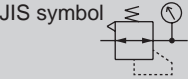


Precision regulator

RPE1000 Series

● Port size: 1/4

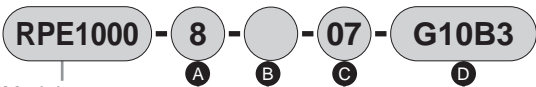


Specifications

Item	RPE1000-8-07
Working fluid	Compressed clean air (refer to recommended air circuit on page 514)
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	0.01 to 0.7
Sensitivity	Within 0.2% of full scale
Repeatability	Within ±0.5% of full scale
Air consumption *2 l/min (ANR)	0.2 or less
Port size *4 Rc, NPT, G	1/4
Pressure gage port size Rc, NPT, G	1/8
Weight g	250 *3

*1: Flow rate of the secondary side is to be zero.
*2: Conditions where the primary pressure is 0.7 MPa and air is consumed in the secondary side. Air is released to the atmosphere at 1 l/min or less from EXH port when there is no air consumption.
*3: For weight when ● attachment is included, add the following weight. Pressure gauge: 74 g, bracket: 30 g
*4: When selecting G thread, the OUT side screw depth is 6 mm.

How to order



Model
RPE1000:
Precision regulator

A Port size		B Port thread/pressure indication		C Set pressure range		D Attachment (attachedwith)	
8	1/4	Blank	Rc thread, MPa display	07	MAX.0.7MPa	Blank	Without attachment
		N	NPT thread, psi display *4			G02	Pressure gauge (G45D-6-P02)
		G	G thread, bar display			G04	Pressure gauge (G45D-6-P04)
						G10	Pressure gauge (G45D-6-P10)
						B3	LModelBracket (B131)

*1: A pressure gauge and a bracket are enclosed.
*2: The pressure gauge range is to be selected.
Do not apply pressure exceeding the pressure gauge's MAX range.
*3: One plug (1/8) is included with the product. (G thread is not included.)
*4: In compliance with the Measurement Act, the psi display cannot be used in Japan.
*5: The pressure gauge and digital pressure sensor (included) can be selected only when Port thread is Rc thread.

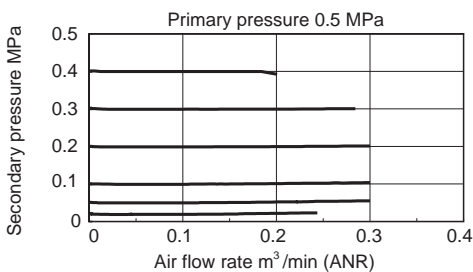
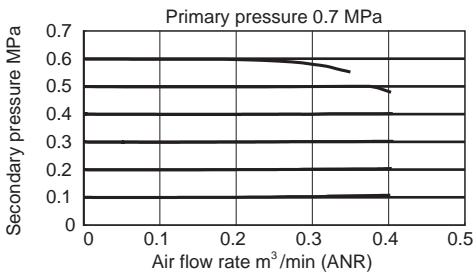
Specifications for rechargeable battery

(Catalog No. CC-1226A)

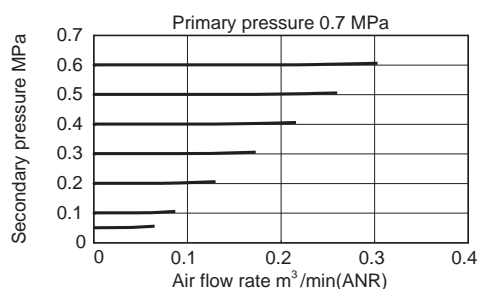
● Structure compatible with rechargeable battery manufacturing process

