Pressure Gauge for General Purpose

i roocaro daago ioi			a. p									
	Outside	Model	Туре	Indication precision		Connection		Material		Indication ⁽¹⁾	Attachment ⁽²⁾	
	diameter	Wiodei	Type	±% FS	MPa	thread	Case	Clear cover	Stud	unit	Attacimient	
10 mg	ø15	G15	Back side thread	5	0 to 1.0	R ½ M5 (Female thread)	Zinc die-casted	Poly- carbonate	Zinc die-casted	MPa	_	Page
	ø26	G27	Back side thread	5	0 to 1.0	R ½6	coated	carbonate	coated	MPa		14-11-3
With limit indicator					0 to 0.2		Aluminum die-casted		Aluminum die-casted			
STATE OF THE PARTY	ø37.5	G36	Back side thread		0 to 0.2 0 to 0.4 0 to 0.7	R 1/8	Black disulfide molybdenum coated	Poly-	Black disulfide molybdenum coated	MPa	_	Page
		GA36	Vertical side thread		0 to 1.0 0 to 1.5	n /8	Rolled steel Black melamine painted	carbonate	Brass	WII C		14-11-4
With limit indicator						- 11	Aluminum die-casted		Aluminum die-casted			
	ø42.5	G46	Back side thread	3	0 to 0.2 0 to 0.4	R ½ R ½	Black disulfide molybdenum coated	Poly-	Black disulfide molybdenum coated	MPa	Cover ring assembly	Page
	Ø42.5	GA46	Vertical side thread	3	0 to 0.7 0 to 1.0 0 to 1.5	R ½ R ½	Rolled steel Black melamine painted	carbonate	Brass	IVII a	_	14-11-6
		G33	Back side		0 to 0.2							
	ø30	GSS	thread		0 to 0.3	R 1/8						Dogo
		GA33	Vertical side thread	3	0 to 0.4 0 to 0.6		Stainless steel	Glass	Brass	MPa	-	Page 14-11-8
	ø43	G43	Back side thread		0 to 0.7 0 to 1.0	R ½ R ¼						

Oil-free/External Parts Copper-free Pressure Gauge

Note 1) Please consult with SMC for other scale indication units and Note 2) Please contact SMC for the pressure range 0 to 0.6 MPa of GA33.

	Outside	Model	Tuno	Indication		Connection		Material		Indication ⁽¹⁾	A ++ h + (2)	
With limit indicator	diameter	Wiodei	Туре	precision ±% FS	MPa	thread	Case	Clear cover	Stud	unit	Attachment ⁽²⁾	
	ø42.5	G46E	Back side thread	3	0 to 0.2 0 to 0.4 0 to 0.7 0 to 1.0 0 to 1.5	R ½ R ¼	Rolled steel (Black melamine painted	Poly- carbonate Hard coated	Brass Electroless nickel plated	MPa	Cover ring assembly	Page 14-11-10

Pressure Gauge for Clean Series (10-Series)

Note 1) Please consult with SMC for other scale indication units and connecting thread "NPT".

Note 2) Possible for use in panel mounting.

	Outside	Model	Toron	Indication		Connection		Material		Indication ⁽¹⁾		
	diameter	INIOGEI	Туре	precision ±% FS	MPa	thread		Clear cover	Stud	unit	Attachment	
2) 204	ø44	G49	Back side thread	3	0 to 0.4 0 to 0.7 0 to 1.0	R 1/4	Zinc die-casted Chrome plated	Glass	Brass	MPa	_	Page 14-11-11

Pressure Gauge for Clean Regulator

Note 1) Please consult with SMC for other scale indication units and connecting thread "NPT".

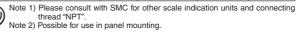
	Outside	Model	Tuno	Indication		Connection		Material		Indication ⁽¹⁾	A11 - 1 1	
With limit indicator	diameter	Woder	Туре	precision ±% FS	MPa	thread	Case	Clear cover	Stud	unit	Attachment	
13 gra	ø42.5	G46-□ - SRA, B	Back side thread	3	0 to 0.2 0 to 0.4 0 to 0.7 0 to 1.0 0 to 1.5	R ½	Stainless steel Black melamine painted	Poly- carbonate (Hard (coated)	Stainless steel		Cover ring assembly	Page 14-11-12

Pressure Gauge with Switch

Note 1) Please consult with SMC for other scale indication units and connecting thread "NPT".

Note 2) Possible for use in panel mounting.

