

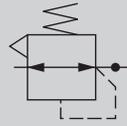


Clean regulator

RC2000 Series

● Port size: Rc1/4, Rc3/8, Rc1/2

JIS symbol



Overview

RC2000 Series with oil-prohibited specifications and stainless steel body is optimum for clean air and N₂ pressure control for semiconductor manufacturing equipment and liquid crystal device manufacturing equipment. The compact body and large flow rate capacity are suitable for air (N₂) blowing.

Features

- Oil-prohibited specifications
Precision cleaning is performed on the gas contact part and the manufacturing processes from assembling to packaging are completed in clean room. No grease is used on gas contact part.
- Compact/large flow rate
A large flow rate of 0.8 m³/min. is realized even with just 50 mm face to face.
(Flow rate at 0.7 MPa primary pressure, 0.5 MPa set pressure, 0.1 MPa pressure drop)
- With reverse function (when back pressure is not applied)
This function reverses secondary pressure to the primary side when primary pressure is exhausted.
This safety-oriented product does not leave any pressure on the secondary side.

Specifications

Model No.	RC2000-8-P90	RC2000-10-P90	RC2000-15-P90
Working fluid	Compressed air, N ₂		
Max. working pressure MPa	1.0 / 0.5 for low pressure		
Proof pressure MPa	1.5		
Fluid temperature/ambient temperature °C	5 to 60		
Set pressure MPa	Standard: 0.05 to 0.7 Low pressure: 0.02 to 0.2		*1
Port size (IN/OUT)	Rc1/4	Rc3/8	Rc1/2
Pressure gauge port size	Rc1/8		
Wetted section material	Metal	SUS316	
	Resin	PTFE	
	Rubber	FKM	
Assembling/inspection/packaging	Integrated production in cleanroom		
Cleaning (gas contact part)	Precision cleaning		
Weight kg	0.47	0.45	0.59
Attachment weight g	G ₄₉ : 90, B ₃ : 40, E ₁ : 5		

*1: When using the standard type with a set pressure of 0.4 MPa or less, confirm that the primary pressure difference for the set pressure is within 0.5 MPa. When using the low pressure type, confirm that the primary pressure difference for set pressure is within 0.3 MPa.

How to order

RC2000 - **8** - **LN** - **GY49B3E1** - **P90**

Model No. (clean room specifications) (oil-prohibited specifications)

A Port size	B Option *1	C Other attachments *1, 3	D Clean room specifications
8 Rc1/4	Pressure range Blank 0.05 to 0.7 MPa	Blank Without attachment	Treatment
10 Rc3/8	*2 L 0.02 to 0.2 MPa	GY49 Pressure gauge (G49D-6*-P94)	P90 Stainless steel material used, oil prohibited
15 Rc1/2 (custom order)	Relief mechanism Blank Pressure relief	GZ49 Pressure gauge (G49D-6*-P90)	
	N Nonrelief	B3 L bracket	
		E1 Fitting (for exhaust)	

*1: When selecting multiple options or attachments, indicate the model No. code in order from the top.

If there is blank for the option or attachment, delete the hyphen "-". (Example: RC2000-8-P90)

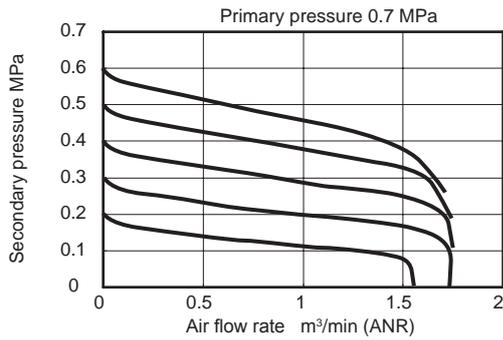
2: If "Blank" is selected for the pressure range, the 1.0 MPa pressure gauge (pressure gauge model: G49D-6-P10-P9) is used.

If "L" is selected for the pressure range, the 0.2 MPa pressure gauge (pressure gauge model: G49D-6-P02-P9*) is used.

