

Thin pressure gauge

G401-W Series

Thin, compact design ideal for incorporating devices. Suitable for filter regulator, regulator, and pressure switch (P4000-W).

Connection: O ring seal, set screw

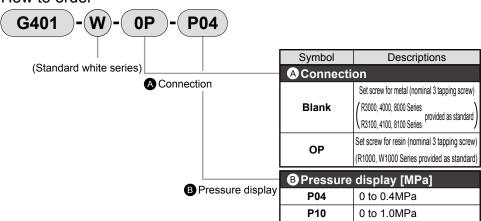




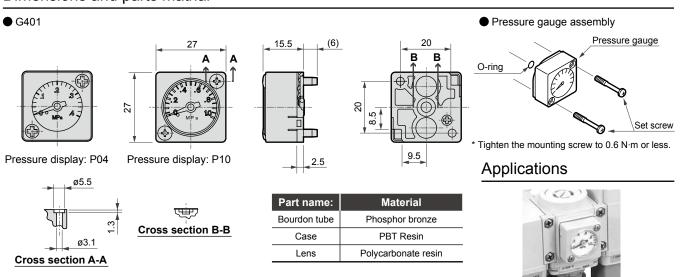
Specifications

Descri	ptions	G401-W	
Working fluid		Compressed air	
Fluid temper	ature °C	5 to 60	
Ambient tempe	erature °C	5 to 60	
Precision	Class	JIS Class 3 equivalent (±3%F.S. at 5 to 35°C)	
Shape		Square shaped, set screw	
Length of display section		ø26	
Material Housing		PBT Resin	
Material	Lens	Polycarbonate resin	
- MD		0 to 0.4	
Pressure range MPa		0 to 1.0	
Connection		O ring seal, set screw	
Weight	g	11	

How to order



Dimensions and parts matrial





Pressure gauge with safety mark

G40D/G50D Series

Green zone and red zone for easy management.

Port size: Rc1/8 to Rc1/4

JIS symbol

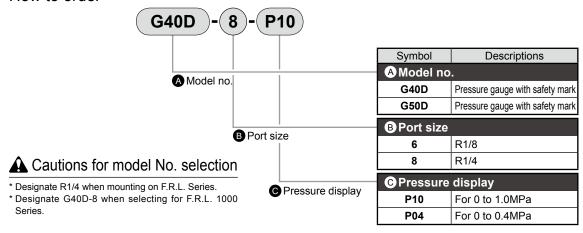




Specifications

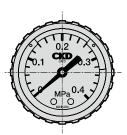
Descriptions	G40D, G50D			
Descriptions	P10	P04		
Working fluid	Compre	ssed air		
Full scale MPa	1	0.4		
Safety mark setting range MPa	0.15 to 1.0	0.06 to 0.4		
Maximum setting range MPa	0.45	0.18		
Ambient temperature °C	5 to	60		
Fluid temperature °C	5 to	60		
Port size F	1/8, 1/4			
Precision	JIS Class 3 equivalent	(±3%F.S. at 5 to 35°C)		
Weight g	G40D: 85	G50D: 100		

How to order



Dimensions and parts matrial

How to adjust pressure range



Part name:

Bourdon tube, stock

Housing

Lens

Mark section



Material

Brass

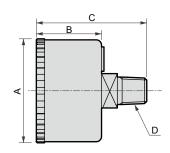
Steel sheet+paint

Polyamide resin

PBT Resin

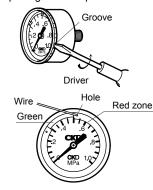


Pressure display: P10



Model no.	Α	В	С	D
G40D-6	ø	26.5	44	R1/8
G40D-8	42.5	20.5	46	R1/4
G50D-6	ø	27.5	44	R1/8
G50D-8	52.5	21.5	46	R1/4

When opening the transparent case



Remove the transparent cover and insert a wire to the hole in red zone to move the red zone. After the adjustment, always supply compressed air after assembling the transparent cover.





Pressure gauge with limit mark

G45D Series

Easy visual inspection with green arrow.

