

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filt
Film
Resist FR
Oil-Prohr
Med
Press FR
No Cu/
PTFE FRL
Outdris FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneur
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro
Press SW
ContactSW
AirSens
PresSW
Cool
Air Flo
Sens/Ctrl
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending



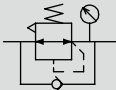
Compact regulator

RB500 Series

Compact, space saving structure and reverse flow function integrated.

● Port size: Push-in fitting $\varnothing 4$, $\varnothing 6$

JIS symbol



Specifications

Item		RB500
Working fluid		Compressed air
Max. working pressure	MPa	1.0 (≈ 150 psi, 10 bar)
Proof pressure	MPa	1.5 (≈ 220 psi, 15 bar)
Ambient / fluid temperatures	$^{\circ}\text{C}$	5 (41°F) to 60 (140°F)
Set pressure	MPa	0.05 (≈ 7.3 psi, 0.5 bar) to 0.7 (≈ 100 psi, 7 bar) (*1)
Pressure relief		With relief mechanism
Port size	IN/OUT	Push-in fitting: $\varnothing 4/\varnothing 6$
	GAUGE	Rc1/8
Weight	g	80

*1: Low pressure specifications are 0.05 to 0.35.

Specifications for rechargeable battery (Catalog No. CC-1226A)

● Structure compatible with rechargeable battery manufacturing process

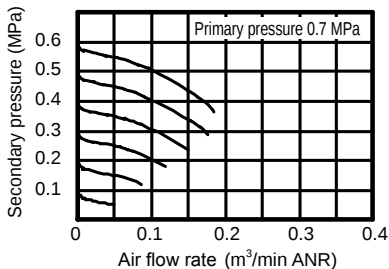
RB500 — — **P4**

Ozone-proof specifications (Ending Page 14)

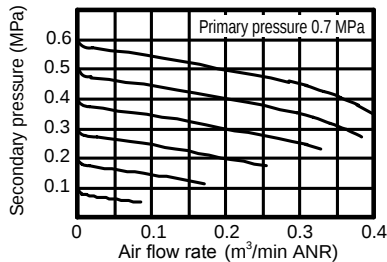
RB500 — — **P11**

Flow characteristics

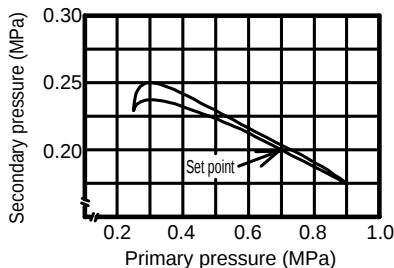
● RB500-SSC4



● RB500-SSC6



Pressure characteristics



How to order

RB500 - **SSC4** - **PG39**

Model No.

A Connection

B Option

⚠ Precautions for model No. selection

*1: $\varnothing 21$ 0 to 1.0 MPa pressure gauge is standard.
For low pressure, $\varnothing 27$ 0 to 0.4 MPa low pressure gauge is provided.

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

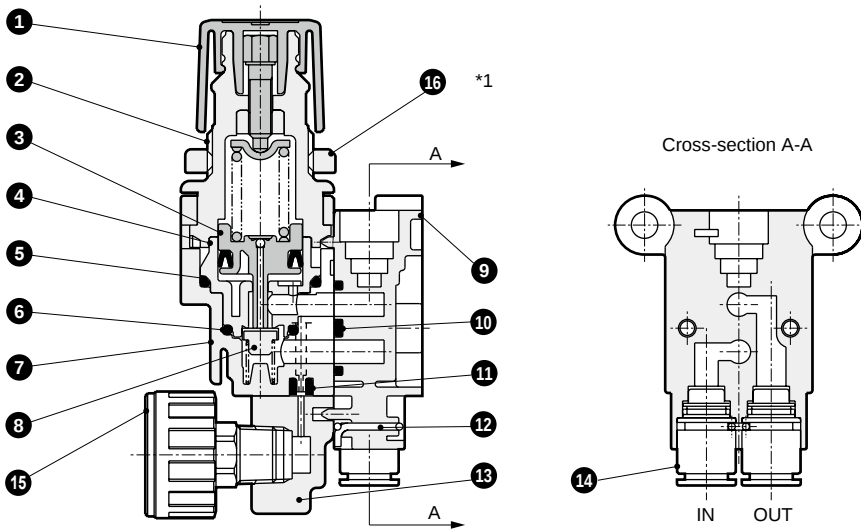
Option weight

* Add to the weight of the standard accessories.