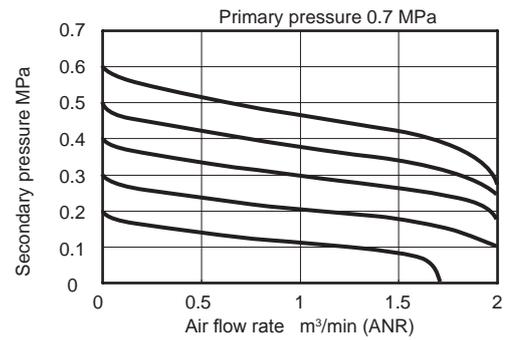
*3: Two pipe plugs (R1/8) are included with the product. If a pressure gauge is selected as an attachment, one plug is included.

Flow characteristics

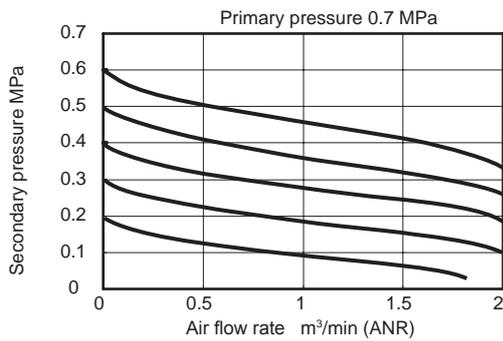
● RC2000-8-P90



● RC2000-10-P90

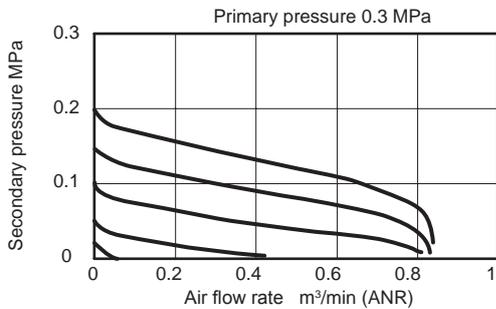


● RC2000-15-P90

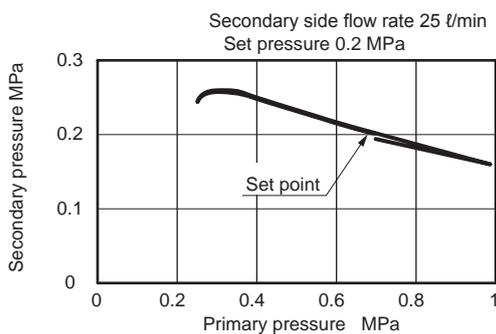


Flow characteristics (low pressure)

● RC2000-*-L-P90



Pressure characteristics



SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R.(module unit)

