

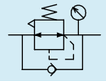
Compact Regulator

RB500 Series

Compact, space saving structure and reverse flow function integrated.

● Port Size : Push-in Fitting ø4, ø6

Circuit Diagram Symbol



RoHS

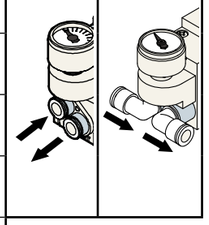
Model No. Notation

RB500 – SSC4 – PG39

Model No. / ❶ Connection / ❷ Option

❶ Connection

Type		Code	Content
Direction	IN	S	Straight
		L	Elbow
	OUT	S	Straight
		L	Elbow
Bore		C4	ø4
		C6	ø6



*1

❷ Option

Type	Code	Content	
Panel mount *2	Blank	No nut	
	P	With nut	
Pressure Range	Blank	0.05 to 0.7 MPa (Pressure Gauge : G29D-6-P10)	
	L	0.05 to 0.35 MPa (Pressure Gauge : G39D-6-P04)	
Relief	Blank	Relief Type	
	N	Non-relief Type	
Pressure Gauge *1	Blank	With pressure gauge	
	T	No pressure gauge (Gauge port Rc 1/8)	
	G39	With Pressure Gauge (G39D-6-P10)	

*1 : ø21, 0 to 1.0 MPa pressure gauges are standard. For low pressure, ø27 0 to 0.4 MPa low-pressure gauge is provided.

*2 : Indicate option code "P" for panel mounting.

Specifications

Item		RB500
Operating fluid		Compressed Air
Max. Operating pressure	MPa	1.0
Proof Pressure	MPa	1.5
Ambient/Fluid Temperatures	°C	5 to 60
Set Pressure	MPa	0.05 to 0.7 (*1)
Relief		With Relief Mechanism
Port size	IN/OUT	Push-in fitting : ø 4 / ø 6
	GAUGE	Rc1/8
Weight	g	80

*1 : Low pressure specifications are 0.05 to 0.35.

Rechargeable Battery Compatible Specification (Catalog No. CC-1226AA)

●Structure usable in rechargeable battery manufacturing processes

RB500 – ····· – P4□

* Please contact us for details.

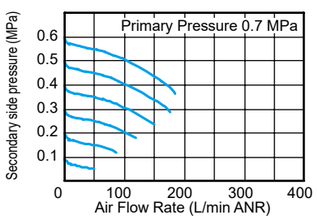
Option weight table

* Add to the Weight of the standard equipment.

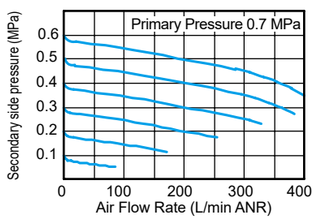
Panel mount	P	With nut	2 g
Pressure Range	L	0.05 to 0.35 MPa	19 g
Pressure Gauge	T	No Pressure Gauge	-12 g (L : -31 g)
	G39	With pressure gauge	19 g

