

## Filter/regulator Outdoor-use series



### FILTER REGULATOR FOR OUTDOOR USE

First in the  
industry

# Ready for outdoor use too!

**W** WEATHER PROOF

Improved outdoor durability due to the exterior entirely made of metal and passed the accelerated corrosion resistance test for equivalent to seven years to assure sufficient durability\*

Warranty of up to three years provides long-term reliability

\* Combined cycle tests (Salt dry and wet)



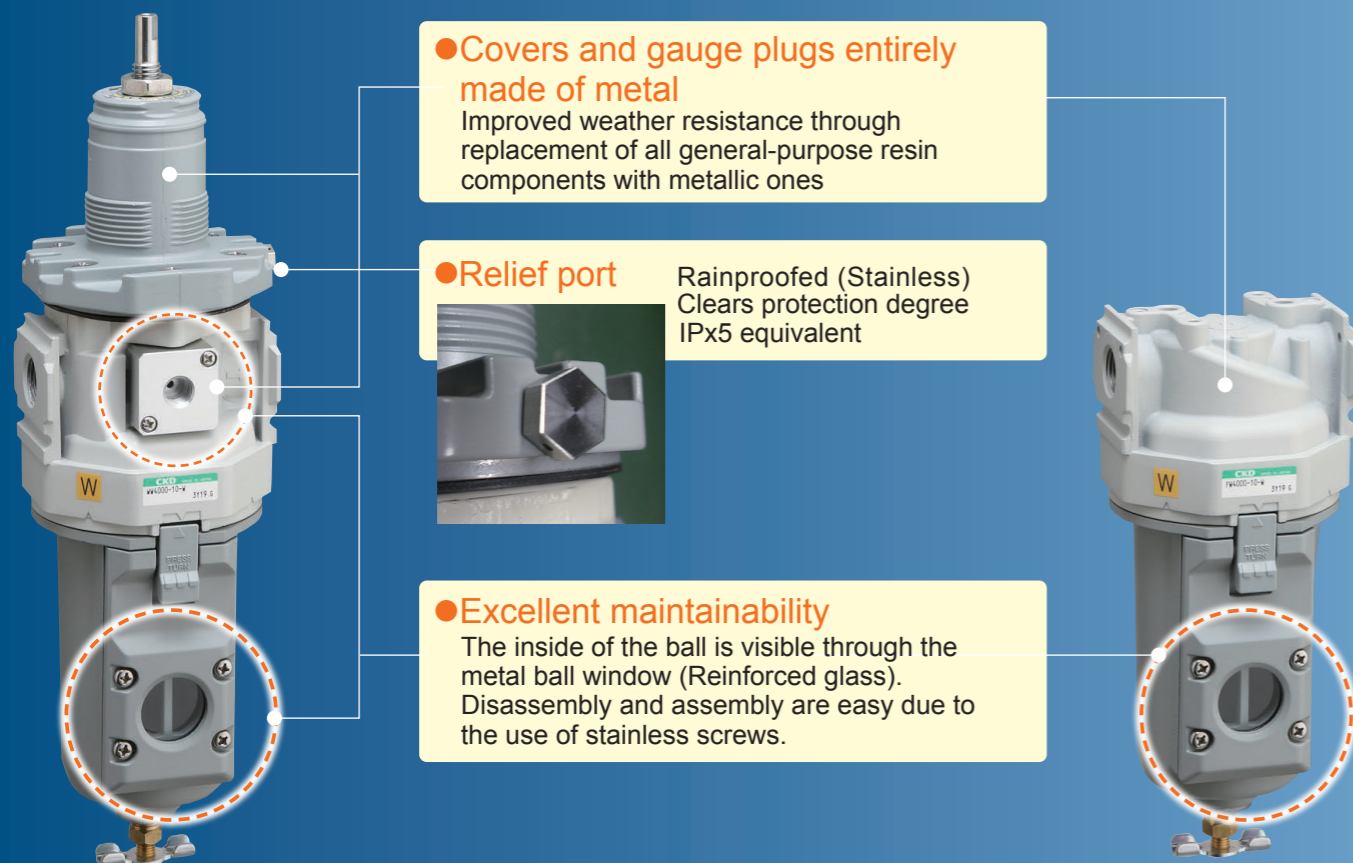
First in the industry

## Outdoor use available too:

Most suitable for outdoor-use!

Added the series assured for outdoor use to the CKD FR series, which have been favored for their long lives and low pressure loss  
Assured long-period use under outdoor severe environments

Improved outdoor durability due to exteriors entirely made of metal and use of stainless screws

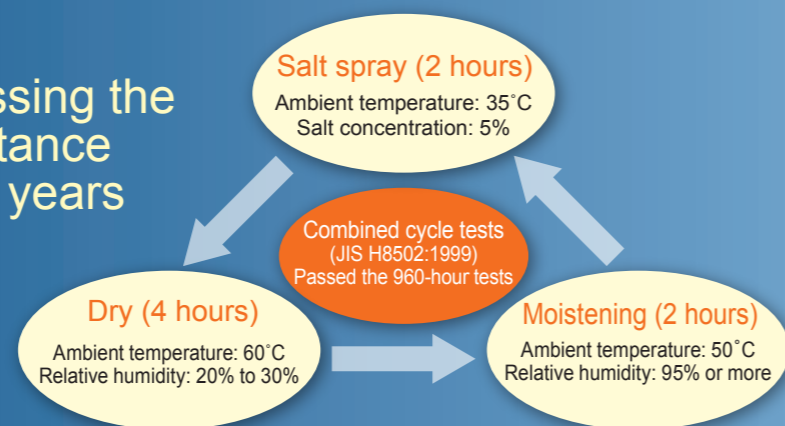


Durability is assured by passing the accelerated corrosion resistance test for equivalent to seven years

960-hour combined cycle tests (JIS H8502:199) and 400-hour ozone exposure tests (JIS D0205:1987) have been passed, assuring sufficient durability for outdoor use.

Warranty of up to three years  
Provision of long-term reliability  
(Option)

Warranty period of three years post-delivery, for plant and overseas use, or short period of one year post-use start.  
(Inspection result tables, inspection instruction procedures, drawings, specifications, traceability system diagrams accompanied)

