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iB-Cyclone

Filter regulator

iB-Cyclone+FRZ Series

Combination

CMZ Series



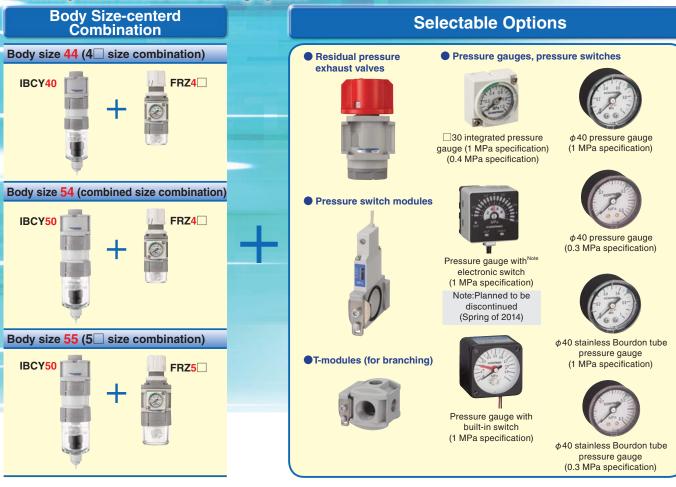
A combination to reliably remove water is now available!!

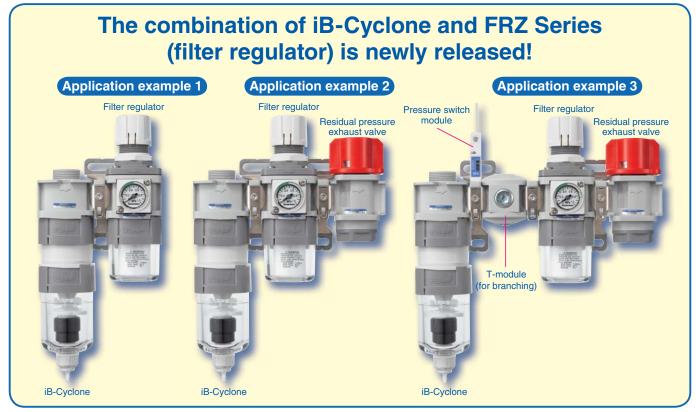


What CMZ Series brings ...!

It has combined the water separator "iB-Cyclone" using the high speed cyclone method and the downsized filter regulator "FRZ Series".

Together with reliably removing water, it is also suitable for reducing customer's assembly man-hours and saving space.

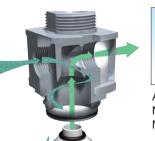




Outstanding Features of CMZ Series!

iB-Cyclone

The high speed cyclone method reliably removes water. Compared with equivalent models, its volume ratio is 1/2, while its water separation ratio is 99% or higher.





Auto drain type drain cock NO (normally open) NC (normally closed)



Drain cock with fitting

30 integrated pressure gauge

☐30 integrated pressure gauge is compact with almost nothing sticking out. Visibility is also improved with an easy to see 270° swing angle display.

Swing angle 270°



Residual pressure exhaust valve

The pressure in the air line can be exhausted through a 3-port

Better safety through a lock mechanism (with lock hole) while exhausting residual pressure. Also an easy to see red color is used for better visibility of the operating knob.

Lock hole



Filter regulator

The improved flow rate characteristic has realized the shorter face-to-face dimension. The operability of knob has improved, making it easy to install and remove the bowls. It supports the 30 integrated pressure gauge and other pressure gauges as well as pressure switches.

T-modules

This allows installation of modules for branch piping

Pressure switch modules

The use of compact pressure switches integrated with connecting bracket enables easy pressure detection for the air line. Also adjusting of set pressure can be operated from the front side.



