Refrigerating Desiccan type drye High polyme membrane dryer Air filte

type dryer

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

F.R.L. (Related products Clean F.R.

Electro pneumati regulator

booster control valv Silence Check valv

/ others / tube Vacuum

Vacuum

regulator

Suction

plate

Magnetic spring buffe

Mechanical pressure SW

Electronic pressure SV

Contact / close contact conf. SW Air senso

Pressure SW

flow senso flow controlle

Flow senso Flow senso for water

Total air system

Total air system (Gamma)

Ending

Precision regulator

# **2100** Series

Enabling high precision pressure control within 0.01 to 0.25 MPa range Port size: Rc1/4, Rc3/8

JIS symbol <



Specifications	Discontinued
Descriptions	2100-2C-3C-L
Working fluid	Compressed air
Max. working pressure Mpa	1.0
Withstanding pressure Mpa	1.5
Fluid temperature (ambient temperature) °C	5 to 65
Set pressure range Mpa	0.01 to 0.25
Relief starting Mpa	Setting pressure plus 0.005
Constant bleeding rate ℓ/min (ANR)	2 or less
Port size Rc	1/4, 3/8
Product weight kg	0.6

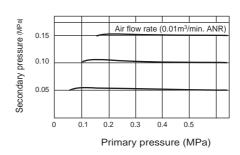
Ozone specifications (Ending 19)

2100 ..... P11

# Flow characteristic

# Primary pressure 0.5MPa Secondary pressure 0.20 0.16 0.12 0.08 0.04 0.15 Air flow rate m3/min. (ANR)

# Pressure characteristic



## How to order

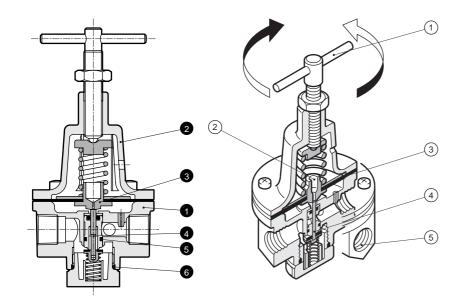
### Precision regulator 2100 2 K For low pressure Descriptions Symbol Port size A Port size 2C Rc1/4 A Note on model no. selection Rc3/8 **3C** Note 1: "K", "P", "G" and "B" can be combined. B Option Note 2: A pressure gauge, G59D-8-P02 MPa is attached. **B** Option None Blank Refer to related components on page 691 for the specifications on pressure gauge. Regulator Κ Plastic knob Note 3: A bracket, No. 6503 is attached. Ρ Panel mount Note 4: Consult with CKD if pressure gauge and bracket assembly products are required. Blank None Note 5: If NPT port is required, do not indicate nominal size Attachment Pressure gauge G C. (example) 2100-2-L В Bracket

# **2100** Series

# Internal structure and parts list

# Internal structure and parts list

### **2100**



No.	Part name	material
1	Body	Zinc die casting
2	Guard	Zinc die casting
3	Diaphragm assembly	Brass, steel, nitrile rubber
4	Valve assembly	Stainless steel, brass, hydrogen nitrile rubber
5	O ring	Nitrile rubber
6	O ring	Nitrile rubber

## Repair parts list

No.	Part name	Model no.
3	Diaphragm assembly	2100-DIAPHRAGM-ASSY
4	Valve assembly	2100-VALVE-ASSY

# Functional explanation

(1) Adjusting screw

Adjusting screw to adjust secondary pressure is turned clockwise to increase pressure.

(2) Relief valve

Metal seal relief valve is used to obtain outstanding pressure characteristic.

(3) Diaphragm

The balance between the force of pressure adjusting spring and applied to diaphragm bottom (secondary pressure) are maintained. The valve stem is opened and closed to supply accurate and constant set pressure to the secondary side.

(4) Valve combination

If the balance between the diaphragm and the pressure adjusting spring turns to off-balance, compressed air on the primary side is supplied to the secondary side as much as required.

(5) Gauge port

Designed the gauge port in the position near to OUT side rather than the center, the secondary pressure is measured accurately. Two gauge ports are provided.

# ▲ Safety precautions

Note 1: Turn the pressure adjustment handle clockwise to increase the secondary pressure, and counterclockwise to lower the pressure.

Note 2: Start setting after checking the primary pressure.

Note 3: Flash the pipe before connecting the regulator.

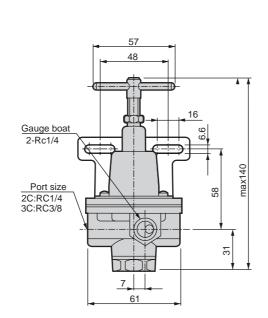
Note 4: Prevent sealing tape from entering into the pipe.

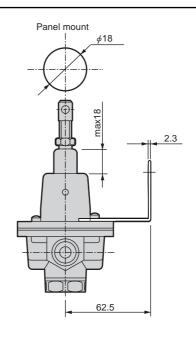
check if possible foreign matter adhesion or scratch, etc., on O ring valve stem assembly.

Note 5: When pressure adjustment problems,

# **Dimensions**

**2100** 





Desiccant type dryer High polyme membrane dryer

Air filter

Auto. drain (Module unit

F.R.L. Compact

(Related products

Clean F.R. Electro regulator

booster

control valv Silencer

Check valve / others

Joint / tube Vacuum

> Vacuum Suction

Magnetic spring buffer Mechanica pressure SW

Electronic pressure SW Contact / close contact conf. SW

Air sensor Pressure SW

flow senso

flow controlle Flow sensor Flow sensor

for water Total air Total air system (Gamma)

Ending

Precision regulator F.R.L. unit