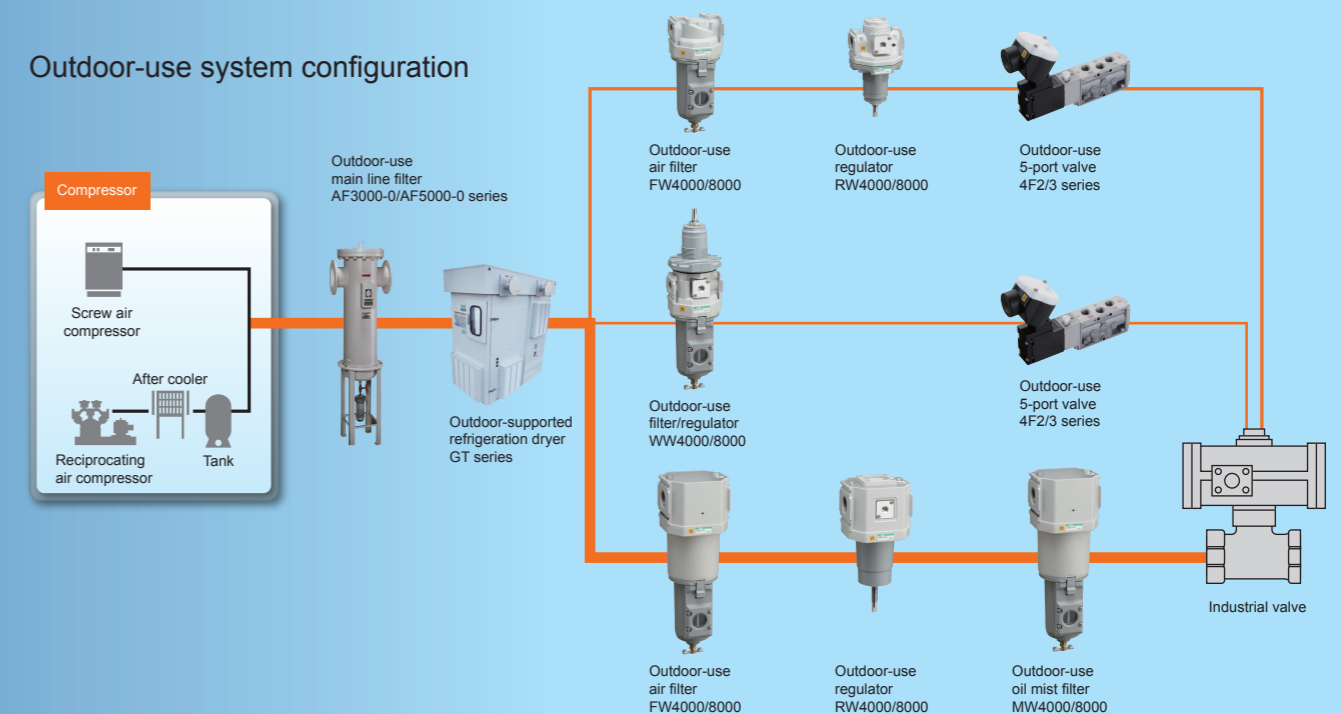


\* Agreement regarding specification documents is needed.

## New, reliable FR Series!

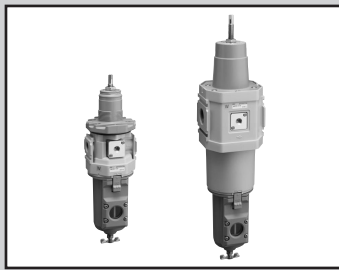
**W WEATHER PROOF** is used for assurance of CKD product for outdoor-use.

Outdoor-use system configuration



Filter/regulator outdoor-use series framework

Series name/appearance	Bore size (Rc/NPT/G)					Maximum flow rate (m <sup>3</sup> /min. (Reference)					Page
	1/4	3/8	1/2	3/4	1	1/4	3/8	1/2	3/4	1	
4000 series	Filter/regulator <b>WW4000</b>					2.5	4.35	4.75			1
	Air filter <b>FW4000</b>					1.32	2.14	3.0			3
	Oil mist filter <b>MW4000</b>					0.825					5
	Regulator <b>RW4000</b>					2.5	4.4	5.0			7
8000 series	Filter/regulator <b>WW8000</b>									10	1
	Air filter <b>FW8000</b>								6.4	6.8	3
	Oil mist filter <b>MW8000</b>								2.6		5
	Regulator <b>RW8000</b>								14.0	11.0	7



Filter/regulator outdoor-use series

# WW4000/WW8000-W Series

Release of outdoor-use products as a series

● Port size: 1/4 to 1

JIS symbol



RoHS

## Specifications

Item	WW4000-W	WW8000-W
Working fluid	Compressed air	
Max. working pressure MPa	1.0 Notes 1, 2	
Proof pressure MPa	1.5	
Fluid temperature °C	5 to 60	
Ambient temperature °C	-10 to 60 (no freezing)	
Filtration rating μm	5 or 0.3	
Set pressure MPa	0.05 to 0.85	
Relief	With relief mechanism	
Drain capacity cm <sup>3</sup>	80	80 (Note 3)
Port size Rc, NPT, G	1/4, 3/8, 1/2	3/4, 1
Weight kg	1.1	2.3

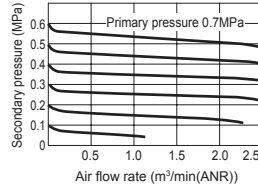
Note 1: The automatic drain's minimum operating pressure for "F" with an automatic drain is 0.1 MPa. Initially generated drainage and air are purged until pressure reaches 0.1 MPa.

Note 2: The automatic drain's minimum operating pressure for "F1" with an automatic drain is 0.15 MPa.

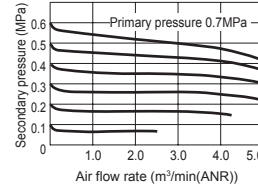
Note 3: The drainage accumulates up to 170 cm<sup>3</sup> only with the manual petcock.

## Flow characteristics

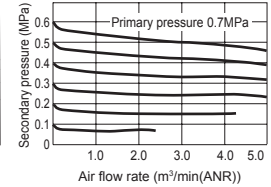
### ● WW4000-8-W



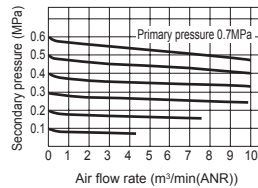
### ● WW4000-10-W



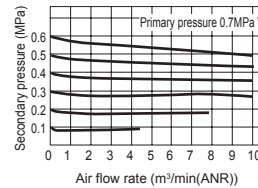
### ● WW4000-15-W



### ● WW8000-20-W

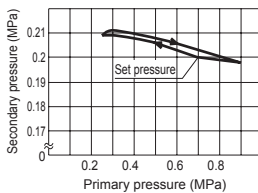


### ● WW8000-25-W

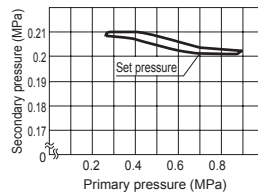


## Pressure characteristics

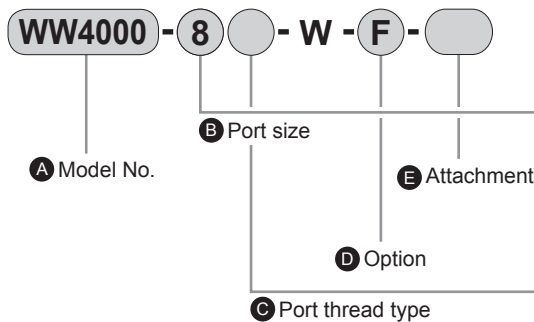
### ● WW4000-W



### ● WW8000-W



## How to order



## ⚠ Note on model No. selection

Note 1: G and NPT threads are available for IN, OUT, gauge ports, and auto drain port.

Note 2: NPT and G threads available for overseas market.

For use in Japan, select the Rc thread.

(For Japanese market, the pressure unit and the temperature indication unit must be MPa and °C respectively due to the measurement law.)

Note 3: Select the options from drainage, element, knob, warranty period, and flow direction.

When selecting options for several items, list options in order from the top.

Note 4: Options are not selectable for a pressure meter.

(If you have any request, consult our sales representative.)

Note 5: Refer to "Pneumatic, Vacuum and Auxiliary Components (catalog No. CB-024SA)" for working conditions of the automatic drain.

Note 6: Refer to page 3 for max. flow rate of option "Y".

Note 7: The warranty period of option G is three years after delivery or one year after start using: shorter one between the two.

Note 8: For option G, agreement regarding specification documents are needed.

### Model No.

W	W
4	8
0	0
0	0
0	0

Symbol	Description	0	0	
B Port size				
8	1/4	●		
10	3/8	●		
15	1/2	●		
20	3/4		●	
25	1		●	
C Port thread type				
Note 1, Note 2				
Blank	Rc screw (Pressure unit: MPa/ temperature indication unit: °C)	●	●	
N	NPT screw (Pressure unit: psi/ temperature indication unit: °F)	●	●	
G	G screw (Pressure unit: bar/ temperature indication unit: °C)	●	●	
D Option				
Note 3, Note 4				
Drainage Note 5	Blank	With manual petcock	●	●
	F	Automatic drain with manual override (NO type: exhausts without pressurization)	●	●
	F1	Automatic drain with manual override (NC type: no exhaust without pressurization)	●	●
Element	Blank	5 μm	●	●
	Y	0.3 μm (submicron)	Note 6	●
Knob	Blank	Without a knob	●	●
	K	With a knob	●	●
Warranty period	Blank	1 year after delivery	●	●
	G	3 years after delivery	Note 7, Note 8	●
Flow Direction	Blank	Standard flow (left to right)	●	●
	X1	Reverse flow (right to left)	●	●
E Attachment				
Blank		Not attached	●	●
BW		C type bracket	●	●

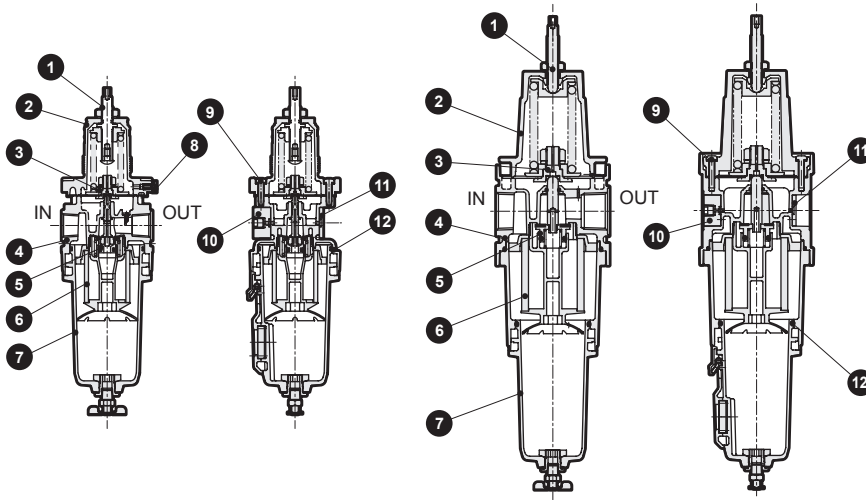
# Filter/Regulator series

Internal structure/ external dimensions

## Internal structure and parts list

● WW4000-W

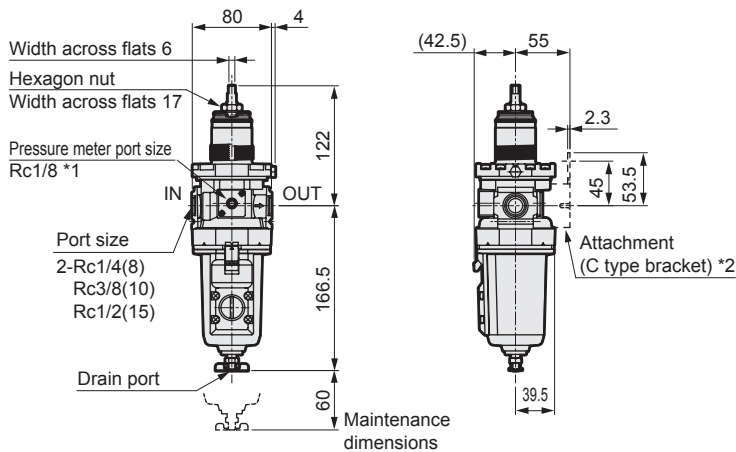
● WW8000-W



No.	Part name	Material
1	Adjusting screw assembly	Stainless steel (Nitrile rubber, polyacetal resin: WW4000 only)
2	Cover	Aluminum alloy die-casting
3	Diaphragm assembly	Stainless steel, nitrile rubber, aluminum
4	Body	Aluminum alloy die-casting
5	Valve assembly	Brass, hydrogenated nitrile rubber (polyacetal resin: WW4000 only)
6	Element	Polypropylene
7	Metal bowl assembly	Aluminum alloy die-casting, brass, zinc, nitrile rubber
8	Adapter	Stainless steel
9	Screw	Stainless steel
10	Gauge plug assembly	Aluminum, nitrile rubber, stainless steel
11	Seal plug assembly	Aluminum, nitrile rubber, stainless steel
12	O ring	Special nitrile rubber

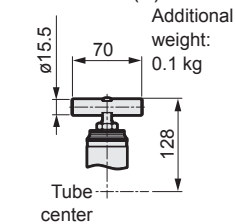
## Dimensions

● WW4000-W

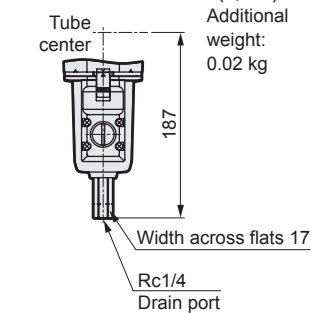


• Option dimensions

With a knob (K)



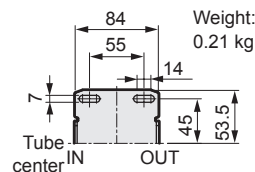
With automatic drain (F, F1)



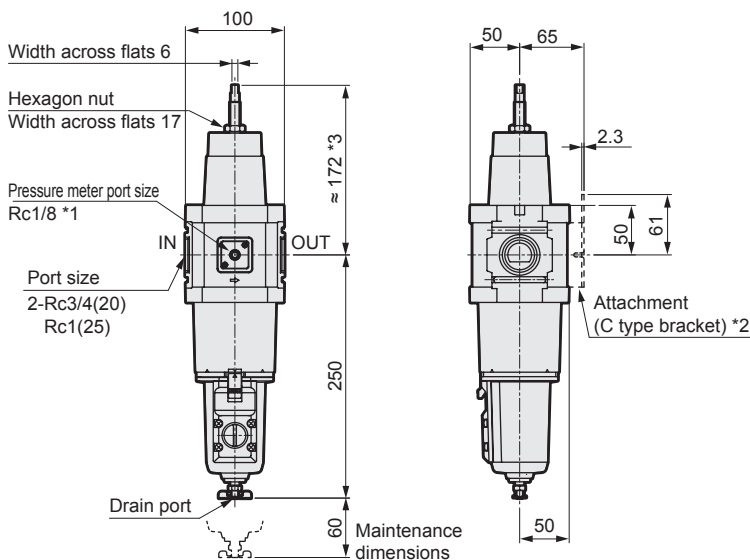
• Attachment

C type bracket (-BW)