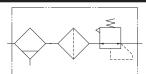


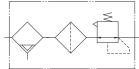
Filter regulator FRZ50

Combination

CMZ440, CMZ441 CMZ540, CMZ541 CMZ550, CMZ551

Symbol





Auto Drain type



Specifications

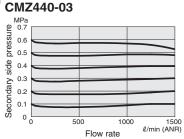
		2117442	0117740	211777
Model	Standard	CMZ440	CMZ540	CMZ550
Item	For low pressure	CMZ441	CMZ541	CMZ551
Medium		Air		
Port size	Rc	1/8, 1/4, 3/8	1/4, 3/8, 1/2 (3/8 for secondary side)	1/4, 3/8, 1/2
Maximum operating pressure MPa		1.0		
Proof pressure MPa		1.5		
Operating temperature range (atmosphere and media) °C		5~60		
Water separation rate %		99 or more		
iB-Cyclone water droplet storage capacity (In the case of -N) $$ m ℓ		16	27	27
Filtration μ m		5		
Regulation method		Internal pilot type, and relief type		
Pressure setting range MPa	Standard	0.05~0.85		
	For low pressure	0.05~0.40		
Relief start pressure MPa		Set pressure + 0.05 or less		
Air consumption volume ^{Note 1}	ℓ/min (ANR)		5 or less	
Major Parts and Materials	Body	Die cast aluminum alloy		
	Bonnet adapter	Polyacetal		
	Diaphragm	Base fabric + synthetic rubber		
	Bowl	Polycarbonate		
	Filter element	Non-woven cloth		
	Connection bracket	Die cast aluminum alloy		
	Connecting plates	Steel sheet (electroless nickel plated)		
Mass (the case of standard spec., max. port size, and-N) kg		0.46	0.56	0.65
Configured device models ^{Note 2}	iB-Cyclone	IBCY40	IBCY50	IBCY50
	Module adapter	8Z-D	8Z-D	8Z-D
	Filter regulator	FRZ40 (For low pressure: FRZ41)	FRZ40 (For low pressure: FRZ41)	FRZ50 (For low pressure: FRZ51)

Note 1: This shows the maximum value within the specification range. The air consumption varies in relation to primary pressure and secondary pressure. 2: For the details of options as well as each handling instructions and precautions, see the catalogs of FRZ Series and iB-Cyclone.

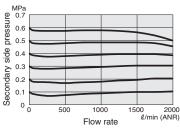
Remark: When the Auto Drain is selected as the option of iB-Cyclone, ensure the supply pressure of 0.15 MPa or higher. (Note that certain supply pressure is required to operate the Auto Drain.)

Flow rate Characteristics

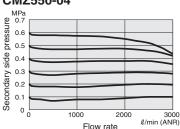
Standard



CMZ540-03



CMZ550-04

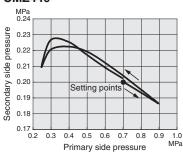


Remark: The graphs show the flow rate characteristics when the primary pressures are constant at 0.7 MPa.

