Specifications
Nil	—
X2	Stud parts Nickel plated
X3 (1) (2)	Wetted parts stainless steel (1)
X4	Oil-free (Wetted parts degrease washing)
X30	Both MPa and psi

Note 1) Movable parts (gear, etc) inside pressure gauge are made of brass.
Note 2) Compatible with G46 type only

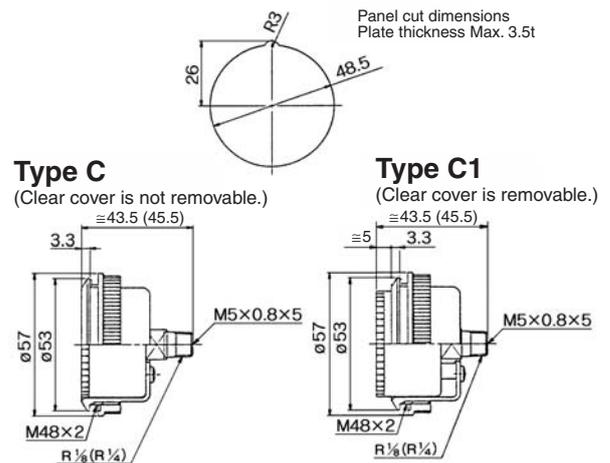
G
GS
PPA

Dimensions The dimensions in (): Connecting thread R 1/4

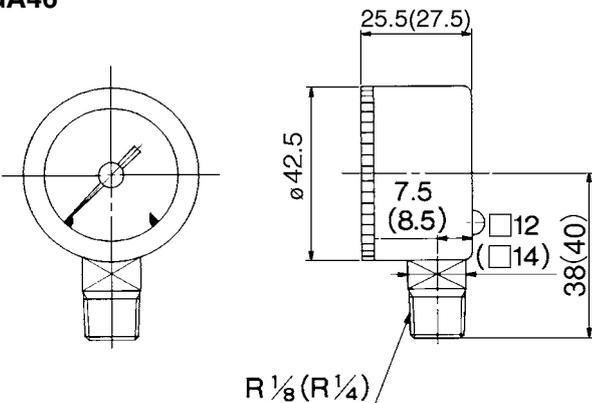
G46



G46: With cover ring assembly (For panel mount)



GA46



For setting method, refer to page 662.

Pressure Gauge for General Purpose

Series G33/GA33



- Be sure to read the precautions on page 663 for selection and mounting.

Standard Specifications

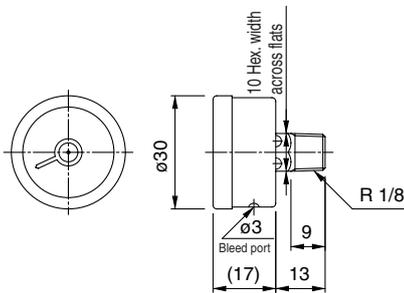
Model		G33	GA33
Type		Back side thread	Vertical side thread
Port size ⁽¹⁾		R 1/8	
Fluid ⁽²⁾		Air	
Indication precision		±3% F.S. (Full span)	
Material	Case	Stainless steel	
	Clear cover	Glass	
	Stud	Brass	
	Bourdon tube	Brass	
Applicable model	IP5000, IP6000, IR1000, IT1000, ARM2500, 3000		

Note 1) When mounting a pressure gauge, use caution not to tighten excessively. Excessive tightening will cause product to be damaged. Use a pipe tape for sealing. Recommended tightening torque: R 1/8: Set between 7 and 9 N·m.

Note 2) When using other fluids, please consult with SMC for fluid compatibility information concerning corrosive potential.