Part No.: B420

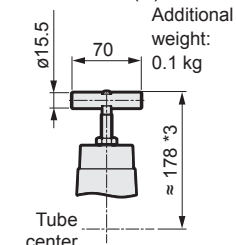


● WW8000-W

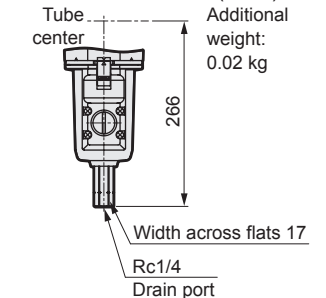


• Option dimensions

With a knob (K)



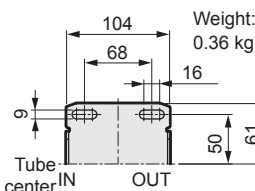
With automatic drain (F, F1)



• Attachment

C type bracket (-BW)

Part No.: B820



\*1 The pressure meter port is kept open at the time of delivery. To seal the port, use the supplied pipe plug.

\*2 The bracket is an option.

\*3 Dimensions when the set pressure is 0 MPa



Air filter: Outdoor-use series

# FW4000/FW8000-W Series

Release of outdoor-use products as a series

● Port size: 1/4 to 1

JIS symbol

RoHS

## Specifications

Item	FW4000-W	FW8000-W
Working fluid	Compressed air	
Max. working pressure MPa	1.0 Notes 1, 2	
Proof pressure MPa	1.5	
Fluid temperature °C	5 to 60 (no freezing)	
Ambient temperature °C	-10 to 60	
Filtration rating μm	5 or 0.3	
Drain capacity cm <sup>3</sup>	80	80 (Note 3)
Port size Rc, NPT, G	1/4, 3/8, 1/2	3/4, 1
Weight kg	0.55	1.26

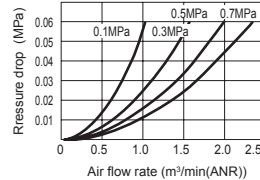
Note 1: The automatic drain's minimum operating pressure for "F" with an automatic drain is 0.1 MPa. Initially generated drainage and air are purged until pressure reaches 0.1 MPa.

Note 2: The automatic drain's minimum operating pressure for "F1" with an automatic drain is 0.15 MPa.

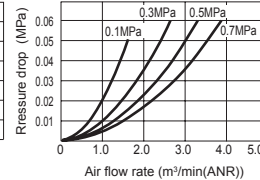
Note 3: The drainage accumulates up to 170 cm<sup>3</sup> only with the manual petcock.

## Flow characteristics

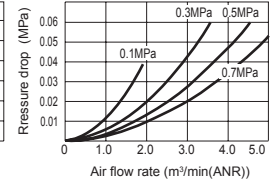
● FW4000-8-W



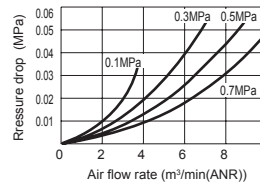
● FW4000-10-W



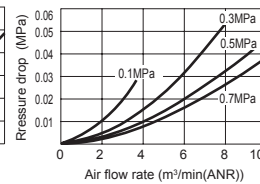
● FW4000-15-W



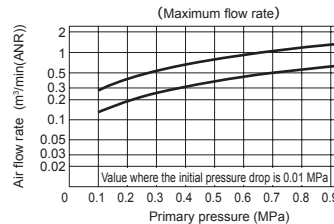
● FW8000-20-W



● FW8000-25-W

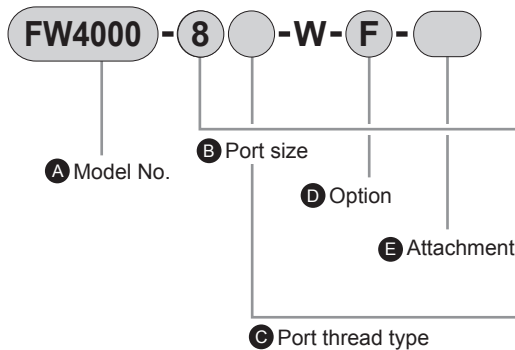


● FW4000/FW8000-\*-W-Y (0.3 μm element)



Consult our sales representative for a large capacity type, FW8000-\*-W-Y.

## How to order



## Note on model No. selection

Note 1: G and NPT threads are available for IN, OUT, and auto drain port.  
Note 2: NPT and G threads available for overseas market.

For use in Japan, select the Rc thread.

(For Japanese market, the pressure unit and the temperature indication unit must be MPa and °C respectively due to the measurement law.)

Note 3: Select the option from drainage, element, warranty period, and flow direction.

When selecting options for several items, list options in order from the top.

Note 4: Refer to "Pneumatic, Vacuum and Auxiliary Components (catalog No. CB-024SA)" for working conditions of the automatic drain.

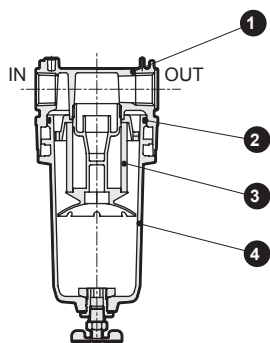
Note 5: The warranty period of option G is three years after delivery or one year after start using: shorter one between the two.

Note 6: For option G, agreement regarding specification documents are needed.

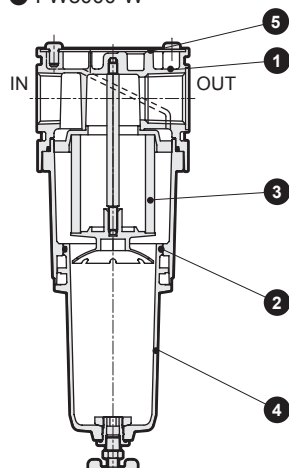
		A Model No.		
		FW 4 0 0 0	FW 8 0 0 0	
Symbol	Description			
B Port size				
8	1/4	●		
10	3/8	●		
15	1/2	●		
20	3/4		●	
25	1		●	
C Port thread type				
		Note 1, Note 2		
Blank	Rc screw (Pressure unit: MPa/ temperature indication unit: °C)	●	●	
N	NPT screw (Pressure unit: psi/ temperature indication unit: °F)	●	●	
G	G screw (Pressure unit: bar/ temperature indication unit: °C)	●	●	
D Option				
		Note 3		
Drainage Note 4	Blank	With manual petcock	●	●
	F	Automatic drain with manual override (NO type: exhausts without pressurization)	●	●
	F1	Automatic drain with manual override (NC type: no exhaust without pressurization)	●	●
Element	Blank	5 μm	●	●
	Y	0.3 μm (submicron)	●	●
Warranty period	Blank	1 year after delivery	●	●
	G	3 years after delivery (Inspection result tables, inspection instruction procedures, drawings, specifications, traceability system diagrams accompanied)	●	●
Flow direction	Blank	Standard flow (left to right)	●	●
	X1	Reverse flow (right to left)	●	●
E Attachment				
Blank		Not attached	●	●
BW		C type bracket	●	●

