



Precision regulator

# RP1000 Series

● Port size: Rc1/4

JIS symbol



## Specifications

Item	RP1000-8-02	RP1000-8-04	RP1000-8-07
Working fluid	Compressed clean air ("in accordance with the recommended air circuit described in "Pneumatic, Vacuum and Auxiliary Components" (catalog No. CB-024SA))		
Max. working pressure MPa	1.0		
Min. working pressure MPa	Set pressure +0.1 *1		
Proof pressure MPa	1.5		
Ambient/fluid temperatures °C	-5 to 60 (no freezing) *3		
Set pressure MPa	0.003 to 0.2	0.005 to 0.4	0.005 to 0.7
Sensitivity	Within 0.1% of full scale		
Repeatability	Within ±0.5% of full scale		
Air consumption *2 l/min(ANR)	1.3 or less		3.4 or less
Port size	Rc1/4		
Pressure gauge port size	Rc1/8		
Weight g	250		

\*1: Flow rate of the secondary side is to be zero. For RP1000-8-04, if the set pressure is 0.3 MPa and over, increase +0.2 MPa in the set pressure.  
 \*2: Conditions where the primary pressure is 0.7MPa. Air is normally released from the bleed port.

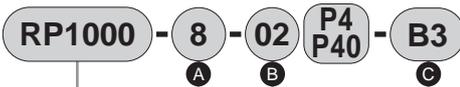
## Compatibility table by variation

	RP1000
Port size	Rc1/4
P4	●
P40	▲

\*1: Pressure gauge/pressure sensor must be ordered separately. (Attachment options not available.)  
 \*2: Zinc plating is used for pressure adjustment springs without gas contact in P40.  
 \*3: Dimensions are different from the standard products. There are mounting restrictions because of bleed port connection. Check the dimensions for each case.

●: Applicable models ○: Semi-applicable models  
 ▲: Contact CKD for details. □: Not applicable

## How to order



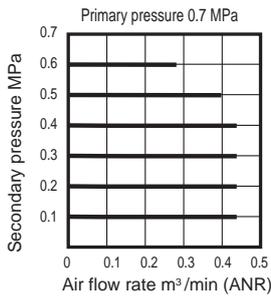
Model No.

A Port size		B Set pressure range		C Attachment (attachedwith)	
8	Rc1/4	02	MAX.0.2MPa	Blank	Without attachment
		04	MAX.0.4MPa	B3	L-bracket
		07	MAX.0.7MPa		

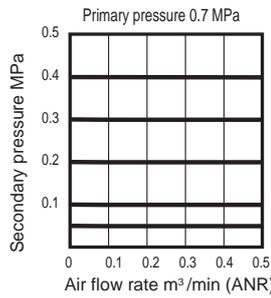
\*1: Bracket is attached.  
 \*2: One R1/8 plug and a dedicated fitting for the bleed port are attached with the product.

### Flow characteristics

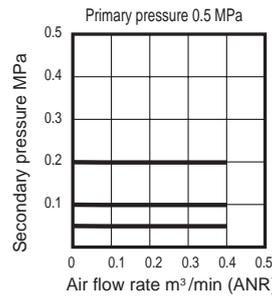
● RP1000-8-07



● RP1000-8-04

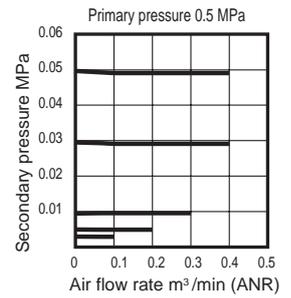


● RP1000-8-02



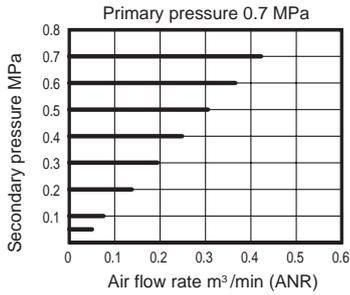
● RP1000-8-02

(Flow characteristics at low pressure)

