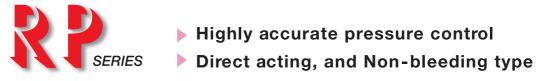


FUJIKURA COMPOSITES

PRECISION AIR REGULATOR





FUJIKURA COMPOSITES Inc.



FEATURES

- Accurate Pressure Regulation Repeatability: within ± 0.5 % F.S.
- Superior Supply Pressure Characteristics output pressure variation to changes in supply pressure: within 0.5kPa
- Excellent Non-Bleed Pressure Regulation
 Generates a Zero-based precision output pressure unmatched by any other direct acting type of regulators.
- Free from Dust Trouble Incorporated Screen Filter assures long trouble-free operation.



SPECIFICATIONS

TYPE	Relieving	RP-0.5-2	RP-2-2	RP-4-2	RP-7-2	
TERM	Non-Relieving	RP·NR-0.5-2	RP·NR-2-2	RP·NR-4-2	RP·NR-7-2	
Working Flui	rking Fluid Clean Compressed Air					
Set Pressure	Range MPa	0.05	0.2	0.4	0.7	
Supply Pressu	re Range MPa	0.5 max.		1 max.		
Repeatability	/ % F.S.		Within	± 0.5		
Sensitivity	% F.S.	Within 1	Withi	n 0.5	Within 0.3	
Operating Ter	mperature °C		5~	60		
Pipe Port	Rc		1/	/ 4		
Gauge Port	Rc		1/4 (2	Ports)		
Bracket			Standard I	Equipment		
Weight	Weight kg		0.41			

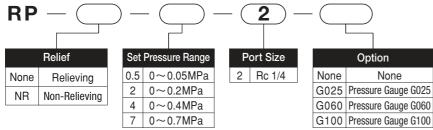
^{*0.02}MPa and 0.03MPa models available.

PRESSURE GAUGE (OPTION)

• Accuracy \pm 1.6 % F.S.

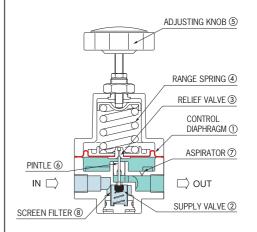
Opt. No.	G025	G060	G100
Unit		MPa	
Pressure Range	0~0.25	0~0.6	0~1
Min. Graduation	0.005	0.01	0.02

■ MODEL DESIGNATION



*0.02MPa and 0.03MPa models available.

EXPLANATORY CONSTRUCTION AND PRINCIPLE OF OPERATION



Range spring ④, which has been compressed by Adjusting knob ⑤, causes Pintle ⑥ to move downward,opening Supply valve ② and allowing air flow to the downstream. The pressure builds up against Control diaphragm ① until Supply valve ② closes.

This is the equilibrium or set pressure, which is closely maintained under changes in operating conditions in the following manner.

1. Downstream Pressure Drop

A drop in downstream pressure reduces the diaphragm pressure force, upsetting the equilibrium condition.

This unbalance causes Supply valve ② to open until the pressure builds up once more to the set value.

2. Downstream Pressure Increase

An increase in downstream pressure acts on Control diaphragm ①, causing the relief seat to lift and Relief valve ③ to open.

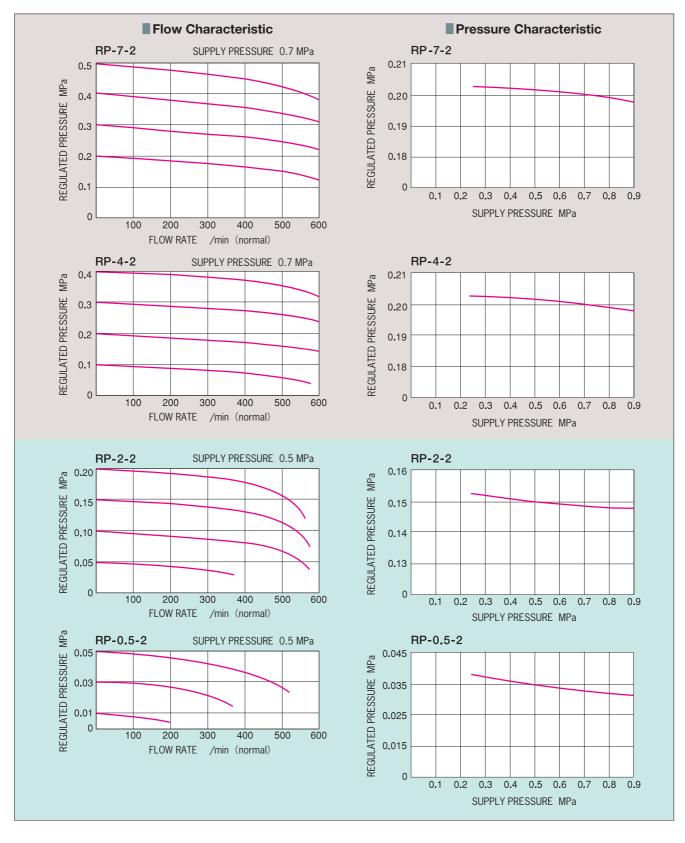
The excess pressure drops quickly to the set value.

3. Changes in Forward Flow

Under stable forward flow condition, the range spring force is balanced by the diaphragm pressure force, with Supply valve ② open just enough to maintain the required equilibrium pressure.

When high flow occurs, Aspirator ⑦ helps maintain downstream pressure and compensates for droop.