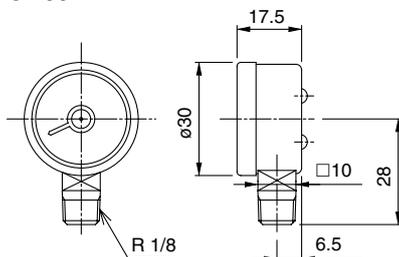
Dimensions

G33



G33-□□-01

GA33



GA33-□□-01

Model (Standard)

Model	Pressure range ⁽¹⁾		Indication unit	Connection thread	Note
	MPa	psi			
G33-2-01	0 to 0.2	—	MPa	R 1/8	—
G33-3-01	0 to 0.3	—			
G33-4-01	0 to 0.4	—			
G33-6-01	0 to 0.6	—			
G33-10-01	0 to 1.0	—			
GA33-2-01	0 to 0.2	—			
GA33-4-01	0 to 0.4	—			
GA33-7-01	0 to 0.7	—			
GA33-10-01	0 to 1.0	—			

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

Model (Made to Order)

Model	Pressure range ⁽¹⁾		Indication unit	Connection thread	Note
	MPa	psi			
G33-2-01-X2	0 to 0.2	—	MPa	R 1/8	X2: Stud parts electroless nickel plated
G33-3-01-X2	0 to 0.3	—			
G33-4-01-X2	0 to 0.4	—			
G33-6-01-X2	0 to 0.6	—			
G33-10-01-X2	0 to 1.0	—			
GA33-2-01-X2	0 to 0.2	—			X2: Stud parts nickel plated
GA33-4-01-X2	0 to 0.4	—			
GA33-7-01-X2	0 to 0.7	—			
GA33-10-01-X2	0 to 1.0	—			
G33-10-01-X4	0 to 1.0	—			
GA33-P10-01-X30	0 to 1.0	0 to 150	MPa, psi	R 1/8	—

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

How to Order

G □ **33** - **10** - **01** - □

• Pressure gauge

• Frame type

Symbol	Type
Nil	Back side thread
A	Vertical side thread

• Model

Symbol	Outside diameter
33	30

• Connection thread

Symbol	Size
01	R 1/8

• Max. display pressure

Symbol	Unit
2	0.2 MPa
3	0.3 MPa
4	0.4 MPa
6	0.6 MPa
7	0.7 MPa
10	1.0 MPa
P10 ^{(1) (2)}	1.0 MPa, 150 psi

• Option

Symbol	Specifications
Nil	—
X2	Stud parts electroless nickel plated
X4	Oil-free (Wetted parts degreasing)
X30	Both MPa and psi

Note 1) X3 (Wetted parts stainless steel) specifications is not available.
Note 2) Please contact SMC separately for pressure range of GA33 between 0 and 0.6 MPa.

Note 1) This symbol must be used with Option "X30."
Note 2) Compatible with GA33 type only

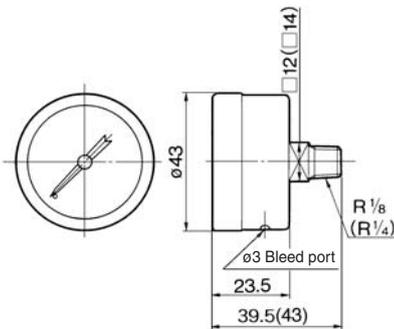
Pressure Gauge for General Purpose Series G43



G43-10-01

- Be sure to read the precautions on page 663 for selection and mounting.

External Dimensions (Except made-to-order products)



The dimensions in (): Connecting thread R 1/4

Standard Specifications

Model		G43
Type		Back side thread
Port size ⁽¹⁾		R 1/8, R 1/4
Fluid ⁽²⁾		Air
Indication precision		±3% F.S. (Full span)
Material	Case	Stainless steel
	Clear cover	Glass
	Stud	Brass
	Bourdon tube	Brass
Applicable model		IP200, IP8000, IR2000, IR3000, IT2000, 4000

Note 1) When mounting a pressure gauge, use caution not to tighten excessively. Excessive tightening will cause product to be damaged. Use a pipe tape for sealing. Recommended tightening torque: R 1/8: Set between 7 and 9 N·m, R 1/4: 12 and 14 N·m respectively.

Note 2) When using with water, use G43-□-X3 (wetted parts stainless steel) and use caution not to apply water hammer. When using the other fluids, please consult with SMC for fluid compatibility information concerning corrosive potential.

G
GS
PPA

Model (Standard)

Model	Pressure range ⁽¹⁾	Indication unit	Connection thread	Note
	MPa			
G43-2-01 to 02	0 to 0.2	MPa	R 1/8, R 1/4	—
G43-4-01 to 02	0 to 0.4			
G43-6-01	0 to 0.6		R 1/8	
G43-7-01 to 02	0 to 0.7		R 1/8, R 1/4	
G43-10-01 to 02	0 to 1.0			

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

Model (Made to Order)

Model	Pressure range ⁽¹⁾	Indication unit	Connection thread	Note
	MPa			
G43-2-01 to 02-X2	0 to 0.2	MPa	R 1/8, R 1/4	X2: Stud parts nickel plated
G43-4-01 to 02-X2	0 to 0.4		R 1/8	
G43-6-01-X2	0 to 0.6		R 1/8, R 1/4	
G43-7-01 to 02-X2	0 to 0.7		R 1/8, R 1/4	
G43-10-01 to 02-X2	0 to 1.0			
G43-2-01 to 02-X3	0 to 0.2	MPa	R 1/8, R 1/4	X3: Wetted parts stainless steel
G43-4-01 to 02-X3	0 to 0.4		R 1/8	
G43-6-01-X3	0 to 0.6		R 1/8, R 1/4	
G43-7-01 to 02-X3	0 to 0.7		R 1/8, R 1/4	
G43-10-01 to 02-X3	0 to 1.0			
G43-2-01 to 02-X4	0 to 0.2	MPa	R 1/8, R 1/4	X4: Oil-free (Wetted parts degreasing)
G43-4-01 to 02-X4	0 to 0.4		R 1/8	
G43-6-01-X4	0 to 0.6		R 1/8, R 1/4	
G43-7-01 to 02-X4	0 to 0.7		R 1/8, R 1/4	
G43-10-01 to 02-X4	0 to 1.0			

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

How to Order

G 43 - 10 - 01 - □

- Pressure gauge**: G 43
- Max. display pressure**: 10
- Connection thread size**: 01
- Option**: □

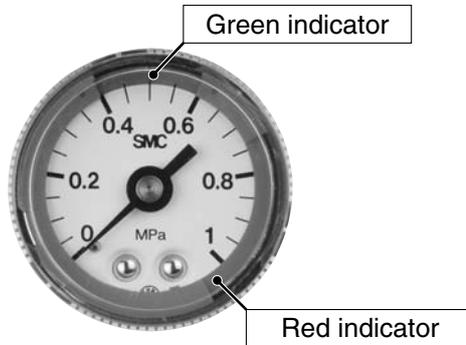
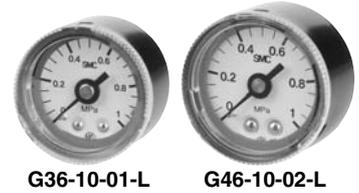
Model		Connection thread size		Option	
Symbol	Outside diameter	Symbol	Size	Symbol	Specifications
43	ø43	01	R 1/8	Nil	—
		02	R 1/4	X2	Stud parts nickel plated
				X3	Wetted parts stainless steel
				X4	Oil-free (Wetted parts degrease washing)

Symbol	Unit: MPa
2	0.2
3	0.3
4	0.4
6	0.6
7	0.7
10	1.0

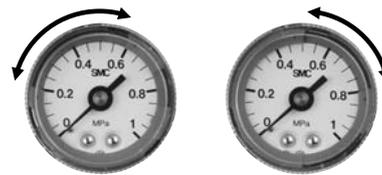
Pressure Gauge with Limit Indicator/ Color Zone Type

Series G36-L/G46-L

■ Red and green zones offer improved visibility of pressure control range.



Indicator adjusts to highlight preferred range.



