New Generation Air Treatment Combinations

CMZ series

Leave your air treatment combination needs to Koganei.



Four types of combinations are available to suit your needs. Selectable from a variety of combinations for each type.

Improved oil resistance PCT resin bowl (option)

Improved resistance to cutting oil and alcohol
See page 162 for resistance test results

* PCT: Polycyclohexylene-dimethylene terephthalate

1-Combination type selection

Choose from 4 types according to your intended use.

Standard Combination

CMZA

General Industrial Equipment Applications



- Regulator based combinations
- Filter and regulator are mounted separately
- Widest range of combinations
- Can be used with various air qualities

Compact Combination

CMZB

General Industrial Equipment Applications

Space saving



- Filter regulator based combinations
- Overall length (face to face) more compact than CMZA

High-End Compact Combinations

CMZ

Space-Saving & Compact

End-of-Line Applications



- Compact filter regulator based combinations
- Suitable for final air treatment and pressure adjustment in lines with relatively clean primary side air quality

Filter Combinations

CMZF

Air Treatment



- Filter combinations specialized for air treatment
- Combinations available to suit any desired air quality

CAUTION Read the safety precautions on page 9 before using this product.

2-Combination component selection

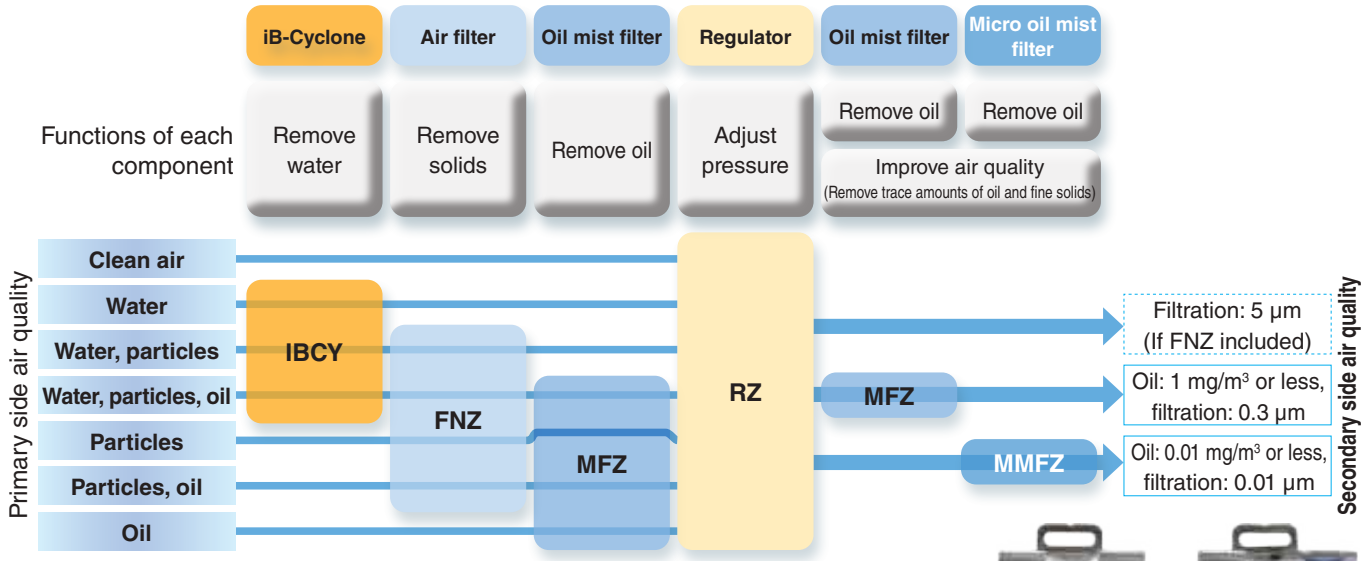
Select the components for your combination.

Page 16 for details

Standard Combination CMZA440•550

① Primary side of regulator

② Secondary side of regulator



<Selection Procedure>

1. Check your primary side air quality
2. Check the required secondary side air quality
3. Decide on components needed to satisfy conditions in ① and ②

③ Decide on components

iB-Cyclone	IBCY	C
Air filter	FNZ	F
Oil mist filter	MFZ	M
Micro oil mist filter	MMFZ	D
Regulator	RZ	R

CMZA440—CFMR—□

Component model code



Recommended **CMZA440—CFMR—□—G1C—□PG**

Component model code	Component					Water	Solids		Oil
						Separation rate	Filtration (μm)	Trapping efficiency (%)	Secondary oil mist concentration (mg/m³)
CFR	IBCY	FNZ	–	RZ	–	99% or more (under rated conditions)	5	–	–
CFRM	IBCY	FNZ	–	RZ	MFZ		0.3	99.9	1.0 or less
CFRD	IBCY	FNZ	–	RZ	MMFZ		0.01	99.9999	0.01 or less
CFMR	IBCY	FNZ	MFZ	RZ	–		0.3	99.9	1.0 or less Note 1
CFMRM	IBCY	FNZ	MFZ	RZ	MFZ				1.0 or less
CFMRD	IBCY	FNZ	MFZ	RZ	MMFZ		0.01	99.9999	0.01 or less
CR	IBCY	–	–	RZ	–		–	–	–
CRM	IBCY	–	–	RZ	MFZ		0.3	99.9	1.0 or less
CRD	IBCY	–	–	RZ	MMFZ		0.01	99.9999	0.01 or less
FR	–	FNZ	–	RZ	–	–	5	–	–
FRM	–	FNZ	–	RZ	MFZ		0.3	99.9	1.0 or less
FRD	–	FNZ	–	RZ	MMFZ		0.01	99.9999	0.01 or less
FMR	–	FNZ	MFZ	RZ	–		0.3	99.9	1.0 or less Note 1
FMRM	–	FNZ	MFZ	RZ	MFZ				1.0 or less
FMRD	–	FNZ	MFZ	RZ	MMFZ		0.01	99.9999	0.01 or less
MR	–	–	MFZ	RZ	–		0.3	99.9	1.0 or less Note 1
MRM	–	–	MFZ	RZ	MFZ				1.0 or less
MRD	–	–	MFZ	RZ	MMFZ		0.01	99.9999	0.01 or less
RM	–	–	–	RZ	MFZ		0.3	99.9	1.0 or less
RD	–	–	–	RZ	MMFZ		0.01	99.9999	0.01 or less

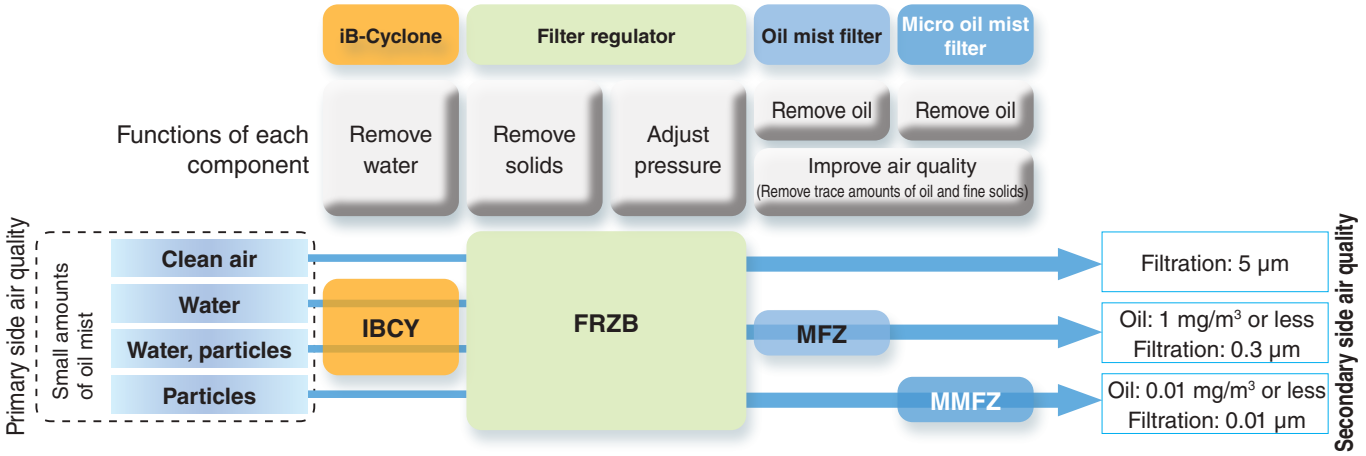
Note 1: This does not take into account grease spattering from the secondary-side terminal regulator of the components.

Page 33 for details

Compact Combination CMZB440•550

① Primary side of regulator

② Secondary side of regulator



<Selection Procedure>

1. Check your primary side air quality
2. Check the required secondary side air quality
3. Decide on components needed to satisfy conditions in ① and ②

CMZB440—RM—□—G1C—□PG

Component model code



③ Decide on components

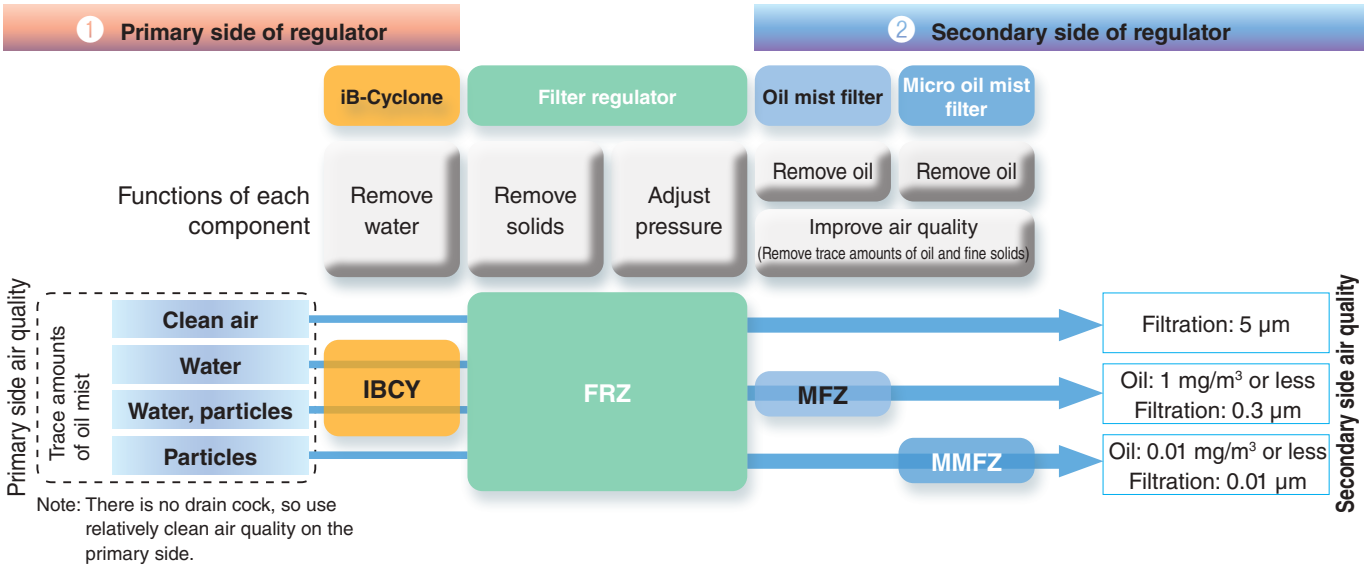
iB-Cyclone	IBCY	C
Oil mist filter	MFZ	M
Micro oil mist filter	MMFZ	D
Filter regulator (with drain cock)	FRZB	R

Recommended ☛ **CMZB440—RM—□—G1C—□PG**

Component model code	Component			Water	Solids		Oil
				Separation rate	Filtration (μm)	Particle filtering efficiency (%)	Secondary oil mist concentration (mg/m³)
C R	IBCY	FRZB	-	99% or more (under rated conditions)	5	-	-
C R M	IBCY	FRZB	MFZ		0.3	99.9	1.0 or less
C R D	IBCY	FRZB	MMFZ		0.01	99.9999	0.01 or less
☛ R M	-	FRZB	MFZ	-	0.3	99.9	1.0 or less
R D	-	FRZB	MMFZ		0.01	99.9999	0.01 or less

⚠ **CAUTION** Read the safety precautions on page 9 before using this product.