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

Code		Description	
A Connection			
Direction	IN	S	Straight
		L	Elbow
	OUT	S	Straight
		L	Elbow
Bore size		C4	ø4
		C6	ø6
B Option			
Panel mount		Blank	Without nut
		*2 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)
Pressure relief		Blank	Relief
		N	Non-relief
Pressure gauge		Blank	With pressure gauge
		T	No pressure gauge (gauge port Rc1/8)
		G39	With pressure gauge (G39D-6-P10)

Internal structure and parts list

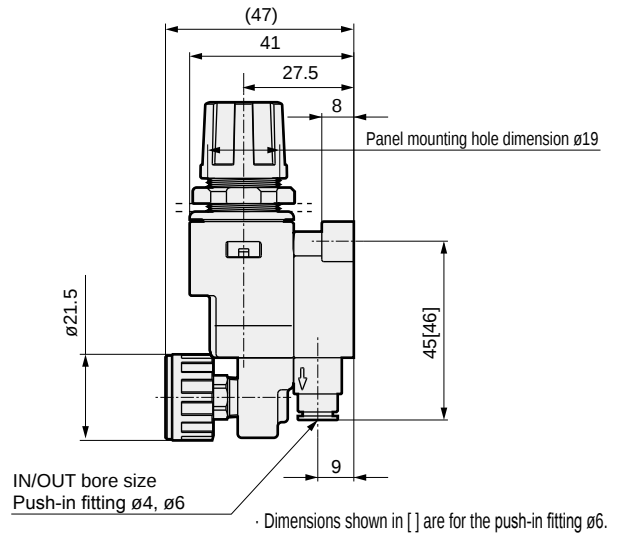
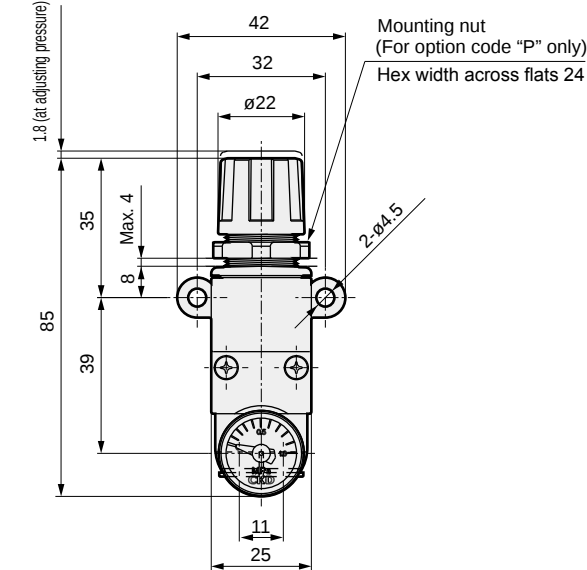


No.	Part name	Material
1	Knob	Polyacetal resin
2	Cover	Polyamide resin
3	Piston assembly	Polyacetal resin, nitrile rubber
4	Piston guide	Polyacetal resin
5	O-ring	Nitrile rubber
6	O-ring	Nitrile rubber
7	Body	Polyamide resin
8	Valve element	Aluminum, hydrogenated nitrile rubber
9	Piping block assembly	Polyamide resin/steel
10	Body packing seal	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

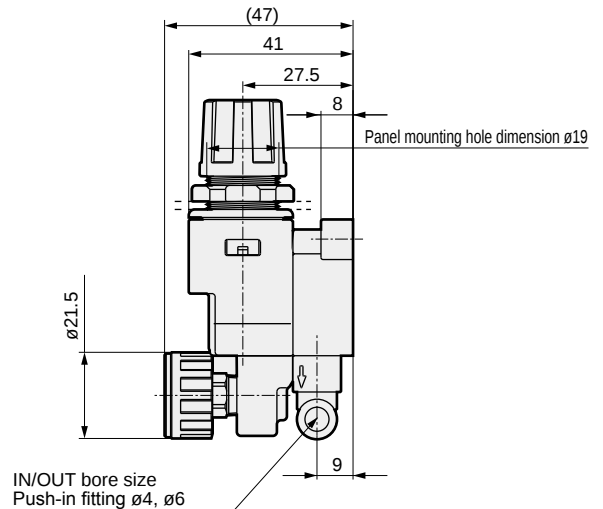
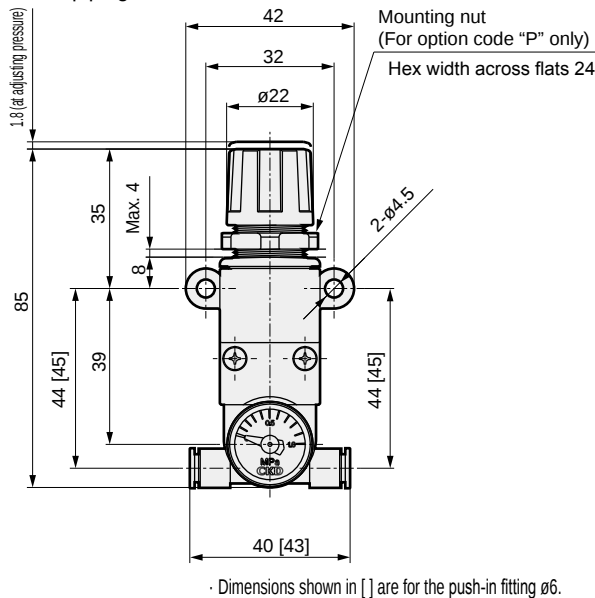
Dimensions



● RB500 axial piping



● RB500 elbow piping



F.R.L.
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F (Filtr)
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Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filtr
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdris FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro
Press SW
ContactSW
AirSens
PresSW
Cool
Air Flo
Sens/Ctrl
WaterRiSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending