



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

Filter/Regulator

W1000/W2000/W3000/W4000/W8000-W Series

New series using 5 µm elements for dust removal, and 0.3 µm elements for tar removal.

● Port size: 1/8 to 1

JIS symbol



Specifications

Item	W1000-W	W2000-W	W3000-W	W4000-W	W8000-W
Working fluid	Compressed air				
Max. working pressure MPa	1.0				
Proof pressure MPa	1.5				
Ambient/fluid temperatures °C	5 to 60				
Filtration rating μm	5		5 or 0.3		
Set pressure MPa	0.05 to 0.85	0.05 to 0.85			
Pressure relief	With relief mechanism (W1000, W8000 are non-relief only)				
Drain capacity cm ³	12	25	45	80	80 (Note)
Port size Rc	1/8, 1/4 (3/8 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4uses an adaptor)
Weight kg	0.175	0.40	0.65	1.0	2.0
Standard accessories	Bowl guard				

Note: The max. capacity of the manual drain cock is 170cm³.

Compatibility table by variation

	W1000-W	W2000-W	W3000-W	W4000-W	W8000-W
Port size	Rc1/8, 1/4	Rc1/4, 3/8	Rc1/4, 3/8	Rc1/4, 3/8, 1/2	Rc3/4, 1
P4	●	●	●	●	●
P40		▲	▲	▲	

- : Applicable models
○: Semi-applicable models
▲: Contact CKD for details.
□: Not applicable

- *1: Pressure gauge/pressure sensor must be ordered separately. (Pressure gauge option is "T", "T8", "T6" only)
*2: Auto-drain is not available.
*3: Metal bowl is not available.
*4: R1 option is not available.
*5: For pressure adjustment springs without gas contact and pressure adjustment screw units in P40, zinc plating is used.
*6: R2 option is not available.
*7: For W1000 and W8000, only non-relief (option code: N) is available.
*8: W3000 to W8000 uses zinc die-casting in the diaphragm part.
*9: Y element is not available for P40.

How to order

W 1000 - 6 - W - NT **P4** **P40** **A6W**

A Model No.

B Port size

C Option

D Pipe adaptor setG
(Attachment)

E Attachment
(Included)

* Refer to "Pneumatic, Vacuum and Auxiliary Components" (catalog No. CB-024SA) for options.

		A Model No.				
		W1000	W2000	W3000	W4000	W8000
B Port size						
6	Rc1/8	●				
8	Rc1/4	●	●	●	●	
10	Rc3/8		●	●	●	
15	Rc1/2				●	
20	Rc3/4					●
25	Rc1					●
C Option		*1				
Drain discharge	Blank	Manual drain cock	●	●	●	●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●
	Z	Nylon bowl	●	●	●	●
Element *5	Blank	5 μm	●	●	●	●
	Y	0.3 μm (submicron)		●	●	●
Pressure range	Blank	0.05 to 0.85 MPa	●	●	●	●
	L	0.05 to 0.35 MPa	●	●	●	●
Pressure relief	Blank	With relief mechanism		●	●	●
	N	Non-relief	●	●	●	●
Pressure gauge	T	Pressure gauge port (1/4) is assembled sealed	●	●	●	●
	T8	Pressure gauge port (1/4) is left open	●	●	●	●
	T6	Pressure gauge port (1/8) is left open	●	●	●	●
Flow Direction	Blank	Standard flow (left → right)	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●
D Pipe adaptor set (attachments)		*2, *3				
Blank	Not included	●	●	●	●	●
A6*W	1/8 pipe adaptor set	●				
A8*W	1/4 pipe adaptor set	●	●	●	●	
A10*W	3/8 pipe adaptor set	●	●	●	●	
A15*W	1/2 pipe adaptor set		●	●	●	
A20*W	3/4 pipe adaptor set				●	●
A25*W	1 pipe adaptor set					●
A32*W	1 1/4 pipe adaptor set					●
E Attachment		Page 491				
Blank	Not included	●	●	●	●	●
BW	C-bracket	●	●	●	●	●
B3W	L-bracket	*4	●	●	●	●

⚠ Precautions for model No. selection

- *1: Select options for drainage, bowl material, element, and regulator sections. When selecting options for several items, list options in order from the top.
*2: The pipe adaptor set and C-bracket cannot be used together.
*3: The joiner set is included with the pipe adapter set.
*4: For details on mounting the L-bracket, refer to 2. Regulator of ⚠ Cautions and Installation & Adjustment" described in the "Pneumatic, Vacuum and Auxiliary Components" (catalog No. CB-024SA).
*5: Y element is not available for P40.