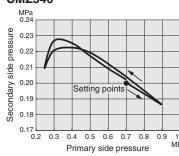
Pressure Characteristics

Standard

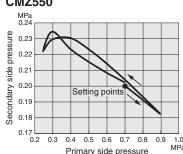
CMZ440

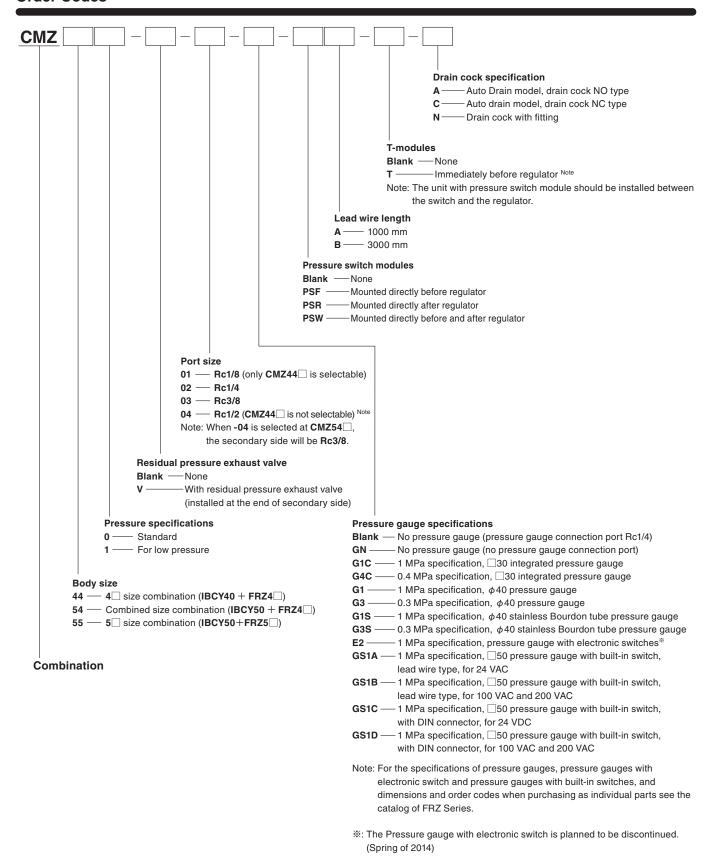


CMZ540



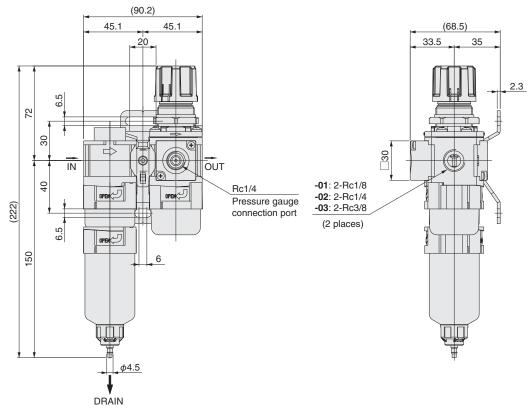
CMZ550





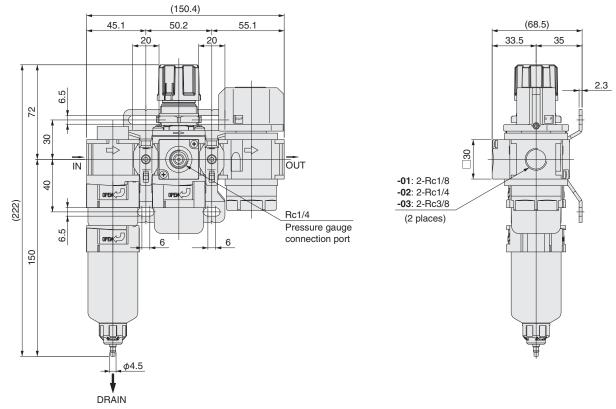
Note Before use, be sure to read the "Safety Precautions" of iB-Cyclone and FRZ Series catalogs. For the details of specifications and handling instructions, see the catalogs of iB-Cyclone and FRZ Series.

- **●**CMZ440-□-□
- ●CMZ441-□-□



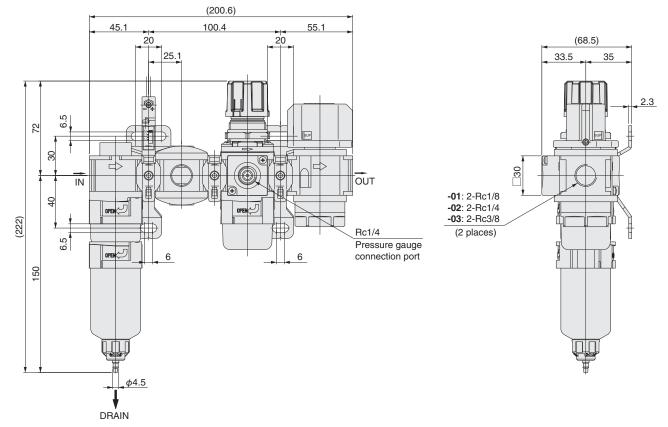
Note: This drawing shows **CMZ440-03**.

- ●CMZ440-V-□-□
- ●CMZ441-V-□-□



Note: This drawing shows CMZ440-V-03.

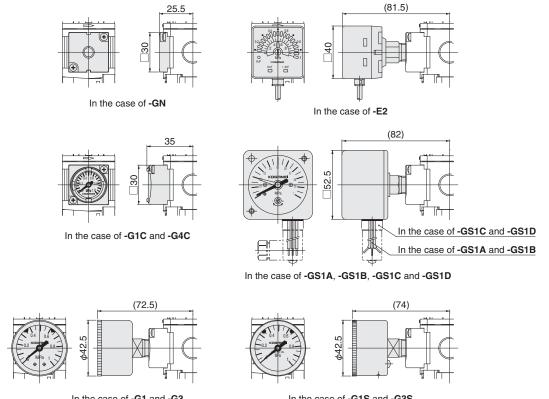
- ●CMZ440-V-□-PSF□-T-□
- **●**CMZ441-V-□-PSF□-T-□



Note 1: This drawing shows CMZ440-V-03-PSF -T.