High-End Compact Combinations CMZ44□•54□•55□



Note: There is no drain cock, so use relatively clean air quality on the primary side.

<Selection Procedure>

1. Check your primary side air quality
2. Check the required secondary side air quality
3. Decide on components needed to satisfy conditions in 1 and 2

CMZ440—CRM—□—G1C—□

Component model code



3 Decide on components

iB-Cyclone	IBCY	C
Oil mist filter	MFZ	M
Micro oil mist filter	MMFZ	D
Filter regulator (no drain cock)	FRZ	R

Recommended ☛ **CMZ440—RM—□—G1C-□**

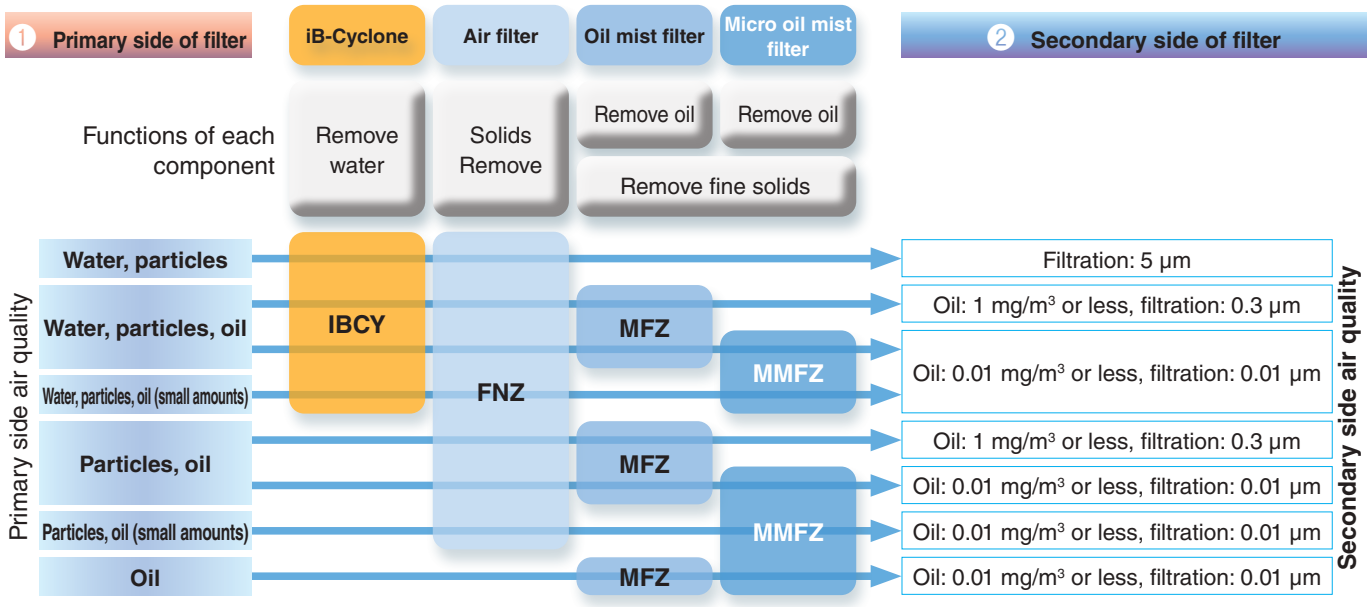
Recommended ☛ **CMZ440—CRM—□—G1C-□**

Component model code	Component			Water: Separation rate	Solids: Filtration (μm)	Solids: Particle filtering efficiency (%)	Oil: Secondary oil mist concentration (mg/m³)
C R	IBCY	FRZ	-	99% or more (under rated conditions)	5	-	-
☛ C R M	IBCY	FRZ	MFZ		0.3	99.9	1.0 or less
C R D	IBCY	FRZ	MMFZ		0.01	99.9999	0.01 or less
☛ R M	-	FRZ	MFZ	-	0.3	99.9	1.0 or less
R D	-	FRZ	MMFZ		0.01	99.9999	0.01 or less

Note: If the code for the combination is left [Blank], it will be the same product as [CR].

Page 54 for details

Filter Combinations CMZF400•500



<Selection Procedure>

1. Check your primary side air quality
2. Check the required secondary side air quality
3. Decide on components needed to satisfy conditions in 1 and 2



CMZF500—CFMD—□—□PG

Component model code

3 Decide on components

iB-Cyclone	IBCY	C
Air filter	FNZ	F
Oil mist filter	MFZ	M
Micro oil mist filter	MMFZ	D

Recommended ☛ **CMZF500—CFMD—□—□PG**

Component model code	Component				Water	Solids		Oil
					Separation rate	Filtration (µm)	Trapping efficiency (%)	Secondary oil mist concentration (mg/m³)
C F	IBCY	FNZ	–	–	99% or more (under rated conditions)	5	–	–
C F M	IBCY	FNZ	MFZ	–		0.3	99.9	1.0 or less
C F D	IBCY	FNZ	–	MMFZ		0.01	99.9999	0.01 or less
☛ C F M D	IBCY	FNZ	MFZ	MMFZ				
F M	–	FNZ	MFZ	–	–	0.3	99.9	1.0 or less
F D	–	FNZ	–	MMFZ		0.01	99.9999	0.01 or less
F M D	–	FNZ	MFZ	MMFZ				
M D	–	–	MFZ	MMFZ				

⚠ CAUTION Read the safety precautions on page 9 before using this product.

CMZA

Standard Combination



Specifications

Model		CMZA440	CMZA550
Media		Air	
Port size	Rc	1/4, 3/8	1/4, 3/8, 1/2
Maximum operating pressure	MPa	1.0	
Proof pressure	MPa	1.5	
Operating pressure range	MPa	0.05 to 0.85	
Operating temperature range (atmospheric and medium)	°C	5 to 60 (medium must not freeze)	

Specifications by component

● CMZA440/CMZA550

Component model code	CFR		CFRM		CFRD		CFMR		CFMRM		CFMRD	
Combination type	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550
Component combinations	IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50
	FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50
	—		—		—		MFZ40	MFZ50	MFZ40	MFZ50	MFZ40	MFZ50
	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50
	—		MFZ40	MFZ50	MMFZ40	MMFZ50	—		MFZ40	MFZ50	MMFZ40	MMFZ50
Water separation rate %	99 or more (under rated conditions)											
Filtration μm	5		0.3		0.01		0.3		0.3		0.01	
Particle filtering efficiency %	—		99.9		99.9999		99.9		99.9		99.9999	
Secondary oil mist concentration[Note 1] mg/m³	—		1.0 or less		0.01 or less		1.0 or less[Note 3]		1.0 or less		0.01 or less	
Maximum flow rate[Note 2] L/min (ANR)	1400	2250	300	750	150	400	300	750	300	750	150	400
Weight kg	0.71	0.98	0.95	1.32	0.95	1.32	0.95	1.32	1.19	1.66	1.19	1.66

Component model code	CR		CRM		CRD		FR		FRM		FRD	
Combination type	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550
Component combinations	IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50	—		—		—	
	—		—		—		FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50
	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50
	—		MFZ40	MFZ50	MMFZ40	MMFZ50	—		MFZ40	MFZ50	MMFZ40	MMFZ50
Water separation rate %	99 or more (under rated conditions)						—					
Filtration μm	—		0.3		0.01		5		0.3		0.01	
Particle filtering efficiency %	—		99.9		99.9999		—		99.9		99.9999	
Secondary oil mist concentration[Note 1] mg/m³	—		1.0 or less		0.01 or less		—		1.0 or less		0.01 or less	
Maximum flow rate[Note 2] L/min (ANR)	1500	2600	300	750	150	400	1600	2600	300	750	150	400
Weight kg	0.44	0.61	0.71	0.98	0.71	0.98	0.44	0.61	0.71	0.98	0.71	0.98

Component model code	FMR		FMRM		FMRD		MR		MRM		MRD	
Combination type	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550
Component combinations	FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50	—		—		—	
	MFZ40	MFZ50	MFZ40	MFZ50	MFZ40	MFZ50	MFZ40	MFZ50	MFZ40	MFZ50	MFZ40	MFZ50
	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50
	—		MFZ40	MFZ50	MMFZ40	MMFZ50	—		MFZ40	MFZ50	MMFZ40	MMFZ50
Filtration μm	0.3		0.3		0.01		0.3		0.3		0.01	
Particle filtering efficiency %	99.9		99.9		99.9999		99.9		99.9		99.9999	
Secondary oil mist concentration[Note 1] mg/m³	1.0 or less[Note 3]		1.0 or less		0.01 or less		1.0 or less[Note 3]		1.0 or less		0.01 or less	
Maximum flow rate[Note 2] L/min (ANR)	300	750	300	750	150	400	300	750	300	750	150	400
Weight kg	0.71	0.98	0.95	1.32	0.95	1.32	0.44	0.61	0.71	0.98	0.71	0.98

Component model code	RM		RD	
Combination type	CMZA440	CMZA550	CMZA440	CMZA550
Component combinations	RZ40	RZ50	RZ40	RZ50
	MFZ40	MFZ50	MMFZ40	MMFZ50
Filtration μm	0.3		0.01	
Particle filtering efficiency %	99.9		99.9999	
Secondary oil mist concentration[Note 1] mg/m³	1.0 or less		0.01 or less	
Maximum flow rate[Note 2] L/min (ANR)	300	750	150	400
Weight kg	0.44	0.61	0.44	0.61

Note 1: Value when the primary-side oil mist concentration is 30 mg/m³.
2: Value when the primary-side pressure is 0.7 MPa and regulator set pressure is 0.6 MPa.
3: This does not take into account grease spattering from the secondary-side terminal regulator of the components.
4: Ensure that the supply pressure is above 0.15 MPa if auto drain is selected as an option. (Supply pressure is needed to operate the auto drain.)
5: For details about each combined component, refer to the page for that product in this catalog.
6: Use a PCT resin bowl when using products in a location with a poor atmosphere (places with a risk of exposure to cutting oil, machine oil, etc.).

CMZA

Standard Combination



Specifications

Model		CMZA440	CMZA550
Media		Air	
Port size	Rc	1/4, 3/8	1/4, 3/8, 1/2
Maximum operating pressure	psi	145	
Proof pressure	psi	218	
Operating pressure range	psi	7 to 123	
Operating temperature range (atmospheric and medium)	°F	41 to 140 (medium must not freeze)	

Specifications by component

● CMZA440/CMZA550

Component model code		CFR		CFRM		CFRD		CFMR		CFMRM		CFMRD	
Combination type		CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550
Component combinations		IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50
		FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50
		—		—		—		MFZ40	MFZ50	MFZ40	MFZ50	MFZ40	MFZ50
		RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50
		—		MFZ40	MFZ50	MMFZ40	MMFZ50	—		MFZ40	MFZ50	MMFZ40	MMFZ50
Water separation rate	%	99 or more (under rated conditions)											
Filtration	μm	5		0.3		0.01		0.3		0.3		0.01	
Particle filtering efficiency	%	—		99.9		99.9999		99.9		99.9		99.9999	
Secondary oil mist concentration[Note 1]	mg/m³	—		1.0 or less		0.01 or less		1.0 or less[Note 3]		1.0 or less		0.01 or less	
Maximum flow rate[Note 2]	ft³/min (SCFM)	49.448	79.470	10.596	26.490	5.298	14.128	10.596	26.490	10.596	26.490	5.298	14.128
Weight	lb	1.566	2.161	2.095	2.911	2.095	2.911	2.095	2.911	2.624	3.660	2.624	3.660