	Outside	Model	Typo	Indication		Connection		Material		Indication ⁽¹⁾	(2)	
With limit indicator	diameter	WIOGEI	Туре	precision ±% FS	MPa	thread	Case	Clear cover	Stud	unit	Attachment ⁽²⁾	
with milit mulcator												
	ø42.5	GP46	Back side thread	3	0 to 1.0	R ½ R ½	Rolled steel Black melamine painted	Poly- carbonate	Brass	MPa	Cover ring assembly	Page 14-11-13







Pressure Gauge for General Purpose

G15, G27

O.D.: ø15 ø26



• Be sure to read the precautions on page 14-11-15 for selection and installation.

Standard Specifications

	Model	G15	G27			
Type		Back side thread				
Port size	(1)	R 1/8: M5 (Female thread)	R 1/16			
Fluid (2)		Д	ir			
Indication	n precision	±5% F.S.	(Full span)			
	Case (Surface treatment)	Zinc die-casted (Black graphite coated)				
Material	Clear cover	Polyca	rbonate			
Material	Stud (Surface treatment)	Zinc die-casted (Bla	ack graphite coated)			
Bourdon tube		Bra	ass			
Weight (k	(g)	0.01	0.015			
Applicabl	le model	ARM1000/2000 AC1000, AR1000, AW10				

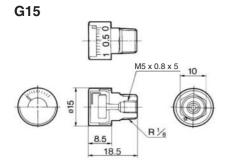
• Caution on handling: When drain or oil, etc. gets into the gauge, it may result in a malfunction. Note 1) Indicates the condition at the lower pressure limit.

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



Model (Standard)

Model	Pressure range ^{Note)}	Indication	Connection thread		
Wodei	(MPa)	unit	Connection thread		
G15-10-01	0 to 1.0	MPa	R 1/8, M5 (Female thread)		
G27-10-R1	0 to 1.0	MPa	R ½6		

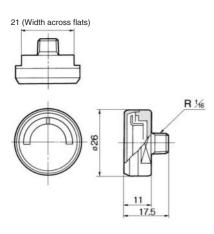
 $\label{thm:note} \mbox{Note) Do not apply more excessive pressure than max. pressure display. It will be a cause of malfunction.}$

Model (Made to Order) Other versions of this unit can be made on a made-to-order basis. Please **Model (Made to Order)** Consult with SMC for details, as delivery times may be extended.

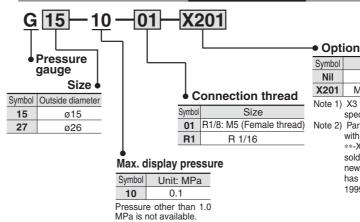
Madal	Pressure range ^{Note)}	Indication	Connection thread	
Model	(MPa)	unit	Connection timead	
G27-10-M5-X201	0 to 1.0	MPa	M5 (Female thread)	

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

G27



How to Order



X201 M5 (Female thread) only

Note 1) X3 (Wetted parts SUS)
specifications are not available.

Note 2) Part number for pressure gauge
with MPa-psi units is G27-P****X30. This will no longer be

te 2) Part number for pressure gauge with MPa·psi units is G27-P****-X30. This will no longer be sold for use in Japan after the new Weight and Measure Act has been implemented (October, 1999). G15 type is not available.

Specifications

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PPA

Pressure Gauge for General Purpose/With limit indicator

G36, GA36

O.D.: ø37



G36-10-01

 Be sure to read the precautions on page 14-11-15 for selection and installation. **Standard Specifications**

Mode	el	G36	GA36	
Туре		Back side thread	Vertical side thread	
Port size (1)		R 1/8 (Option M: With M5 female thread)		
Fluid (2)		A	ir	
Indication pr	ecision	±3% F.S. (Full span)	
	Case (Surface treatment)	Aluminum die-casted (Black disulfide molybdenum coat treated)	Rolled steel (Black melamine painted)	
	Clear cover	Polycarbonate (Par	t no.: G36-00-00-3)	
Material	Stud (Surface treatment)	Aluminum die-casted (Black disulfide molybdenum coat treated)	Brass	
	Bourdon tube	Bra	iss	
Weight (kg)	•	0.04	0.05	
Applicable n	nodel	AC2000/2500/3000 AR2000/2500/3000 AW2000/3000	_	

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 1/2: Set between 7 and 9 N.m.

Note 2) Not applicable to water as fluid because its stub 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)

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

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

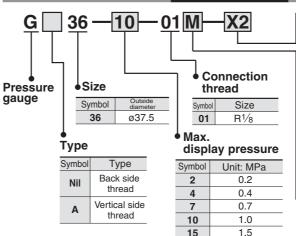
Model (Made to Order)

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.

Maralal	Pressure range Note)	Indication	Connection	Note	
Model	MPa	unit	thread	Note	
G36-10-01-X2	0 to 1.0	.45	R 1/8	Plated stem (Ni)	
G36-15-01	0 to 1.5	MPa	n /8	_	

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





Option

 Symbol
 Specifications

 Nil

 X2
 Nickel plated

 X4
 Oil-free
 (Wetted parts degrease washing)

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

Note 2) Cover ring assembly is not available.

Note 3) Part number for pressure guage with MPa-psi units is G□36-P****-X30. This will no longer be sold for use in Japan after the new Weight and Measure Act has been implemented (October, 1999).

Option

Symbol Specifications

Nil —

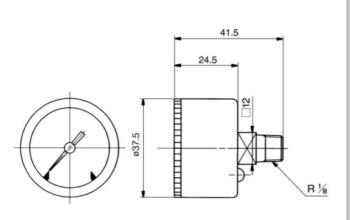
M M5 (Female thread)

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

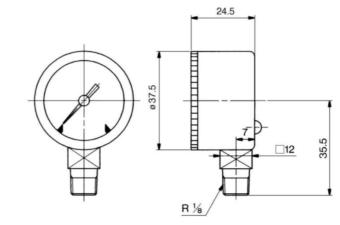


Dimensions





GA36



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Pressure Gauge for General Purpose/With limit indicator

G46, GA46

O.D.: ø42





G46-10-02M-C

 Be sure to read the precautions on page 14-11-15 for selection and installation.

Standard Specifications

Mode	el		G46	GA46
Туре			Back side thread	Vertical side thread
Port size ⁽¹⁾			R 1/8, R 1/4 (Option M:	with M5 female thread)
Fluid (2)			A	ir
Indication precision	า		±3% F.S. (Full span)
	Case (Surface treatment)		Aluminum die-casted (Black disulfide molybdenum coated)	Rolled steel (Black melamine painted)
	Clear cover		Polycarbonate (Par	t no.: G46-00-00-3)
Material	Stud (Surface treatment)		Aluminum die-casted (Black disulfide molybdenum coated)	Brass
	Bourdon tube		Bra	ISS
Weight (kg)			0.05	0.075
Applicable model			AC4000/5000/5500/6000 AR4000/5000/6000 AW4000	_
Attachment:		С	Part no.: 1305104-1A	_
With cover ring ass	sembly	C ₁	Part no.: 1305104-3A	_

Note 1) Indicates the condition at the lower pressure limit. 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 stub is made from aluminum die-casting. Water may cause corrosion and block the air passage. Use G46-□-X3 pressure gauge with wetted parts SUS (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 ^{Note)}	Indication	Connection	Note			
	MPa	unit	thread	Note			
G46-2-01/ 02	0 to 0.2						
G46-4-01/ 02	0 to 0.4		- 17 17				
G46-7-01/ 02	0 to 0.7		R 1/8, 1/4				
G46-10-01/ 02	0 to 1.0	MD-					
G46-2-01 to 02M	0 to 0.2	MPa		_			
G46-4-01 to 02M	0 to 0.4		R 1/8, 1/4				
G46-7-01 to 02M	0 to 0.7		M5 (Female thread)				
G46-10-01 to 02M	0 to 1.0		,				
GA46-10-01 to 02	0 to 1.0		R ½, ¼				
NIII D	N 1						

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

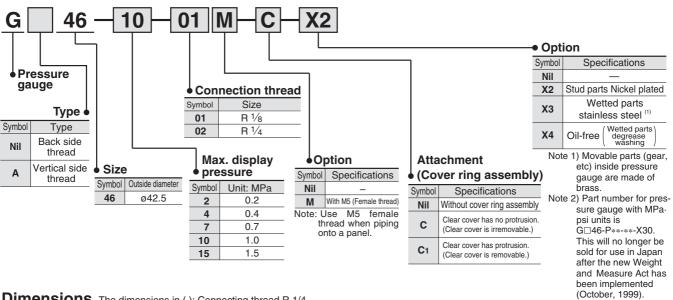
Other versions of this unit can be made on a made-to-order basis. Please consult Model (Made to Order) with SMC for details, as delivery times may be extended.