P4
Series

Pneumatic actuator
Pneumatic
Cylinders
Hand/
Chuck
Related
products
Cylinder
Switch

Vacuum components
Pneumatic valves

Pneumatic auxiliary components
Clean air
components
Speed
controller
Fitting
Auxiliary
valve
Silencer
Tube

Gas generator
Fluid control components

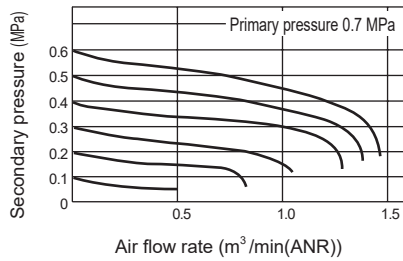
Electric actuator
Motor
specification
Motorless
specifications

Filter/Regulator Series

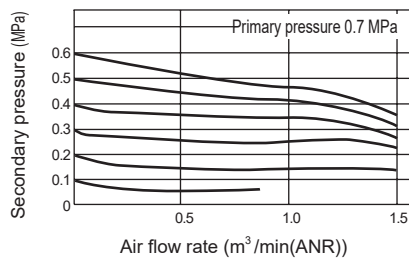
P4
Series

Flow characteristics

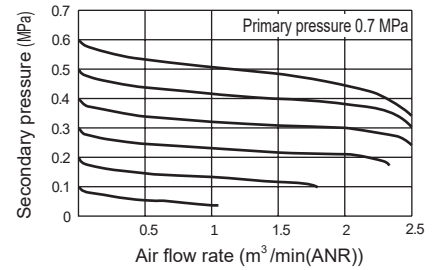
● W1000-6-W



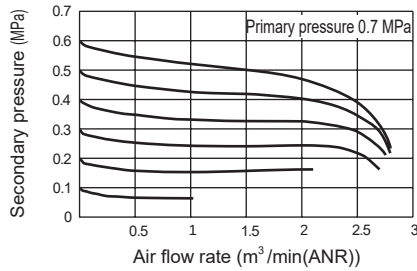
● W1000-8-W



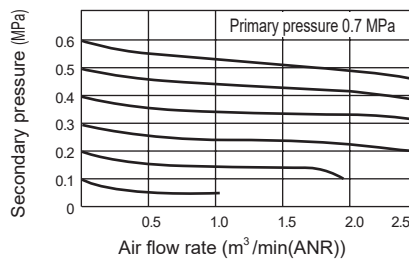
● W2000-8-W



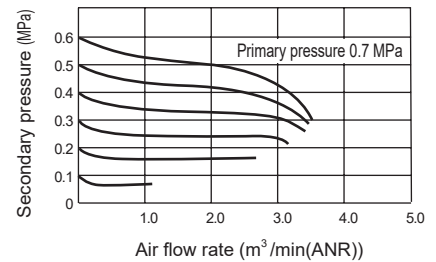
● W2000-10-W



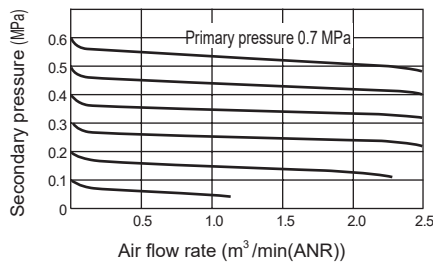
● W3000-8-W



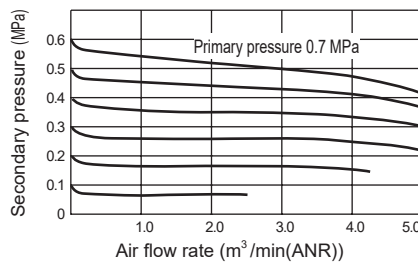
● W3000-10-W



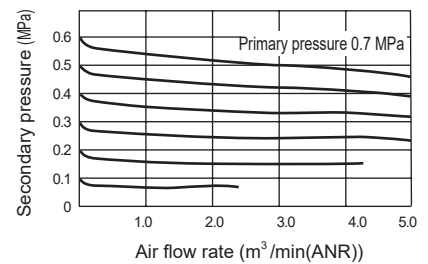
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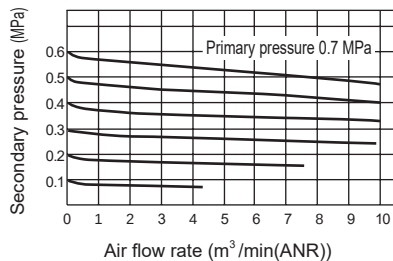
● W4000-10-W