## Internal structure and parts list

### ● FW4000-W



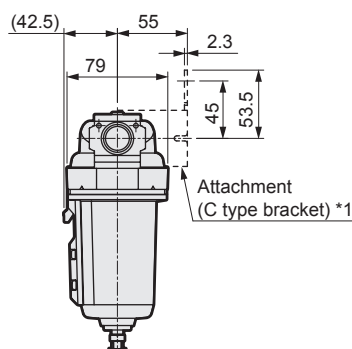
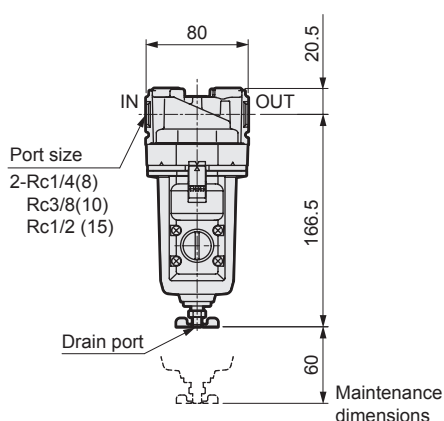
### ● FW8000-W



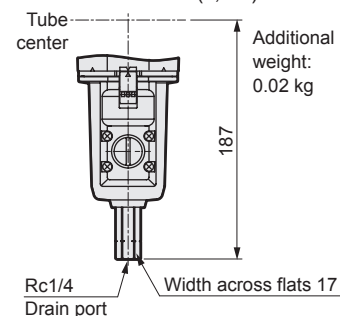
No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	O ring	Special nitrile rubber
3	Element	Polypropylene
4	Metal bowl assembly	Aluminum alloy die-casting, brass, zinc, nitrile rubber
5	Plate cover	Aluminum

## Dimensions

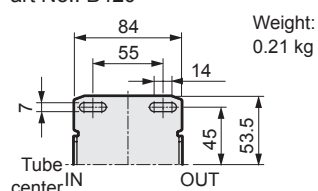
### ● FW4000-W



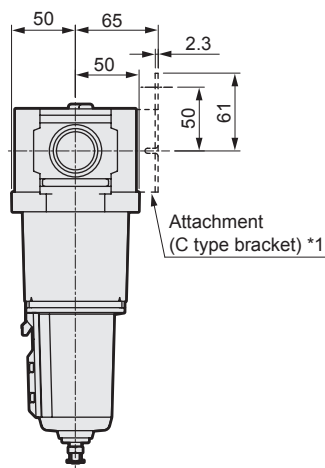
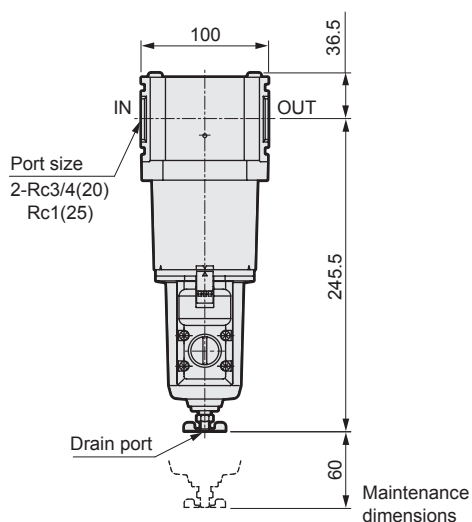
### • Option dimensions With automatic drain (F, F1)



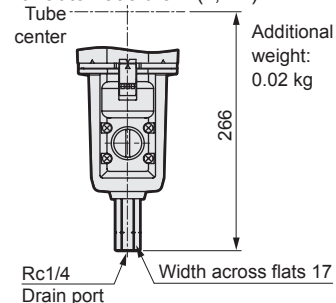
### • Attachment C type bracket (-BW) Part No.: B420



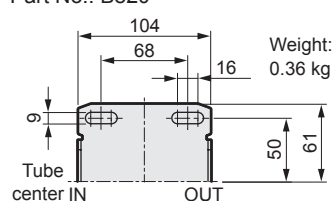
### ● FW8000-W



### • Option dimensions With automatic drain (F, F1)



### • Attachment C type bracket (-BW) Part No.: B820



\*1 The bracket is an option.



Oil mist filter: Outdoor-use series

# MW4000/MW8000-W Series

Release of outdoor-use products as a series

● Port size: 1/4 to 1

JIS symbol

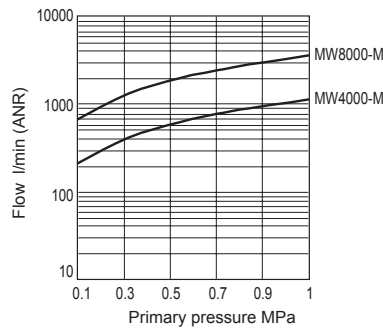
RoHS

## Specifications

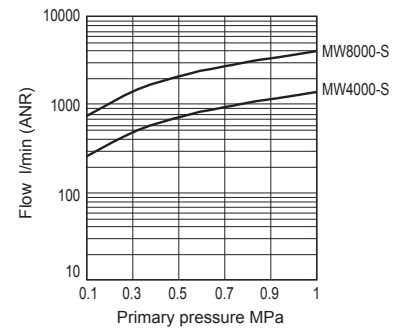
Item	MW4000-W	MW8000-W
Working fluid	Compressed air	
Working pressure MPa	0.1 to 1.0 Note 2	
Proof pressure MPa	1.5	
Drain capacity cm <sup>3</sup>	80	80
Port size Rc,NPT, G	1/4, 3/8, 1/2	3/4, 1
Weight kg	0.62	1.45

## Flow characteristics (Maximum flow rate)

● MW\*000-W-M



● MW\*000-W-S



Mantle option name	Blank (M type)	S (S type)
Maximum flow rate Note 1 l/min. (ANR)	MW4000-□-W 825	MW8000-□-W 1000
At primary pressure: 0.7 MPa	2600	2900
Fluid temperature °C	5 to 60	
Ambient temperature °C	-10 to 60 (no freezing)	
Filtration rating μm	0.01 (Nominal)	0.3
Secondary side oil concentration mg/m <sup>3</sup>	0.01 or less (After oil saturation: 0.1 or less) Note 3, Note 4	0.5 or less Note 3
Mantle (element) replacement	1 year (6000 hours) or pressure drop of 0.1MPa	

Note 1: Use within the maximum processing flow rate.

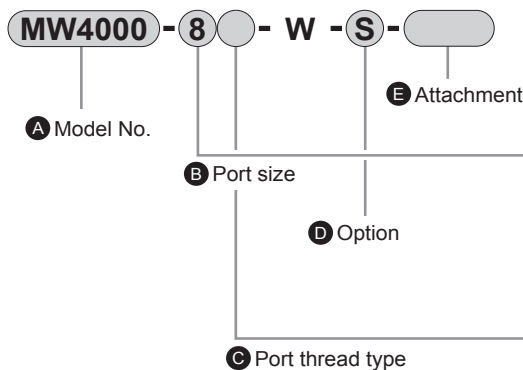
If the maximum processing flow is exceeded temporarily, or if the filter is installed at a place with high levels of pulsation, the mantle could be damaged or oil or drainage, etc., could splatter to the secondary side and result in faults at the terminal.

Note 2: The minimum operating pressure is 0.15 MPa for models with automatic drain "F1".

