Related products Pressure gauge / indicator

■ Components for air preparation and pressure adjustment / F.R.L. unit



CONTENTS

Pressure gauge	
Pressure gauge assembly (G401-W)	660
With safety mark (G40D,G50D)	661
With limit mark (G45D)	662
With limit mark (G41D)	663
General purpose (G49D,G59D)	664
Pressure gauge for panel mount (G53D)	665
Pressure gauge with switch (G52D)	667
Miniature (G29D)	669
● Round (G39D)	670
Vacuum pressure gauge (VG41D)	671
• Differential pressure gauge (GA400-8-P02)	673
Indidcator	
Moisture indiccatior (6119)	674

A Handling of pressure gauge

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. Either ease the pressure fluctuation in the circuit or check with CKD so that a pressure gauge with a cushioning screw is prepared.

A Refer to Intro 67 for General precaution for vacuum sysytem components, and to "A Safety precautions" for each series.

Refrigerating type dryer

Desiccant type dryer High polymer membrane type dryer

Air filter

Auto. drain / others

(Module unit)

F.R.L. (Separate)

Compact F.B.

Precise

F.R.L. (Related products)

Clean F-R. Electro pneumatic regulator

booster

control valve

Silencer

Check valve / others

Vacuum

Vacuum regulator

Suction

Magnetic spring buffer

Mechanical pressure SW

Electronic pressure SW Contact / close contact conf.

Air sensor

Pressure SW for coolant

Small flow sensor

Small flow controller

Flow sensor for air

Flow sensor for water Total air

Total air system (Gamma)

Ending

L. unit

Thin type pressure gauge

G401-W Series

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

Connection: O ring sealant, set screw





Specifications

High polym membrans

Air filter Auto, drain / others

F.R.L. F.R.L. (Separate Compact F.R. Precise regulato F.R.L. (Related products Clean F.R.

pneum. regulator

Speed control valve Silence Check valve / others

Joint / tube

Vacuum filter

Vacuum regulator

Suction plate

Magnetic spring buffer

Mechanical pressure SW

Electronic pressure SW

Contact / close contact conf.

Air sensor

Pressure SW for coolant Small flow sensor Small flow controller Flow sensor for air

Flow sensor for water

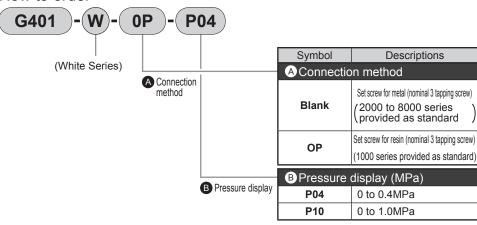
Total air system

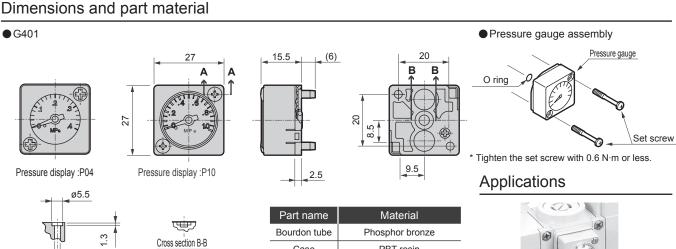
Total air system (Gamma)

Ending

Specifications			
Descriptions		G401-W	
Working fluid	d	Compressed air	
Fluid temper	ature °C	5 to 60	
Ambient tem	perature °C	5 to 60	
Precision		Full scale ±3% (at 5 to 35°C)	
Shape		Square shaped, set screw	
Display section diameter		ø26	
Material	Housing	PBT resin	
Material	Lens	Polycarbonate resin	
Draggura rar	nge MPa	0 to 0.4	
Pressure range MPa		0 to 1.0	
Connection		O ring sealant, set screw	
Weight	g	11	

How to order





PBT resin

Polycarbonate resin

Case

Lens

Cross section A-A

φ3.1

Pressure gauge with safety mark

G40D/G50D Series

Green and red zones simplify visual control.

Port size: R1/8, R1/4

JIS symbol





Air filter
Auto, drain
/ others

F.R.L. (Module uni

Compact F.R.