Standard Specifications

Model		G36-L	G46-L
Type		Back side thread	
Port size ⁽¹⁾		R 1/8	R 1/8, R 1/4
Fluid ⁽²⁾		Air	
Indication precision		±3% F.S. (Full span) ⁽³⁾	
Material	Case (Surface treatment)	Rolled steel (Black melamine painted)	
	Clear cover	Polycarbonate (Part no.: G36-00-00-3) Nylon (Part no.: G36-00-00-3N)	Polycarbonate (Part no.: G46-00-00-3) Nylon (Part no.: G46-00-00-3N)
	Stud	Brass	
	Bourdon tube	Brass	
Mass (kg)		0.04	0.05

Note 1) When mounting a pressure gauge, use caution not to tighten excessively. Excessive tightening will cause product to be damaged. Use a pipe tape for sealing.
Recommended tightening torque: R 1/8: Set between 7 and 9 N·m, R 1/4: 12 and 14 N·m respectively.

Note 2) When using other fluids, please consult with SMC for fluid compatibility information concerning corrosive potential.

Note 3) Temperature conditions: at 20°C (±5°C), in other cases, ±6°C F.S.

Model (Standard)

Model	Pressure range ⁽¹⁾		Green zone setting range		Indication unit	Connection thread	Note
	MPa		Minimum setting range (MPa)	Maximum setting range (MPa)			
G36-2-01-L□	0 to 0.2		0.01	0.1	MPa	R 1/8	—
G36-4-01-L□	0 to 0.4		0.02	0.2			
G36-10-01-L□	0 to 1.0		0.05	0.5			
G46-2-01 to 02-L□	0 to 0.2		0.01	0.1		R 1/8, 1/4	
G46-4-01 to 02-L□	0 to 0.4		0.02	0.2			
G46-10-01 to 02-L□	0 to 1.0		0.05	0.5			

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

Model (Made to Order)

Model	Pressure range ⁽¹⁾		Green zone setting range		Indication unit	Connection thread	Note
	MPa	psi	Minimum setting range (MPa (psi))	Maximum setting range (MPa (psi))			
G36-P2-01-L□-X30	0 to 0.2	0 to 30	0.01 (2)	0.1 (14)	MPa, psi	R 1/8	—
G36-P4-01-L□-X30	0 to 0.4	0 to 60	0.02 (4)	0.2 (28)			
G36-P10-01-L□-X30	0 to 1.0	0 to 150	0.05 (10)	0.5 (70)			
G46-P2-01 to 02-L□-X30	0 to 0.2	0 to 30	0.01 (2)	0.1 (14)		R 1/8, 1/4	
G46-P4-01 to 02-L□-X30	0 to 0.4	0 to 60	0.02 (4)	0.2 (28)			
G46-P10-01 to 02-L□-X30	0 to 1.0	0 to 150	0.05 (10)	0.5 (70)			

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

How to Order

G36-10-01-L - -

Size

Symbol	Outside diameter
36	ø37.5
46	ø42.5

Max. display pressure

Symbol	Unit
2	0.2 MPa
4	0.4 MPa
10	1.0 MPa
P2 (Note)	0.2 MPa, 30 psi
P4 (Note)	0.4 MPa, 60 psi
P10 (Note)	1.0 MPa, 150 psi

(Note) This symbol must be used with Option "X30."

Made to Order

Symbol	Specifications
Nil	—
X30	Both MPa and psi

Clear cover material

Symbol	Material
Nil	Polycarbonate
N	Nylon

Color zone type

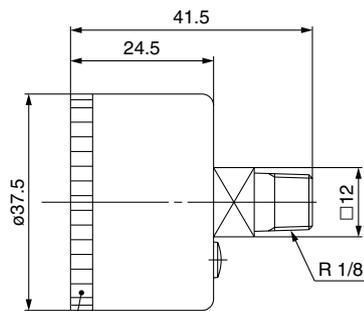
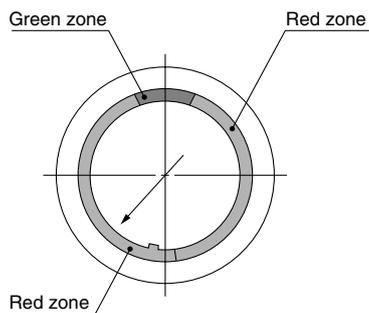
Thread port size

Symbol	Port	Applicable size	
		G36	G46
01	R 1/8	●	●
02	R 1/4	—	●

G
GS
PPA

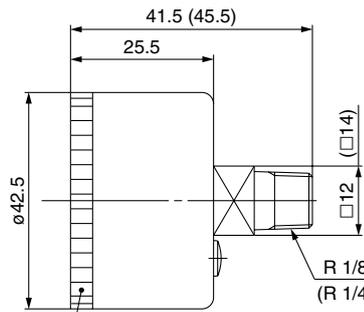
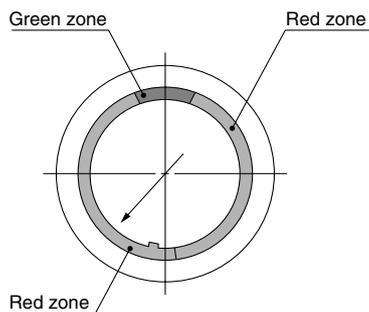
Dimensions

G36



- Clear cover
- Polycarbonate part no.: G36-00-00-3
- Nylon part no.: G36-00-00-3N

G46



- Clear cover
- Polycarbonate part no.: G46-00-00-3
- Nylon part no.: G46-00-00-3N

(): R 1/4

Oil-free/External Parts Copper-free Pressure Gauge/With Limit Indicator Series G46E



G46E-10-02M

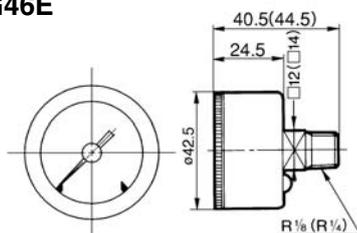
G46E-10-02M-C

- Be sure to read the precautions on page 663 for selection and mounting.

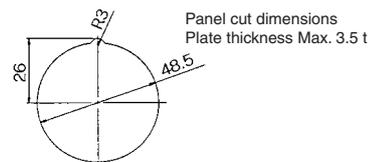
Dimensions

Dimensions in ():
R 1/4 connecting thread

G46E



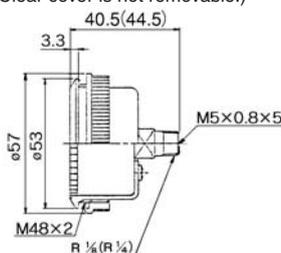
G46E: With cover ring assembly (For panel mounting)



Panel cut dimensions
Plate thickness Max. 3.5 t

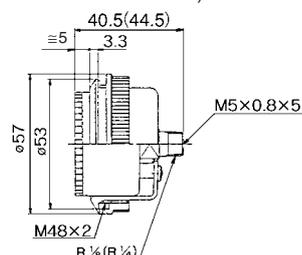
Type C

(Clear cover is not removable.)



Type C1

(Clear cover is removable.)



Standard Specifications

Model		G46E
Type		Back side thread
Port size ⁽¹⁾		R 1/8, R 1/4 (Option M: with M5 female thread)
Fluid ⁽²⁾		Air
Indication precision		±3% F.S. (Full span)
Fluid contact part cleaning		Wetted parts degrease washing
Material	Case (Surface treatment)	Rolled steel (Black melamine painted)
	Clear cover (Surface treatment)	Polycarbonate (Hard coated) Part no.: G46-00-00-2
	Stud (Surface treatment)	Brass (Electroless nickel plated)
	Bourdon tube	Brass ⁽³⁾
Mass (kg)		0.08
Attachment: With cover ring assembly	C	Part no.: 1305104-1A
	C1	Part no.: 1305104-3A

Note 1) When mounting a pressure gauge, use caution not to tighten excessively. Excessive tightening will cause product failure. Use a pipe tape for sealing. Recommended tightening torque: R 1/8: Set between 7 and 9 N·m, R 1/4: 12 and 14 N·m respectively.

Note 2) When fluid is water, use G46-□-X3. Wetted parts are made of stainless steel construction. (Some corrosion may be caused by water because this product's wetted parts are made of brass.) Design system to not be affected by water hammer when using water as fluid. Similarly, when using other fluids, please consult with SMC for fluid compatibility information concerning corrosive potential.