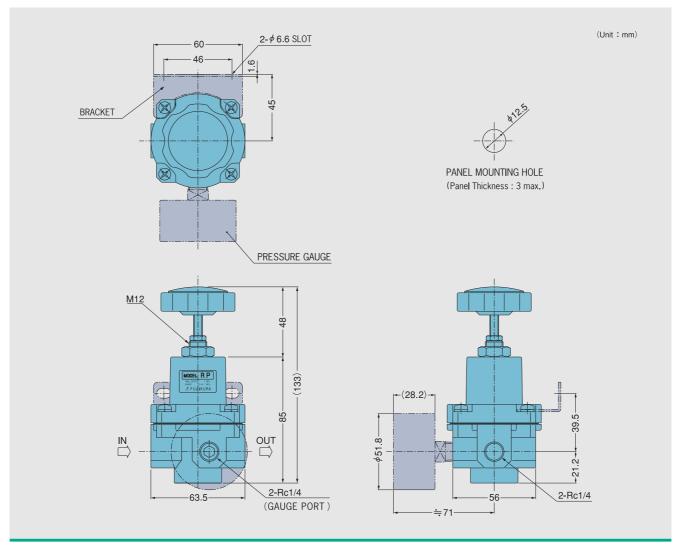






- 1) Flush out all air lines thoroughly to remove dirt and scale before installation is made.
- ② Do not apply shock load on the top of fully tightened Adjusting knob to avoid possible damage of inner parts.
- ③ When attaching Mounting bracket to the body with two pan head screws which serve also fur tightening Bonnet,make sure the screws are not tightened too hard.





Fujikura's Pneumatic Control Products Line

Precision Pneumatic Control Products Gen	eral Guide	Cat. No. KS-572E	
■ Super Precision Air Regulators	Series RS	Cot No I/C 100F	
■ Super Precision Air Relays	Series RR	ries RS ries RR } Cat. No. KS-128E	
■ Precision Electro-Pneumatic Transducers	Series RT	Cat. No. KS-130E	
■ Precision Vacuum Pressure Regulators	Series RV	Cat. No. KS-131E	
■ Precision BF Cylinders	Series FC	Cat. No. KS-570E	

[Please request respective catalog for detailed contents of each product.]



Control Equipment Sales Department

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3-5-7, Ariake Koto-ku, Tokyo 1350063, JAPAN TEL: +81-3-3527-8573 FAX: +81-3-3527-8390

Email: seigyo.toiawase@fc.fujikura.co.jp

URL: https://www.fujikura-control.com/english/

Notice: Specification changes of Accessory (Bracket for regulator "RP series",)

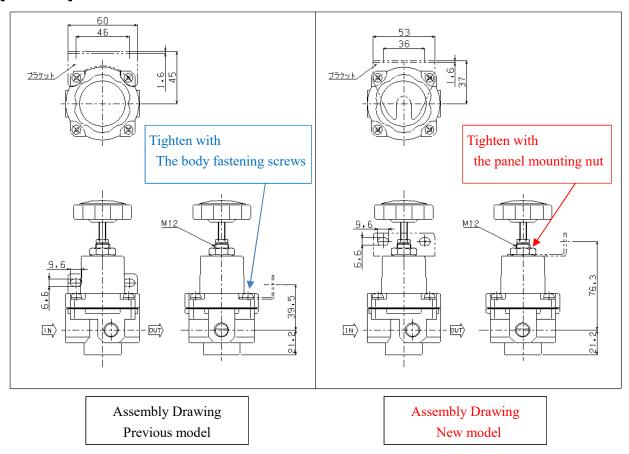
Dear Valued Customer,

We hereby give official notification that the specifications of the bracket for air regulator "RP series" and "RP series" you have purchased from us are changing from the first lot of production in April 2023. There will be no change in product model number due to this change.

[Details of change]

The shape will be changed in accordance with the shared use with other regulator series. Due to the change in shape, the mounting position will also change. There are no changes to the products themselves, so there are no effects on the characteristics.

[RP series]





Specifications

Relief type	RP-0.2-2	RP-0.3-2	RP-0.5-2	RP-2-2	RP-4-2	RP-7-2
Non-relief type	RP - NR-0.2-2	RP • NR-0.3-2	RP - NR-0.5-2	RP - NR-2-2	RP - NR-4-2	RP · NR-7-2
Working fluid		1	Clean comp	ressed air		
Set pressure Range Mpa[psi]	0~0.02 [2.9]	0~0.03 [4.4]	0~0.05 [7.3]	0~0.20 [29]	0~0.40 [58]	0~0.70 [102]
Supply pressure range MPa[psi]		0.5 MAX			1 MAX	
Repeatability % F.S			Within	±0.5		
Sensibility % F.S.	Within ±1.5	Within ±1.3	Within ±1	Within	n ±0.5	Within ±0.3
Operating temperature "C["F]			5 ~ 60 [4]	1 ~ 140]		
Pipe port Rc			1/4	1		
Pipe port Rc			1/4 (2 p	oorts)		
Accessory parts			Mounting brack	et(Standard)		
Weight kg[pound]			0.41[0),9]		

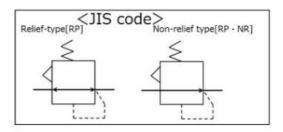
■ Pressure gauge

Model	Pressure range	Minimum scale
G025	0~0.25MPa [0~36.26psi]	0.005MPa [0.73]
G060	0~0.6MPa [0~87.02]	0.01MPa [1.45]
G100	0~1.0 [0~145.04]	0.02MPa {2.90}

- · Accuracy ±1.6%F.S.
- · Pipe port R1/4

Mpa[psi]

- · Size Ф51.8mm [2.39in.]
- Weight 125g [0.28pound]



Model designation