Electro pneumatic regulator

Speed control valve

Silence

Vacuum filter

Vacuum regulator

Suction plate

Magnetic spring buffer

Mechanical pressure SW

Contact / close contact conf. SW

Air sensor Pressure SW for coolant

Small flow controller Flow sensor for air

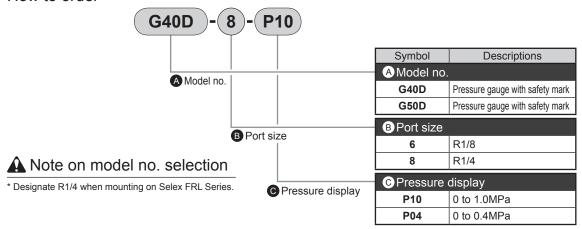
Total air system Total air system (Gamma)

Ending

Specifications

Descriptions		G40D,G50D			
Descriptions		P10	P04		
Working fluid		Compressed air			
Full scale N	/ΙРа	1.0	0.4		
Safety mark setting range	MPa	0.15 to 1.0	0.06 to 0.4		
Max. setting width MPa		0.45	0.18		
Ambient temperature °C		5 to 60			
Fluid temperature	°C	5 to 60			
Port size R		1/8,1/4			
Precision		Full scale ±3% (at 5 to 35°C)			
Weight	g	G40D:85	G50D:100		

How to order



Dimensions and material

Part name

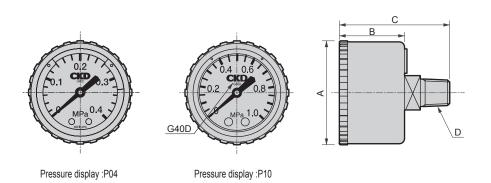
Bourdon tube/stock

Housing

Lens

Mark

Adjustment method of pressure range



Material	АВ	С
Brass	Ø OC.	44
Steel sheet + paint	2.5	46
Polyamide resin	Ø 27.5	44
PBT resin	52.5	46
Brass Steel sheet + paint Polyamide resin	Ø 26.5 - Ø 27.5 -	40

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.

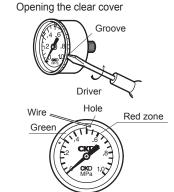
D

R1/8

R1/4

R1/8

R1/4



Pressure gauge with safety mark F.R.L. unit



Pressure gauge with limit mark

G45D Series

Easy visual inspection control due to green arrow.

Port size: R1/8, R1/4

JIS symbol





Specifications

Auto, drain / others

F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
F.R.L. (Related products)
Clean F.R.

Speed control valve

Silencer

Check valve / others

Joint / tube

Vacuum filter

Vacuum regulator

Suction plate

Magnetic spring buffer

Mechanical

pressure SW

Electronic pressure SW

Contact / close contact conf.

Air sensor

Pressure SW for coolant

Small flow sensor

Small flow controller

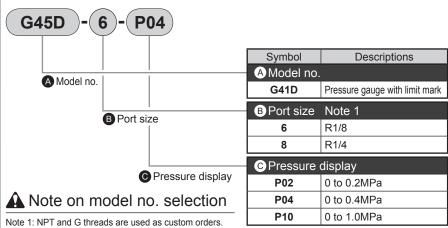
Flow sensor for air Flow sensor for water

Total air system

Opecinications			
Descriptions		G45D	
Working flui	id	Compressed air	
Fluid tempe	rature °C	5 to 60	
Ambient tem	perature °C	5 to 60	
Precision	Note 1	JIS2.5 or equivalent	
Shape		DT type (rear side screw/stock section 4 square)	
Display section diameter		ø39	
	Stock / Bourdon tube	Brass	
Material	Housing	Steel sheet + paint (White)	
Material	Lens	Polyamide resin	
	Mark	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

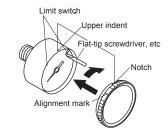


Adjustment method

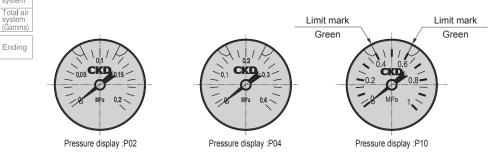
Turn the clear case counterclockwise and pull it off.

Set the limit mark by moving the green arrow mark with a flat-tip screwdriver. After adjusting, always assemble the clear case, and apply the air pressure.

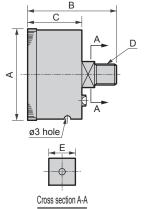
When setting the limit mark, take care not to bend the other indicators or to scratch the dial plate.



Dimensions



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



CKD



Pressure gauge with limit mark

G41D Series

Easy visual inspection control due to green arrow.