Component model code		CR		CRM		CRD		FR		FRM		FRD	
Combination type		CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550
Component combinations		IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50	—		—		—	
		—		—		—		FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50
		RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50
		—		MFZ40	MFZ50	MMFZ40	MMFZ50	—		MFZ40	MFZ50	MMFZ40	MMFZ50
Water separation rate	%	99 or more (under rated conditions)						—					
Filtration	μm	—		0.3		0.01		5		0.3		0.01	
Particle filtering efficiency	%	—		99.9		99.9999		—		99.9		99.9999	
Secondary oil mist concentration[Note 1]	mg/m³	—		1.0 or less		0.01 or less		—		1.0 or less		0.01 or less	
Maximum flow rate[Note 2]	ft³/min (SCFM)	52.980	91.832	10.596	26.490	5.298	14.128	56.512	91.832	10.596	26.490	5.298	14.128
Weight	lb	0.970	1.345	1.566	2.161	1.566	2.161	0.970	1.345	1.566	2.161	1.566	2.161

Component model code		FMR		FMRM		FMRD		MR		MRM		MRD	
Combination type		CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550	CMZA440	CMZA550
Component combinations		FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50	—		—		—	
		MFZ40	MFZ50	MFZ40	MFZ50	MFZ40	MFZ50	MFZ40	MFZ50	MFZ40	MFZ50	MFZ40	MFZ50
		RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50	RZ40	RZ50
		—		MFZ40	MFZ50	MMFZ40	MMFZ50	—		MFZ40	MFZ50	MMFZ40	MMFZ50
Filtration	μm	0.3		0.3		0.01		0.3		0.3		0.01	
Particle filtering efficiency	%	99.9		99.9		99.9999		99.9		99.9		99.9999	
Secondary oil mist concentration[Note 1]	mg/m³	1.0 or less[Note 3]		1.0 or less		0.01 or less		1.0 or less[Note 3]		1.0 or less		0.01 or less	
Maximum flow rate[Note 2]	ft³/min (SCFM)	10.596	26.490	10.596	26.490	5.298	14.128	10.596	26.490	10.596	26.490	5.298	14.128
Weight	lb	1.566	2.161	2.095	2.911	2.095	2.911	0.970	1.345	1.566	2.161	1.566	2.161

Component model code		RM		RD	
Combination type		CMZA440	CMZA550	CMZA440	CMZA550
Component combinations		RZ40	RZ50	RZ40	RZ50
		MFZ40	MFZ50	MMFZ40	MMFZ50
Filtration	μm	0.3		0.01	
Particle filtering efficiency	%	99.9		99.9999	
Secondary oil mist concentration[Note 1]	mg/m³	1.0 or less		0.01 or less	
Maximum flow rate[Note 2]	ft³/min (SCFM)	10.596	26.490	5.298	14.128
Weight	lb	0.970	1.345	0.970	1.345

Note 1: Value when the primary-side oil mist concentration is 30 mg/m³.
2: Value when the primary-side pressure is 102 psi and regulator set pressure is 87 psi.
3: This does not take into account grease spattering from the secondary-side terminal regulator of the components.
4: Ensure that the supply pressure is above 22 psi if auto drain is selected as an option. (Supply pressure is needed to operate the auto drain.)
5: For details about each combined component, refer to the page for that product in this catalog.
6: Use a PCT resin bowl when using products in a location with a poor atmosphere (places with a risk of exposure to cutting oil, machine oil, etc.).

● Standard Combination

CMZA □ **0** – [ ] – □ – □ – □ – □ – □ – □ – □ – [ ] – □

Direction of flow
Blank — Specifications (left to right)
R — Reverse flow (right to left)

Bowl specifications
APG — Auto drain N.O. + With bowl guard
CPG — Auto drain N.C. + With bowl guard
NPG — Drain cock with fitting + With bowl guard
PAPG — PCTResin bowl + Auto drain N.O. + With bowl guard
PCPG — PCTResin bowl + Auto drain N.C. + With bowl guard
PNPG — PCTResin bowl + Drain cock with fitting + With bowl guard
*** IBCY, FNZ, MFZ, MMFZ have the same specifications.**

T module
Blank — None
T — Just before regulator
* For models with pressure switch module (PSF), installation is between the switch and the regulator.

Lead wire length
B — 3000 mm [118.1 in.]

Pressure switch module*
Blank — None
PSF — Just before regulator
PSR — Just after regulator
The length of lead wires must be selected.
* Pressure switch modules have a pressure setting range of 0.1 to 0.4 MPa [15 to 58 psi]. Check the control method before selection. See page 144 for details about specifications.

Pressure gauge specifications
Blank — No pressure gauge (with pressure gauge connection port, Rc1/4)
G1C — 1 MPa [145 psi] specifications, □30 [1.181] integrated pressure gauge
GS6 — 1 MPa [145 psi] specifications, digital pressure switch

Port size
02 — Rc1/4
03 — Rc3/8
04 — Rc1/2 (only CMZA550 can be selected)

Residual pressure exhaust valve
Blank — None
V — With residual pressure exhaust valve (installed at secondary-side terminal)

Component

Code		Component				
CFR	–	IBCY	FNZ	—	RZ	—
CFRM	–	IBCY	FNZ	—	RZ	MFZ
CFRD	–	IBCY	FNZ	—	RZ	MMFZ
CFMR	–	IBCY	FNZ	MFZ	RZ	—
CFMRM	–	IBCY	FNZ	MFZ	RZ	MFZ
CFMRD	–	IBCY	FNZ	MFZ	RZ	MMFZ
CR	–	IBCY	—	—	RZ	—
CRM	–	IBCY	—	—	RZ	MFZ
CRD	–	IBCY	—	—	RZ	MMFZ
FR	–	—	FNZ	—	RZ	—
FRM	–	—	FNZ	—	RZ	MFZ
FRD	–	—	FNZ	—	RZ	MMFZ
FMR	–	—	FNZ	MFZ	RZ	—
FMRM	–	—	FNZ	MFZ	RZ	MFZ
FMRD	–	—	FNZ	MFZ	RZ	MMFZ
MR	–	—	—	MFZ	RZ	—
MRM	–	—	—	MFZ	RZ	MFZ
MRD	–	—	—	MFZ	RZ	MMFZ
RM	–	—	—	—	RZ	MFZ
RD	–	—	—	—	RZ	MMFZ

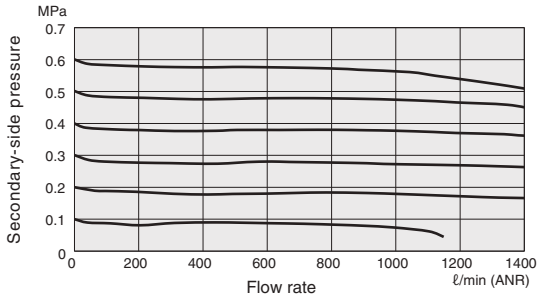
Body size

Code		IBCY·FNZ·MFZ·MMFZ body size	RZ body size
44	–	40 size	40 size
55	–	50 size	50 size

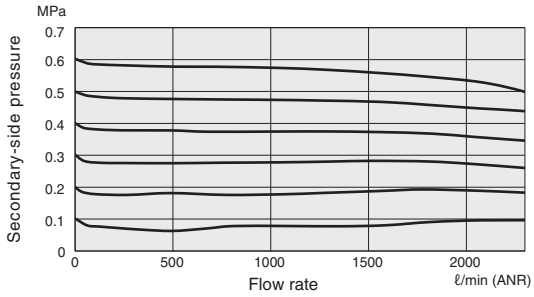
CMZA — Standard Combination

* These graphs show the maximum pipe diameters.

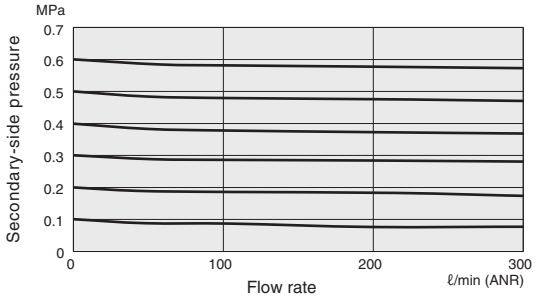
● CMZA440-[CR] [FR] [CFR]



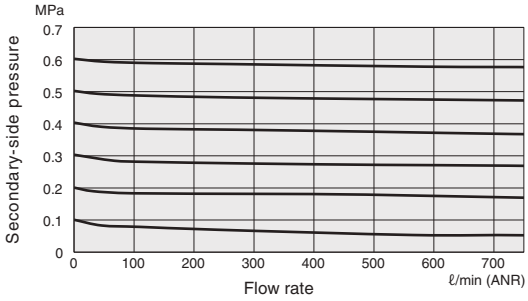
● CMZA550-[CR] [FR] [CFR]



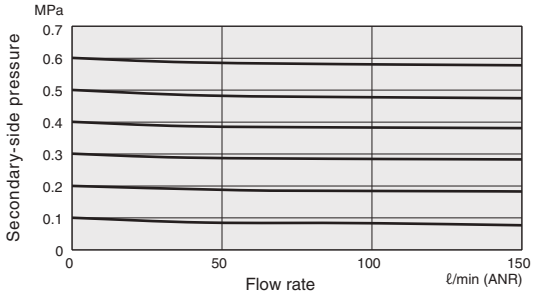
● CMZA440-[MR] [FMR] [CFMR] [CRM] [FRM] [MRM] [CFRM] [FMRM] [CFMRM] [RM]



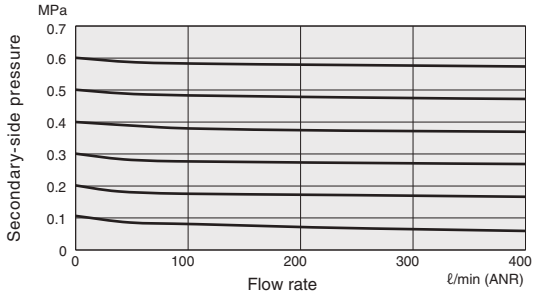
● CMZA550-[MR] [FMR] [CFMR] [CRM] [FRM] [MRM] [CFRM] [FMRM] [CFMRM] [RM]



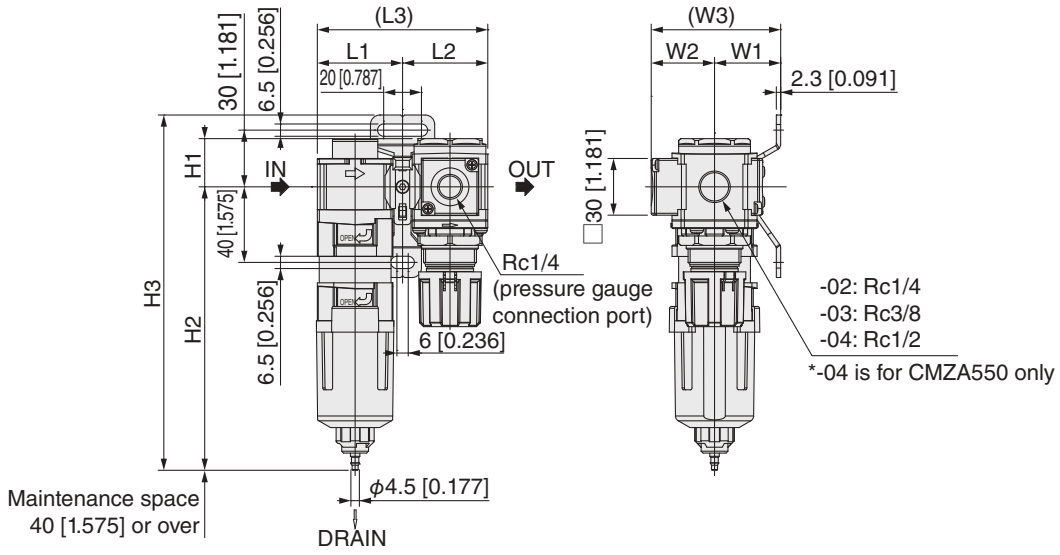
● CMZA440-[CRD] [FRD] [MRD] [CFRD] [FMRD] [CFMRD] [RD]



● CMZA550-[CRD] [FRD] [MRD] [CFRD] [FMRD] [CFMRD] [RD]

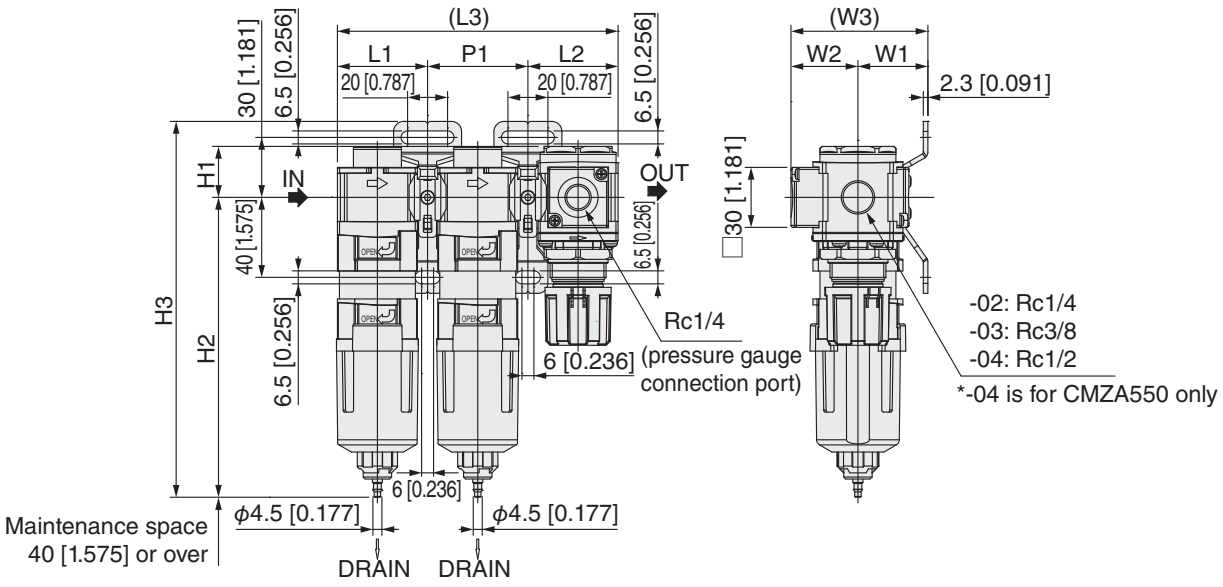


● CMZA440-[CR] [FR] [MR]
● CMZA550-[CR] [FR] [MR]



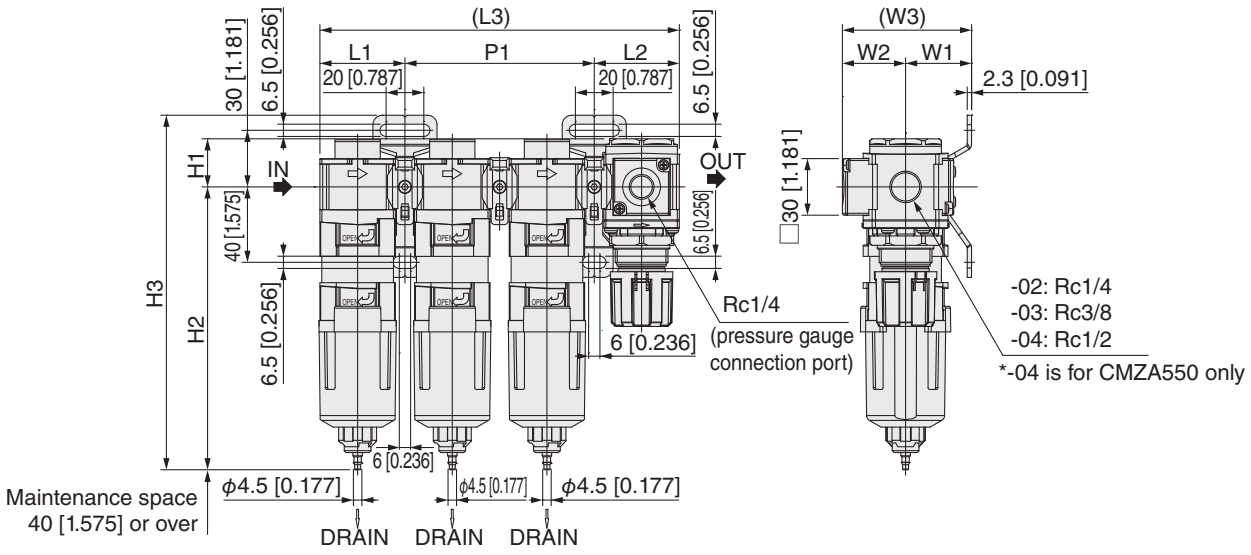
Combination type	L1	L2	L3	H1	H2	H3	W1	W2	W3
CMZA440	45.1 [1.776]	45.1 [1.776]	90.2 [3.551]	25.5 [1.004]	150 [5.906]	188 [7.402]	35 [1.378]	33.5 [1.319]	68.5 [2.697]
CMZA550	55.1 [2.169]	55.1 [2.169]	110.2 [4.339]	29 [1.142]	166 [6.535]	204 [8.031]	35 [1.378]	35 [1.378]	70 [2.756]

● CMZA440-[CFR] [FMR]
● CMZA550-[CFR] [FMR]



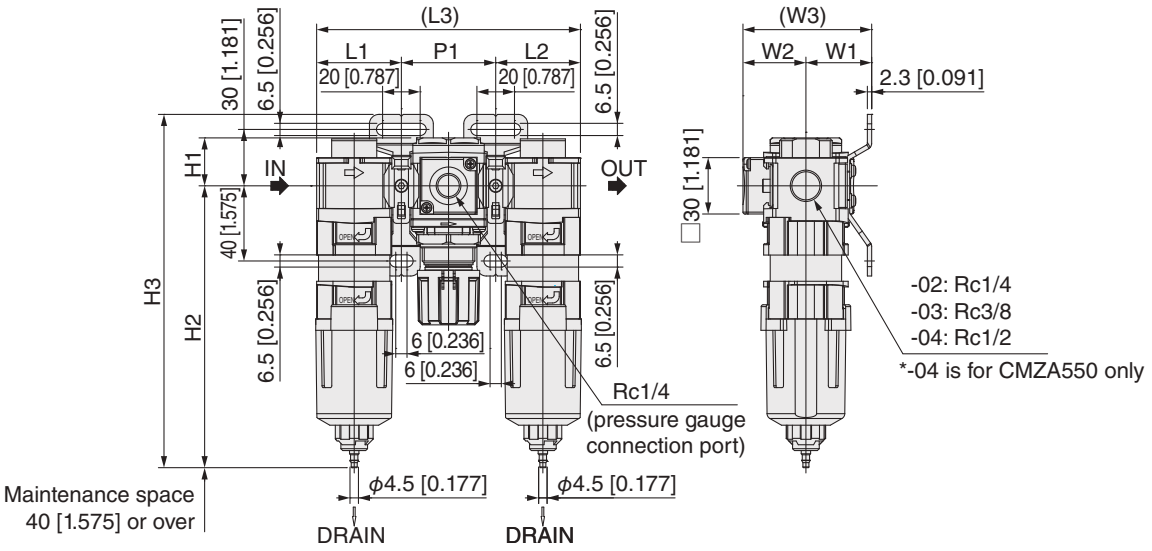
Combination type	L1	L2	L3	P1	H1	H2	H3	W1	W2	W3
CMZA440	45.1 [1.776]	45.1 [1.776]	140.4 [5.528]	50.2 [1.976]	25.5 [1.004]	150 [5.906]	188 [7.402]	35 [1.378]	33.5 [1.319]	68.5 [2.697]
CMZA550	55.1 [2.169]	55.1 [2.169]	170.4 [6.709]	60.2 [2.370]	29 [1.142]	166 [6.535]	204 [8.031]	35 [1.378]	35 [1.378]	70 [2.756]

● CMZA440-[CFMR]
● CMZA550-[CFMR]



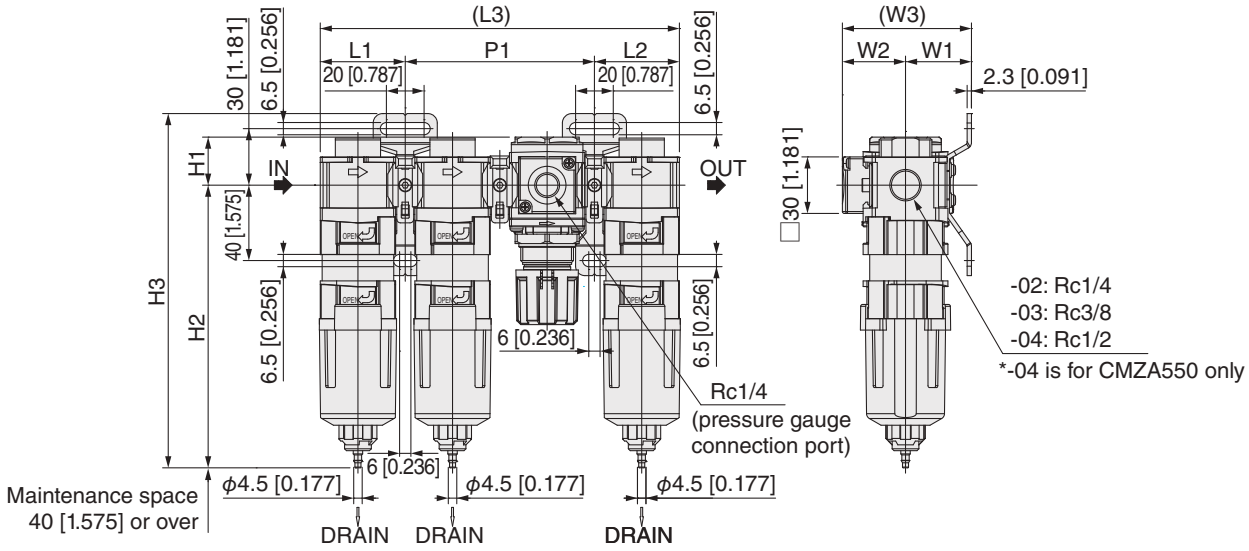
Combination type	L1	L2	L3	P1	H1	H2	H3	W1	W2	W3
CMZA440	45.1 [1.776]	45.1 [1.776]	190.6 [7.504]	100.4 [3.953]	25.5 [1.004]	150 [5.906]	188 [7.402]	35 [1.378]	33.5 [1.319]	68.5 [2.697]
CMZA550	55.1 [2.169]	55.1 [2.169]	230.6 [9.079]	120.4 [4.740]	29 [1.142]	166 [6.535]	204 [8.031]	35 [1.378]	35 [1.378]	70 [2.756]

● CMZA440-[CRM] [FRM] [MRM] [CRD] [FRD] [MRD]
● CMZA550-[CRM] [FRM] [MRM] [CRD] [FRD] [MRD]



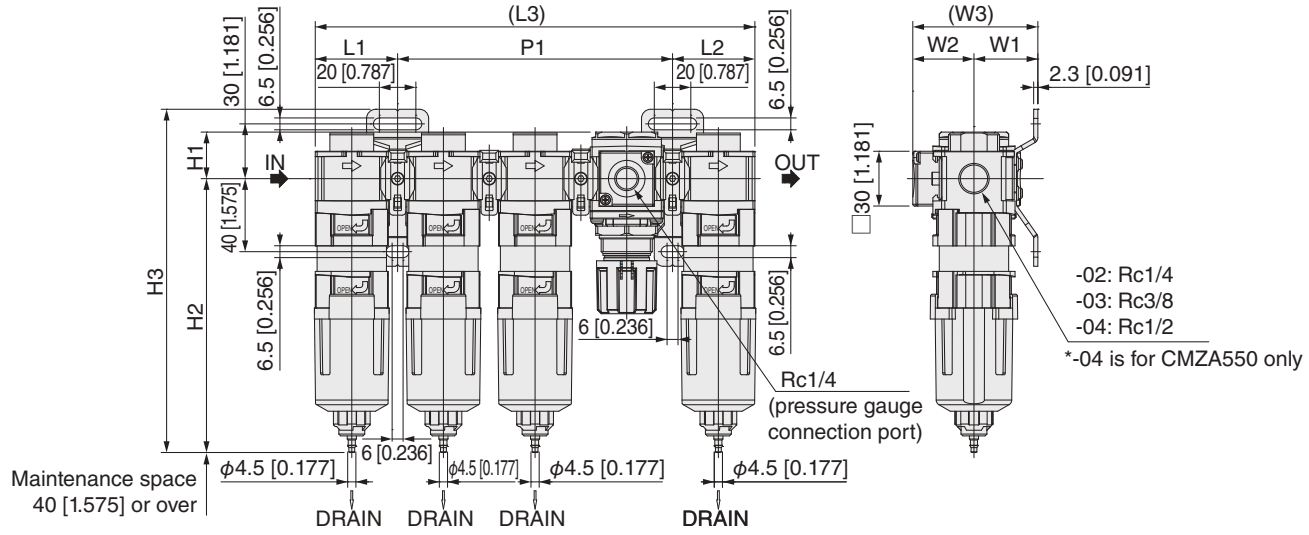
Combination type	L1	L2	L3	P1	H1	H2	H3	W1	W2	W3
CMZA440	45.1 [1.776]	45.1 [1.776]	140.4 [5.528]	50.2 [1.976]	25.5 [1.004]	150 [5.906]	188 [7.402]	35 [1.378]	33.5 [1.319]	68.5 [2.697]
CMZA550	55.1 [2.169]	55.1 [2.169]	170.4 [6.709]	60.2 [2.370]	29 [1.142]	166 [6.535]	204 [8.031]	35 [1.378]	35 [1.378]	70 [2.756]