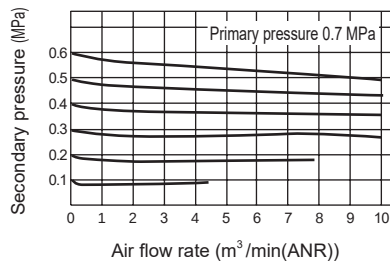
● W4000-15-W



● W8000-20-W

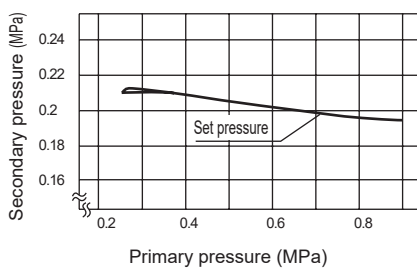


● W8000-25-W

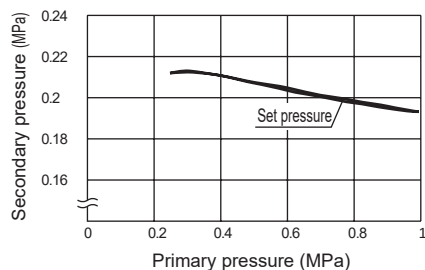


Pressure characteristics

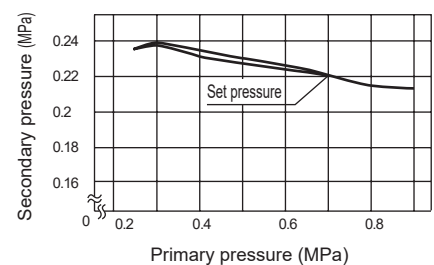
● W1000-W



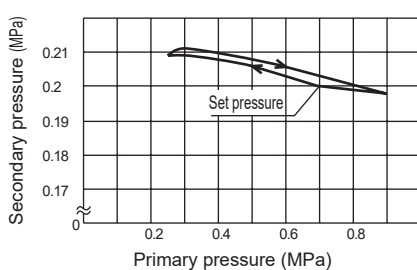
● W2000-W



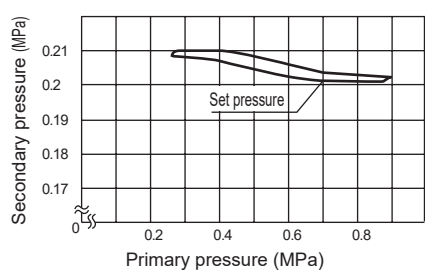
● W3000-W



● W4000-W



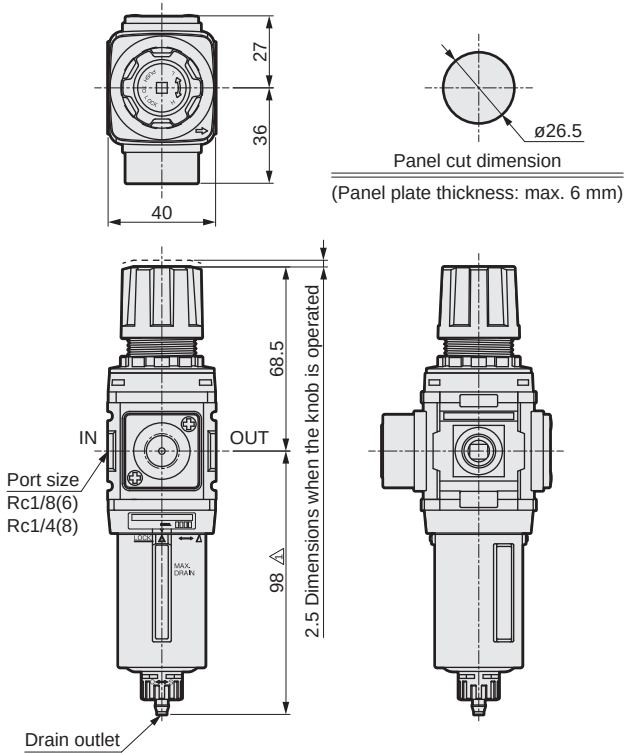
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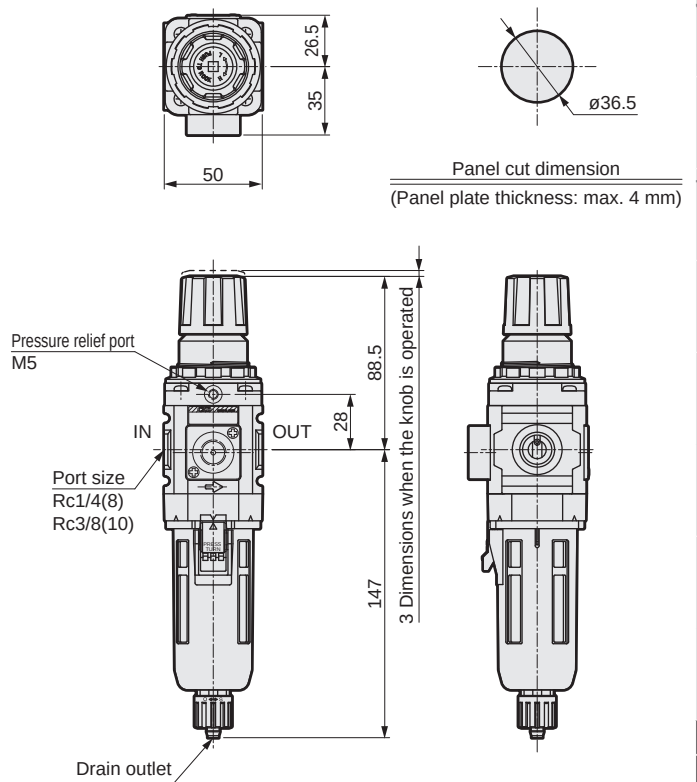
Dimensions



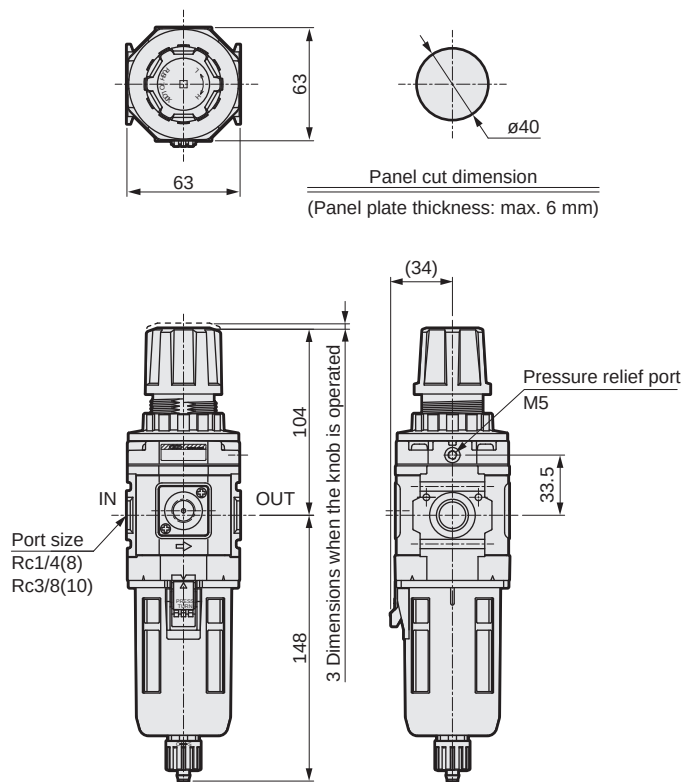
●W1000-*-W-*P4-*



●W2000-*-W-*P4-*



●W3000-*-W-*P4-*



P4
Series

Pneumatic actuator
Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch

Vacuum components

Pneumatic valves

Clean air components

Pneumatic auxiliary components
Speed controller
Fitting
Auxiliary valve
Silencer
Tube

Gas generator

Fluid control components

Electric actuator
Motor specification
Motorless specifications

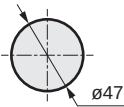
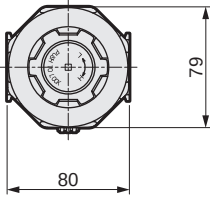
Filter/Regulator Series

P4
Series

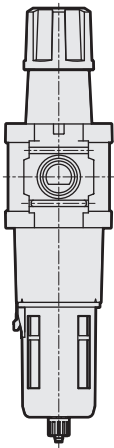
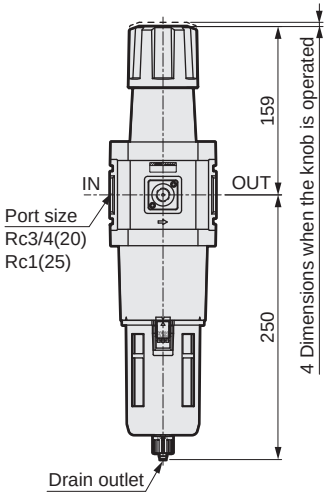
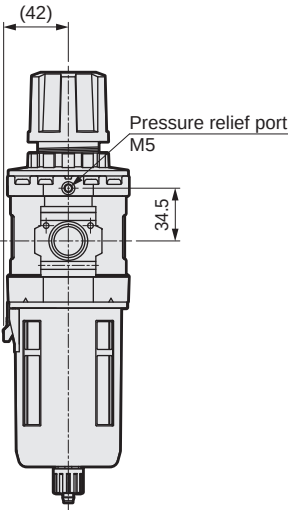
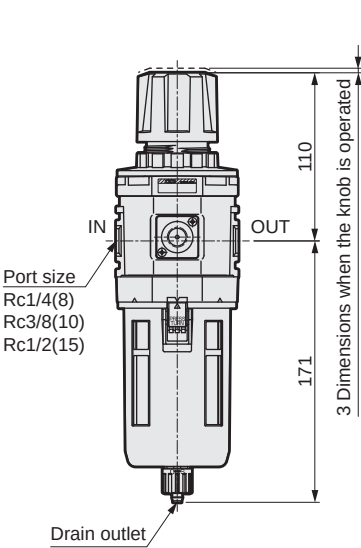
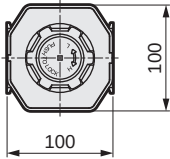
Dimensions 

●W4000-*-W-*P4-*

●W8000-*-W-*P4-*



Panel cut dimension
(Panel plate thickness: max. 4 mm)





Reverse filter/regulator

W1100/W2100/W3100/W4100/W8100-W Series

Introducing the 5 µm dust removing element and 0.3 µm tar removing element with reverse flow function to the lineup.