● Port size: R1/8, R1/4

JIS symbol



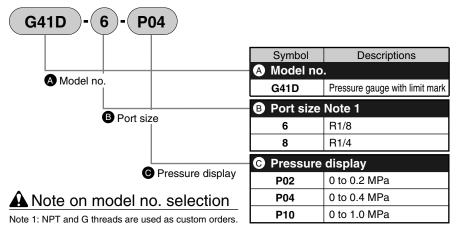


Specifications

Descriptions		G41D
Working flu	iid	Compressed air
Fluid tempe	erature °C	5 to 60
Ambient te	mperature °C	5 to 60
Precision N	lote 1 Grade	Full scale ±3% (at 5 to 35°C)
Shape		DT type (rear side screw/stock section 4 square)
Display section diameter		ø42
	Stock / Bourdon tube	Brass
Material	Housing	Stainless steel
Material	Lens	Polycarbonate resin
	Mark	Polyacetal resin
Pressure ra	ange MPa	0 to 0.4. 0 to 1.0
(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 $\pm15\,^{\circ}$ C.

How to order



Adjustment method

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.

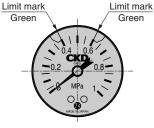
Dimensions



Pressure display: P02



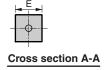
Pressure display: P04



Pressure display: P10

	-	В		
	4	С	•	
A			A C)
	ø3 ł	nole	_	

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



type dryer Air filte

Auto. drain / others F.R.L. (Module unit

F.R.L. (Separate)

Electro pneumatic regulator

Silencer

Check valve / others

Vacuum filter

Suction plate Magnetic spring buffer

Mechanical pressure SW

Electronic pressure SW

Air sensor

Small flow sensor

Small flow controlle

Flow sensor for air Flow sensor for water

Total air (Gamma)

Ending

Pressure gauge with limit mark F.R.L. unit

Desiccant type dryer High polyme type dryer

General purpose pressure gauge

G49D/G59D Series

Port size: R1/8, R1/4

JIS symbol



Specifications

Air filter Auto. drain / others

F.R.L.

F.R.L. (Separate) Compact F.R.

Precise regulato

Clean F.R. Electro

pneumati regulator Air booster

Silencer

Check valve / others

Joint / tube

Vacuum filter

Vacuum regulator

Suction plate Magnetic spring buffer

Mechanical

Electronic pressure SW

Contact / close contact conf.

Air sensor

flow sensor

Small flow controlle

Flow sensor for air

Flow sensor for water Total air

system Total air (Gamma)

Ending

Op000	Juli 01.10				
Descriptions		G49D	G59D		
Working flu	id	Compressed air			
Fluid tempe	erature °C	5 to	60		
Ambient ter	mperature °C	5 to	60		
Precision N	lote 1	Full scale ±3%	(at 5 to 35°C)		
Shape		DT type (rear side screw	/stock section 4 square)		
Display section diameter		ø42	ø52		
	Stock / Bourdon tube	Brass Note 2			
Material	Housing	Steel sheet + chrome plating			
	Lens	Gla	Glass		
Pressure range MPa		0 to 0.2 0 to 0.4 0 to 1.0 0 to 2.0			
Port size	R	1/8,1/4			
Weight	g	86 115			

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."

Clean room specifications (catalog No. CB-033S)

Dust generation preventing structure for use in cleanrooms

G49D -----P9*

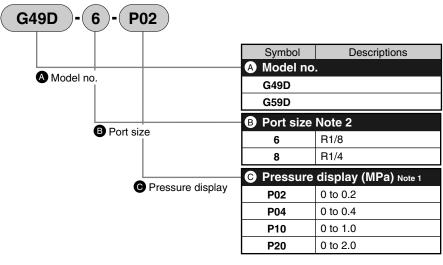
P9* G59D -----

Copper and PTFE free (page 508)

G49D -----P6

G59D -----

How to order



A Note on model no. selection

Note 1: Displays other than a MPa display are custom order.

Note 2: NPT thread is available as custom order.