Flow characteristics

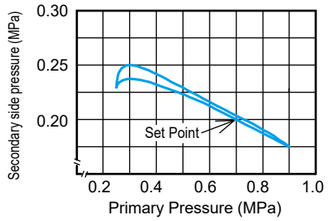
● RB500-SSC4



● RB500-SSC6

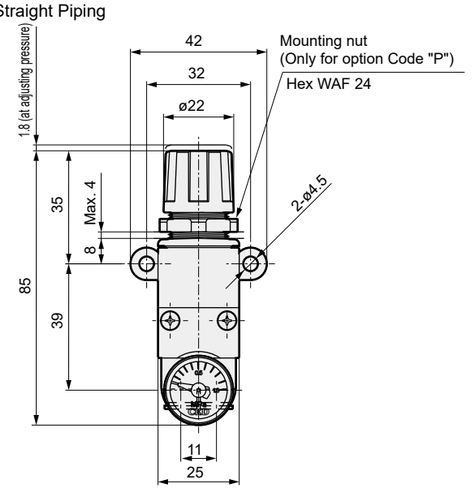


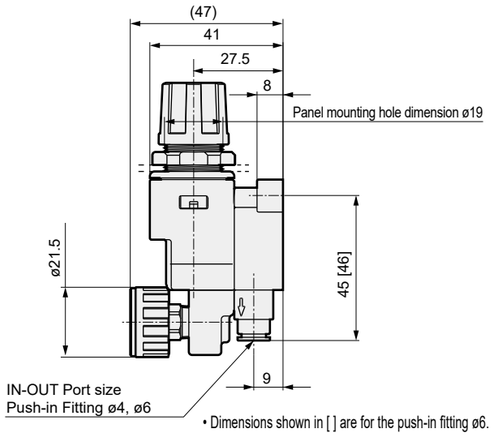
Pressure Characteristics



Dimensional Drawings

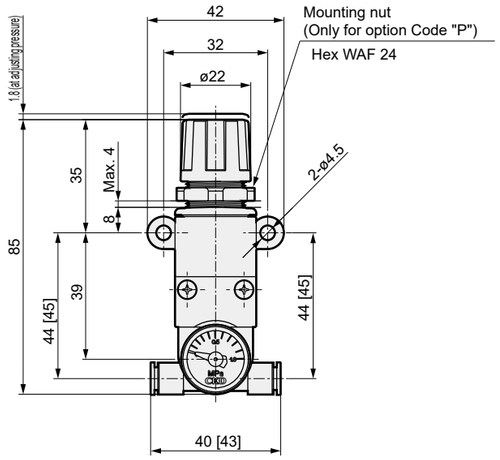
● RB500 Straight Piping

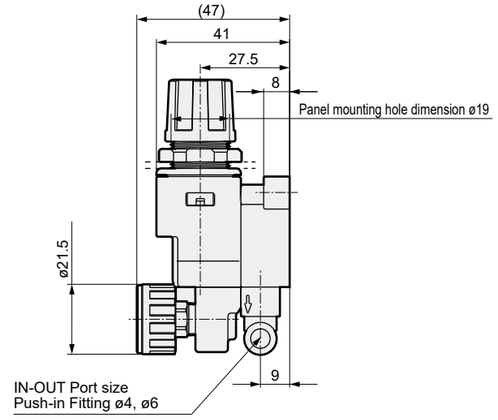




• Dimensions shown in [ ] are for the push-in fitting ø6.

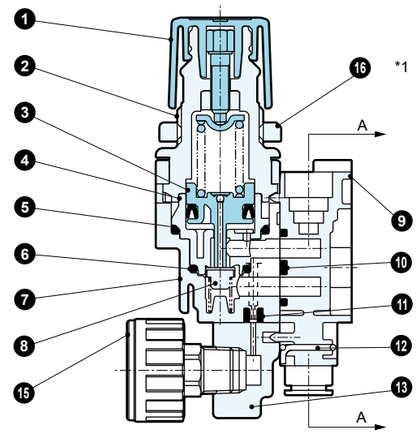
● RB500 Elbow piping

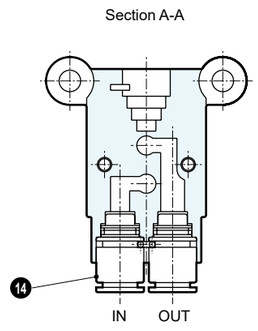




• Dimensions shown in [ ] are for the push-in fitting ø6.

Internal Structure Diagram / Material





*1:A mounting nut is optional. Nut is attached only for option code "P".

Part No.	Part Name	Material
1	Knob	Polyacetal Resin
2	Cover	Polyamide resin
3	Piston assembly	Polyacetal resin, nitrile rubber
4	Piston Guide	Polyacetal Resin
5	O-ring	Nitrile Rubber
6	O-ring	Nitrile Rubber
7	Body	Polyamide resin
8	Valve element	Aluminum, hydrogenated nitrile rubber
9	Piping block assembly	Polyamide resin / Steel
10	Body packing	Hydrogenated Nitrile Rubber
11	Packing	Nitrile Rubber
12	Stop Pin	Stainless Steel
13	Gauge plug	Polyamide resin
14	Cartridge fitting	
15	Pressure Gauge	
16	Mounting nut	Polyacetal Resin