● Port size: 1/8 to 1

JIS symbol



RoHS

Specifications

Item	W1100-W	W2100-W	W3100-W	W4100-W	W8100-W
Working fluid	Compressed air				
Max. working pressure MPa	1.0				
Proof pressure MPa	1.5				
Ambient/fluid temperatures °C	5 to 60				
Filtration rating μm	5		5 or 0.3		
Set pressure MPa	0.05 to 0.85	0.05 to 0.85			
Pressure relief	With relief mechanism (W1100, W8100 are non-relief only)				
Drain capacity cm³	12	25	45	80	80 (*1)
Port size Rc	1/8, 1/4 (3/8 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4uses an adaptor)
Weight kg	0.175	0.40	0.65	1.0	2.0
Standard accessories	Pressure gauge and bowl guard				

*1: Up to 170cm³ is stored with the manual drain cock only.

*2: Check that the primary pressure is at least 0.05 MPa more than the secondary pressure.

*3: Refer to the set pressure range for the back pressure given on page 485 when selecting the model.

P4
Series

Pneumatic actuator
Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch

Vacuum components

Pneumatic valves

Pneumatic auxiliary components
Clean air components
Speed controller
Fitting
Auxiliary valve
Silencer
Tube

Gas generator
Fluid control components

Electric actuator
Motor specification
Motorless specifications

Filter / Regulator Series

P4
Series

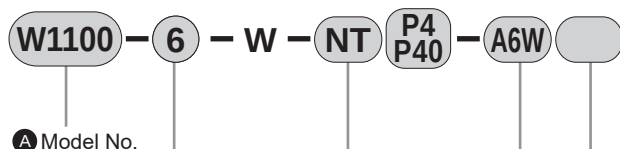
Compatibility table by variation

	W1100-W	W2100-W	W3100-W	W4100-W	W8100-W
Port size	Rc1/8, 1/4	Rc1/4, 3/8	Rc1/4, 3/8	Rc1/4, 3/8, 1/2	Rc3/4, 1
P4	●	●	●	●	●
P40		▲	▲	▲	

- : Applicable models
- : Semi-applicable models
- ▲: Contact CKD for details.
- : Not applicable

- *1: Pressure gauge/pressure sensor must be ordered separately. (Pressure gauge option is "T", "T8", "T6" only)
 *2: Auto-drain is not available.
 *3: Metal bowl is not available.
 *4: R1 option is not available.
 *5: For pressure adjustment springs without gas contact and pressure adjustment screw units in P40, zinc plating is used.
 *6: R2 option is not available.
 *7: For W1100 and W8100, only non-relief (option code: N) is available.
 *8: W3100 to W8100 uses zinc die-casting in the diaphragm part.
 *9: Y element is not available for P40.

How to order



A Model No.

B Port size

C Option

D Pipe adaptor set (included)

E Attachment (Attachment)

* Refer to "Pneumatic, Vacuum and Auxiliary Components" (catalog No. CB-024SA) for options.

A Model No.	W1100	W2100	W3100	W4100	W8100
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Code	Description	W1100	W2100	W3100	W4100	W8100
B Port size						
6	Rc1/8	●				
8	Rc1/4	●	●	●	●	
10	Rc3/8		●	●	●	
15	Rc1/2				●	
20	Rc3/4					●
25	Rc1					●

C Option	*1, *2
Drain discharge	Blank Manual drain cock
Bowl material	Blank Polycarbonate bowl
	Z Nylon bowl
Element	Blank 5 μm
	Y 0.3 (submicron) *6
Pressure	Blank 0.05 to 0.85 MPa
Range	L 0.05 to 0.35 MPa
Pressure	Blank With relief mechanism
relief	N Non-relief
Pressure	T Pressure gauge port (1/4) is assembled sealed
gauge	T8 Pressure gauge port (1/4) is left open
	T6 Pressure gauge port (1/8) is left open
Flow	Blank Standard flow (left → right)
direction	X1 Reverse flow (right → left)

D Pipe adaptor set (attachments)	*3, *4
Blank	Not included
A6*W	1/8 pipe adaptor set
A8*W	1/4 pipe adaptor set
A10*W	3/8 pipe adaptor set
A15*W	1/2 pipe adaptor set
A20*W	3/4 pipe adaptor set
A25*W	1 pipe adaptor set
A32*W	1 1/4 pipe adaptor set

E Attachment	Page 491
Blank	Not included
BW	C-bracket
B3W	L-bracket *5

⚠ Precautions for model No. selection

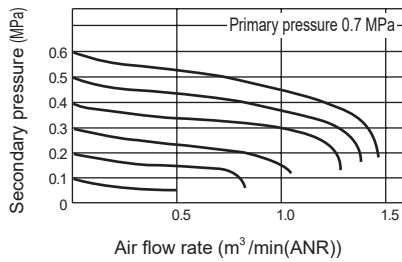
- *1: Select options for drainage, bowl material, element, and regulator sections. When selecting options for several items, list options in order from the top.
 *2: **Positions of check valve and pressure gauge cannot be changed. If the IN and OUT directions must be reversed, indicate "X1" at the end of the option field.**
 *3: The pipe adaptor set and C-bracket cannot be used together.
 *4: The joiner set is included with the pipe adapter set.
 *5: For mounting the L-bracket, refer to "Pneumatic, Vacuum and Auxiliary Components" (Catalog No. CB-024SA) Refer to Section (2. Regulator) of "⚠ CAUTION for Installation and Adjustment".
 *6: Y element is not available for P40.

Flow characteristics

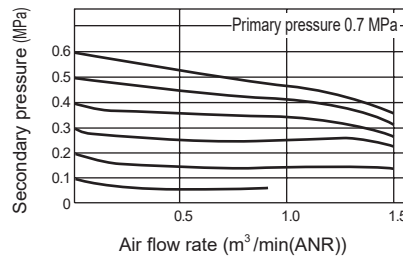


P4
Series

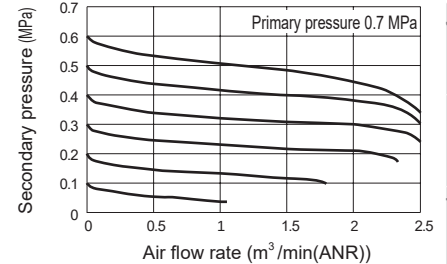
● W1100-6-W



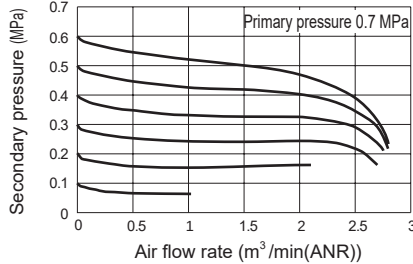
● W1100-8-W



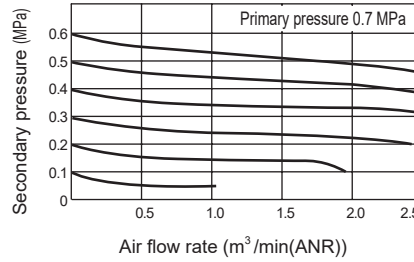
● W2100-8-W



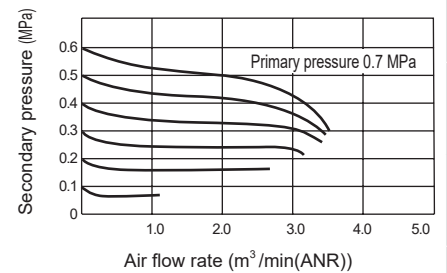
● W2100-10-W



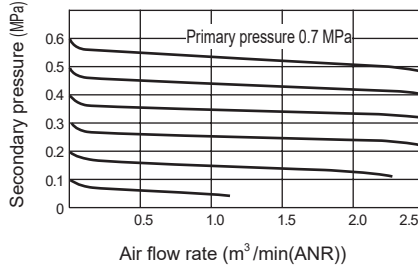
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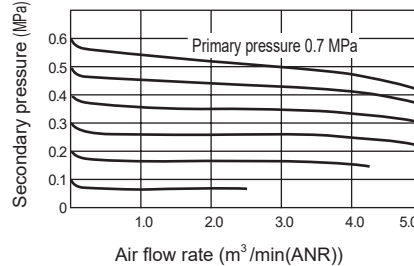
● W3100-10-W



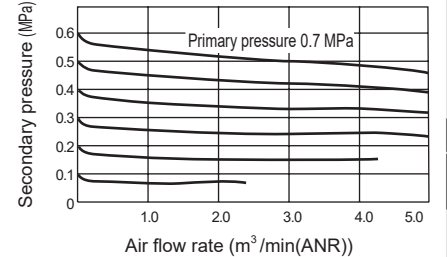
● W4100-8-W



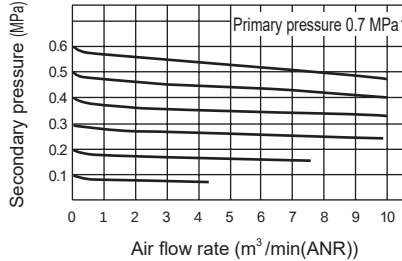
● W4100-10-W



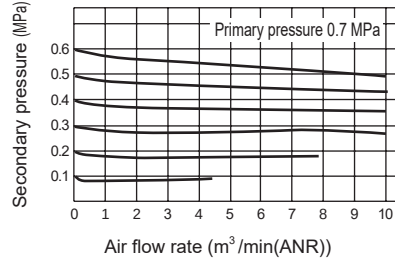
● W4100-15-W



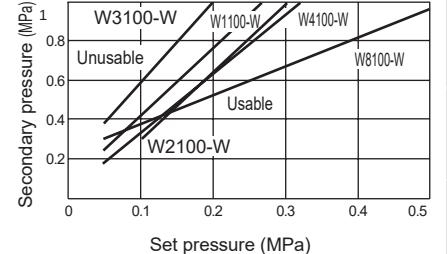
● W8100-20-W



● W8100-25-W



● Set pressure range to back pressure

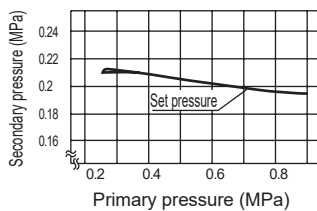


Note: The area above the graph line shows the unusable range and that below the graph line shows the usable range.

