

**PresSW** 

Shutoff

SlowStart

FImResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR

(Related)

CompFRL

LgFRL

PrecsR VacF/R

Clean FR

ElecPneuR AirBoost

SpdContr Silncr CheckV/

Jnt/tube
AirUnt
PrecsCompn
Mech/

ElecPresSw

ContactSW

AirSens

PresSW

AirFloSens/ Contr

WaterRtSens

TotAirSys

(Total Air)

TotAirSys (Gamma)

RefrDry

DesicDry

HiPolymDry

MainFiltr
Dischrg
etc
Ending

Cool

F.R.L

Compact filter/regulator

# WB500 Series

JIS symbol







### **Features**

# Compact Push-in fitting and bracket are integrated to reduce total space.

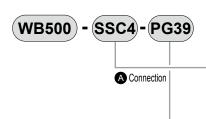
- Lightweight
   Resin is used in body material to reduce weight.
- Increased workability
   Push-in fitting is provided as standard.
   The piping direction can be selected from straight or elbow. Plumbing is easy.

### Specifications

	WB500	
	Compressed air	
ure MPa	1.0 (≈150 psi, 10 bar)	
MPa	1.5 (≈220 psi, 15 bar)	
atures °C	5 (41°F) to 60 (140°F)	
μm	5	
MPa	0.05 (≈7.3 psi, 0.5 bar) to 0.7 (≈100 psi, 7 bar) (*1)	
	With relief mechanism	
cm <sup>3</sup>	1.0	
	Manual	
/OUT	Push-in fitting: φ4/φ6	
AUGE	Rc1/8	
g	100	
	MPa atures °C  µm  MPa  cm³  /OUT  AUGE	

<sup>\*1:</sup> Low pressure specifications are 0.05 MPa to 0.35 MPa.

### How to order



Code	Content			
A Connection				
Direction				
s	Straight	IN		
L	Elbow			
s	Straight			
L	Elbow			
Bore size				
C4	φ4			
C6	φ6			
0.04				

### B Option

B Option			
Panel mounting	Blank	Without nut	
*3	Р	With nut	
Pressure	Blank	0.05 to 0.7 MPa (Pressure gauge: G29D-6-P10)	
range	L	0.05 to 0.35 MPa (Pressure gauge: G39D-6-P04)	
Pressure relief	Blank	Relief	
	N	Non-relief	
Pressure	Blank	With pressure gauge	
gauge	T	No pressure gauge (gauge port Rc1/8)	
*2	G39	With pressure gauge (G39D-6-P10)	
Flow direction	Blank	Standard flow (left → right)	
	X1	Reverse flow (right → left)	
Drain plug Blank Polycarbonate		Polycarbonate	

Opaque nylon \*1

Z

material

### ▲ Precautions for model No. selection

- \*1: The same material (nylon) as the body is used, so the plug is not transparent.
- \*2: φ21 0 to 1.0 MPa pressure gauge is standard.
  For low pressure, φ27 0 to 0.4 MPa low pressure gauge is provided.
- \*3: Select option code "P" when mounting on a panel.

### [Example of model No.]

### WB500-SSC4-PG39

A Connection (direction): Both IN and OUT are straight

Port size (Bore size) : φ4

B Option : Panel mount

Pressure gauge : φ27 0 to 0.1 MPa Pressure gauge

### Option weight

\* Add to the weight of the standard accessories.

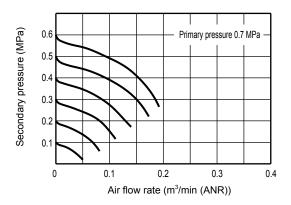
Panel mount	Р	With nut	2 g
Pressure range	L	0.05 to 0.35 MPa	19 g
Pressure gauge	Т	No pressure gauge	-12 g(L:-31 g)
	G39	With pressure gauge	19 g