● CMZA440-[CFRM] [FMRM] [CFRD] [FMRD]
● CMZA550-[CFRM] [FMRM] [CFRD] [FMRD]



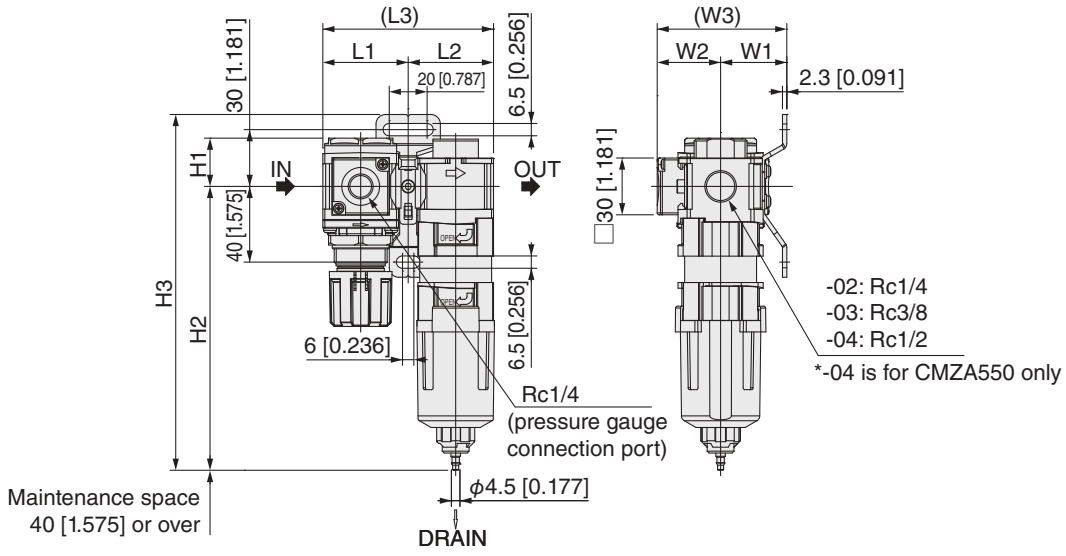
Combination type	L1	L2	L3	P1	H1	H2	H3	W1	W2	W3
CMZA440	45.1 [1.776]	45.1 [1.776]	190.6 [7.504]	100.4 [3.953]	25.5 [1.004]	150 [5.906]	188 [7.402]	35 [1.378]	33.5 [1.319]	68.5 [2.697]
CMZA550	55.1 [2.169]	55.1 [2.169]	230.6 [9.079]	120.4 [4.740]	29 [1.142]	166 [6.535]	204 [8.031]	35 [1.378]	35 [1.378]	70 [2.756]

● CMZA440-[CFMRM] [CFMRD]
● CMZA550-[CFMRM] [CFMRD]



Combination type	L1	L2	L3	P1	H1	H2	H3	W1	W2	W3
CMZA440	45.1 [1.776]	45.1 [1.776]	240.8 [9.480]	150.6 [5.929]	25.5 [1.004]	150 [5.906]	188 [7.402]	35 [1.378]	33.5 [1.319]	68.5 [2.697]
CMZA550	55.1 [2.169]	55.1 [2.169]	290.8 [11.449]	180.6 [7.110]	29 [1.142]	166 [6.535]	204 [8.031]	35 [1.378]	35 [1.378]	70 [2.756]

● CMZA440-[RM] [RD]
● CMZA550-[RM] [RD]



Combination type	L1	L2	L3	H1	H2	H3	W1	W2	W3
CMZA440	45.1 [1.776]	45.1 [1.776]	90.2 [3.551]	25.5 [1.004]	150 [5.906]	188 [7.402]	35 [1.378]	33.5 [1.319]	68.5 [2.697]
CMZA550	55.1 [2.169]	55.1 [2.169]	110.2 [4.339]	29 [1.142]	166 [6.535]	204 [8.031]	35 [1.378]	35 [1.378]	70 [2.756]

● **CMZA440·550** configuration diagram

: Connection fittings with brackets

Component	Options	Configuration diagram	Options	Configuration diagram
CR FR MR	No options	① D ②	-V	① D ② D 50VZ
	-PSF	① DPS ②	-V -PSF	① DPS ② D 50VZ
	-PSR	① D ② DPS SP	-V -PSR	① D ② DPS 50VZ
	-T	① D TP D ②	-V -T	① D TP F ② D 50VZ
	-PSF -T	① DPS TP D ②	-V -PSF -T	① DPS TP F ② D 50VZ
	-PSR -T	① D TP F ② DPS SP	-V -PSR -T	① D TP F ② DPS 50VZ

Component	①	②
CR	IBCY	RZ
FR	FNZ	
MR	MFZ	

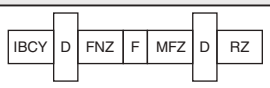
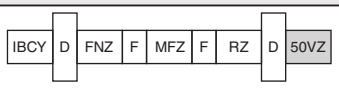
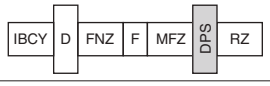
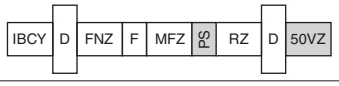
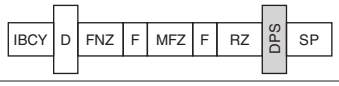
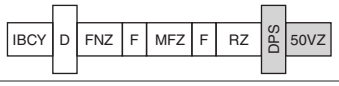
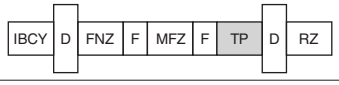
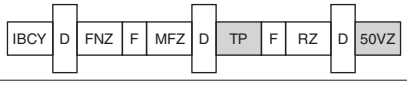
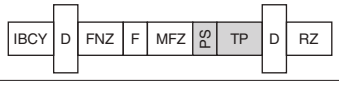
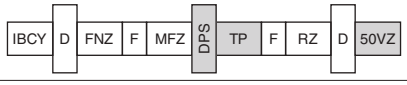
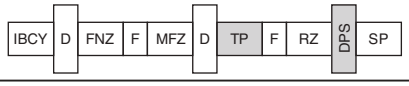
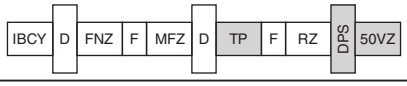
Component	Options	Configuration diagram	Options	Configuration diagram
CFR FMR	No options	① D ② D ③	-V	① D ② F ③ D 50VZ
	-PSF	① D ② DPS ③	-V -PSF	① D ② PS ③ D 50VZ
	-PSR	① D ② F ③ DPS SP	-V -PSR	① D ② F ③ DPS 50VZ
	-T	① D ② F TP D ③	-V -T	① D ② F TP F ③ D 50VZ
	-PSF -T	① D ② PS TP D ③	-V -PSF -T	① D ② PS TP F ③ D 50VZ
	-PSR -T	① D ② F TP F ③ DPS SP	-V -PSR -T	① D ② F TP F ③ DPS 50VZ

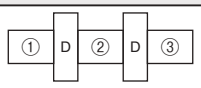
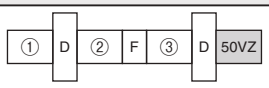
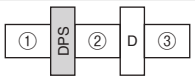
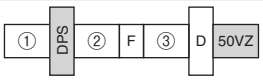
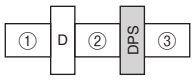
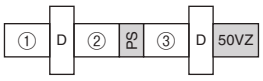
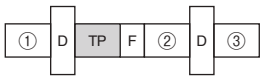
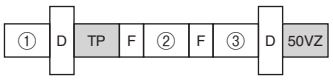
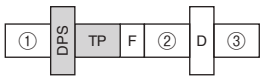
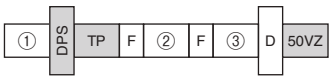
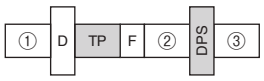
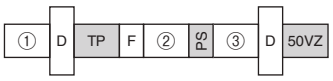
Component	①	②	③
CFR	IBCY	FNZ	RZ
FMR	FNZ	MFZ	RZ

F: F module (for connecting)
D: D module (for connecting (with bracket)
TP: Intermediate extraction block
SP: Piping adapter
PS: Pressure switch module
DPS: Pressure switch module (with bracket)
50VZ: Residual pressure exhaust valve

● **CMZA440·550** configuration diagram

: Connection fittings with brackets

Component	Options	Configuration diagram	Options	Configuration diagram
CFMR	No options		**-V**	
	-PSF		**-V -PSF**	
	-PSR		**-V -PSR**	
	-T		**-V -T**	
	-PSF -T		**-V -PSF -T**	
	-PSR -T		**-V -PSR -T**	

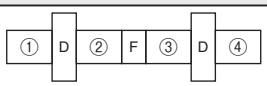
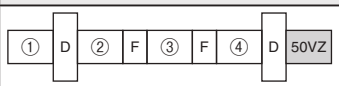
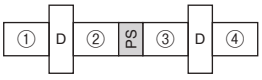
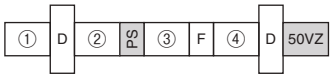
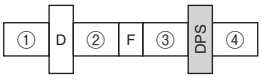
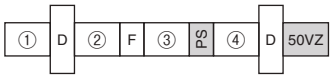
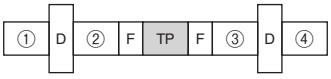
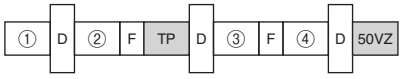
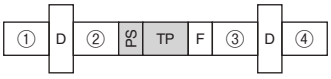
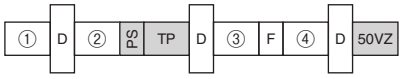
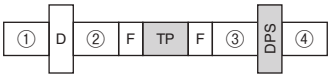
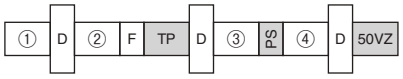
Component	Options	Configuration diagram	Options	Configuration diagram
CRM CRD FRM FRD MRM MRD	No options		**-V**	
	-PSF		**-V -PSF**	
	-PSR		**-V -PSR**	
	-T		**-V -T**	
	-PSF -T		**-V -PSF -T**	
	-PSR -T		**-V -PSR -T**	

Component	①	②	③
CRM	**IBCY**	**RZ**	**MFZ**
CRD			**MMFZ**
FRM	**FNZ**		**MFZ**
FRD			**MMFZ**
MRM	**MFZ**		**MFZ**
MRD			**MMFZ**