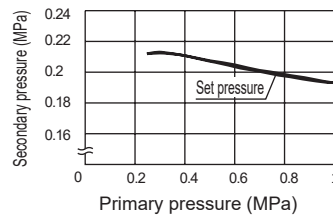
Example: If the set pressure of W4100-W is set to 0.2MPa and the secondary back pressure is set to 0.6MPa or more, the secondary side pressure will not be released to the primary side.

Pressure characteristics

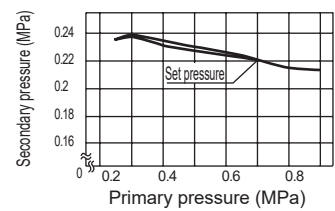
● W1100-W



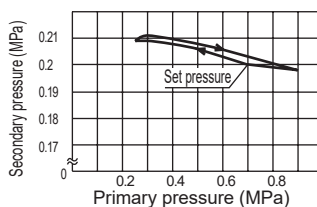
● W2100-W



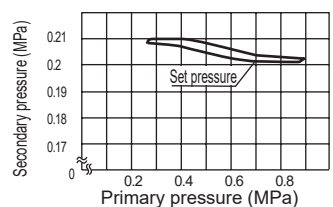
● W3100-W



● W4100-W



● W8100-W



Filter/Regulator Series

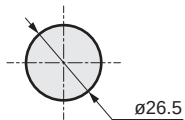
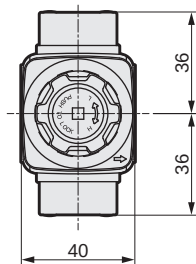
P4
Series

Dimensions

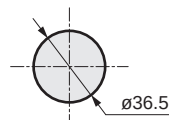
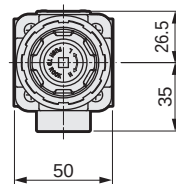


●W1100-*-W-*P4-*

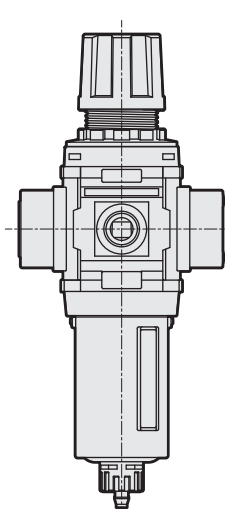
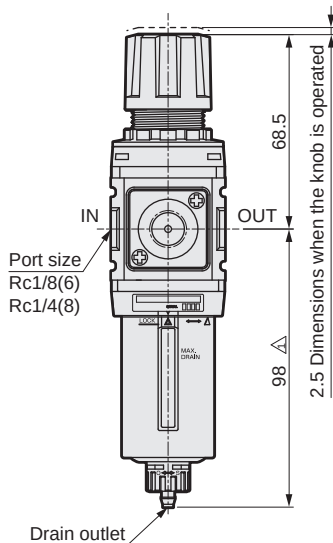
●W2100-*-W-*P4-*



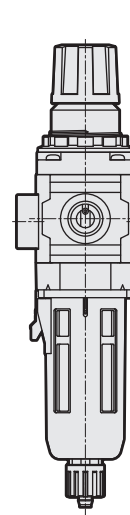
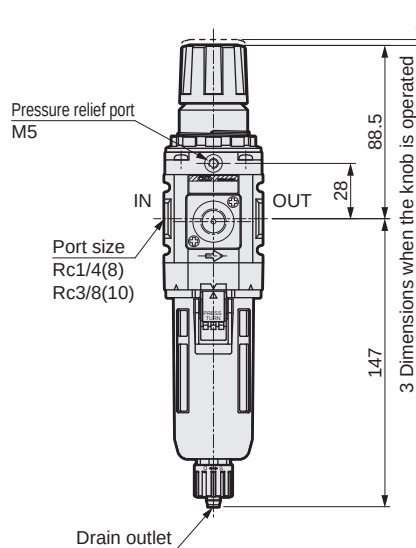
Panel cut dimension
(Panel plate thickness: max. 6 mm)



Panel cut dimension
(Panel plate thickness: max. 4 mm)

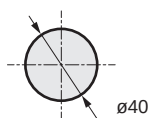
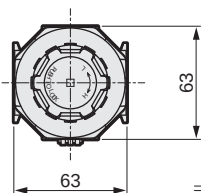