Dimensions



Pressure display: P02

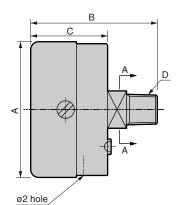




Pressure display: P04



Pressure display: P20



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	ø52	50.5	26.5	R1/4	14



G53D Series

JIS symbol





Features

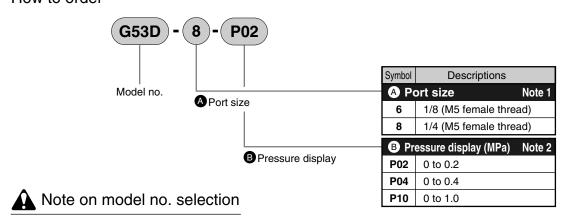
- An embedded panel mount has been added to the conventional pressure gauge
- M5 female threads are used at the connection port as standard

Specifications

Model no.		G53D
Working fluid		Compressed air
Fluid temperature	Ĵ	5 to 60
Ambient temperatur	re °C	-5 to 60 (no freezing)
Precision	Note 1	Full scale ±3% (at 5 to 35°C)
Shape		DT type (rear side screw/stock section 4 square)
Display section diameter		ø52
	Stock / Bourdon tube	Brass
Material	Housing	Steel sheet + chrome plating
	Lens	Glass
		0 to 0.2
Pressure range	MPa	0 to 0.4
		0 to 1.0
Port size	R	1/8 (M5 female thread), 1/4 (M5 female thread)
Weight	g	100

Note 1: Display precision proof temperature is 20±15°C.

How to order



Note 1: Consult with CKD for the NPT thread.

Note 2: Check with CKD for indications other than MPa.

High polyme membrane type dryer

Air filte

Auto. drain / others

F.R.L. (Module unit) F.R.L. (Separate)

Precise regulator

F.R.L. (Related products)

Clean F.R. Electro pneumatic regulator

Silencer Check valve / others

Joint / tube Vacuum filter

Suction plate Magnetic spring buffer

Mechanical pressure SW

Electronic pressure SW

Air sensor

Small flow sensor

Small flow controlle Flow sensor for air

Flow sensor for water

Total air system Total air (Gamma)

Ending

Pressure gauge for panel mount F.R.L. unit

Dimensions

Dimensions

type dryer

Desiccant
type dryer

High polymer
membrane

type dryer

Air filter
Auto. drain
/ others

F.R.L.

F.R.L. (Separate)

Compact F.R. Precise regulator

F.R.L. (Related products

Clean F-R.

pneumatic regulator Air booster

Speed control valve

Silencer

Check valve / others Joint / tube

Vacuum

Vacuum regulato

Suction plate

Magnetic spring buffer

Mechanical pressure SW

Electronic pressure SW Contact / close contact conf.

Air sensor

for coolant

Small flow sensor

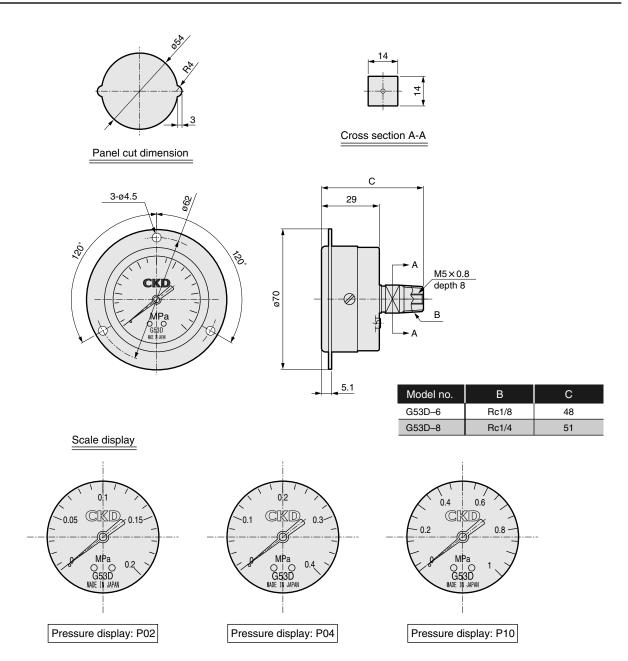
Small flow controlle

Flow sensor for air

Flow sensor for water

Total air system Total air system

(Gamma) Ending



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

JIS symbol



Features

- Introducing a pressure switch function to the analog pressure gauge
- Nonpolar connector used as option
- Activation confirmation lamp as option

Specifications

Descriptions			Pressure gauge	
Working fluid			Compressed air	
Fluid temperature °C			5 to 60	
Ambient temperature °C		°C	-5 to 60 (no freezing)	
Precision	Precision Note		Full scale ±3% (at 5 to 35°C)	
Shape			DT type (rear side screw, stock section 6 square)	
	Stock		Brass	
	Bourdon tube		Phosphor bronze	
Material	Housing	3	Steel sheet + chrome plating	
	Lens		Polycarbonate resin	
	Setting	needle	ABS resin (Green)	
Pressure range Note 2		Note 2	0 to 1.0MPa	
Port size	Port size R		1/4	
Weight	Weight g		150	

Note 1: Display precision proof temperature is 20±15°C.