Port size: Rc1/8 to Rc1/4

JIS symbol



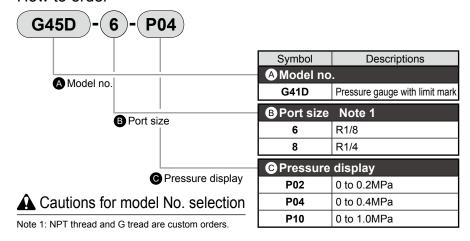


Specifications

-		
Desc	riptions	G45D
Working fluid		Compressed air
Fluid tempe	erature °C	5 to 60
Ambient temp	perature °C	5 to 60
Precision	Note 1	JIS Class 2.5 equivalent
Shape		Back side thread
Length of display section		ø39
	Stud	Brass
Material	Housing	Steel sheet+paint (white)
Material	Lens	Polyamide resin
	Mark section	Polyacetal resin
Pressure range MPa		0 to 0.2
(Setting range)		0 to 0.4 0 to 1.0
Port size		R1/8, 1/4
Weight	g	74

Note 1: The guaranteed display accuracy temperature is 20 ± 15 °C.

How to order

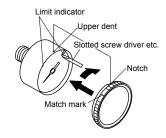


How to adjust

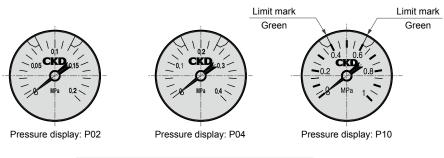
Turn the clear case counterclockwise and pull forward.

Move the green arrow with a slotted driver to set the limit mark. After the adjustment, always supply compressed air after assembling the transparent cover.

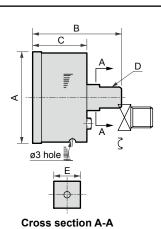
Do not bend other indicators and scale when setting the limit mark.



Dimensions



Model no.	Α	В	С	D	E
G45D-6	ø39	41.5	26	R1/8	14
G45D-8	ø39	44.5	26	R1/4	14





Pressure gauge with limit mark

G41D Series

Easy visual inspection with green arrow.

Port size: Rc1/8 to Rc1/4

JIS symbol



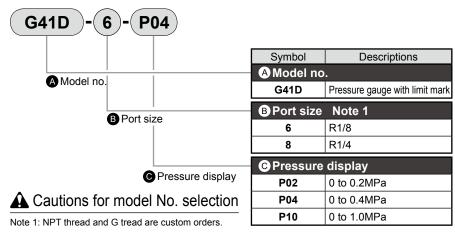


Specifications

Descriptions		G41D
Working fluid		Compressed air
Fluid temp	erature °C	5 to 60
Ambient tem	perature °C	5 to 60
Precision	Note 1 Class	JIS Class 3 equivalent (±3%F.S. at 5 to 35°C)
Shape		Back side thread
Length of display section		ø42
	Stud	Brass
Material	Housing	Stainless steel
Materiai	Lens	Polycarbonate resin
	Mark section	Polyacetal resin
Pressure ra	ange MPa	0 to 0.2
(setting range)		0 to 0.4 0 to 1.0
Port size	Note 1	R1/8, 1/4
Weight	g	82

Note 1: The guaranteed display accuracy temperature is 20 ± 15 °C.

How to order



How to adjust

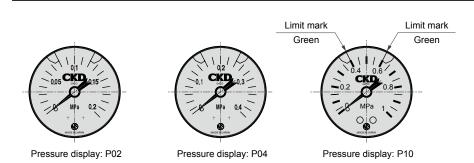
Remove the transparent cover, then move the green arrow with a screw driver, etc.

After the adjustment, always supply compressed air after assembling the transparent cover.

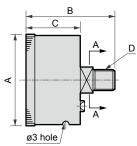


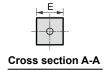
Remove the transparent cover by turning it counterclockwise and pulling it off.