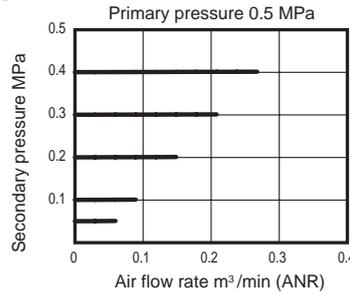


### Relief flow characteristics

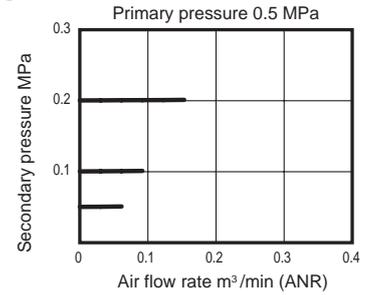
● RP1000-8-07



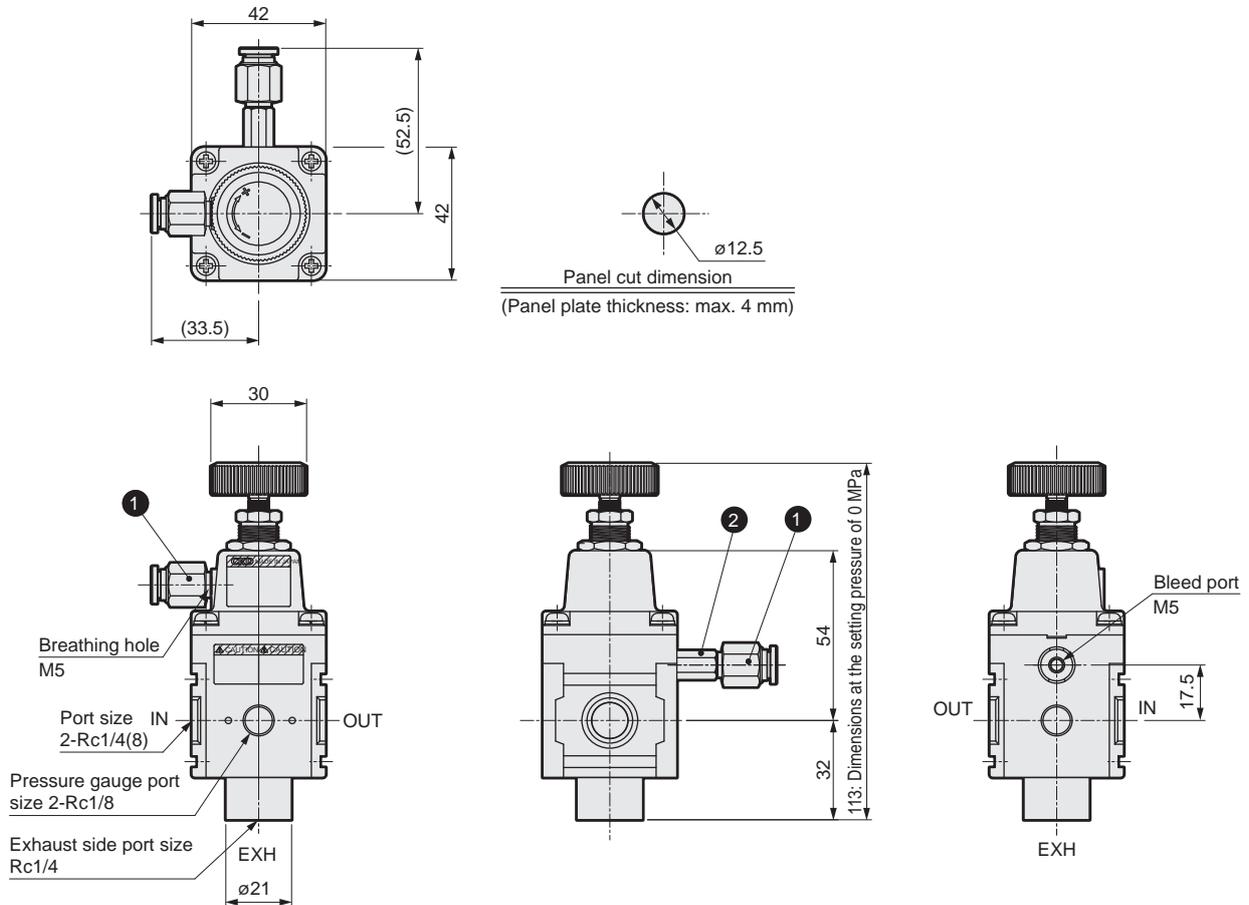
● RP1000-8-04



● RP1000-8-02



### Dimensions



### Parts list

Part No.	Part name
(1)	Two fittings (ZSP-C6-M5)
(2)	Bleed port extension fitting



Pneumatic, Vacuum and Auxiliary Components  
Catalog No. CB-024SA

Precision regulator

# RP2000 Series

● Port size: Rc1/4 Rc3/8

JIS symbol



## Specifications

Item	RP2000-8-08	RP2000-10-08
Working fluid	Using the recommended air circuit described in compressed clean air ("Pneumatic, Vacuum and Auxiliary Components" (catalog No. CB-024SA))	
Max. working pressure MPa	1.0	
Min. working pressure MPa	Set pressure +0.1 *1	
Proof pressure MPa	1.5	
Ambient/fluid temperatures °C	-5 to 60 (no freezing)	
Set pressure MPa	0.03 to 0.85	
Sensitivity	Within 0.2% of full scale	
Repeatability	Within ±0.5% of full scale	
Air consumption ℓ/min(ANR)	5 or less *2	
Port size	Rc1/4	Rc3/8
Exhaust side port size	Rc3/8	
Pressure gauge port size	Rc1/8	
Weight g	470	

\*1: Flow rate of the secondary side is to be zero.

\*2: Conditions where the primary pressure is 0.7 MPa and set pressure is 0.3 MPa. Consumed air is released from the bleed port and EXH port, while air is normally released from the bleed port. Air consumption is the total of consumption volume released from the bleed port and EXH port. 1 from EXH port ℓ/min (ANR) or less is released.

