

# Outstanding performance in low and extremely low pressure ranges from 0.003 to 0.1 MPa.

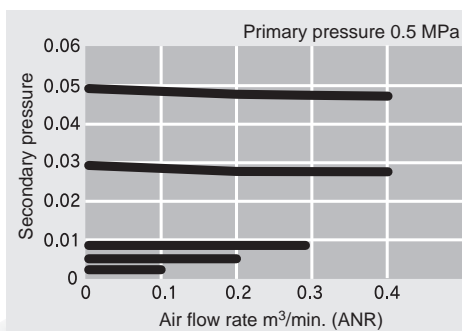
Realizing high performance, energy saving, and compact size.  
Enables precise pressure control in a pressure range of 0.003 to 0.4 MPa.

Pilot pressure control with a nozzle flapper enables highly precise, stable precise pressure control in a setting pressure range between 0.003 to 0.4 MPa. Control performance is especially outstanding in extremely low to low pressure ranges between 0.003 and 0.1 MPa. The relief flow rate is high even with the  $\square 42$  mm compact size. This energy saving type also has low air consumption.

## High precision pressure control

Regardless of the flow rate, pressure control is performed with repeatability within  $\pm 0.5\%$  of full scale and sensitivity within 0.1% of full scale.

## Stable flow characteristics with small pressure drop



## Set extremely low pressures

Pressure as low as 0.003 MPa can be set (RP1000-8-02).

## High relief flow rate

## Energy saving with low air consumption

### Pressure control

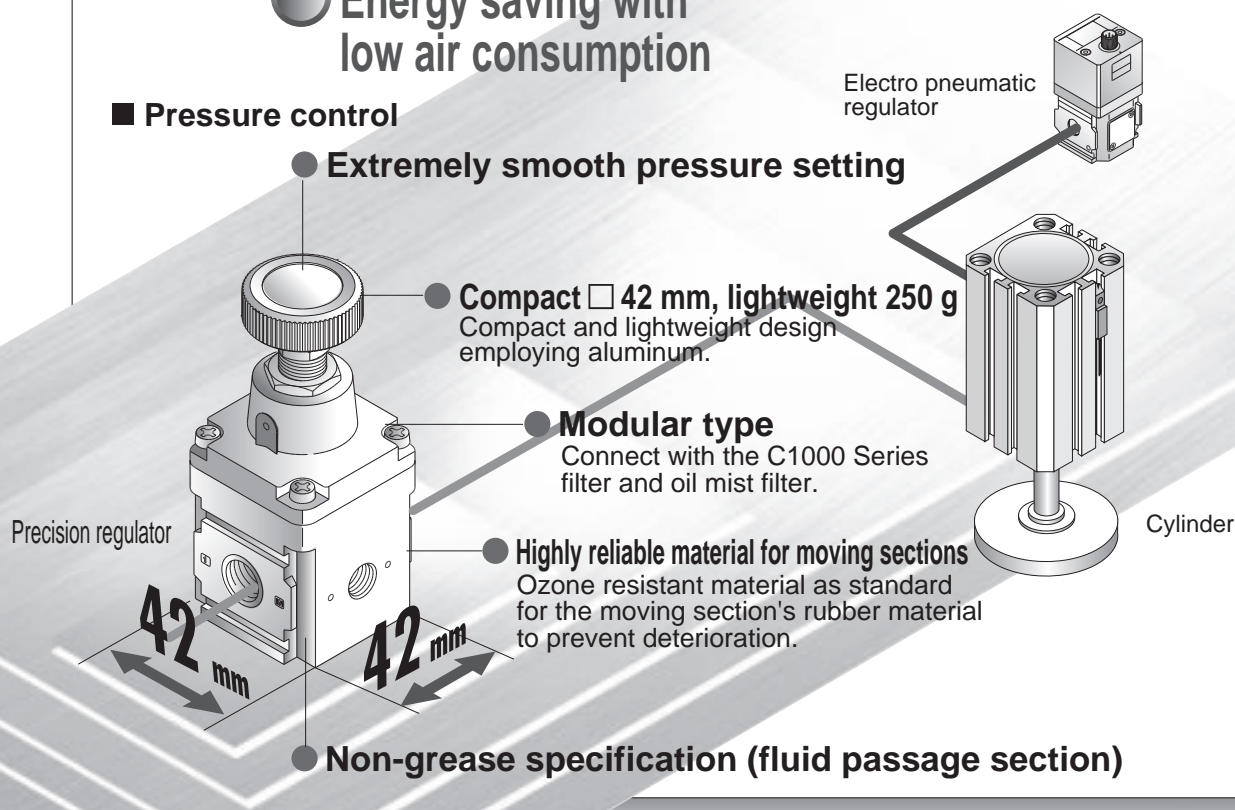
#### Extremely smooth pressure setting

**Compact  $\square 42$  mm, lightweight 250 g**  
Compact and lightweight design employing aluminum.

**Modular type**  
Connect with the C1000 Series filter and oil mist filter.

**Highly reliable material for moving sections**  
Ozone resistant material as standard for the moving section's rubber material to prevent deterioration.

**Non-grease specification (fluid passage section)**



High performance, energy saving, compact

# RP1000 Series

CKD

# Pressure setting: Max. 0.85 MPa

## Long-life, high flow perfect for balancer applications.

Realizing high performance, long service, and high exhaust flow. Enables precise pressure control in a pressure range of 0.03 to 0.85 MPa.

The RP2000 Series incorporates pilot pressure control using a nozzle flapper similar to the 1000 Series. However, this 50 mm compact high exhaust flow rate has high relief. Low sliding packing is used for moving parts, extending parts life. This type has outstanding durability and sufficient supply/discharge at optimum high frequency and high response required for devices such as balancers.

- High precision pressure control**  
 Regardless of the flow rate, pressure control is performed with repeatability within  $\pm 0.5\%$  of full scale and sensitivity within 0.2% of full scale.
- 50 mm/470 g**  
 Compact aluminum body with high flow rate.
- Foreign matter entry prevention**  
 A mesh filter is installed as standard on the IN side.
- Modular type**  
 Connect with the C3000 and C4000 Series filter and oil mist filter.
- Long service life**  
 Low sliding packing is adopted for moving sections, and dry resistant grease is used.
- Stable flow characteristics with small pressure drop**
- High relief flow rate**

Cylinder bore size and corresponding speed (guide)	
$\phi$ 80	1000 mm/s
$\phi$ 100	900 mm/s
$\phi$ 125	600 mm/s

Balancer

W

High performance, long service life, and high exhaust flow rate

# RP2000 Series