Dimensions



Model no.	Α	В	С	D	Е
G41D-6	ø42	40.5	24.5	R1/8	12
G41D-8	ø42	44.5	24.5	R1/4	14









General purpose pressure gauge

G49D/G59D Series

Port size: Rc1/8 to Rc1/4

JIS symbol





Specifications

Desc	riptions	G49D	G59D		
Working fluid		Compre	ssed air	_	
Fluid temp	erature °C	5 to	60	_	
Ambient tem	perature °C	5 tc	60	Clean specification (Cata	
Precision	Note 1	JIS Class 3 equivalent	(±3%F.S. at 5 to 35°C)	Dust generation preventing structure	
Shape		Back sid	e thread		
Length of c	lisplay section	ø42	ø52	G49D - · · · · · · · · - (F	
	Stud	Brass	Brass Note 2		
Material	Housing	Steel sheet+chrome plating		G59D - · · · · · · · · · - (F	
	Lens	Gla	Glass		
Pressure range MPa		0 to 0 to	0.4	Copper and PTFE free specific	
		0 to 1.0 0 to 2.0		— G49D -·····- (F	
Port size	R	1/8,	1/8, 1/4		
Weight	g	86	115	G59D - · · · · · · · · · · · · ·	

Note 1: The guaranteed display accuracy temperature is 20 ± 15°C.

Note 2: The material of the Bourdon's tube is phosphor bronze only for pressure indication "P20."

talog No. CB-033SA)

for use in cleanrooms

P9%

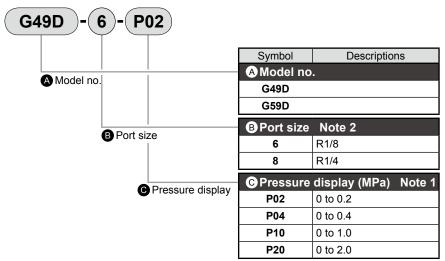
P9%

cation | (Page 179)

P6

P6

How to order



Cautions for model No. selection

Note 1: Consult with CKD for indications other than MPa. Note 2: NPT thread are custom orders.

Dimensions

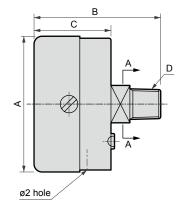


Pressure display: P02



Pressure display: P04

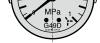






Cross section A-A

Model no.	Α	В	С	D	Е
G49D-6	ø43.5	40.5	24.5	R1/8	12
G49D-8	ø43.5	44	24.5	R1/4	14
G59D-6	ø52	44.5	28	R1/8	12
G59D-8	ø52	46.5	28	R1/4	14
G49D-6-P6	ø42.8	43.5	27.5	R1/8	12
G59D-8-P6	ø51.8	52.5	30	R1/4	14



Pressure display: P10





Pressure gauge for panel mount

G53D Series





Main features

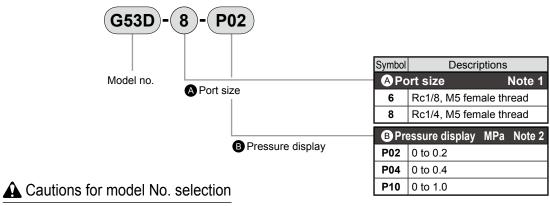
- Pressure gauge for panel mount
- M3 female thred port provided as standard

Specifications

Mo	odel no.	G53D
Working fluid		Compressed air
Fluid temperature	° ° °	5 to 60
Ambient temperat	ture °C	-5 to 60 (to be unfrozen)
Precision	Note 1	JIS Class 3 equivalent (±3% F.S.)
Shape		Back side thread
Length of display section		ø52
	Stud	Brass
Material	Housing	Steel sheet+chrome plating
	Lens	Glass
Pressure range	MPa	0 to 0.2 0 to 0.4 0 to 1.0
Port size	R	1/8 (with M5 female thread), 1/4 (with M5 female thread)
Weight	g	100

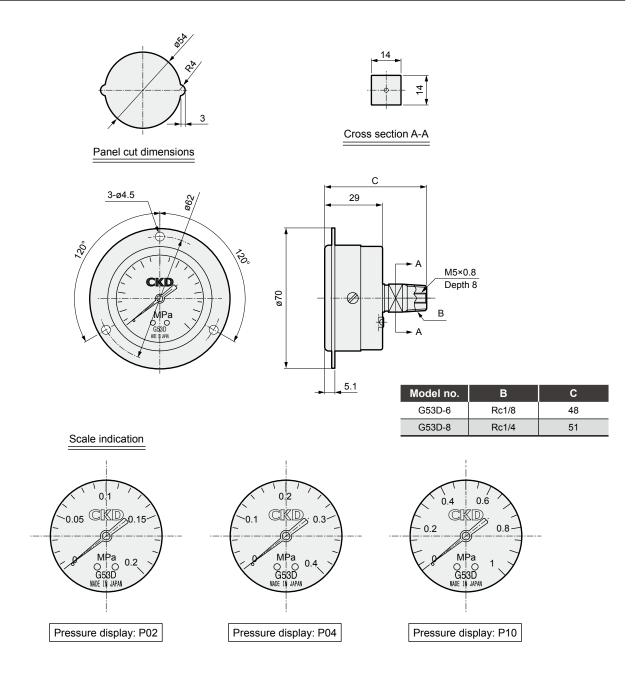
Note 1: The guaranteed display accuracy temperature is 20 \pm 15°C.

How to order



Note 1: Consult with CKD when ordering NPT thread. Note 2: Consult with CKD for indications other than MPa.

Dimensions



Safety precautions

- Check that no impact or vibration is applied directly to the product.
- Repeated and sudden increase and decrease in pressure and pressure pulsation must be avoided because it could adversely affect the life of the pressure gauge.

Ease the pressure fluctuation in the circuit.



Pressure gauge with switch

G52D Series





Main features

- Introducing a pressure switch function to the analog pressure gauge
- Optional non polarized connector
- Optional operation indicator light

Specifications

Desc	ription	s	Pressure gauge	
Working fluid			Compressed air	
Fluid temperature °C			5 to 60	
Ambient tem	perature	$^{\circ}$	-5 to 60 (to be unfrozen)	
Precision		Note 1	JIS Class 3 equivalent (±3% F.S.)	
Shape			Back side thread	
	Stud		Brass	
	Bourdon tube		Phosphor bronze	
Material	Housing		Steel sheet+chrome plating	
	Lens		Polycarbonate resin	
Setting		needle	ABS resin (green)	
Pressure range Not		Note 2	0 to 1.0MPa	
Port size R		R	1/4	
Weight g		g	150	

Note 1: The guaranteed display accuracy temperature is $20\pm15^{\circ}$ C. Note 2: Do not apply pressure beyond max.indicated pressure. Otherwise, malfunctioning may occur.

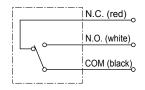
Descriptions	Pressure switch	
Pressure switch setting range	0.1 to 0.8 MPa	
Hysteresis	0.07MPa	
Contact configuration	Without indicator light: 1ab (NO, NC),	
Contact configuration	with indicator light: 1a (NO)	
Setting indicator margin of error	±0.05MPa	
Lead wire length	300mm	
Electric connection	Without light: lead wire 3 pcs. With light:M12 connector (4 pin)	
Indicator light	LED (load current: 8 to 30 mA)	

Microswitch rated

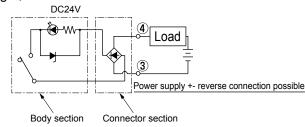
Load	Resistance load	
Rated voltage	DC30V	AC125V
Working current range	0.1 to 1A	0.1 to 1A

Wiring drawing

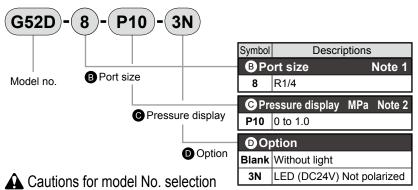
O Without light



O With light, LED

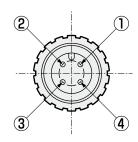


How to order

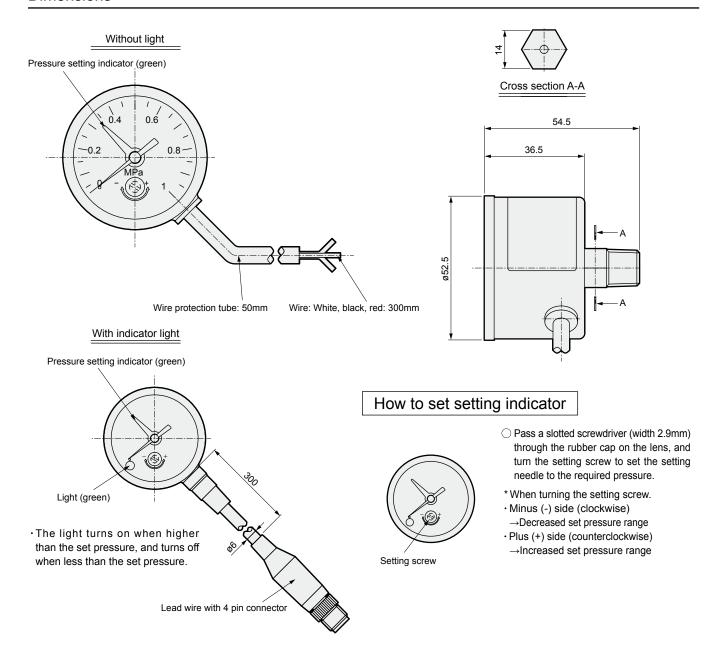


Note 1: Consult with CKD when ordering NPT thread. Note 2: Consult with CKD for indications other than MPa.

Terminal layout of male connector



Dimensions



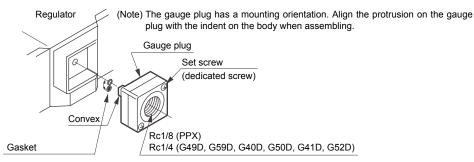
Safety precautions

- Do not apply impact or vibration directly to the product.
- Repeated and sudden increase and decrease in pressure and pressure pulsation must be avoided because it could adversely affect the life of the pressure gauge. Ease the pressure fluctuation in the circuit.
- The pressure switch uses disable operation if set pressure cannot be reached. Set the pressure switch value so that the setting indicator turns clockwise. If the setting indicator passes the setting position, turn the setting indicator counterclockwise once, then reset.
- Set the setting with a difference of 0.1 MPa or more from the working pressure (including pressure drop). Malfunctions could result if the difference is small. Refer to the drawings above for details on setting the setting needle. When using the pressure switch in the normal open state, the switch may not turn on when the pressure drops unless a pressure, to which the set indication error (± 0.05 MPa), hysteresis (0.07 MPa), and indicated accuracy (± 3%F/S) have been added, has been applied.
- Add the pressure gauge's indication accuracy to the maximum value of the setting indicator and indicator's error (set indicator error).
- When the DC light is used, the internal voltage drop is to be 4 V or less and load current 8 to 30 mA at 24 VDC.
- Wire the lead so that the repeated bending strain and tensile strength are not applied to the wire. Otherwise, braking faults may occur.

Pressure Gauge Series

Gauge Plug Assembly (gauge plug, gasket, set screw assembly)

Use when mounting the pressure gauge.



If the gasket is turned 180° as shown in the drawing, regulator pressure flows to the pressure gauge.

- * Tighten the pressure gauge with a torque of 10 to 15N·m.
 * This can also be used to measure the pressure inside the regulator externally.
- * Contact CKD for NPT or G thread.

Gauge plug assembly model no.	Applicable model	Applicable pressure gauge
R1000-W-G-PLUG	1000-W Series	G49D, G59D, G40D, G50D, G41D, G52D
R1000-W-T6-PLUG	1000-W Selles	PPX
R3000-W-G-PLUG	2000-W, 3000-W, 4000-W,	G49D, G59D, G40D, G50D, G41D, G52D
R3000-W-T6-PLUG	6000-W, 8000-W	PPX