## Compatibility table by variation

	RP2000
Port size	Rc3/8
P4	●
P40	▲

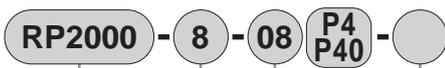
\*1: Pressure gauge/pressure sensor must be ordered separately. (Attachment options not available.)

\*2: Zinc plating is used for pressure adjustment springs without gas contact in P40.

\*3: Dimensions are different from the standard products. There are mounting restrictions because of bleed port connection. Check the dimensions for each case.

●: Applicable models ○: Semi-applicable models  
▲: Contact CKD for details. □: Not applicable

## How to order



Model No.

Ⓐ Port size

Ⓑ Set pressure range

Ⓒ Attachment

Code	Description
<b>Ⓐ Port size</b>	
8	Rc1/4
10	Rc3/8
<b>Ⓑ Set pressure range</b>	
08	MAX.0.85MPa
<b>Ⓒ Attachment</b>	
Blank	Without attachment
B	C-bracket

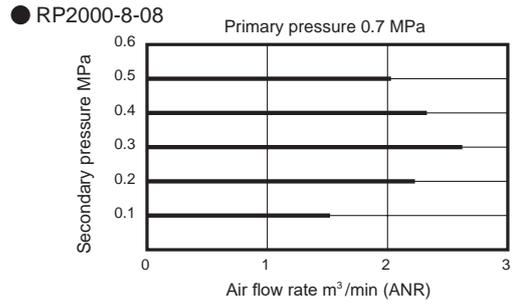
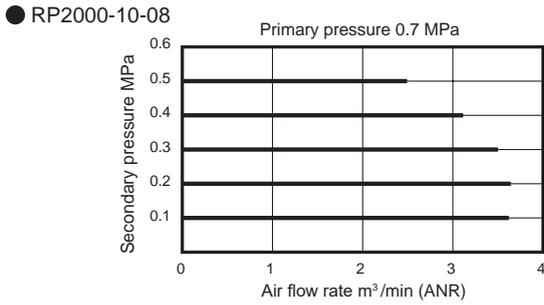
\*1: If an Rc1/2 port size is required, use a pipe adaptor set (model No.: A400-15-W).

\*2: Other attachments are included.

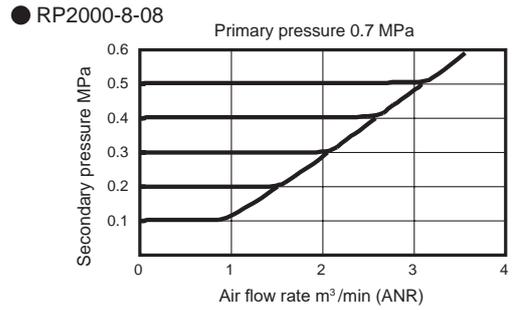
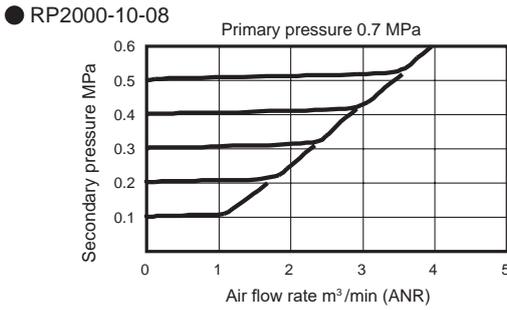
\*3: The pipe adaptor set and C-bracket cannot be used together.