Note 2: Do not apply pressure exceeding the maximum indication pressure, or operation could fail.

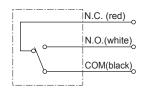
Descriptions	Pressure switch	
Pressure switch setting range	0.1 to 0.8MPa	
Hysteresis	0.07MPa	
Contact configuration	W/o light: 1ab (normally open, normally	
Contact configuration	closed) with light: 1a (normally open)	
Setting needle error	±0.05MPa	
Lead wire length	300mm	
Electric connection	Without light: lead wire 3 pcs. With light: M12 connector (4 pins)	
Indicator light	LED (load current: 8 to 30mA)	

Rated of micro switch

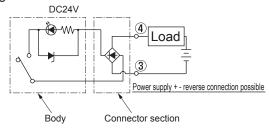
Load	Resistance load		
Rated voltage	30 VDC	125 VAC	
Working current range	0.1 to 1A	0.1 to 1A	

Electric wiring diagram

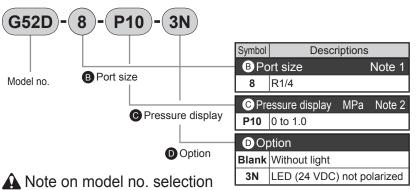
○ Without light



○ With light /LED



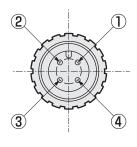
How to order



Note 1: Consult with CKD for the NPT thread.

Note 2: Check with CKD for indications other than MPa.

Terminal array of male connector



Refrigerating type dryer

Desiccant type dryer

type dryer
Air filter

Auto, drain / others

F.R.L. (Module unit)

(Separate)

Compact
F.R.

R.

Precise regulator

Clean F.R.

regulator Air booster

Speed control valve

Check valve / others

Joint tube

Vacuum filter Vacuum regulator

Suction plate

Magnetic spring buffer

Mechanical pressure SW

pressure SW

Contact / close contact conf.
SW

Air sensor

Pressure SW for coolant

flow sensor
Small
flow controller

Flow sensor for air

Flow sensor for water

Total air system Total air system (Gamma)

Ending

Pressure gauge with switch F.R.L. unit

G52D Series

Dimensions

Dimensions

Refrigerating type dryer

Desiccant type dryer

High polymer

Air filter

Auto. drain
/ others

F.R.L. (Module uni

F.R.L. (Separate) Compact

Precise regulator

(Related products Clean F-R.

Electro pneumatic regulator

Air booster Speed

Silencer

Check valve / others

Joint / tube Vacuum filter

regulator

Suction plate

Magnetic spring buffer

Mechanical

Electronic pressure SW

Contact / close contact conf. SW

Pressure SV for coolant

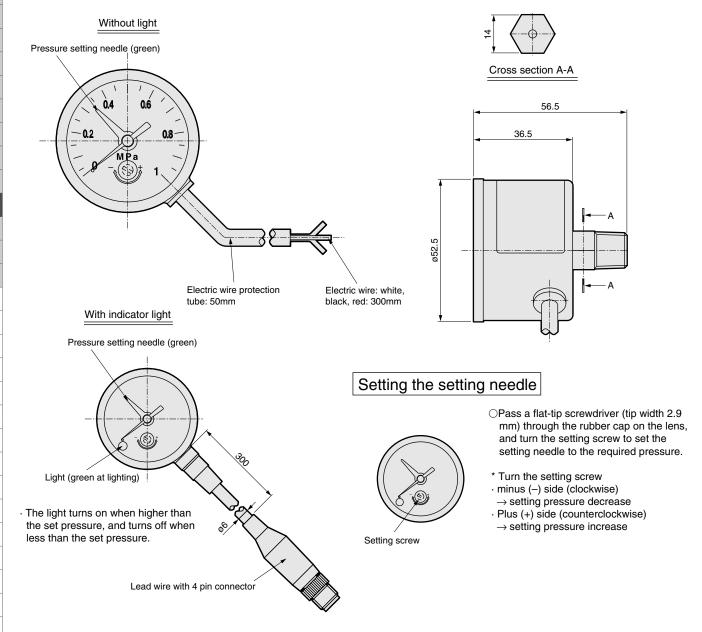
flow sensor

Small flow controller Flow sensor for air

Flow sensor for water

Total air system Total air system (Gamma)

