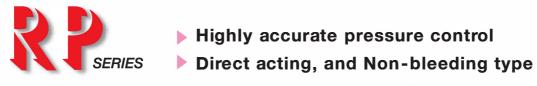


# PRECISION AIR REGULATOR





**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 Fluid		Clean Compressed Air				
Set Pressure Range MPa		0.05	0.2	0.4	0.7	
Supply Pressure 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 Temperature °C		5~60				
Pipe Port Rc			1/	<b>4</b>		
Gauge Port Rc		1 / 4 (2 Ports)				
Bracket			Standard Equipment			
Weight kg		0.41				

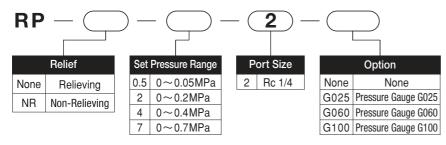
Note: When you use extreme low pressure, Please consult us at the address printed on the back cover.

# PRESSURE GAUGE (OPTION)

● **Accuracy** ± 1.6 % F.S.

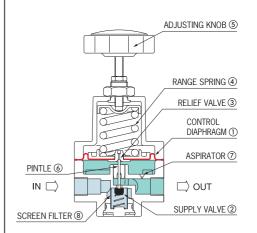
Opt. No.	G025	G060	G100	
Unit	MPa			
Pressure Range	0~0.25	0~0.6	0~1	
Min. Graduation	0.005	0.01	0.02	

#### ■ MODEL DESIGNATION



<sup>\*</sup> Set pressure range up to 0.02, 0.03MPa are also available. For details, consult us

# 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.

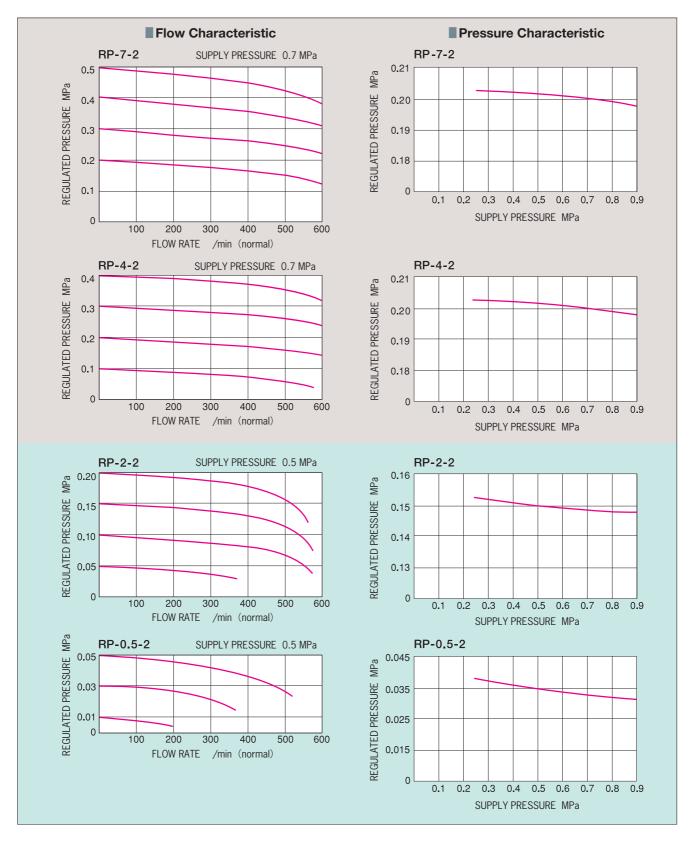
The excess pressure drops quickly to the set value.

# 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.



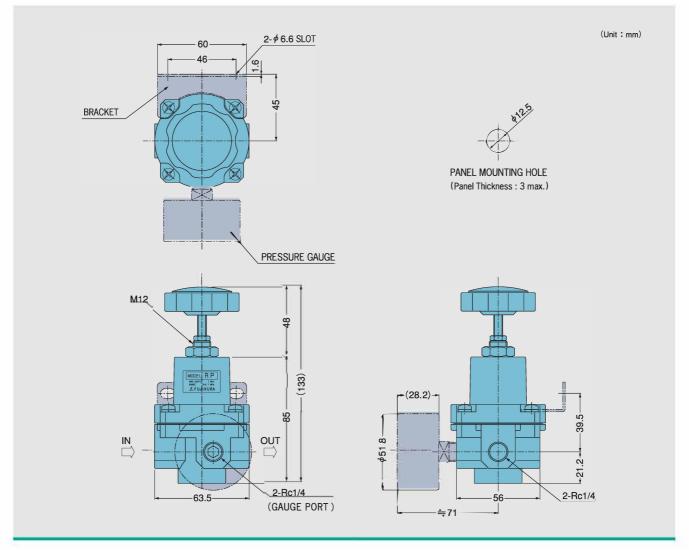




- ① Flush out all air lines thoroughly to remove dirt and scale before installation is made.
- ② Do not apply shock load on the top of fully tightened Adjusting knob to avoid possible damage of inner parts.
- ③ When attaching Mounting bracket to the body with two pan head screws which serve also fur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







Note: Specifications subject to change without notice for improvements and modifications



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