Note 3) Bourdon tube and internal movable parts (gear, etc.) are made of brass and are not electrolessly nickel plated. This is not an internally copper-free product.

Model (Standard)

Model	Pressure range ⁽¹⁾		Indication unit	Connection thread	Note
	MPa	psi			
G46E-2-01 to 02M	0 to 0.2	—	MPa	R 1/8 R 1/4 M5 (Female thread)	—
G46E-4-01 to 02M	0 to 0.4	—			
G46E-7-01 to 02M	0 to 0.7	—			
G46E-10-01 to 02M	0 to 1.0	—			

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

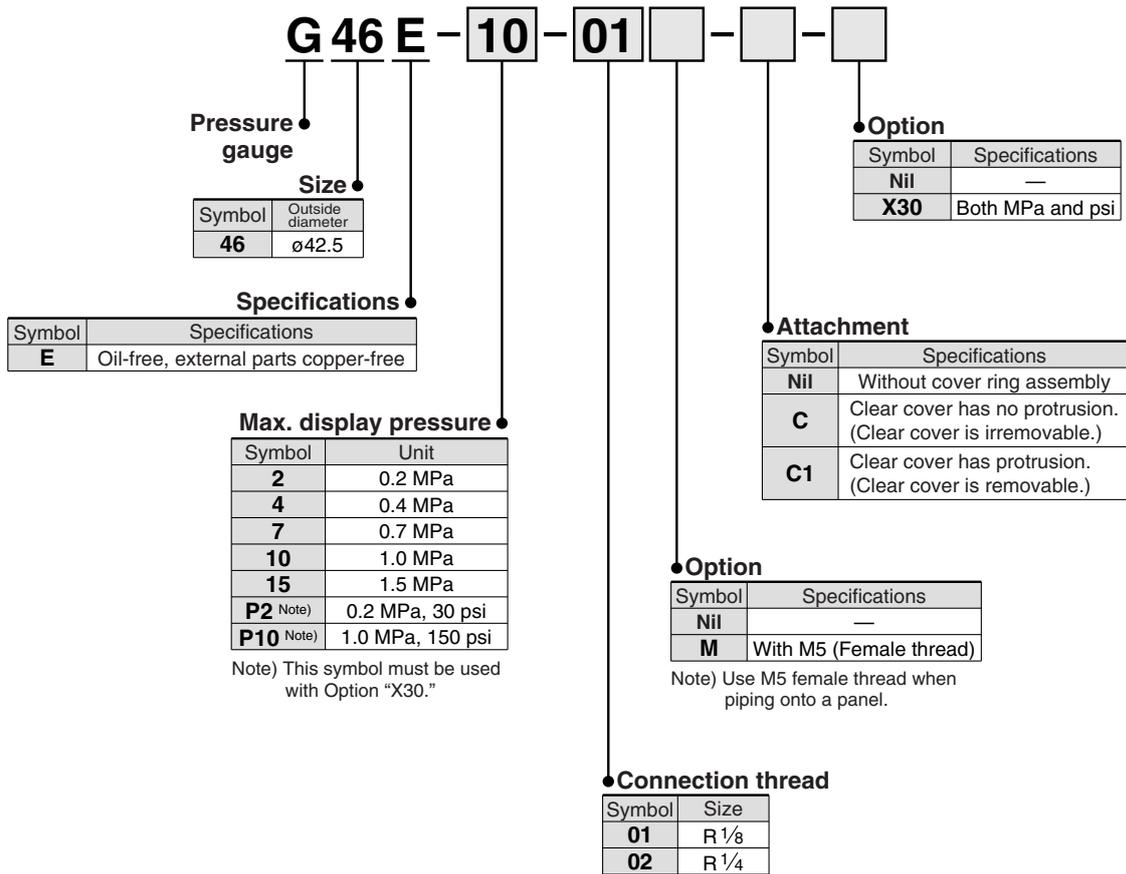
Model (Made to Order)

Other versions of this unit can be made on a made-to-order basis. Please consult SMC for details, as delivery times may be extended.