Ending



A

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.
- The pressure switch setting value is indicated with the green setting indicator. 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 lamp is used, the internal voltage drop is to be 4V or less and load current 8 to 30mA at 24VDC.
- Wire the lead so that the repeated bending strain and tensile strength are not applied to the wire. Failure to do so could lead to disconnection or malfunction.
- Avoid using in an atmosphere containing silicone. A contact fault could result.



Miniature pressure gauge

G29D Series

Port size: R1/16, R1/8

JIS symbol

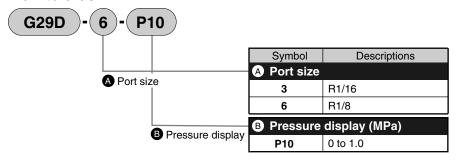




Specifications

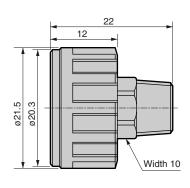
Descriptions		G29D	
Working fluid		Compressed air	
Fluid temperature °C		5 to 60	
Ambient temperature °C		5 to 60	
Precision		Scale	
Shape		DS type (rear side screw, stock section 6 square)	
Display section diameter		ø21	
Material I	Body	Zinc alloy die casting + paint	
Lens		Polycarbonate resin	
Pressure range MPa		0 to 1.0	
Port size	Port size R 1/16, 1/8		
Weight g 12		12	

How to order



Dimensions





Refrigerating type dryer

Desiccant type dryer

High polymer

High polymer membrane type dryer

Air filter

Auto. drain
/ others

F.R.L. (Module unit)

F.R.L. (Separate)

F.R. Precise regulator

F.R.L. (Related products)

Clean F-R. Electro pneumatic regulator

Air booster

Speed control valve

Silencer

Check valve / others

Joint / tube

Vacuum

Vacuum

Suction plate

Magnetic spring buffer

Mechanical pressure SW

Electronic pressure SW Contact / close contact conf. SW

Air sensor

Pressure SW for coolant

Small flow sensor

Small flow controller

Flow sensor for air Flow sensor for water

Total air system Total air system

(Gamma)

Ending

miniature pressure gauge F.R.L. unit



Compact round pressure gauge

G39D Series

Port size: R1/8

JIS symbol



RoHS

Specifications

Auto. drain / others

F.R.L. (Module unit) F.R.L. (Separate) Compact F.R. Precise regulator

Clean F.R.
Electro pneumatic regulator

Air booster

Speed control valve

Sillencer

Check valve / others

Joint / tube

Vacuum filter

Suction plate

Magnetic spring buffer

Mechanical pressure SW

Electronic pressure SW

Contact / close contact conf.

Air sensor

Small flow sensor

Small flow sensor

Flow sensor for air

Flow sensor for water

Total air system

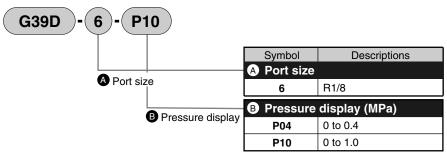
Total air system

(Gamma)

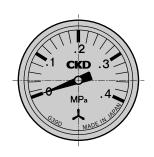
Ending

1			
Descriptions		G39D	
Working flu	uid	Compressed air	
Fluid temp	erature °C	5 to 60	
Ambient te	mperature °C	5 to 60	
Precision		Full scale ±3% (at 5 to 35°C)	
Shape		DT type (rear side screw, stock section 6 square)	
Display section diameter		ø26	
	Stock / Bourdon tube	Brass (phosphor bronze)	
Material	Housing	Steel sheet + paint	
	Lens	Acryl resin	
Pressure range MPa		0 to 0.4	
		0 to 1.0	
Port size R		1/8	
Weight g		37	

How to order



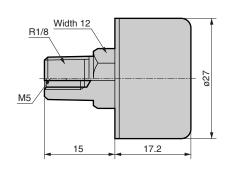
Dimensions



Pressure display:P04



Pressure display :P10





Vacuum pressure gauge with limit mark

VG41D Series

Easy visual inspection control due to green arrow.