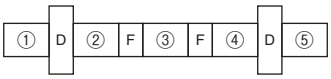
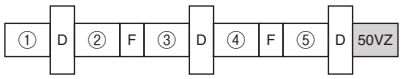
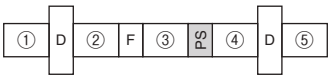
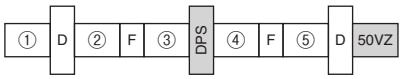
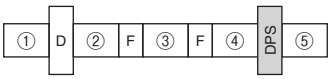
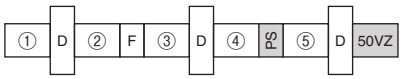
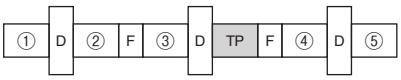
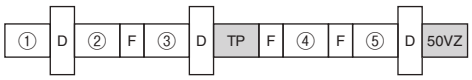
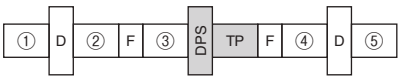
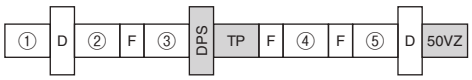
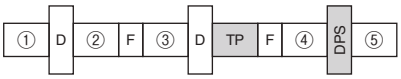
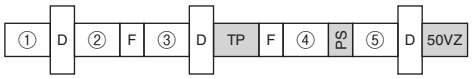
F: F module (for connecting)
D: D module (for connecting (with bracket)
TP: Intermediate extraction block
SP: Piping adapter
PS: Pressure switch module
DPS: Pressure switch module (with bracket)
50VZ: Residual pressure exhaust valve

● CMZA440·550 configuration diagram

: Connection fittings with brackets

Component	Options	Configuration diagram	Options	Configuration diagram
CFRM CFRD FMRM FMRD	No options		-V	
	-PSF		-V -PSF	
	-PSR		-V -PSR	
	-T		-V -T	
	-PSF -T		-V -PSF -T	
	-PSR -T		-V -PSR -T	

Component	①	②	③	④
CFRM	IBCY	FNZ	RZ	MFZ
CFRD				MMFZ
FMRM	FNZ	MFZ	RZ	MFZ
FMRD				MMFZ

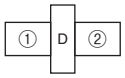
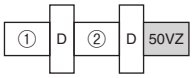
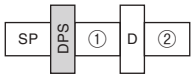
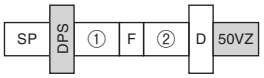
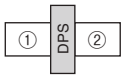
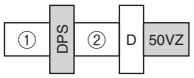
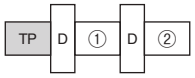
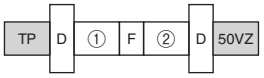
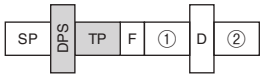
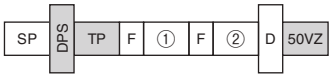
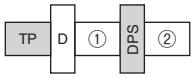
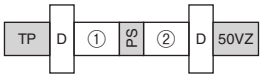
Component	Options	Configuration diagram	Options	Configuration diagram
CFMRM CFMRD	No options		-V	
	-PSF		-V -PSF	
	-PSR		-V -PSR	
	-T		-V -T	
	-PSF -T		-V -PSF -T	
	-PSR -T		-V -PSR -T	

Component	①	②	③	④	⑤
CFMRM	IBCY	FNZ	MFZ	RZ	MFZ
CFMRD					MMFZ

F: F module (for connecting)
D: D module (for connecting (with bracket)
TP: Intermediate extraction block
SP: Piping adapter
PS: Pressure switch module
DPS: Pressure switch module (with bracket)
50VZ: Residual pressure exhaust valve

● **CMZA440·550** configuration diagram

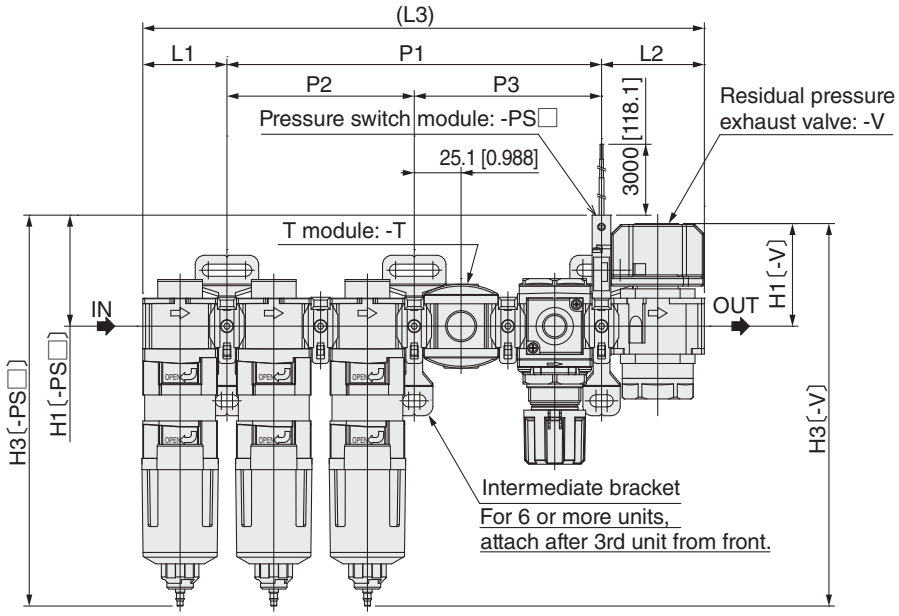
: Connection fittings with brackets

Component	Options	Configuration diagram	Options	Configuration diagram
RM **RD**	No options		**-V**	
	-PSF		**-V** **-PSF**	
	-PSR		**-V** **-PSR**	
	-T		**-V** **-T**	
	-PSF **-T**		**-V** **-PSF** **-T**	
	-PSR **-T**		**-V** **-PSR** **-T**	

Component	①	②
RM	**RZ**	**MFZ**
RD		**MMFZ**

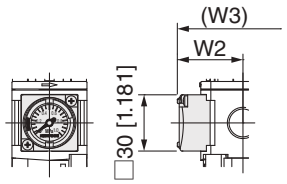
F: F module (for connecting)
D: D module (for connecting (with bracket)
TP: Intermediate extraction block
SP: Piping adapter
PS: Pressure switch module
DPS: Pressure switch module (with bracket)
50VZ: Residual pressure exhaust valve

● **CMZA440·550** Option dimension diagrams (mm [in.])



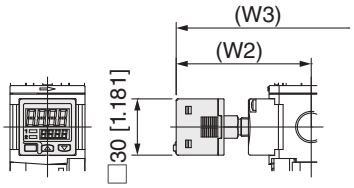
See the option configuration diagrams on pages 24-27 for option and bracket positions for each combination of components.

● Pressure gauge option



For **-G1C**

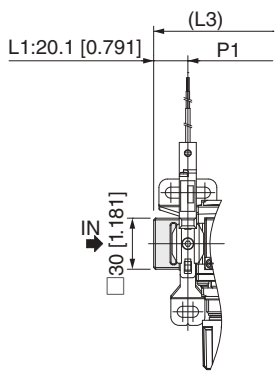
Combination type	-G1C	
	□30 integrated pressure gauge	
	W2	W3
CMZA440	35 [1.378]	70 [2.756]
CMZA550	36.5 [1.437]	71.5 [2.815]



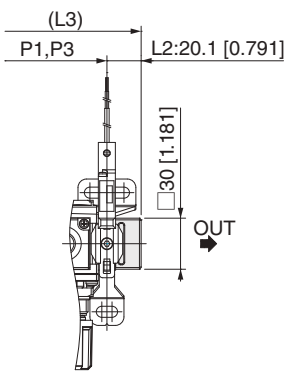
For **-GS6**

Combination type	-GS6	
	Digital pressure gauge	
	W2	W3
CMZA440	72 [2.835]	107 [4.213]
CMZA550	73.5 [2.894]	108.5 [4.272]

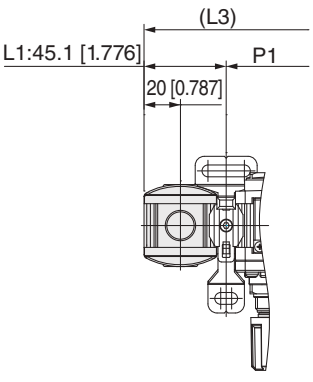
S When adapter is leading end
[RM] [RD]
: -PSF, -PSF-T, -V-PSF, -V-PSF-T



S When adapter is terminal
[CFR] [FMR] [CFMR] [CR] [FR] [MR]
: -PSR, -PSR-T



When T module is leading end
[RM] [RD]
: -T, -V-T, -PSR-T, -V-PSR-T



Tables of overall length (face to face) and mounting dimensions when option is selected

● **CMZA440·550** Option dimension tables (mm)

Combination type	Component	-V							-T				
		Residual pressure exhaust valve							T module				
		L2	L3	P1	P2	P3	H1	H3	L1	L3	P1	P2	P3
CMZA440	CR, FR, MR	55.1	150.4	50.2	—	—	55	205	45.1	140.4	50.2	—	—
	CFR, FMR		200.6	100.4	—	—				190.6	100.4	—	—
	CFMR		250.8	150.6	—	—				240.8	150.6	—	—
	CRM, CRD, FRM, FRD, MRM, MRD		200.6	100.4	—	—				190.6	100.4	—	—
	CFRM, CFRD, FMRM, FMRD		250.8	150.6	—	—				240.8	150.6	—	—
	CFMRM, CFMRD		301	200.8	100.4	100.4				291	200.8	100.4	100.4
	RM, RD		150.4	50.2	—	—				140.4	50.2	—	—
CMZA550	CR, FR, MR	55.1	170.4	60.2	—	—	55	221	55.1	160.4	50.2	—	—
	CFR, FMR		230.6	120.4	—	—				220.6	110.4	—	—
	CFMR		290.8	180.6	—	—				280.8	170.6	—	—
	CRM, CRD, FRM, FRD, MRM, MRD		230.6	120.4	—	—				220.6	110.4	—	—
	CFRM, CFRD, FMRM, FMRD		290.8	180.6	—	—				280.8	170.6	—	—
	CFMRM, CFMRD		351	240.8	120.4	120.4				341	230.8	120.4	110.4
	RM, RD		170.4	60.2	—	—			45.1	160.4	60.2	—	—

Combination type	Component	-PSF					-PSR				
		Pressure switch module					Pressure switch module				
		L1	L3	P1	H1	H3	L2	L3	P1	H1	H3
CMZA440	CR, FR, MR	45.1	90.2	—	59.5	209.5	20.1	115.4	50.2	59.5	209.5
	CFR, FMR		140.4	50.2				165.6	100.4		
	CFMR		190.6	100.4				215.8	150.6		
	CRM, CRD, FRM, FRD, MRM, MRD		140.4	50.2			45.1	140.4	50.2		
	CFRM, CFRD, FMRM, FMRD		190.6	100.4				190.6	100.4		
	CFMRM, CFMRD		240.8	150.6				240.8	150.6		
	RM, RD	20.1	115.4	50.2				90.2	—		
CMZA550	CR, FR, MR	55.1	110.2	—	59.5	225.5	20.1	135.4	60.2	59.5	225.5
	CFR, FMR		170.4	60.2				195.6	120.4		
	CFMR		230.6	120.4				255.8	180.6		
	CRM, CRD, FRM, FRD, MRM, MRD		170.4	60.2			55.1	170.4	60.2		
	CFRM, CFRD, FMRM, FMRD		230.6	120.4				230.6	120.4		
	CFMRM, CFMRD		290.8	180.6				290.8	180.6		
	RM, RD	20.1	135.4	60.2				110.2	—		

Combination type	Component	-V-PSF								-V-PSR						
		Residual pressure exhaust valve + Pressure switch module								Residual pressure exhaust valve + Pressure switch module						
		L1	L2	L3	P1	P2	P3	H1	H3	L2	L3	P1	P2	P3	H1	H3
CMZA440	CR, FR, MR	45.1	55.1	150.4	50.2	—	—	59.5	209.5	55.1	150.4	50.2	—	—	59.5	209.5
	CFR, FMR			200.6	100.4	—	—				200.6	100.4	—	—		
	CFMR			250.8	150.6	—	—				250.8	150.6	—	—		
	CRM, CRD, FRM, FRD, MRM, MRD			200.6	100.4	—	—				200.6	100.4	—	—		
	CFRM, CFRD, FMRM, FMRD			250.8	150.6	—	—				250.8	150.6	—	—		
	CFMRM, CFMRD			301	200.8	100.4	100.4				301	200.8	100.4	100.4		
	RM, RD	20.1		175.6	100.4	—	—				150.4	50.2	—	—		
CMZA550	CR, FR, MR	55.1	55.1	170.4	60.2	—	—	59.5	225.5	55.1	170.4	60.2	—	—	59.5	225.5
	CFR, FMR			230.6	120.4	—	—				230.6	120.4	—	—		
	CFMR			290.8	180.6	—	—				290.8	180.6	—	—		
	CRM, CRD, FRM, FRD, MRM, MRD			230.6	120.4	—	—				230.6	120.4	—	—		
	CFRM, CFRD, FMRM, FMRD			290.8	180.6	—	—				290.8	180.6	—	—		
	CFMRM, CFMRD			351	240.8	120.4	120.4				351	240.8	120.4	120.4		
	RM, RD	20.1		195.6	120.4	—	—				170.4	60.2	—	—		

* The shaded dimensions are the same value as when there are no options.