Note 3: The secondary oil density is the value when the primary oil density is 30 mg/m<sup>3</sup> and inlet air temperature is 21°C.

Note 4: Install an oil mist filter (S type) as a prefilter on the primary side to prevent early clogging.

## How to order



## Note on model No. selection

Note 1: G and NPT threads are available for IN, OUT, and auto drain port.  
Note 2: NPT and G threads available for overseas market.

For use in Japan, select the Rc thread.

(For Japanese market, the pressure unit and the temperature indication unit must be MPa and °C respectively due to the measurement law.)

Note 3: Select the option from drainage, mantle, warranty period, and flow direction.

When selecting options for several items, list options in order from the top.

Note 4: N.O. automatic drain cannot be selected.

Note 5: Refer to "Pneumatic, Vacuum and Auxiliary Components (catalog No. CB-024SA)" for working conditions of the automatic drain.

Note 6: The warranty period of option G is three years after delivery or one year after start using: shorter one between the two.

Note 7: For option G, agreement regarding specification documents are needed.

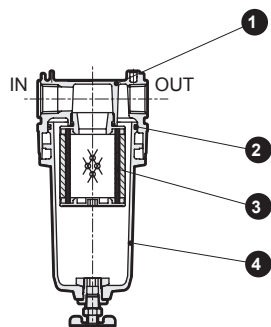
A Model No.			
M	M		
W	W		
4	8		
0	0		
0	0		
0	0		
B Port size			
8	1/4	●	
10	3/8	●	
15	1/2	●	
20	3/4		●
25	1		●
C Port thread type		Note 1, Note 2	
Blank	Rc screw (Pressure unit: MPa/ temperature indication unit: °C)	●	●
N	NPT screw (Pressure unit: psi/ temperature indication unit: °F)	●	●
G	G screw (Pressure unit: bar/ temperature indication unit: °C)	●	●
D Option		Note 3	
Drainage Note 4, Note 5	Blank	With manual petcock	●
	F1	Automatic drain with manual override (NC type: no exhaust without pressurization)	●
Mantle (Element)	Blank	M type (Nominal 0.01 m; remaining oil 0.01 mg/m <sup>3</sup> )	●
	S	S type (0.3 μm; remaining oil 0.5 mg/m <sup>3</sup> )	●
Warranty period	Blank	1 year after delivery	●
	G	3 years after delivery Note 6, Note 7 (Inspection result tables, inspection instruction procedures, drawings, specifications, traceability system diagrams accompanied)	●
Flow direction	Blank	Standard flow (left to right)	●
	X1	Reverse flow (right to left)	●
E Attachment			
Blank	Not attached	●	●
BW	C type bracket	●	●

# Oil Mist Filter series

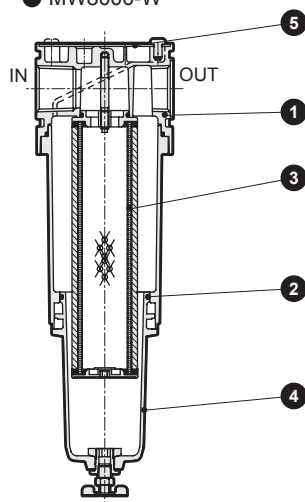
Internal structure/ external dimensions

## Internal structure and parts list

### ● MW4000-W



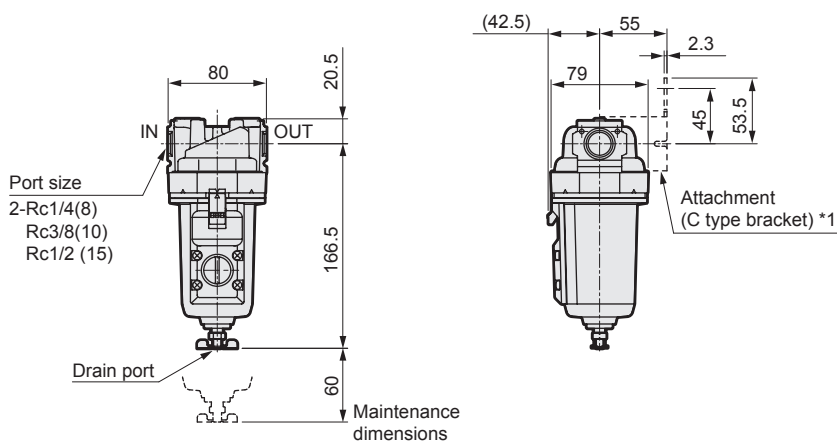
### ● MW8000-W



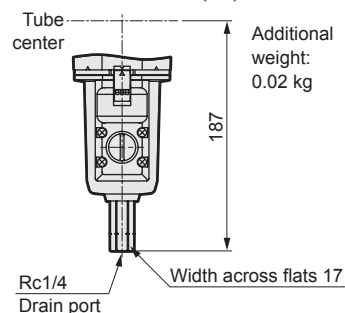
No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	O ring	Special nitrile rubber
3	Mantle assembly	-
4	Metal bowl assembly	Aluminum alloy die-casting, brass, zinc, nitrile rubber
5	Plate cover	Aluminum

## Dimensions

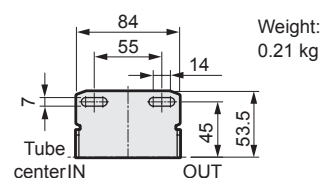
### ● MW4000-W



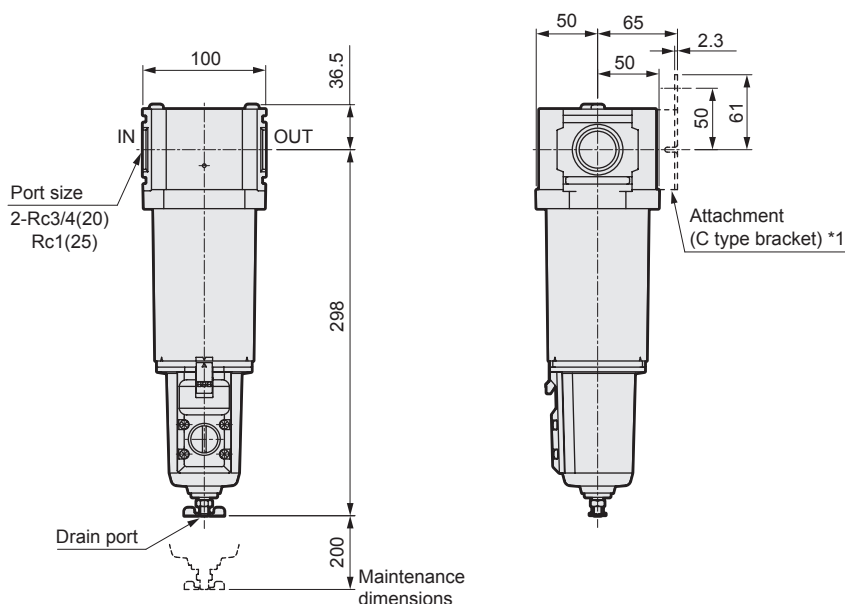
### • Option dimensions With automatic drain (F1)



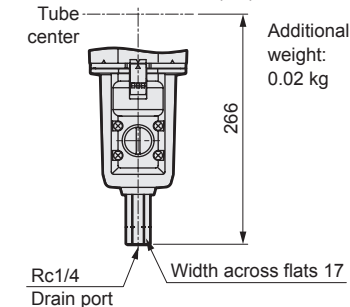
### • Attachment C type bracket (-BW) Part No.: B420



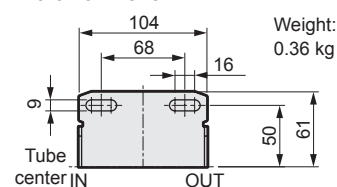
### ● MW8000-W



### • Option dimensions With automatic drain (F1)



### • Attachment C type bracket (-BW) Part No.: B820



\*1 The bracket is an option.