Model	Pressure	range ^{Note)}	Indication	Connection	N
Model	MPa	psi	unit	thread	Note
G46-2-01 to 02-C/ C1	0 to 0.2	_			
G46-4-01 to 02-C/ C1	0 to 0.4	_		R ½, ¼	
G46-7-01 to 02-C/ C1	0 to 0.7			1176,74	
G46-10-01 to 02-C/ C1	0 to 1.0	_	MPa		With cover
G46-2-01 to 02M-C/ C1	0 to 0.2	_			ring assembly
G46-4-01 to 02M-C/ C1	0 to 0.4	_		R ½, ¼	
G46-7-01 to 02M-C/ C1	0 to 0.7	_		M5 (Female thread)	
G46-10-01 to 02M-C/ C1	0 to 1.0	_			
G46-4-02-X30	0 to 0.4	0 to 60	MPa poi	R 1/4	
G46-10-02-X30	0 to 1.0	0 to 150	MPa, psi	n /4	_
G46-2-02M-X4	0 to 0.2	_		Oil-f	
G46-4-02M-X4	0 to 0.4	_			Oil from
G46-7-02M-X4	0 to 0.7	_			Oll-lifee
G46-10-02M-X4	0 to 1.0	_			
G46-2-02M-C/ C1-X4	0 to 0.2	_	MPa	M5 (Female thread)	Oil from
G46-4-02M-C/ C1-X4	0 to 0.4		ivira		Oil-free, With cover
G46-7-02M-C/ C1-X4	0 to 0.7	_			ring assembly
G46-10-02M-C/ C1-X4	0 to 1.0				3
G46-10-02-X2	0 to 1.0	_		D 1/	Plated stem (Ni)
G46-15-01 to 02	0 to 1.5	_		R 1/4	_

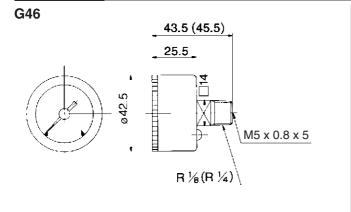
Note) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.



How to Order

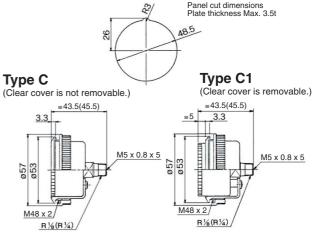


Dimensions The dimensions in (): Connecting thread R 1/4



GA46 25.5(27.5) ø42.5 7.5 (8.5)(**□14**) R%(R%)

G46: With cover ring assembly (For panel mount)



For setting method, Refer to page 14-11-15.

F.R.L.

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Pressure Gauge for General Purpose

G33, GA33

O.D.: ø30





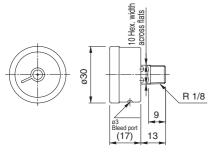
Standard Specifications

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

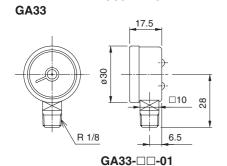
- Note 1) When mounting a pressure gauge, use caution not to tighten excessively. Excessive tightening will cause product to be damaged. Use a pipe tape for sealing. Recommended tightening torque: R 1/8: Set between 7 and 9 N·m.
- Note 2) When using other fluids, please consult with SMC for fluid compatibility information concerning corrosive potential.

Dimensions

G33



G33-□□-01



Model (Standard)

Model	Pressure range ^{Note)} MPa	Indication unit	Connection thread	Note
G33-2-01	0 to 0.2			
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	MPa	R 1/8	_
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			

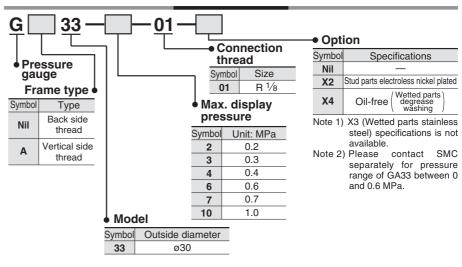
Note) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

Model (Made to Order)

Model	Pressure range ^{Note)} MPa	Indication unit	Connection thread	Note
G33-2-01-X2	0 to 0.2			
G33-3-01-X2	0 to 0.3			X2: Stud parts
G33-4-01-X2	0 to 0.4			electroless
G33-6-01-X2	0 to 0.6			nickel plated
G33-10-01-X2	0 to 1.0	MPa	R 1/8	
GA33-2-01-X2	0 to 0.2			
GA33-4-01-X2	0 to 0.4			X2: Stud parts
GA33-7-01-X2	0 to 0.7			nickel plated
GA33-10-01-X2	0 to 1.0			
G33-10-01-X4	0 to 1.0			X4: Oil-free (Wetted parts degreasing)

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

How to Order



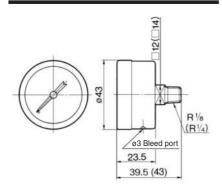
Pressure Gauge for General Purpose

G43 O.D.: ø43



G43-10-01

External Dimensions (Except made-to-order products)



The dimensions in (): Connecting thread R $\frac{1}{4}$

Standard Specifications

el	G43		
	Back side thread		
	R ½, R ¼		
	Air		
on	±3% F.S. (Full span)		
Case	Stainless steel		
Clear cover	Glass		
Stud	Brass		
Bourdon tube	Brass		
ĺ	IP200/600, IT600, IR2000/3000, IT2000/4000		
	on Case Clear cover Stud Bourdon tube		

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—C-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.

Model (Standard)

Model	Pressure range ^{Note)}	Indication	Connection	Note
Model	MPa	unit	thread	Note
G43-2-01 to 02	0 to 0.2		R 1/8, R 1/4	
G43-4-01 to 02	0 to 0.4		H /8, H /4	
G43-6-01	0 to 0.6	MPa	R 1/8	<u> </u>
G43-7-01 to 02	0 to 0.7		D 1/ D 1/	
G43-10-01 to 02	0 to 1.0		R 1/8, R 1/4	

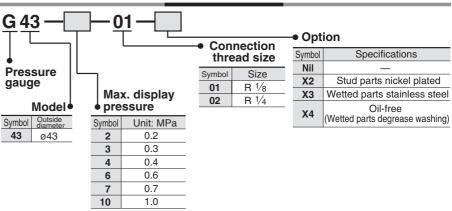
Note) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

Model (Made to Order)

Model	Pressure range ^{Note)} MPa	Indication unit	Connection thread	Note
G43-2-01 to 02-X2	0 to 0.2		R 1/8, R 1/4	
G43-4-01 to 02-X2	0 to 0.4		n /8, n /4	X2: Stud parts
G43-6-01-X2	0 to 0.6		R 1/8	nickle plated
G43-7-01 to 02-X2	0 to 0.7		R ½, R ¼	monio piatod
G43-10-01 to 02-X2	0 to 1.0		n /8, n /4	
G43-2-01 to 02-X3	0 to 0.2		D 1/ D 1/	
G43-4-01 to 02-X3	0 to 0.4		R 1/8, R 1/4	X3: Wetted parts
G43-6-01-X3	0 to 0.6	MPa	R 1/8	stainless steel
G43-7-01 to 02-X3	0 to 0.7		D 1/ D 1/	Stanness Steel
G43-10-01 to 02-X3	0 to 1.0		R 1/8, R 1/4	
G43-2-01 to 02-X4	0 to 0.2		R ½, R ¼	
G43-4-01 to 02-X4	0 to 0.4		n /8, n /4	X4: Oil-free
G43-6-01-X4	0 to 0.6		R ⅓	(Wetted parts
G43-7-01 to 02-X4	0 to 0.7		R ½, R ¼ degreasing)	degreasing)
G43-10-01 to 02-X4	0 to 1.0		11/8, F1/4	

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

How to Order



SMC

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PPA

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

G46E

O.D.: ø42





G46E-10-02M

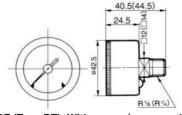
G46E-10-02M-C

· Be sure to read the precautions on page 14-11-15 for selection and installation.

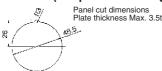
Dimensions

Dimensions in: R 1/4 connecting thread

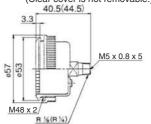
G46E



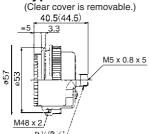
G46E (Type DT): With cover ring assembly (For panel mounting)



Type C (Clear cover is not removable.)



Type C1





For mounting method, refer to page

Standard Specifications

Model	Model		G46E
Туре			Back side thread
Port size (1)			$R^{1/8}$, $R^{1/4}$ (Option M: with M5 female thread)
Fluid (2)			Air
Indication precision	1		±3% F.S. (Full span)
Fluid contact part of	leaning		Wetted parts degrease washing
	Case (Surface treatment)		Rolled steel (Black melamine painted)
Material	Clear (Surf treatn	ace	Polycarbonate (Hard coated) Part no.: G46-00-00-2
	Stud (Surface treatment)		Brass (Electroless nickel plated)
	Bourdon tube		Brass (3)
Weight (kg)			0.08
Attachment:		С	Part no.: 1305104-1A
With cover ring ass	embly	C 1	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 ^{Note)}	Indication	Connection	Note
Model	MPa	unit	thread	Note
G46E-2-01 to 02M	0 to 0.2		R ½	
G46E-4-01 to 02M	0 to 0.4	MPa	R 1/4 M5 (Female thread)	_
G46E-7-01 to 02M	0 to 0.7	IVII a		_
G46E-10-01 to 02M	0 to 1.0		MS (Female thread)	

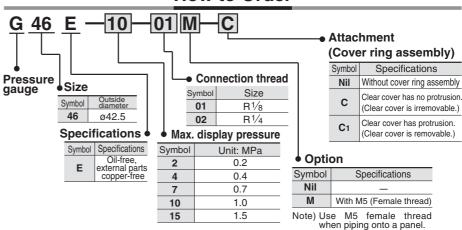
Note) Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