Tables of overall length (face to face) and mounting dimensions when option is selected

● **CMZA440·550** Option dimension tables (in.)

Combination type	Component	-V							-T				
		Residual pressure exhaust valve							T module				
		L2	L3	P1	P2	P3	H1	H3	L1	L3	P1	P2	P3
CMZA440	CR, FR, MR	2.169	5.921	1.976	—	—	2.165	8.071	1.776	5.528	1.976	—	—
	CFR, FMR		7.898	3.953	—	—				7.504	3.953	—	—
	CFMR		9.874	5.929	—	—				9.480	5.929	—	—
	CRM, CRD, FRM, FRD, MRM, MRD		7.898	3.953	—	—				7.504	3.953	—	—
	CFRM, CFRD, FMRM, FMRD		9.874	5.929	—	—				9.480	5.929	—	—
	CFMRM, CFMRD		11.850	7.906	3.953	3.953				11.457	7.906	3.953	3.953
	RM, RD		5.921	1.976	—	—				5.528	1.976	—	—
CMZA550	CR, FR, MR	2.169	6.709	2.370	—	—	2.165	8.701	2.169	6.315	1.976	—	—
	CFR, FMR		9.079	4.740	—	—				8.685	4.346	—	—
	CFMR		11.449	7.110	—	—				11.055	6.717	—	—
	CRM, CRD, FRM, FRD, MRM, MRD		9.079	4.740	—	—				8.685	4.346	—	—
	CFRM, CFRD, FMRM, FMRD		11.449	7.110	—	—				11.055	6.717	—	—
	CFMRM, CFMRD		13.819	9.480	4.740	4.740				13.425	9.087	4.740	4.346
	RM, RD		6.709	2.370	—	—			1.776	6.315	2.370	—	—

Combination type	Component	-PSF					-PSR				
		Pressure switch module					Pressure switch module				
		L1	L3	P1	H1	H3	L2	L3	P1	H1	H3
CMZA440	CR, FR, MR	1.776	3.551	—	2.343	8.248	0.791	4.543	1.976	2.343	8.248
	CFR, FMR		5.528	1.976				6.520	3.953		
	CFMR		7.504	3.953				8.496	5.929		
	CRM, CRD, FRM, FRD, MRM, MRD		5.528	1.976			1.776	5.528	1.976		
	CFRM, CFRD, FMRM, FMRD		7.504	3.953				7.504	3.953		
	CFMRM, CFMRD		9.480	5.929				9.480	5.929		
	RM, RD	0.791	4.543	1.976				3.551	—		
CMZA550	CR, FR, MR	2.169	4.339	—	2.343	8.878	0.791	5.331	2.370	2.343	8.878
	CFR, FMR		6.709	2.370				7.701	4.740		
	CFMR		9.079	4.740				10.071	7.110		
	CRM, CRD, FRM, FRD, MRM, MRD		6.709	2.370			2.169	6.709	2.370		
	CFRM, CFRD, FMRM, FMRD		9.079	4.740				9.079	4.740		
	CFMRM, CFMRD		11.449	7.110				11.449	7.110		
	RM, RD	0.791	5.331	2.370				4.339	—		

Combination type	Component	-V-PSF								-V-PSR						
		Residual pressure exhaust valve + Pressure switch module								Residual pressure exhaust valve + Pressure switch module						
		L1	L2	L3	P1	P2	P3	H1	H3	L2	L3	P1	P2	P3	H1	H3
CMZA440	CR, FR, MR	1.776	2.169	5.921	1.976	—	—	2.343	8.248	2.169	5.921	1.976	—	—	2.343	8.248
	CFR, FMR			7.898	3.953	—	—				7.898	3.953	—	—		
	CFMR			9.874	5.929	—	—				9.874	5.929	—	—		
	CRM, CRD, FRM, FRD, MRM, MRD			7.898	3.953	—	—				7.898	3.953	—	—		
	CFRM, CFRD, FMRM, FMRD			9.874	5.929	—	—				9.874	5.929	—	—		
	CFMRM, CFMRD			11.850	7.906	3.953	3.953				11.850	7.906	3.953	3.953		
	RM, RD	0.791		6.913	3.953	—	—				5.921	1.976	—	—		
CMZA550	CR, FR, MR	2.169	2.169	6.709	2.370	—	—	2.343	8.878	2.169	6.709	2.370	—	—	2.343	8.878
	CFR, FMR			9.079	4.740	—	—				9.079	4.740	—	—		
	CFMR			11.449	7.110	—	—				11.449	7.110	—	—		
	CRM, CRD, FRM, FRD, MRM, MRD			9.079	4.740	—	—				9.079	4.740	—	—		
	CFRM, CFRD, FMRM, FMRD			11.449	7.110	—	—				11.449	7.110	—	—		
	CFMRM, CFMRD			13.819	9.480	4.740	4.740				13.819	9.480	4.740	4.740		
	RM, RD	0.791		7.701	4.740	—	—				6.709	2.370	—	—		

* The shaded dimensions are the same value as when there are no options.

Tables of overall length (face to face) and mounting dimensions when option is selected

● **CMZA440·550** Option dimension tables (mm)

Combination type	Component	-PSF-T							-PSR-T							
		Pressure switch module + T module							Pressure switch module + T module							
		L1	L3	P1	P2	P3	H1	H3	L1	L2	L3	P1	P2	P3	H1	H3
CMZA440	CR, FR, MR	45.1	140.4	50.2	—	—	59.5	209.5	45.1	20.1	165.6	100.4	—	—	59.5	209.5
	CFR, FMR		190.6	100.4	—	—					215.8	150.6	—	—		
	CFMR		240.8	150.6	—	—					266	200.8	100.4	100.4		
	CRM, CRD, FRM, FRD, MRM, MRD		190.6	100.4	—	—				45.1	190.6	100.4	—	—		
	CFRM, CFRD, FMRM, FMRD		240.8	150.6	—	—					240.8	150.6	—	—		
	CFMRM, CFMRD		291	200.8	100.4	100.4					291	200.8	100.4	100.4		
	RM, RD	20.1	165.6	100.4	—	—					140.4	50.2	—	—		
CMZA550	CR, FR, MR	55.1	160.4	50.2	—	—	59.5	225.5	55.1	20.1	185.6	110.4	—	—	59.5	225.5
	CFR, FMR		220.6	110.4	—	—					245.8	170.6	—	—		
	CFMR		280.8	170.6	—	—					306	230.8	120.4	110.4		
	CRM, CRD, FRM, FRD, MRM, MRD		220.6	110.4	—	—				55.1	220.6	110.4	—	—		
	CFRM, CFRD, FMRM, FMRD		280.8	170.6	—	—					280.8	170.6	—	—		
	CFMRM, CFMRD		341	230.8	120.4	110.4					341	230.8	120.4	110.4		
	RM, RD	20.1	185.6	110.4	—	—			45.1		160.4	60.2	—	—		

Combination type	Component	-V-T							
		Residual pressure exhaust valve + T module							
		L1	L2	L3	P1	P2	P3	H1	H3
CMZA440	CR, FR, MR	45.1	55.1	200.6	100.4	—	—	55	205
	CFR, FMR			250.8	150.6	—	—		
	CFMR			301	200.8	100.4	100.4		
	CRM, CRD, FRM, FRD, MRM, MRD			250.8	150.6	—	—		
	CFRM, CFRD, FMRM, FMRD			301	200.8	100.4	100.4		
	CFMRM, CFMRD			351.2	251	100.4	150.6		
	RM, RD			200.6	100.4	—	—		
CMZA550	CR, FR, MR	55.1	55.1	220.6	110.4	—	—	55	221
	CFR, FMR			280.8	170.6	—	—		
	CFMR			341	230.8	120.4	110.4		
	CRM, CRD, FRM, FRD, MRM, MRD			280.8	170.6	—	—		
	CFRM, CFRD, FMRM, FMRD			341	230.8	110.4	120.4		
	CFMRM, CFMRD			401.2	291	120.4	170.6		
	RM, RD	45.1		220.6	120.4	—	—		

Combination type	Component	-V-PSF-T								-V-PSR-T							
		Residual pressure exhaust valve + Pressure switch module + T module								Residual pressure exhaust valve + Pressure switch module + T module							
		L1	L2	L3	P1	P2	P3	H1	H3	L1	L2	L3	P1	P2	P3	H1	H3
CMZA440	CR, FR, MR	45.1	55.1	200.6	100.4	—	—	59.5	209.5	45.1	55.1	200.6	100.4	—	—	59.5	209.5
	CFR, FMR			250.8	150.6	—	—					250.8	150.6	—	—		
	CFMR			301	200.8	100.4	100.4					301	200.8	100.4	100.4		
	CRM, CRD, FRM, FRD, MRM, MRD			250.8	150.6	—	—					250.8	150.6	—	—		
	CFRM, CFRD, FMRM, FMRD			301	200.8	100.4	100.4					301	200.8	100.4	100.4		
	CFMRM, CFMRD			351.2	251	100.4	150.6					351.2	251	100.4	150.6		
	RM, RD	20.1		225.8	150.6	—	—					200.6	100.4	—	—		
CMZA550	CR, FR, MR	55.1	55.1	220.6	110.4	—	—	59.5	225.5	55.1	55.1	220.6	110.4	—	—	59.5	225.5
	CFR, FMR			280.8	170.6	—	—					280.8	170.6	—	—		
	CFMR			341	230.8	120.4	110.4					341	230.8	120.4	110.4		
	CRM, CRD, FRM, FRD, MRM, MRD			280.8	170.6	—	—					280.8	170.6	—	—		
	CFRM, CFRD, FMRM, FMRD			341	230.8	110.4	120.4					341	230.8	110.4	120.4		
	CFMRM, CFMRD			401.2	291	120.4	170.6					401.2	291	120.4	170.6		
	RM, RD	20.1		245.8	170.6	—	—			45.1		220.6	120.4	—	—		

* The shaded dimensions are the same value as when there are no options.

Tables of overall length (face to face) and mounting dimensions when option is selected

● **CMZA440·550** Option dimension tables (in.)

