# Pressure Gauge for General Purpose

Tressure dauge for	actic	i ui i	arpos									
	Outside diameter	Model	Туре	Indication precision ±% FS	Pressure range MPa	Connection thread	Case	Material Clear cover	Stud	Indication <sup>(1)</sup> unit	Attachment <sup>(2)</sup>	
	ø15	G15	Back side thread	5	0 to 1.0	R <sup>1</sup> ⁄ <sub>8</sub> M5 (Female thread)	Zinc die-casted Black graphite coated	Poly- carbonate	Poly- bonate Slack graphite coated	MPa	- Page 14-11-3	
ac ac	ø26	G27	Back side thread		0 to 1.0	R 1/16				MPa		
With limit indicator	ø37.5	G36 GA36	Back side thread Vertical side	- 3	0 to 0.2 0 to 0.4 0 to 0.7 0 to 1.0 0 to 1.5	R 1⁄8	Aluminum die-casted Black disulfide molybdenum coated Rolled steel Black melamine pairted	Poly- carbonate	Aluminum die-casted Black disulfide molybdenum coated Brass	MPa	_	Page 14-11-4
With limit indicator	-	G46	Back side		0 to 0.2	R <sup>1</sup> / <sub>8</sub>	Aluminum die-casted Black disulfide		Aluminum die-casted (Black disulfide)		Cover ring	
	ø42.5	GA46	Vertical side thread	3	0 to 0.4 0 to 0.7 0 to 1.0 0 to 1.5	R <sup>1</sup> ⁄ <sub>4</sub> R <sup>1</sup> ⁄ <sub>8</sub> R <sup>1</sup> ⁄ <sub>4</sub>	Rolled steel Black melamine painted	Poly- carbonate	Brass	MPa	assembly	Page 14-11-6
	ø30 ø43	G33 GA33 G43	Back side thread Vertical side thread Back side	3	0 to 0.2 0 to 0.3 0 to 0.4 0 to 0.6 0 to 0.7 0 to 1 0	R <sup>1</sup> / <sub>8</sub> R <sup>1</sup> / <sub>8</sub>	Stainless steel	Glass	Brass	MPa	_	Page 14-11-8
thread     U to 1.0     R 1/4       Image: Note 1) Please consult with SMC for other scale indication units and connecting thread "NPT".												
Oil-free/External Parts	Coppe	er-fro	ee Press	sure Ga	AUGE Pressure	No	te 3) Please cont	tact SMC fo	or the pressure ra	ange 0 to 0.6 N	/IPa of GA33.	
With limit indicator	Outside diameter	Model	Туре	precision ±% FS	range MPa	Connection thread	Case	Clear cover	Stud	Indication <sup>(1)</sup> unit	Attachment <sup>(2)</sup>	
	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 <sup>1</sup> ⁄ <sub>8</sub> R <sup>1</sup> ⁄ <sub>4</sub>	Rolled steel Black melamine painted	Poly- carbonate (Hard coated)	Brass Electroless nickel plated	MPa	Cover ring assembly	Page 14-11-10
Procedure Course for Clean Series (10 Series)												
	Outside diameter	Model	Туре	Indication precision ±% FS	Pressure range MPa	Connection thread	Case	Material Clear cover	Stud	Indication <sup>(1)</sup> unit	Attachment	
	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 (Nickel plated)	MPa	_	Page 14-11-11
Pressure Gauge for	Clear	n Re	aulator		Ş		Please consult w hread "NPT".	ith SMC fo	r other scale indi	cation units a	nd connecting	
With limit indicator	Outside diameter	Model	Туре	Indication precision ±% FS	Pressure range MPa	Connection thread	Case	Material Clear cover	Stud	Indication <sup>(1)</sup> unit	Attachment	
	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 <sup>1</sup> / <sub>8</sub> R <sup>1</sup> / <sub>4</sub>	Stainless steel (Black melamine) painted	Poly- carbonate (Hard coated)	Stainless steel	MPa	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.												
With limit indicator	Outside diameter	Model	Туре	Indication precision ±% FS	Pressure range MPa	Connection thread	Case	Material Clear cover	Stud	Indication <sup>(1)</sup> unit	Attachment <sup>(2)</sup>	
	ø42.5	GP46	Back side thread	3	0 to 1.0	R <sup>1</sup> / <sub>8</sub> R <sup>1</sup> / <sub>4</sub>	Rolled steel Black melamine painted	Poly- carbonate	Brass	MPa	Cover ring assembly	Page 14-11-13
14-11-2					Ş	Note 1) Note 2)	Please consult w thread "NPT". Possible for use in	ith SMC fo	r other scale indi punting.	cation units a	nd connecting	

# Pressure Gauge for Clean Regulator/With Limit Indicator

#### G46– I-I-SRA, B



#### 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



# R1/8 (R1/4)

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



### Standard Specifications

Model			G46-□-SRA	G46-□-SRB		
Туре			Back side thread			
Port size (1)			R <sup>1</sup> ⁄ <sub>8</sub> , R <sup>1</sup> ⁄ <sub>4</sub>			
Fluid (2)			Air			
Indication precision			±3% F.S. (Full span)			
Fluid contact part cleaning (Wetted part)			Precision cleaning	General degreasing		
Assembly/environment			Clean room M5.5 (Class 10000)	General production line		
Oil/Water free			Oil/Water-free <sup>(3)</sup>			
Material <sup>(4)</sup>	Case		Stainless steel 304 (Black melamine painted)			
	Clear cover (Surface treatment)		Polycarbonate (Hard coated) Part no.: G46-00-00-2			
	Stud		Stainless steel 316			
	Bourdon tu	be	Stainless steel 316			
Attachment:		С	Part no.: 1305104-6A			
		<b>C</b> 1	Part no.: 1305104-7A			
Packaging			<ul><li>Polyethylene cap for stud parts.</li><li>Airtight polyethylene bag</li></ul>	<ul><li>Polyethylene cap for stud parts.</li><li>Polyethylene bag</li></ul>		
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 ½ : Set between 7 and 9 N·m, R ½ : 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.

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 con-sult with SMC beforehand.

Madal	Pressure range <sup>Note)</sup>	Indication	Connection	Note	
Woder	MPa	unit	thread		
G46-2-01 to 02-SRA	0 to 0 2		R ½ R ¼	_	
G46-2-01 to 02-SRB	0100.2				
G46-4-01 to 02-SRA	0 to 0.4				
G46-4-01 to 02-SRB		MPa			
G46-7-02-SRA	0 to 0 7	Wir a			
G46-7-02-SRB	0100.7				
G46-10-02-SRA	0 to 1 0				
G46-10-02-SRB	0.01.0				

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

# How to Order



## O.D.: ø42



# **Circuit Diagram**

# Without indicator light



## With indicator light



COM. (Black) (-)

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.





- **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.

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3. Using the small screw that is provided with the cover ring, in-

stall the cover ring. The installation torque is 0.3 to 0.5 N·m.