

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

Series G46E

RoHS



G46E-10-02M



G46E-10-02M-C

- Be sure to read the precautions on page 739 for selection and mounting.

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⁾
Weight (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 to 9 N·m, R 1/4: 12 to 14 N·m respectively.

Note 2) When fluid is water, use G46-□-SRB. 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)

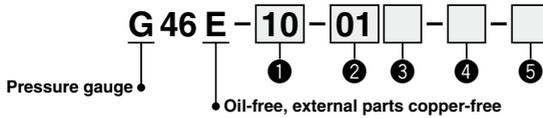
Other versions of this unit can be made on a Made-to-Order basis. Please consult SMC for details, as delivery times may be extended.

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	—			
G46E-P2-01 to 02M-C, C1-X30 ⁽²⁾	0 to 0.2	0 to 30	MPa, psi		
G46E-P10-01 to 02M-C, C1-X30 ⁽²⁾	0 to 1.0	0 to 150			

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

Note 2) Under the New Measurement Law, products for overseas use only (SI unit type for use in Japan)

How to Order

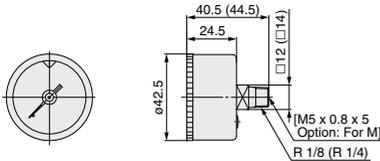


	Symbol	Description	G46E
	+		
① Max. display pressure	2	0.2 MPa	●
	4	0.4 MPa	●
	7	0.7 MPa	●
	10	1.0 MPa	●
	15	1.5 MPa	●
	P2 ⁽¹⁾	0.2 MPa, 30 psi	○ ⁽²⁾
P7 ⁽¹⁾	0.7 MPa, 100 psi	○ ⁽²⁾	
P10 ⁽¹⁾	1.0 MPa, 150 psi	○ ⁽²⁾	
	+		
② Connection thread	01	R 1/8	●
	02	R 1/4	●
	+		
③ Option	Nil	—	●
	M ⁽³⁾	With M5 (Female thread)	●
	+		
④ Attachment ^{Note 4)}	Nil	Without cover ring assembly	●
	C	Clear cover has no protrusion. (Clear cover is irremovable.)	●
	C1	Clear cover has protrusion. (Clear cover is removable.)	●
	+		
⑤ Special specification	Nil	—	●
	X30	Both MPa and psi	○ ⁽²⁾

Note 1) This symbol must be used with Special specification "X30."
 Note 2) Under the New Measurement Law, products for overseas use only (SI unit type for use in Japan)
 Note 3) To use the pressure gauge with M5 (female thread), attach the joint when piping the tube.
 Note 4) For pressure gauges with the cover ring assembly, it is recommended to select the option M so as to perform the piping.

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

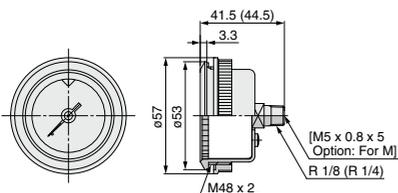
G46E-□□-01 to 02 (M)



With cover ring assembly (For panel mount)

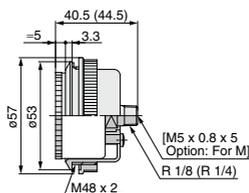
G46E-□□-01 to 02 (M)-C

Type C (Clear cover is not removable.)

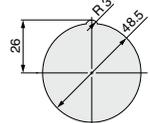


G46E-□□-01 to 02 (M)-C1

Type C1 (Clear cover is removable.)



Panel fitting dimensions
Plate thickness Max. 3.5 t



G
GS
PPA

Refer to page 738 for mounting method.