### WB500 Series

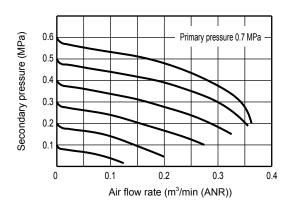
#### Flow characteristics

### Flow characteristics

● WB500-\*\*C4

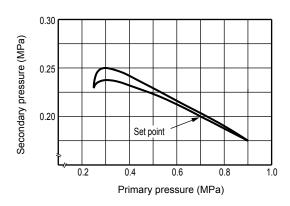


● WB500-\*\*C6



### Pressure characteristics

#### WB500



### ▲ Safety precautions

- Precautions for piping
- Do not use this product in an atmosphere containing organic solvents or chemicals, etc., or where the product could come in contact with them.
- Avoid direct exposure to sunlight.
- Avoid using this product where vibration and impact are present.
- Install so that the drain plug faces straight down.
- Avoid use where there are large amounts of drainage. For use, install an air dryer or drain separator on the IN side.
- Flush the pipes carefully before installation.
- Use a CKD soft nylon tube or urethane tube for the piping tubes.
- Do not insert the piping tube at a slant as it could dislocate.
- Securely insert a tube into the push-in fitting before use.
- Turn the pressure adjustment knob clockwise to increase secondary pressure and counterclockwise to lower pressure.
- Check the primary pressure carefully before setting the pressure.
- Stop the primary pressure and release the residual pressure before starting maintenance.
- Mount the pressure gauge with a tightening torque of 3.5 N·m or less.

F.R.L

F (Filtr)

R (Reg)

L (Lub)

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CompFRL

LgFRL

PrecsR

VacF/R

Clean FR ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/ other

Jnt/tube

AirUnt

PrecsCompn

Mech/ ElecPresSw

ContactSW

AirSens

PresSW Cool

AirFloSens/ Contr

WaterRtSens

TotAirSys (Total Air)

TotAirSys (Gamma)

RefrDry

DesicDry HiPolymDry

MainFiltr Dischrg

etc Ending

## WB500 Series

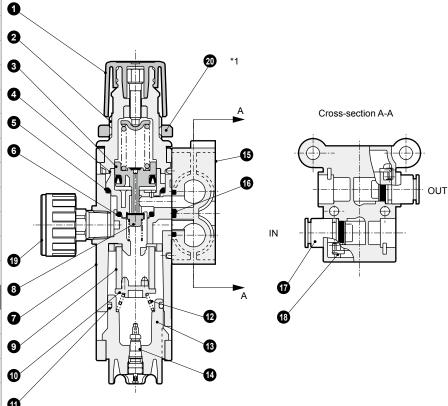
F.R.L F (Filtr)

R (Reg)
L (Lub)
PresSW

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SlowStart FlmResistFR

### 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	Element	Polypropylene
10	Baffle	Polyacetal resin
11	O-ring	Special nitrile rubber
12	Spring	Stainless steel
13	Drain plug	Polycarbonate resin
14	Valve	
15	Piping block assembly	Polyamide resin/steel
16	Body packing seal	Hydrogenated nitrile rubber
17	Cartridge fitting	
18	Lock pin	Stainless steel
19	Pressure gauge	
20	Mounting nut	Polyacetal resin

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

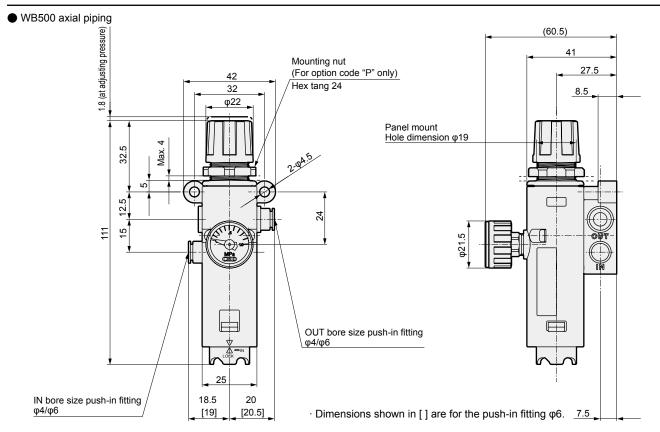
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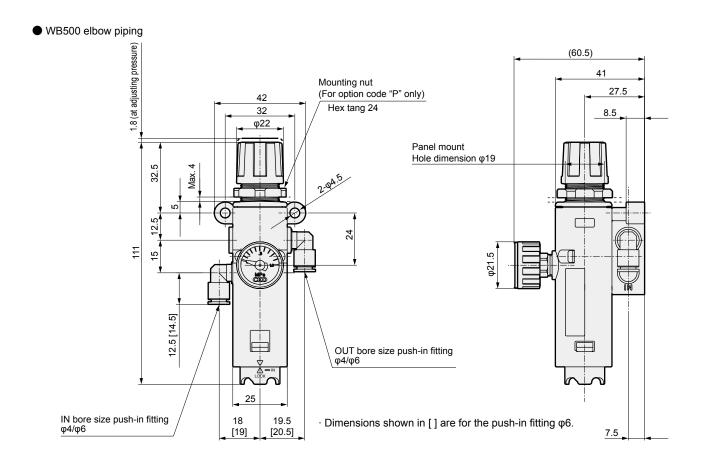
## WB500 Series

#### Dimensions









F.R.L

F (Filtr)

R (Reg)

L (Lub)

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