Model (Made to Order) Other versions of this unit can be made on a made-to-order basis. Please consult SMC for datails, as delivery times may be extended.

detaile, de delivery times may be extended.						
Model	Pressure range ^{Note)}	Indication	Connection	Note		
Wodel	MPa	unit	thread			
G46E-2-01 to 02M-C/ C1	0 to 0.2		R 1/8			
G46E-4-01 to 02M-C/ C1	0 to 0.4	MPa	R 1/4	With cover		
G46E-7-01 to 02M-C/ C1	0 to 0.7	IVIFA	M5 (Female thread)	ring assembly		
G46E-10-01 to 02M-C/ C1	0 to 1.0		ivio (i einale tilleau)			

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

How to Order



Pressure Gauge for Clean Series (10-series)

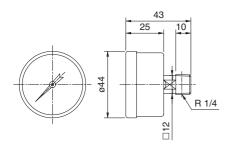
G49

O.D: ø44



• Be sure to read the precautions on page 14-11-15 for selection and installation.

Dimensions



Standard Specifications

Installation of a filter on the breathing hole (filtration 3 $\mu m)$ enables an unit to curb particle generation from the pressure gauge inside.

Mode	el	G49
Туре		Back side thread
Port size ⁽¹⁾		R 1⁄4
Fluid (2)		Air
Indication pr	ecision	±3% F.S. (Full span)
	Case (Surface treatment)	Zinc die-casted (Chromate plated)
Material	Clear cover	Glass
iviateriai	Stud (Surface treatment)	Brass (Nickle plated for external parts only)
	Bourdon tube	Brass (3)
Weight (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.

and 14 N·m.

Note 2) When fluid is water, use G46-□-X3. Wetted parts of G46-□-X3 are made of Stainless steel. Use caution as some corrosion may be caused by water. Standard G49 pressure gauge conact 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.

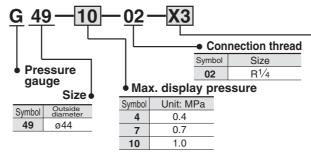
Note 3) Bourdon tube and internal movable parts (gear, etc.) are made of brass, and are not nickel plated.

Model (Standard)

Model	Pressure range Note MPa	Indication unit	Connection thread	Note
G49-4-02	0 to 0.4			
G49-7-02	0 to 0.7	MPa	R 1/4	_
G49-10-02	0 to 1.0			

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

How to Order



Option

Symbol	Specifications				
Nil	_				
Х3	Wetted parts stainless steel(2)				

Note 1) Cover ring assembly is not available.

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

Note 3) Part number for pressure gauge with MPa·psi units is G49-P**-**-X30. This will no longer be sold for use in Japan after the new Weight and Measure Act has been (October, implemented

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Pressure Gauge for Clean Regulator/With Limit Indicator

G46–**■**–■–SRA, B

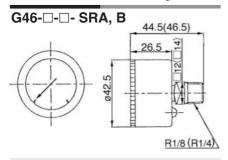
O.D.: ø42



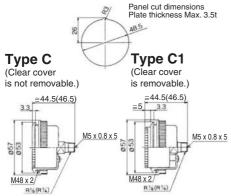
G46-10-02-SR A, B

· Be sure to read the precautions on page 14-11-15 for selection and installation.

Dimensions Dimensions in (): R 1/4 connectingthread



G46-□-□- SRB: With cover ring assembly (For panel mount)



Standard Specifications

Standard S	<u>. </u>	10113					
Model			G46-□-SRA	G46-□-SRB			
Туре			Back side thread				
Port size (1)			R 1/8,	R ½, R ¼			
Fluid (2)			Air				
Indication pre	cision		±3% F.S. (Full span)				
Fluid contact part	cleaning (Wet	ted part)	Precision cleaning	General degreasing			
Assembly/environment		Clean room M5.5 (Class 10000)	General production line				
Oil/Water free	,		Oil/Water-free ⁽³⁾				
	Case		Stainless steel 304 (B	lack melamine painted)			
Material (4)	Clear cover (Surface treatment)		Polycarbonate (Hard coated) Part no.: G46-00-00-2				
	Stud		Stainless steel 316				
	Bourdon tube		Stainless steel 316				
Attachment:	Attachment: C		Part no.: 1305104-6A				
cover ring assembly C ₁		Part no.: 1305104-7A					
Packaging		Polyethylene cap for stud parts.Airtight polyethylene bag	Polyethylene cap for stud parts Polyethylene bag				
Weight (kg)			0.085				

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 using water, use caution not to apply water hammer. When using other fluids, please consult with SMC for compatibility information concerning corrosion potential.