2.5 Dimensions when the knob is operated

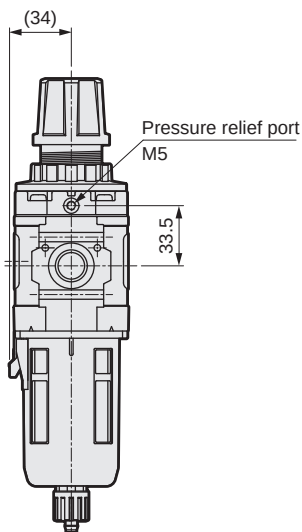
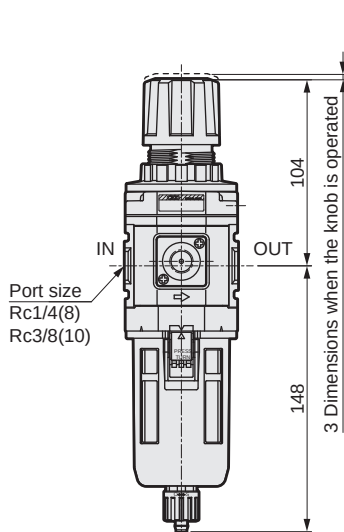


3 Dimensions when the knob is operated

●W3100-*-W-*P4-*



Panel cut dimension
(Panel plate thickness: max. 6 mm)



3 Dimensions when the knob is operated

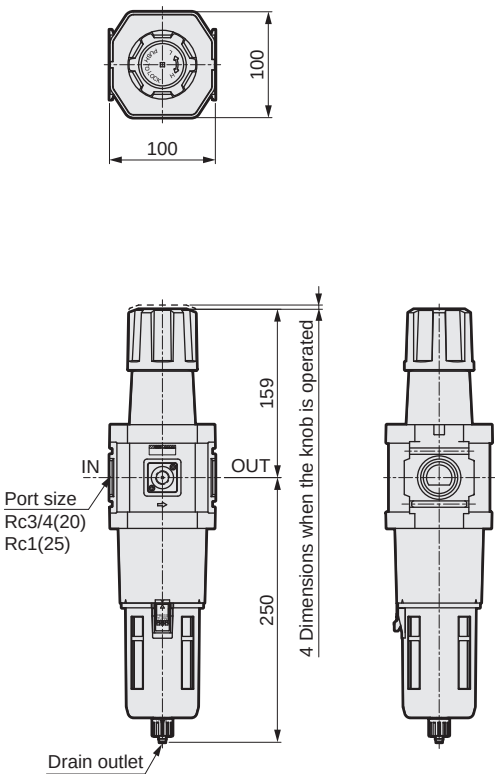
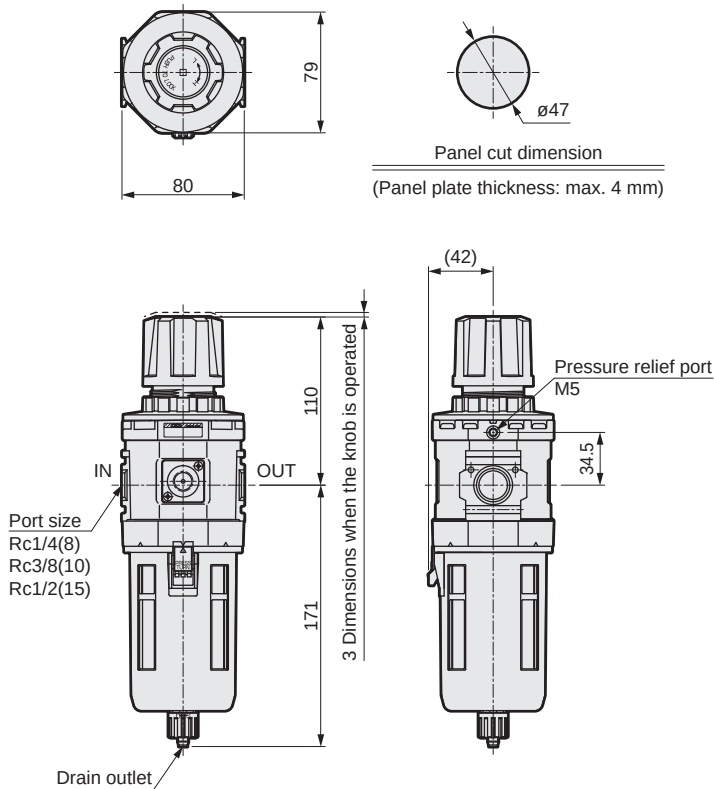
Dimensions



●W4100-*-W-*P4-*

●W8100-*-W-*P4-*

P4
Series



Pneumatic actuator
Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch

Vacuum components

Pneumatic valves

Pneumatic auxiliary components
Clean air components
Speed controller
Fitting
Auxiliary valve
Silencer
Tube

Gas generator

Fluid control components

Electric actuator
Motor specification
Motorless specifications