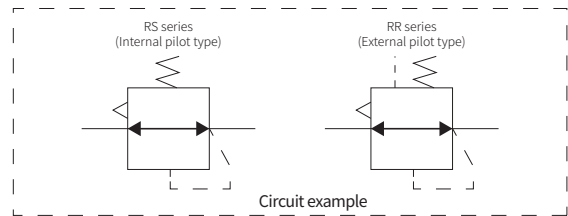


Ultra-precision pressure regulator RS/RR series

Product Features

- **Lightweight:** The body material is made of die-cast alloy aluminum, which greatly reduces the weight of previous products.
- **Ozone resistance:** Fluorine rubber is used in rubber parts and can be used even in environments that may produce ozone.
- **High precision control:** capable of sensitivity up to 0.1%F.S.
High precision air pressure control with repeatability of 0.1%F.S.
- **Excellent characteristics**
Excellent pressure reduction characteristics, pressure characteristics, and flow characteristics. In particular, the lowest pressure reduction of 0.03kPa (theoretical calculation value) is the most suitable for tension control pneumatic balancing.
- **Starting stability**
Even if you do not work for a long time, you do not need to adjust the pressure.
- **Capable of remote operation**
Remote operation is possible by using the pneumatic relay RR series.



Model Number

RS · HR - 8 - 2 - □ - □ - □

① ② ③ ④ ⑤ ⑥ ⑦

① Vacuum characteristic

code	peculiarity
RS	Internal pilot type
RR	External pilot type

② Decompression flow

code	specification
blank	standard
HR	High and low pressure

③ Pressure setting range

code	specification
4	14~420kPa
8	14~840kPa

④ Pipe connection diameter

code	specification
1	RC1/8
2	RC1/4
3	RC3/8

⑤ Offset adjustment knob

code	specification
blank	no
BA	With adjustment knob

⑥ Pressure gauge

code	specification
blank	no
G025	0~0.25MPa
G060	0~0.6MPa
G100	0~1MPa

⑦ Ozone resistant specifications

code	specification
blank	standard
F	Viton

Parameter specification

Internal pilot type	RS-4	RS-8	RS・HR-8
External pilot type		RR-8	RR・HR-8
Using circulation	Compressed clean air		
Pressure setting range	14~420kPa	14~840kPa	
Range of side pressure	1kPa		
Input signal pressure ¹⁾	—	14~840kPa	
Repetitive reproducibility	±0.1%F.S.		
Sensitivity	Within 0.1		
Reduce minimum pressure	0.03kPa (Theoretical calculated value)		
Decompression flow ²⁾	130L/min (ANR)	260L/min (ANR)	
Air consumption ³⁾	Within 3.7L/min (ANR) 以内		
Service temperature range	5~60°C		
Pipe connection caliber	1/8Rc (RS-4, RS-8) , 1/4Rc, 3/8Rc		
Manometer connection caliber	1/4 (2 places) Rc		

Optional accessories

● Bias adjustment knob BA

When using the pneumatic relay RR series, the bias pressure can be set in the range of 0.2MPa by using the bias adjustment knob.

● Pressure gauge

Accuracy ±1.6%F.S
Minimum scale

G025	0.005MPa
G060	0.01MPa
G100	0.02MPa

● Ozone specification

As a countermeasure to ozone resistance, fluorine rubber is used for diaphragm rubber materials.

1) Suitable for pneumatic relay RR series

2) The reduced pressure flow when the pressure is set to 0.2MPa.

3) Because it is a permanent exhaust type, it always emits air into the atmosphere.