RPE1000 P4

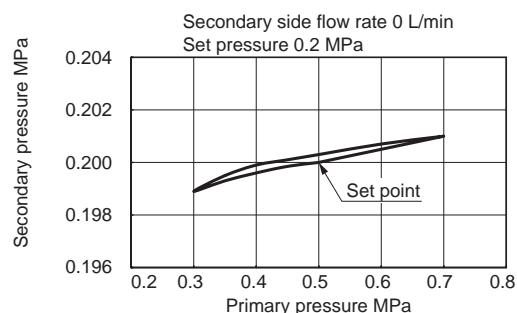
Flow characteristics



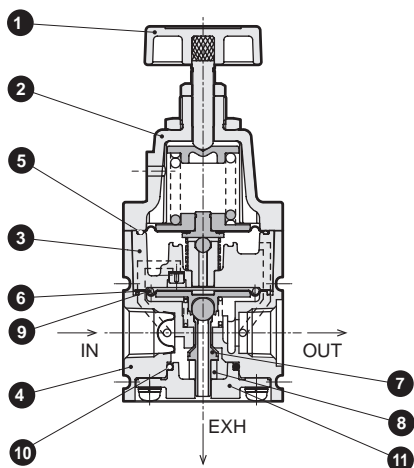
Relief flow characteristics



Pressure characteristics

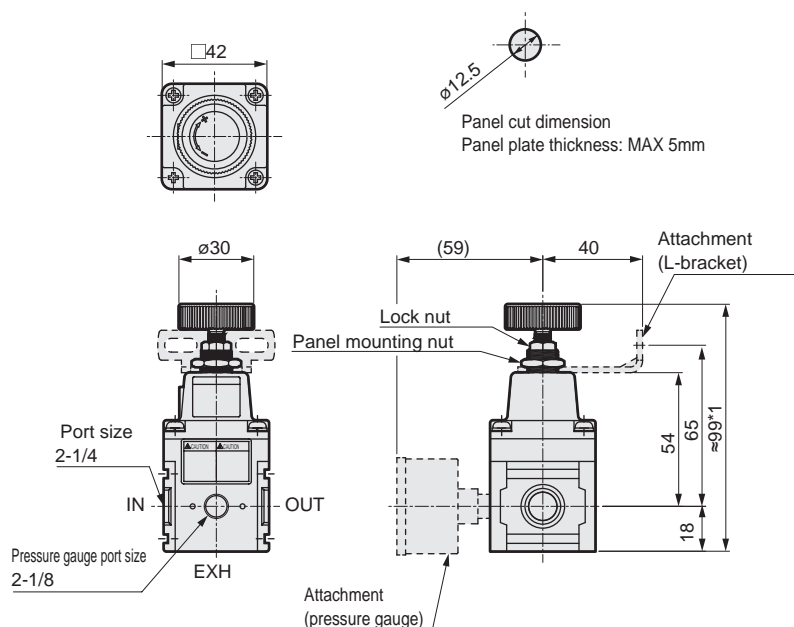


Internal structure diagram and parts list



Part No.	Part name	Material
1	Pressure adjustment knob	Polyacetal resin, stainless steel
2	Cover	Aluminum alloy die-casting
3	Pilot body assembly	Aluminum alloy die-casting, etc.
4	Body	Aluminum alloy die-casting
5	Pilot diaphragm assembly	Hydrogenated nitrile rubber, zinc alloy die-casting
6	Main diaphragm assembly	Hydrogenated nitrile rubber, zinc alloy die-casting
7	Valve	Hydrogenated nitrile rubber, stainless steel
8	Bottom rubber	Silicone rubber
9	O-ring	Nitrile rubber
10	O-ring	Hydrogenated nitrile rubber
11	Bottom plug	Polybutylene terephthalate resin

Dimensions



Pressure gauge

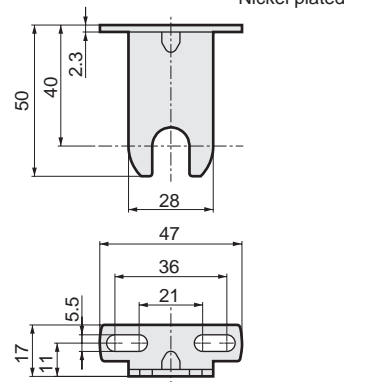
• G45D-6-
P02
P04
P10

L-bracket

• B131

• Weight: 29 g
• Material: Steel

Nickel plated



*1: Dimensions at the set pressure of 0MPa

*2: Pressure gage and bracket are included options.

(Reference) Guideline for cylinder operation speed

Cylinder bore size (mm)	Recommended operation speed (mm/s)
ø40	500 or less
ø50	320 or less
ø63	200 or less
ø80	130 or less
ø100	80 or less

This is a guideline for operation speed obtained by calculating the air supply and exhaust flow rate of the precision regulator mounted directly to the cylinder and the required consumption flow rate at one cylinder PUSH/PULL. Using at a higher capacity than the capacity of the precision regulator may cause malfunctions.