Clean F.R

Precision R

Press gauge
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

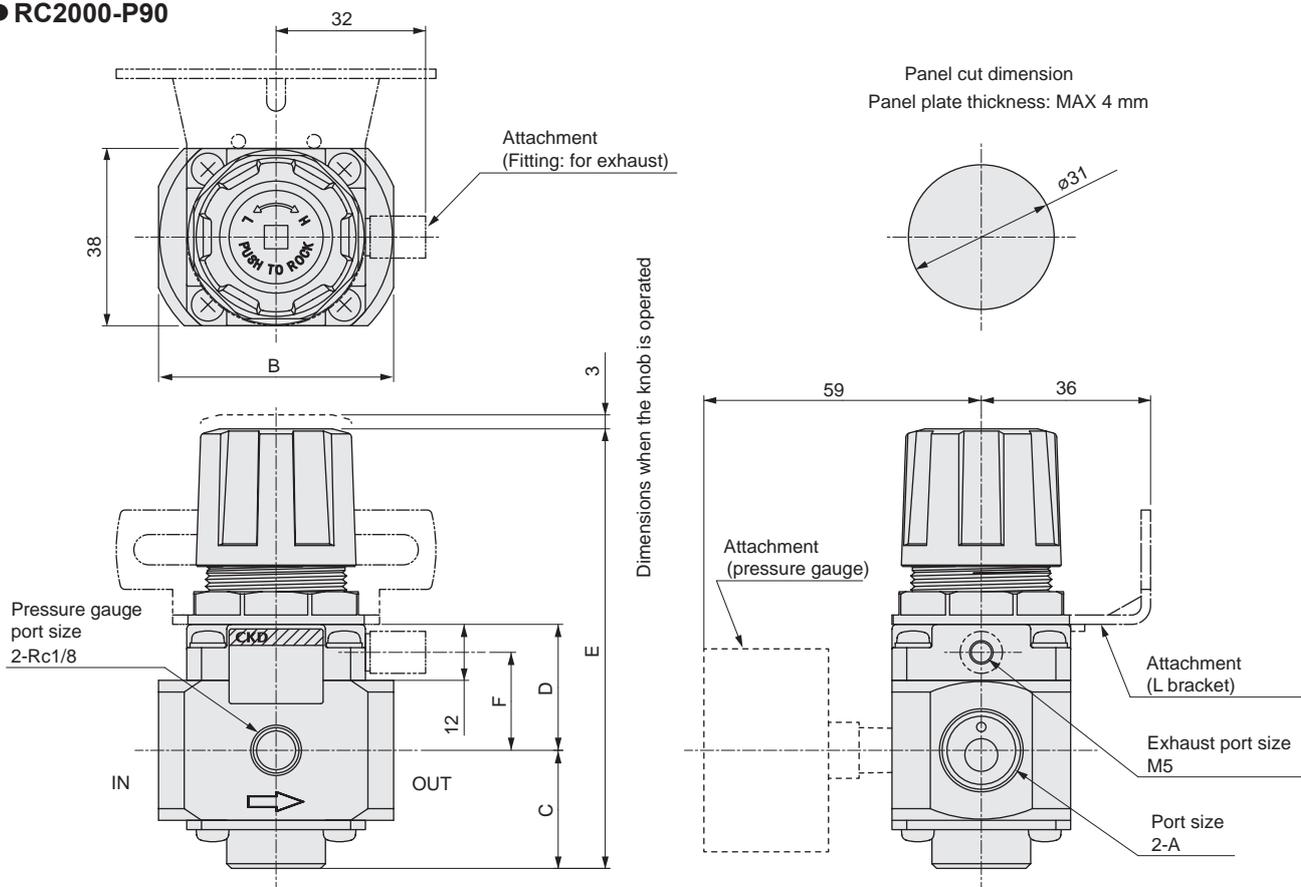
Valve for air blow

Ending

RC2000 Series

Dimensions

● RC2000-P90



Model No.	A	B	C	D	E	F
RC2000-8	Rc1/4	50	25.5	27	95	21
RC2000-10	Rc3/8					
RC2000-15	Rc1/2	58	27.5	29	99	23

Attachment

● L bracket (-B3)

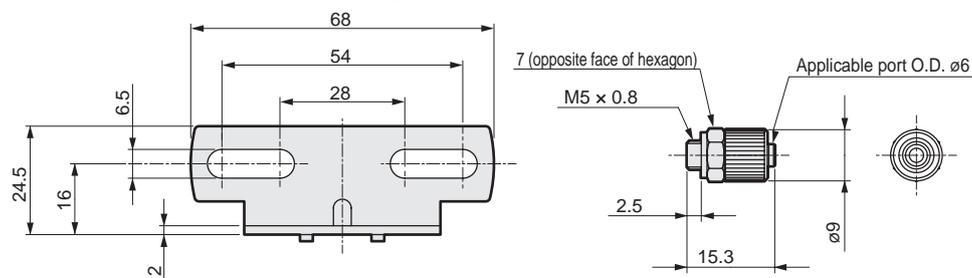
Part model No.: RC2000-B3

• Material: steel, nickel plate processing

● Fitting (-E1)

Part model No.: RC2000-E1

• Material: steel, nickel plate processing



Model No.	RC2000-E1
Working fluid	Compressed air, N ₂
Fluid temperature °C	5 to 60
Ambient temperature °C	5 to 60
Applicable tube	Urethane tube
Part	Material (treatment)
Metal part	Brass (nickel plating)
Rubber part	NBR