Regulator Outdoor-use series

# RW4000/RW8000-W Series

Release of outdoor-use products as a series

● Port size: 1/4 to 1

JIS symbol



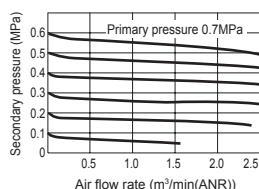
RoHS

## Specifications

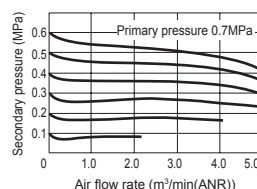
Item	RW4000-W	RW8000-W
Working fluid	Compressed air	
Max. working pressure MPa	1.0	
Proof pressure MPa	1.5	
Fluid temperature °C	5 to 60	
Ambient temperature °C	-10 to 60 (no freezing)	
Set pressure MPa	0.05 to 0.85	
Relief	With relief mechanism	
Port size Rc, NPT, G	1/4, 3/8, 1/2	3/4, 1
Weight kg	0.75	1.65

## Flow characteristics

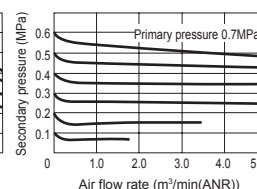
● RW4000-8-W



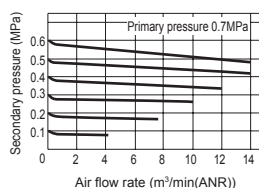
● RW4000-10-W



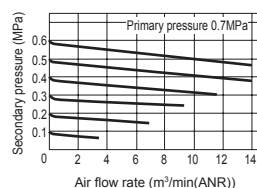
● RW4000-15-W



● RW8000-20-W

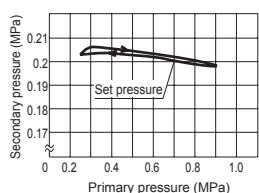


● RW8000-25-W

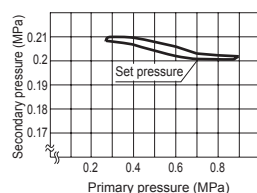


## Pressure characteristics

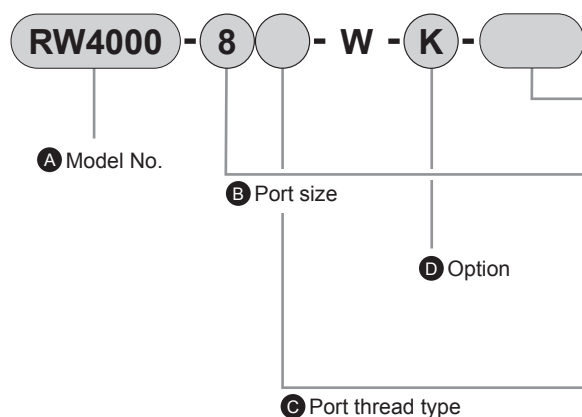
● RW4000-W



● RW8000-W



## How to order



## Note on model No. selection

Note 1: G and NPT threads are available for IN, OUT, and gauge ports.

Note 2: NPT and G threads available for overseas market.

For use in Japan, select the Rc thread.

(For Japanese market, the pressure unit and the temperature indication unit must be MPa and °C respectively due to the measurement law.)

Note 3: Select the options from knob, warranty period, and flow direction. When selecting options for several items, list options in order from the top.

Note 4: Options are not selectable for a pressure meter.

(If you have any request, consult our sales representative.)

Note 5: The warranty period of option G is three years after delivery or one year after start using: shorter one between the two.

Note 6: For option G, agreement regarding specification documents are needed.

A Model No.

RW4000	RW8000
0	0
0	0
0	0
0	0

E Attachment

Symbol	Description		
B Port size			
8	1/4	●	
10	3/8	●	
15	1/2	●	
20	3/4		●
25	1		●

C Port thread type Note 1, Note 2

Blank	Rc screw (Pressure unit: MPa/ temperature indication unit: °C)	●	●
N	NPT screw (Pressure unit: psi/ temperature indication unit: °F)	●	●
G	G screw (Pressure unit: bar/ temperature indication unit: °C)	●	●

D Option Note 3, Note 4

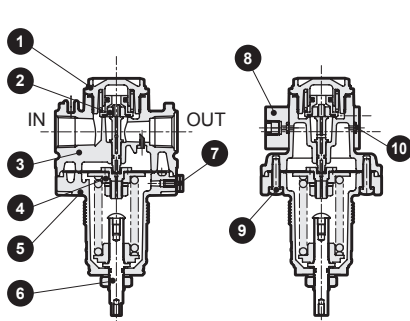
Knob	Blank	Without a knob	●	●
	K	With a knob	●	●
Warranty period	Blank	1 year after delivery	●	●
	G	3 years after delivery (Inspection result tables, inspection instruction procedures, drawings, specifications, traceability system diagrams accompanied)	●	●
Flow direction	Blank	Standard flow (left to right)	●	●
	X1	Reverse flow (right to left)	●	●

E Attachment

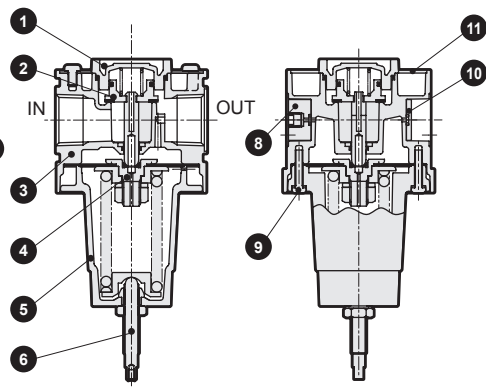
Blank	Not attached	●	●
BW	C type bracket	●	●