Port size: R1/8

type dryer

Air filter

Auto. drair / others

F.R.L. (Module unit F.R.L. (Separate)

F.R.L. (Related products

Electro pneumatic regulator

Silencer

Check valve / others

Joint / tube

Vacuum filter

Suction plate

Magnetic spring buffer

Mechanical pressure SW

Electronic pressure SW

Air sensor

Small flow sensor

Small flow controlle

Flow sensor for air

Flow sensor for water

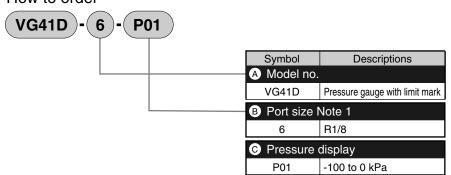
Total air (Gamma)

Vacuum pressure gauge with limit mark F.R.L. unit

Specifications

Descriptions		VG41D	
Working fluid		Compressed air	
Fluid temp	erature °C	5 to 50	
Ambient te	mperature °C	5 to 50	
Precision N	Note 1 Grade	JIS2.5 or equivalent (±2.5% F.S) (at 5 to 35°C)	
Shape		DT type (rear side screw, stock section 4 square)	
Display sed	ction diameter	ø42	
	Stock / Bourdon tube	Brass	
Matarial	Housing	Stainless steel	
Material	Lens	Polycarbonate resin	
	Mark	Acetal resin	
Pressure range (Setting range) kPa		-100 to 0	
Port size	Note 2	R1/8	
Weight	g	82	

How to order



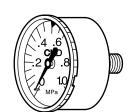
A Note on model no. selection

Note 1: NPT threads are used as custom orders.

Adjustment method

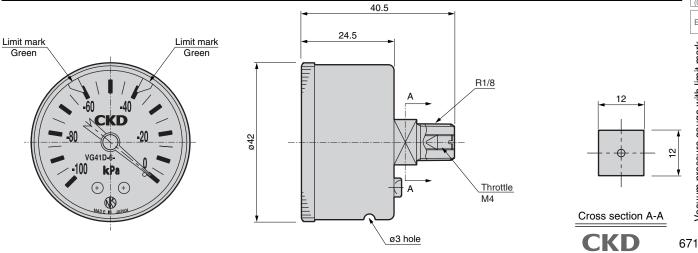
Remove the transparent cover, then move the green arrow with a screw driver, etc.

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



Pressure gauge series

Gauge plug

Rc1/8(PPX)

Set screw

(Dedicated screw)

Gauge plug assembly (assembly of gauge plug, gasket, set screw)

Desiccant type dryer High polymer membrane

Regulator

Convex

If the gasket is turned 180° as shown

in the drawing, regulator pressure flows to the pressure gauge.

type dryer Air filter

Auto, drain / others

F.R.L. (Moduje un F.R.L. (Separate

Compact F.R.

Gasket

Precise regulato F.R.L. (Related products)

Clean F.R. Electro pneumatic regulator

Speed control valve Silencer

Check valve / others

Joint / tube

Vacuum filter Vacuum regulator

Suction plate

Magnetic spring buffer Mechanical pressure SW

Electronic pressure SW

Contact / close contact conf.

Air sensor

Small flow controller

Flow sensor for air

Flow sensor for water

Total air system

system (Gamma) Ending

Total air

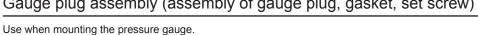
(Note) The gauge plug has a mounting orientation. Align the protrusion on the gauge

* Tighten the pressure gauge with a torque of 10 to 15N·m or less. * Use this when detecting external pressure.

Rc1/4(G49D,G59D,G40D,G50D,G45D,G41D,G52D)

* Consult with CKD if NPT or G thread is required.

Gauge plug assembly model	Applicable model	Applicable pressure gauge
R1000-W-G-PLUG	1000-W series	G49D,G59D,G40D,G50D,G45D,G41D,G52D
R1000-W-T6-PLUG		PPX
R3000-W-G-PLUG	2000-W,3000-W,4000-W,6000-	G49D,G59D,G40D,G50D,G45D,G41D,G52D
R3000-W-T6-PLUG	W,8000-W series	PPX



plug with the indent on the body when assembling.



type dryer Air filter Auto. drair / others

F.R.L. (Module unit) F.R.L.