Note 3) When manufacturing pressure gauge, SMC uses caution not to allow water to remain in the wetted

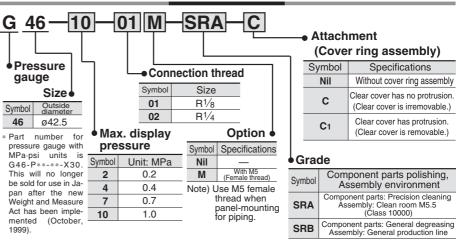
parts.
Note 4) Movable parts (gear, etc) inside pressure gauge are made of brass.

Model (Standard) Made-to-order products, (not including models above) may take longer leadtime. Please consult with SMC beforehand.

Model	Pressure range range	Indication	Connection	Note
Model	MPa	unit	thread	
G46-2-01 to 02-SRA	0 to 0.2	to 0.2 to 0.4 MPa to 0.7	R ½8 R ½	
G46-2-01 to 02-SRB				
G46-4-01 to 02-SRA	0 to 0 4			
G46-4-01 to 02-SRB	0 to 0.4			_
G46-7-02-SRA	0 to 0.7			
G46-7-02-SRB	0 10 0.7			
G46-10-02-SRA	0 += 1 0			
G46-10-02-SRB	0 to 1.0	l		

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

How to Order



O.D.: ø42

Pressure Gauge with Switch

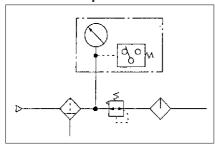
GP46





- A pressure switch function has been added to the gauge.
- The pressure switch is equipped with a light for verifying operation.
- The pressure gauge is equipped with a limit indicator.
- To be used for verifying the supply pressure.

Circuit Example



• Be sure to read the precautions in page 14-11-15 for selection and installation.

Standard Specifications

	Model			GP46		
	Type			Back side thread		
	Ambient and fluid temperature			−5 to 60°C (No freezing)		
ge	Indicated pressure range			0 to 1.0 MPa		
Gauge	Port size (1)			R 1/8, 1/4 (Option M: with M5 female thread)		
	Fluid (2)			Air		
	Indication precision			±0.03 MPa		
	Setting range (3)(4)			1 to 0.8 MPa		
	Hysteresis			0.07 MPa		
switch	Pointer error (5)			±0.05 MPa (5 to 40°C)		
S .				±0.08 MPa (-5 to 60°C) No freezing		
Pressure	Contact			With light: 1a (Normally open) Without light: 1ab (Normally open/ Normally closed)		
res	Wiring			Lead wire (Length: 300 mm)		
₽ [Indicator light	AC		Neon light		
		DC		Light emitting diode (LED)		
Attachment: With cover ring assembly		С	Part no.: 1305104-4A			
	Weight (kg)			0.12		

Note 1) Indicates the condition at the lower pressure limit. 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) Water is not an acceptable fluid. When using the other fluids, please consult with SMC for compatibility information concerning corrosion.

Note 3) Set value of pressure switch is indicated by pointer (green). It is the point where the circuit between N.O. (white) and COM (black) is turned off during pressure decrease. To set the value, turn needle in clockwise position to the correct value. When setting; if desired set position has been passed, turn needle in a counterclockwise direction back again beyond the desired value and then once again return needle in a clockwise direction stopping at the desired value. Value must be set while needle is traveling in a clockwise direction.

Note 4) Make sure to provide a minimum difference of 0.1 MPa between the set pressure and the operating pressure (including the pressure drop). If the difference is smaller, it could lead to improper operation. Refer to page 14-11-15 for details on how to set the setting needle. Use caution: Operating pressure should be the sum of the pressure of the setting needle error (±0.05 MPa), the hysteresis (0.07 MPa), and the display accuracy (±0.05 MPa) on the set pressure value, or the circuit between N.O. (white) and COM (black) may not turn ON while pressure is increasing.

Note 5) Maximum error value: Add the pressure gauge indicator error of 0.03 MPa to the setting needle error.

Model (Standard) 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.

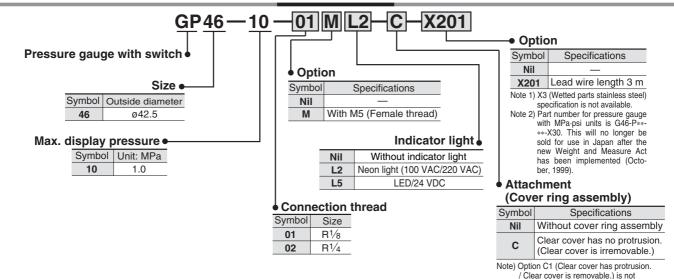
Model	Pressure range ⁽¹⁾	Indication	Connection thread	Note
Model	MPa	unit		
GP46-10-01 to 02			n 1/	
GP46-10-01 to 02L2	0 to 1.0	MPa	R ½	_
GP46-10-01 to 02L5			R 1/4	

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

Micro-switch Rated Voltage

Load	Load resistant			
Rated voltage	30 VDC	125 VAC	250 VAC	
Operating current range	0.01 to 0.5 A	0.01 to 0.3 A	0.01 to 0.2 A	

How to Order



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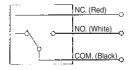
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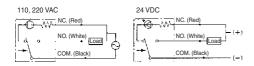
compliant.