\*4: One R1/8 plug and a dedicated fitting for the bleed port are attached with the product.

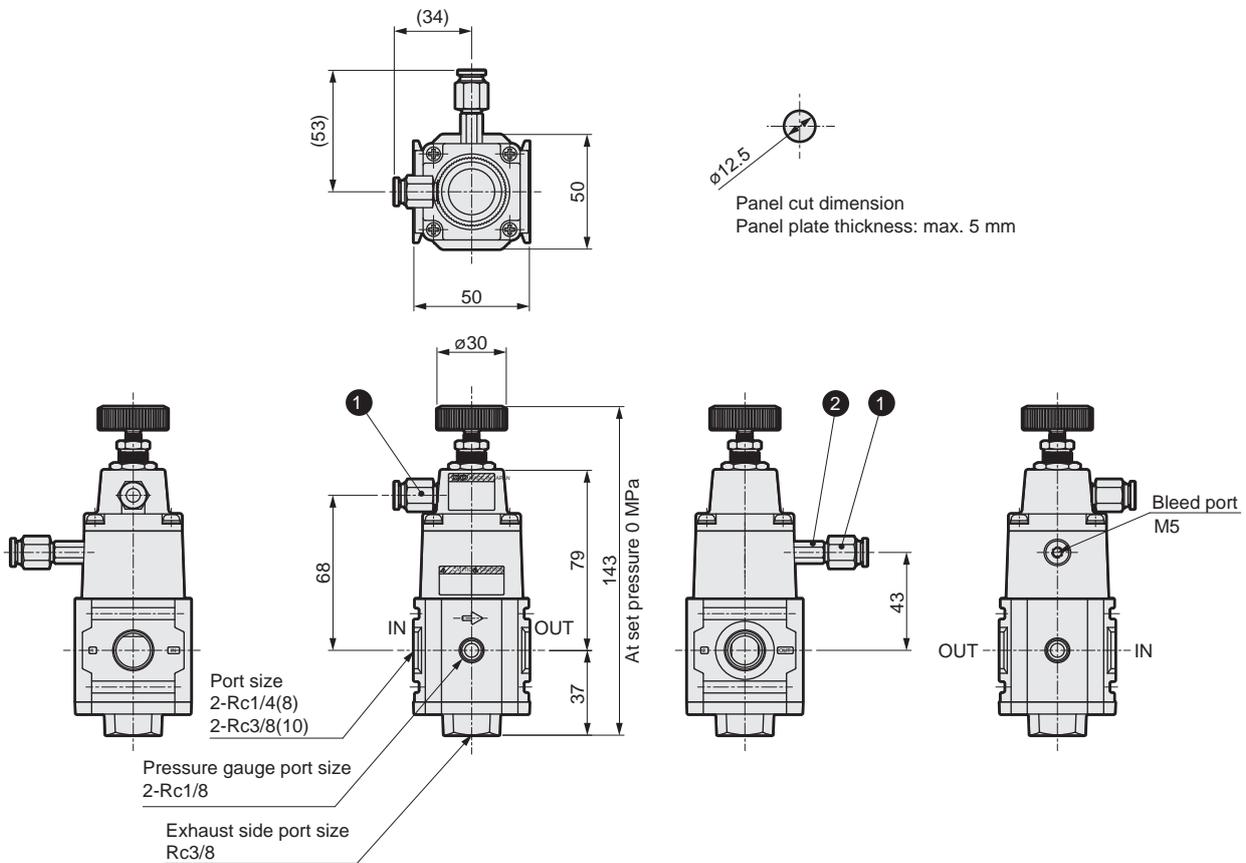
### Flow characteristics



### Relief flow characteristics



### Dimensions



### Parts list

Part No.	Part name
(1)	Two fittings (ZSP-C6-M5)
(2)	Bleed port extension fitting