Precise regulator F.R.L. (Related products Clean F.R. Electro pneumatic regulator

Silencer

Vacuum filter

Magnetic spring buffer

Mechanical pressure SW

Electronic pressure SW

Air sensor

flow sensor

Small flow controlle

Flow sensor for water

Total air (Gamma)



Differential pressure gauge

GA400-8-P02 Series

For controlling service life of air filter. Differential pressure measuring range: 0 to 0.2MPa±%F.S. JIS symbol

Specifications

Descriptions	GA400-8-P02	
Max. working pressure MPa	1.0	
Withstanding pressure MPa	1.5	
Fluid temperature (ambient temperature) °C	5 to 65	
Differential pressure measuring range MPa	0 to 0.2	
Pressure gauge accuracy	Full scale ±3%	
Port size (high pressure side) R	1/4	
Product weight kg	0.34	

^{*} Nylon tube (O.D. 4 x I.D. 2.5, model no. F-1504) 0.5m, a single straight half union (port size R1/4, model no. MJS4-8), and a set of sealing tape are attached to the differential pressure gauge (GA400-8-P02) as standard accessory.

Designate GA400-8-P02-T1.5 when using the type with 1.5 m long nylon tubing.

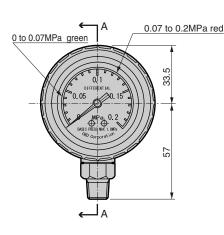
Clean room specifications (catalog No. CB-033S)

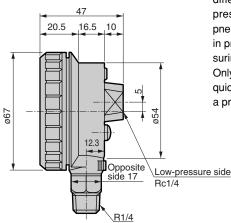
Dust generation preventing structure for use in cleanrooms

GA400 ------ (P90)

Dimensions

GA400-8-P02





Operational principle

Applied measuring principle of a pressure gauge, differential pressure gauge measures differential pressure between pneumatic components in the pneumatic circuit. Differential pressure is measured in pressurized state, so accurate and precise measuring result is obtained.

Only assembling by-pass circuit, installed easily and quickly. Maintenance is also easy by only checking a pressure gauge.

Cautions

A Precautions

When assembling a stop valve in the by-pass circuit, always open the stop valve before supply compressed air.

A Safety precautions (GA400)

Caution 1: Avoid direct sun lay.

CKD



Moisture indicator

6119-2C Series

For dew point monitor of desiccant type air dryer.

Port size: Rc1/4



Specifications

Auto. drain / others

F.R.L.

F.R.L. (Separate) Compact F.R. Precise regulator

Clean F-R. Electro pneumatic regulator Air booster Speed control valve

Check valve / others

Joint / tube Vacuum filter

Suction plate

Magnetic spring buffer

Mechanical

Electronic pressure SW

Air sensor

Small flow sensor

Small flow controller Flow sensor for air Flow sensor for water Total air system Total air

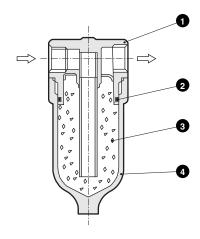
(Gamma) Ending

Descriptions	6119-2C	
Max. working pressure MPa	1.0	
Withstanding pressure MPa	1.5	
Fluid temperature °C	5 to 65	
Maximum inlet air temperature °C	32	
Maximum flow rate ℓ /min.(ANR)	50	
Port size Ro	1/4	
Product weight kg	0.2	

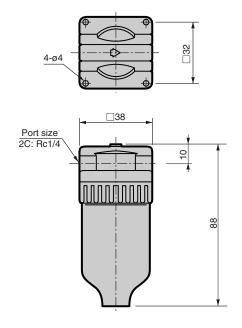
Internal structure and parts list

Dimensions

6119-2C



No.	Main parts	6119		
1	Body	Zinc die casting		
Pai	Parts list			
No.	Parts name	Material	Model no.	
2	O ring	Special nitrile rubber	A1019-ORING	
3	Silica gel	Silica gel	85-117(20g)	
4	Bowl	Polycarbonate	A3019-BOWL	



Note: Refer to page 577 for brackets.

Operational principle

Through the moisture indicator, dew point of ultra air is monitored with using chemical property of silica gel whose color changes from blue to pink after moisture is absorbed.

If relative humidity in compressed air reaches 10%, the color changes to pink, so maintenance of desiccant type air dryer is easy.

Safety precautions

Avoid using in a place where the working air flow can increase or decrease vigorously or where the maximum flow rate is exceeded.

The silica gel could flow to the secondary side.