### Internal structure and parts list

#### ● RW4000-W



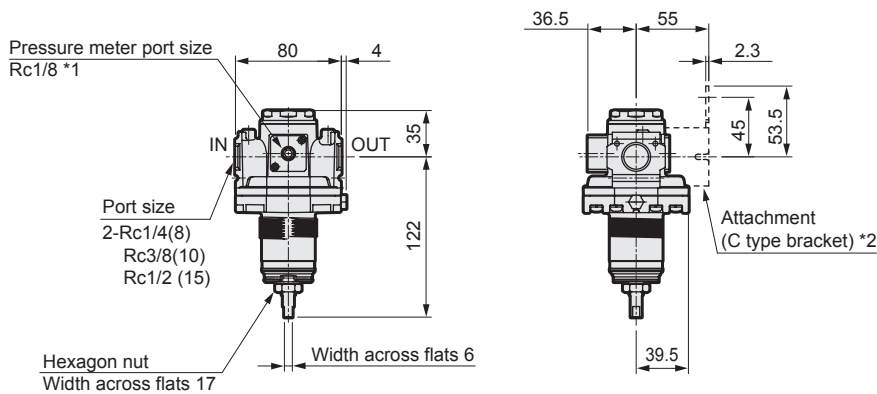
#### ● RW8000-W



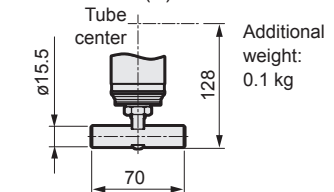
No.	Part name	Material
1	Bottom plug	Aluminum alloy die-casting
2	Valve assembly	Brass, hydrogenated nitrile rubber (polyacetal resin: RW4000 only)
3	Body	Aluminum alloy die-casting
4	Diaphragm assembly	Stainless steel, nitrile rubber, aluminum
5	Cover	Aluminum alloy die-casting
6	Adjusting screw assembly	Stainless steel (Nitrile rubber, polyacetal resin: RW4000 only)
7	Adapter	Stainless steel
8	Gauge plug assembly	Aluminum, nitrile rubber, stainless steel
9	Screw	Stainless steel
10	Seal plug assembly	Aluminum, nitrile rubber, stainless steel
11	Plate cover	Aluminum

### Dimensions

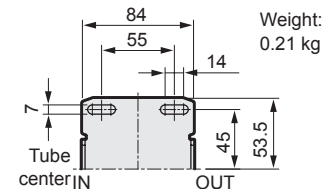
#### ● RW4000-W



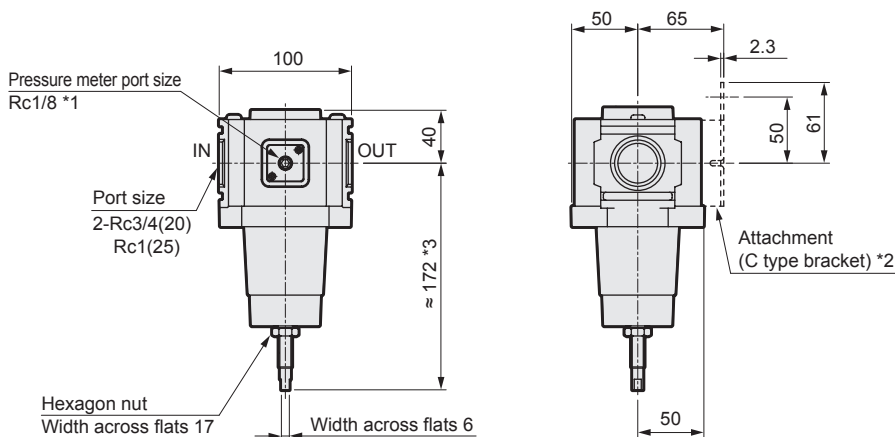
#### • Option dimensions With a knob (K)



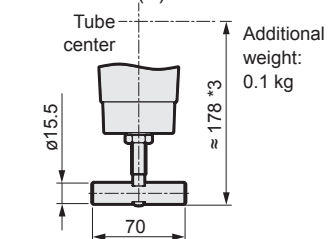
#### • Attachment C type bracket (-BW) Part No.: B420



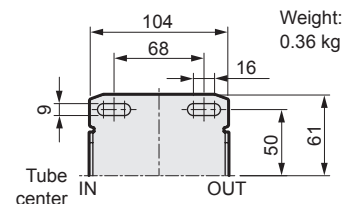
#### ● RW8000-W



#### • Option dimensions With a knob (K)



#### • Attachment C type bracket (-BW) Part No.: B820



\*1 The pressure meter port is kept open at the time of delivery,  
To seal the port, use the supply pipe plug.

\*2 The bracket is an option.

\*3 Dimensions when the set pressure is 0 MPa



Filter/regulator (Outdoor-use series)

# Safety precautions

Be sure to read the instructions before use.

Refer also to the precautions of "Pneumatic/vacuum/auxiliary equipment (No. CB-024S)".

## Individual notes: Filter/regulator (Outdoor-use series)

### WARNING

#### ■ When designing and examining

- This product is for industrial use only. Must not be used in components or circuits for medical equipment or components that involve human lives.
- Install a safety device where an output pressure exceeding the regulator's set pressure value could result in damage or faulty operation of secondary side devices.

#### ■ Working Environment

- Whereas this product is designed for outdoor use, it must not be used in environments below:
  - When the ambient temperature and the product's temperature are outside the range of -10 to 60°C. (Using the product in a place exposed to direct sunlight may cause the product's temperature to be higher than the ambient temperature.)
  - When air congealation occurs.
  - If there is atmosphere of corrosive gas and liquid and chemical material.
  - Place exposed to oscillation and shock

#### ■ During use and maintenance

- Do not disassemble filter/regulator or regulator cover.

### CAUTION

#### ■ During use and maintenance

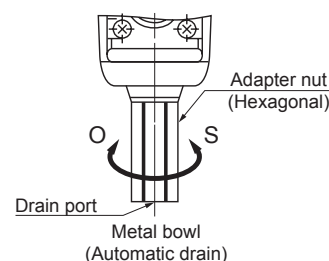
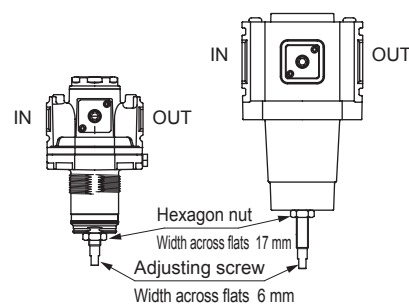
- When pressure adjustment is not performed, keep the hexagon nuts tightened and the adjusting screws fixed. (Use with loose nuts/screws may result in damage.)
- Do not subject the product to load which is unusual for appropriate use of the product. (Do not step onto the product.)
- Using the regulator with its cover faced downward may result in pressure adjustment failure due to congealation. Be careful when using in a low-temperature environment.
- The set pressure changes from initial values in accordance with usage environment and conditions and change over time of part material. Check the pressure periodically and reset if it has changed.
- Product maintenance must be performed periodically (every 6 to 12 months).
- Replace the following consumables every year: metal bowl assembly, valve assembly, bottom spring, element, mantle assembly, O ring.  
For consumables, contact our sales representative.
- When the set pressure is high, more operating force is required to turn the adjusting screw (knob).

#### ■ Working fluid

- Do not use fluid other than compressed air. Air containing corrosive gases, fluids or chemicals could result in improper pressure adjustment due to body damage or rubber deterioration.

#### ■ Others

- Whereas outdoor-use of this product is assured, its corrosion resistance (such as no rust generation and no discoloration) is not assured.
- When screwing a joint, etc. into the drain port of the metal bowl with automatic drain, screw it by fixing the hexagon of the adapter nut.  
If not fixing the hexagon of the adapter nut, the product may be damaged due to excess screwing.  
When using the metal bowl with automatic drain, if the drain is piped with a tightening joint, manual operation cannot be performed.



If the goods and their replicas, or the technology and software in this catalog are to be exported, laws require the exporter. To make sure they will never be used for the development or the manufacture of weapons for mass destruction.

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