Circuit Diagram

Without indicator light

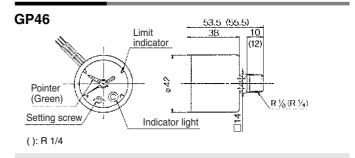


With indicator light



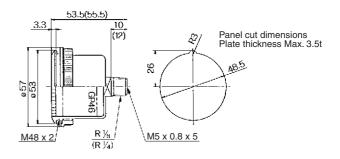
The arrow in the diagram indicates the direction of the pressure increase. The light turns OFF when the pressure becomes higher than the set pressure and turns ON when the pressure becomes lower than the set pressure.

Dimensions



GP46: With cover ring assembly (For panel mounting)

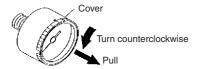
Clear cover is not removable.



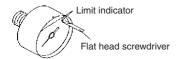


Procedure for Setting the Limit Gauge Indicator

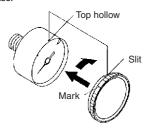
(1) Before setting the (green) limit indicator, turn the cover counterclockwise (approximately 6 to 7 mm) until it stops. Then, remove by pulling it towards you.



(2) Use a flat head screwdriver (with a 2.9 mm blade width) to set the (green) limit indicator. Be careful not to bend the other needle or damage the dial plate.



(3) After completing the setting, replace the cover. Fit the cover by aligning the cutout in the cover to the groove on the top of the black case. Turn the cover clockwise (approximately 6 to 7 mm) until it stops. Make sure that the matching mark on the cover is aligned with the groove on the top of the



Be sure to read before handling. Refer to pages 14-21-3 to 14-21-4 for Safety Instructions and Common Precautions.

Selection

∧Caution

- 1. Do not apply high load voltage (current) or surge current as this can cause the switch to malfunction.
- 2. Make sure that no direct impact or vibrations are applied to the body.
- 3. If operating under pressure pulsations or in high frequency operations, please contact SMC.

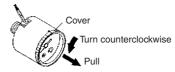
Mounting

∧ Caution

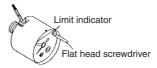
- 1. During transport and installation, do not apply shock to the product, such as by dropping doing so will affect its precision.
- 2. Regarding the installation posture, place it perpendicular to the ground, with the zero point on the reading of a pressure gauge facing down.
- 3. Do not install it in an area that is exposed to high temperature or humidity, because doing so will lead to improper operation.
- 4. To screw in the pressure gauge, make sure to turn the gauge by placing a wrench over the square wrench flats. If the pressure gauge is screwed in by holding it on some other area, air leakage or damage may result.

Procedure for Setting the Limit Gauge Indicator and the Setting Needle

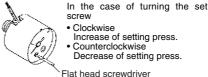
(1) Before setting the limit indicator and the (green) setting needle, turn the cover counterclockwise (approximately 6 to 7 mm) until it stops. Then, remove by pulling it towards you.



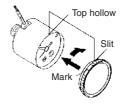
(2) Use a flat head screwdriver (with a 2.9 mm blade width) to set the (green) limit indicator. Be careful not to bend the other needle or damage the dial plate.



(3) Before setting the setting needle, use a flat head screwdriver (with a 2.9 mm blade width) to turn the setting screw and set the setting needle to the set pressure



Fit the cover by aligning the cutout in the cover to the groove on the top of the black case. Turn the cover clockwise (approximately 6 to 7 mm) until it stops. Make sure that the matching mark on the cover is aligned with the groove on the top of the

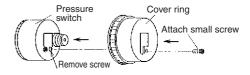


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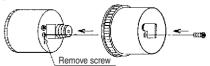
(4) After completing the setting, replace the cover.

Procedure for Assembling the Cover Ring Assembly

Pressure gauge for general purpose



Pressure gauge with switch



- 1. Remove the small screw (1 position) from the pressure gauge.
- 2. Place the cover ring on the pressure gauge.
- 3. Using the small screw that is provided with the cover ring, install the cover ring. The installation torque is 0.3 to 0.5 N·m.

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