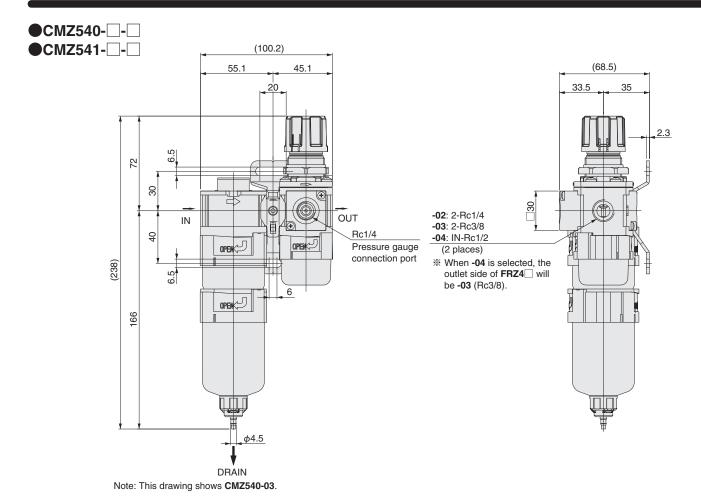
Note 2: One piece of plug R1/8, R1/4, R3/8 and R1/2 each are included.

Pressure gauge options

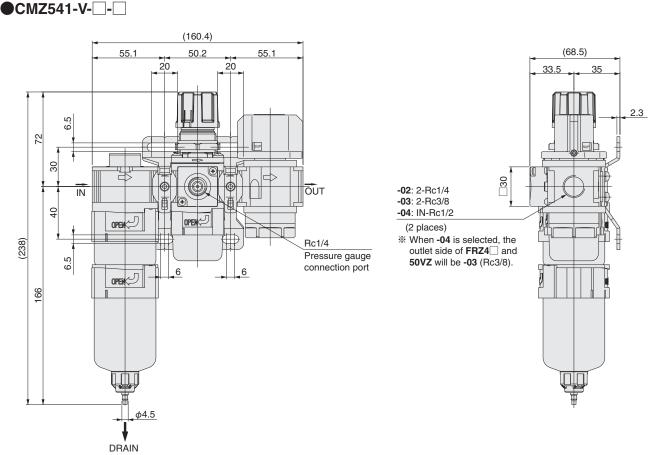


In the case of -G1 and -G3

In the case of -G1S and -G3S

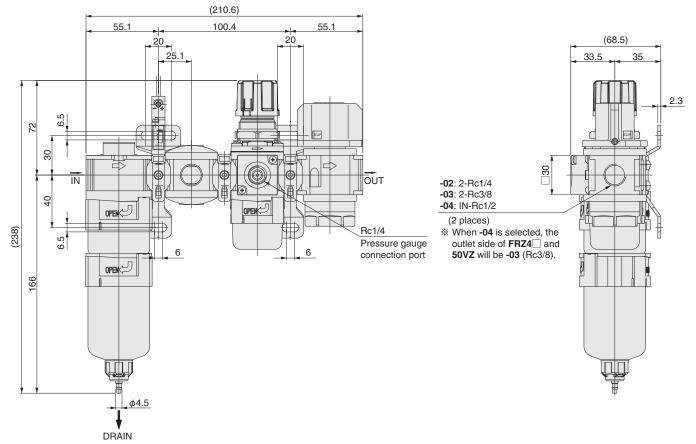


●CMZ540-V-□-□



Note: This drawing shows CMZ540-V-03.

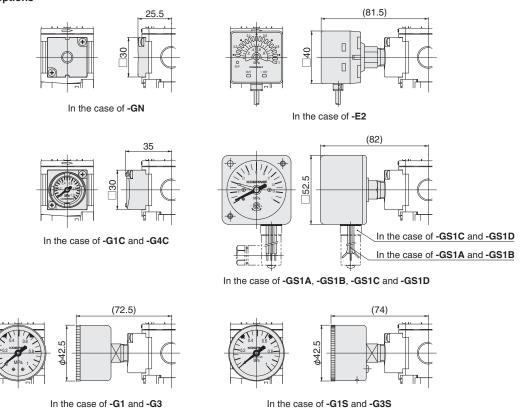
- **●**CMZ540-V-□-PSF□-T-□
- **●**CMZ541-V-□-PSF□-T-□