Model	Pressure range ⁽¹⁾		Indication unit	Connection thread	Note
	MPa	psi			
G46E-2-01 to 02M-C, C1	0 to 0.2	—	MPa	R 1/8 R 1/4 M5 (Female thread)	With cover ring assembly
G46E-4-01 to 02M-C, C1	0 to 0.4	—			
G46E-7-01 to 02M-C, C1	0 to 0.7	—			
G46E-10-01 to 02M-C, C1	0 to 1.0	—			
G46-P2-01 to 02M-C, C1-X30	0 to 0.2	0 to 30	MPa, psi	M5 (Female thread)	
G46-P10-01 to 02M-C, C1-X30	0 to 1.0	0 to 150			

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

How to Order



G
GS
PPA

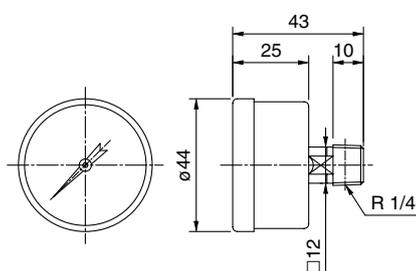
Pressure Gauge for Clean Series (10-series)

Series G49



- Be sure to read the precautions on page 663 for selection and mounting.

Dimensions



Standard Specifications Installation of a filter on the breathing hole (filtration 3 μm) enables an unit to curb particle generation from the pressure gauge inside.

Model		G49
Type		Back side thread
Port size ⁽¹⁾		R 1/4
Fluid ⁽²⁾		Air
Indication precision		±3% F.S. (Full span)
Material	Case (Surface treatment)	Zinc die-casted (Chromate plated)
	Clear cover	Glass
	Stud (Surface treatment)	Brass (Nickle plated for external parts only)
	Bourdon tube	Brass ⁽³⁾
Mass (kg)		0.095

Note 1) When mounting a pressure gauge, use caution not to tighten excessively. Excessive tightening will cause product failure. Use a pipe tape for sealing. Recommended tightening torque: Set between 12 and 14 N·m.

Note 2) When fluid is water, use G49-□-X3. Wetted parts of G49-□-X3 are made of Stainless steel. Use caution as some corrosion may be caused by water. Standard G49 pressure gauge contact area is made of brass. When using water, use caution not to apply water hammer. Similarly, when using other fluids, consult SMC for fluid compatibility information concerning corrosive potential.

Note 3) Bourdon tube and internal movable parts (gear, etc.) are made of brass, and are not nickel plated.

Model (Standard)

Model	Pressure range ⁽¹⁾		Indication unit	Connection thread	Note
	MPa				
G49-2-02	0 to 0.2		MPa	R 1/4	—
G49-7-02	0 to 0.7				
G49-10-02	0 to 1.0				

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

Model (Made to Order)

Other versions of this unit can be made on a made-to-order basis. Please consult with SMC for details, as delivery times may be extended.

Model	Pressure range ⁽¹⁾		Indication unit	Connection thread	Note
	MPa	psi			
G49-P2-02-X30	0 to 0.2	0 to 30	MPa, psi	R 1/4	—
G49-P10-02-X30	0 to 1.0	0 to 150			

Note 1) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

How to Order

G 49 - 10 - 02 - □

Pressure gauge

Size

Symbol	Outside diameter
49	ø44

Max. display pressure

Symbol	Unit
2	0.2 MPa
7	0.7 MPa
10	1.0 MPa
P2 ^{Note)}	0.2 MPa, 30 psi
P10 ^{Note)}	1.0 MPa, 150 psi

Note) This symbol must be used with Option "X30."

Option

Symbol	Specifications
Nil	—
X3	Wetted parts stainless steel ⁽²⁾
X30	Both MPa and psi

Note 1) Cover ring assembly is not available.

Note 2) Movable parts (gear, etc) inside pressure gauge are made of brass.

Connection thread

Symbol	Size
02	R 1/4