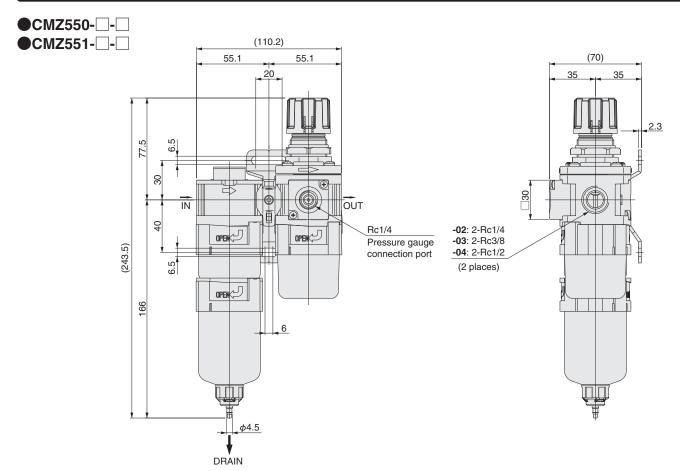


Note 1: This drawing shows CMZ540-V-03-PSF□-T.

Note 2: One piece of plug R1/8, R1/4, R3/8 and R1/2 each are included.

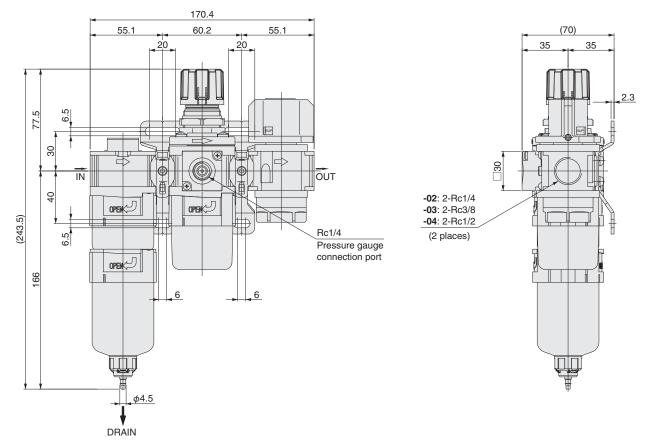
Pressure gauge options





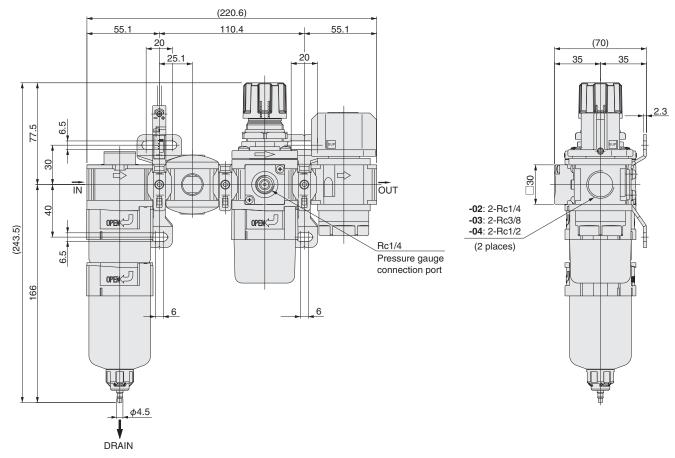
Note: This drawing shows **CMZ550-04**.

●CMZ550-V-□-□ ●CMZ551-V-□-□



Note: This drawing shows CMZ550-V-04.

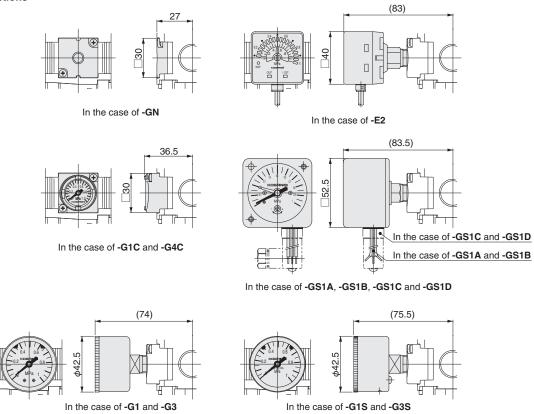
- **●**CMZ550-V-□-PSF□-T-□
- **●**CMZ551-V-□-PSF□-T-□



Note 1: This drawing shows **CMZ550-V-04-PSF**□-**T**.

Note 2: One piece of plug R1/8, R1/4, R3/8 and R1/2 each are included.

Pressure gauge options





Introducing the iB-Cyclone, a high-speed cyclone type water separator that incorporates the best of centrifugal separation know-how.

iB-Cyclone Catalog No. BK-E0007



Down sizing! Close side-by-side spacing. New-generation filter regulator FRZ series

New-generation Filter Regulator FRZ Series Catalog No. BK-E0006

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