Combination type	Component	-PSF-T Pressure switch module + T module							-PSR-T Pressure switch module + T module							
		L1	L3	P1	P2	P3	H1	H3	L1	L2	L3	P1	P2	P3	H1	H3
CMZA440	CR, FR, MR	1.776	5.528	1.976	—	—	2.343	8.248	1.776	0.791	6.520	3.953	—	—	2.343	8.248
	CFR, FMR		7.504	3.953	—	—					8.496	5.929	—	—		
	CFMR		9.480	5.929	—	—					10.472	7.906	3.953	3.953		
	CRM, CRD, FRM, FRD, MRM, MRD		7.504	3.953	—	—				1.776	7.504	3.953	—	—		
	CFRM, CFRD, FMRM, FMRD		9.480	5.929	—	—					9.480	5.929	—	—		
	CFMRM, CFMRD		11.457	7.906	3.953	3.953					11.457	7.906	3.953	3.953		
	RM, RD	0.791	6.520	3.953	—	—					5.528	1.976	—	—		
CMZA550	CR, FR, MR	2.169	6.315	1.976	—	—	2.343	8.878	2.169	0.791	7.307	4.346	—	—	2.343	8.878
	CFR, FMR		8.685	4.346	—	—					9.677	6.717	—	—		
	CFMR		11.055	6.717	—	—					12.047	9.087	4.740	4.346		
	CRM, CRD, FRM, FRD, MRM, MRD		8.685	4.346	—	—				2.169	8.685	4.346	—	—		
	CFRM, CFRD, FMRM, FMRD		11.055	6.717	—	—					11.055	6.717	—	—		
	CFMRM, CFMRD		13.425	9.087	4.740	4.346					13.425	9.087	4.740	4.346		
	RM, RD	0.791	7.307	4.346	—	—			1.776		6.315	2.370	—	—		

Combination type	Component	-V-T Residual pressure exhaust valve + T module							
		L1	L2	L3	P1	P2	P3	H1	H3
CMZA440	CR, FR, MR	1.776	2.169	7.898	3.953	—	—	2.165	8.071
	CFR, FMR			9.874	5.929	—	—		
	CFMR			11.850	7.906	3.953	3.953		
	CRM, CRD, FRM, FRD, MRM, MRD			9.874	5.929	—	—		
	CFRM, CFRD, FMRM, FMRD			11.850	7.906	3.953	3.953		
	CFMRM, CFMRD			13.827	9.882	3.953	5.929		
	RM, RD			7.898	3.953	—	—		
CMZA550	CR, FR, MR	2.169	2.169	8.685	4.346	—	—	2.165	8.701
	CFR, FMR			11.055	6.717	—	—		
	CFMR			13.425	9.087	4.740	4.346		
	CRM, CRD, FRM, FRD, MRM, MRD			11.055	6.717	—	—		
	CFRM, CFRD, FMRM, FMRD			13.425	9.087	4.346	4.740		
	CFMRM, CFMRD			15.795	11.457	4.740	6.717		
	RM, RD	1.776		8.685	4.740	—	—		

Combination type	Component	-V-PSF-T Residual pressure exhaust valve + Pressure switch module + T module								-V-PSR-T Residual pressure exhaust valve + Pressure switch module + T module							
		L1	L2	L3	P1	P2	P3	H1	H3	L1	L2	L3	P1	P2	P3	H1	H3
CMZA440	CR, FR, MR	1.776	2.169	7.898	3.953	—	—	2.343	8.248	1.776	2.169	7.898	3.953	—	—	2.343	8.248
	CFR, FMR			9.874	5.929	—	—					9.874	5.929	—	—		
	CFMR			11.850	7.906	3.953	3.953					11.850	7.906	3.953	3.953		
	CRM, CRD, FRM, FRD, MRM, MRD			9.874	5.929	—	—					9.874	5.929	—	—		
	CFRM, CFRD, FMRM, FMRD			11.850	7.906	3.953	3.953					11.850	7.906	3.953	3.953		
	CFMRM, CFMRD			13.827	9.882	3.953	5.929					13.827	9.882	3.953	5.929		
	RM, RD	0.791		8.890	5.929	—	—					7.898	3.953	—	—		
CMZA550	CR, FR, MR	2.169	2.169	8.685	4.346	—	—	2.343	8.878	2.169	2.169	8.685	4.346	—	—	2.343	8.878
	CFR, FMR			11.055	6.717	—	—					11.055	6.717	—	—		
	CFMR			13.425	9.087	4.740	4.346					13.425	9.087	4.740	4.346		
	CRM, CRD, FRM, FRD, MRM, MRD			11.055	6.717	—	—					11.055	6.717	—	—		
	CFRM, CFRD, FMRM, FMRD			13.425	9.087	4.346	4.740					13.425	9.087	4.346	4.740		
	CFMRM, CFMRD			15.795	11.457	4.740	6.717					15.795	11.457	4.740	6.717		
	RM, RD	0.791		9.677	6.717	—	—			1.776		8.685	4.740	—	—		

* The shaded dimensions are the same value as when there are no options.

CMZB

Compact Combination



Specifications

Model		CMZB440	CMZB550
Media		Air	
Port size	Rc	1/4, 3/8	1/4, 3/8, 1/2
Maximum operating pressure	MPa [psi]	1.0 [145]	
Proof pressure	MPa [psi]	1.5 [218]	
Operating pressure range	MPa [psi]	0.05 to 0.85 [7 to 123]	
Operating temperature range (atmospheric and medium)	℃ [°F]	5 to 60 [41 to 140] (medium must not freeze)	

Specifications by component

● CMZB440/CMZB550

Component model code		CR		CRM		CRD	
Combination type		CMZB440	CMZB550	CMZB440	CMZB550	CMZB440	CMZB550
Component combinations		IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50
		FRZB40	FRZB50	FRZB40	FRZB50	FRZB40	FRZB50
		—		MFZ40	MFZ50	MMFZ40	MMFZ50
Water separation rate	%	99 or more (under rated conditions)					
Filtration	μm	5		0.3		0.01	
Particle filtering efficiency	%	—		99.9		99.9999	
Secondary oil mist concentration[Note 1]	mg/m³	—		1.0 or less		0.01 or less	
Maximum flow rate[Note 2]	L/min (ANR) [ft³/min (SCFM)]	1200 [42.384]	1900 [67.108]	300 [10.596]	750 [26.490]	150 [5.298]	400 [14.128]
Weight	kg [lb]	0.52 [1.147]	0.71 [1.566]	0.79 [1.742]	1.08 [2.381]	0.79 [1.742]	1.08 [2.381]

Component model code		RM		RD	
Combination type		CMZB440	CMZB550	CMZB440	CMZB550
Component combinations		FRZB40	FRZB50	FRZB40	FRZB50
		MFZ40	MFZ50	MMFZ40	MMFZ50
Filtration	μm	0.3		0.01	
Particle filtering efficiency	%	99.9		99.9999	
Secondary oil mist concentration[Note 1]	mg/m³	1.0 or less		0.01 or less	
Maximum flow rate[Note 2]	L/min (ANR) [ft³/min (SCFM)]	300 [10.596]	750 [26.490]	150 [5.298]	400 [14.128]
Weight	kg [lb]	0.52 [1.147]	0.71 [1.566]	0.52 [1.147]	0.71 [1.566]

Note 1: Value when the primary-side oil mist concentration is 30 mg/m³.
2: Value when the primary-side pressure is 0.7 MPa [102 psi] and regulator set pressure is 0.6 MPa [87 psi].
3: Ensure that the supply pressure is above 0.15 MPa [22 psi] if auto drain is selected as an option. (Supply pressure is needed to operate the auto drain.)
4: For details about each combined component, refer to the page for that product in this catalog.
5: Use a PCT resin bowl when using products in a location with a poor atmosphere (places with a risk of exposure to cutting oil, machine oil, etc.).

● Compact Combination

CMZB □ **0** – □ – □ – □ – □ – □ – □ – □ – □ – □ – □

Direction of flow
Blank —— Specifications (left to right)
R ——— Reverse flow (right to left)

Bowl specifications
APG —— Auto drain N.O. + With bowl guard
CPG —— Auto drain N.C. + With bowl guard
NPG —— Drain cock with fitting + With bowl guard
PAPG —— PCTResin bowl + Auto drain N.O. + With bowl guard
PCPG —— PCTResin bowl + Auto drain N.C. + With bowl guard
PNPG —— PCTResin bowl + Drain cock with fitting + With bowl guard
*** IBCY, FRZB, MFZ, MMFZ have the same specifications.**

T module
Blank —None
T ———Just before regulator
* For models with pressure switch module (PSF), installation is between the switch and the regulator.

Lead wire length
B ——— 3000 mm [118.1 in.]

Pressure switch module*
Blank —— None
PSF ——— Just before regulator
PSR ——— Just after regulator
} The length of lead wires must be selected.

* Pressure switch modules have a pressure setting range of 0.1 to 0.4 MPa [15 to 58 psi]. Check the control method before selection. See page 144 for details about specifications.

Pressure gauge specifications
Blank —— No pressure gauge (with pressure gauge connection port, Rc1/4)
G1C ——— 1 MPa [145 psi] specifications, □30 [1.181] integrated pressure gauge
GS6 ——— 1 MPa [145 psi] specifications, digital pressure switch

Port size
02 ——— Rc1/4
03 ——— Rc3/8
04 ——— Rc1/2 (only CMZB550 can be selected)

Residual pressure exhaust valve
Blank —— None
V ——— With residual pressure exhaust valve (installed at secondary-side terminal)

Component

Code		Component		
CR	–	IBCY	FRZB	—
CRM	–	IBCY	FRZB	MFZ
CRD	–	IBCY	FRZB	MMFZ
RM	–	—	FRZB	MFZ
RD	–	—	FRZB	MMFZ

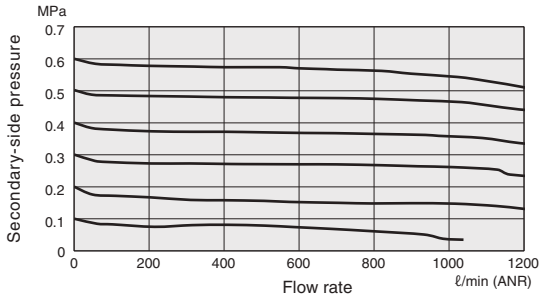
Body size

Code		IBCY·FNZ·MFZ·MMFZ body size	FRZB body size
44	–	40 size	40 size
55	–	50 size	50 size

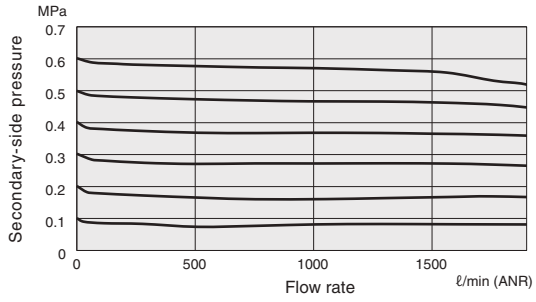
CMZB —— Compact Combination

* These graphs show the maximum pipe diameters.

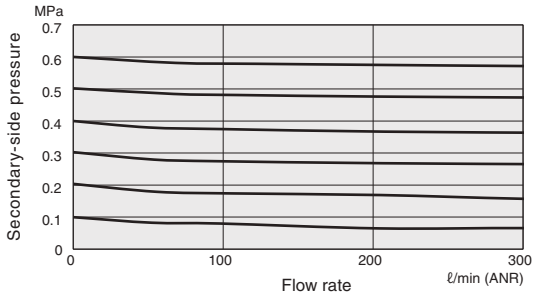
● CMZB440-[CR]



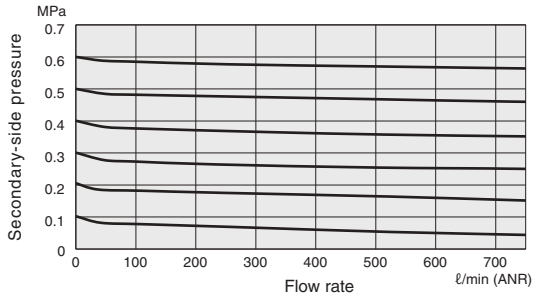
● CMZB550-[CR]



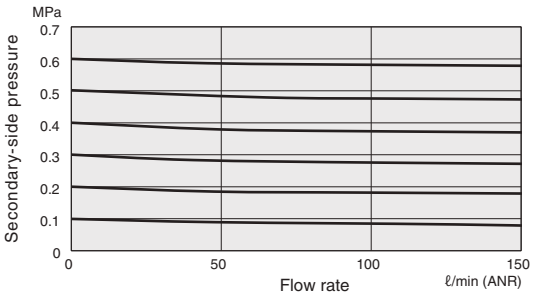
● CMZB440-[CRM] [RM]



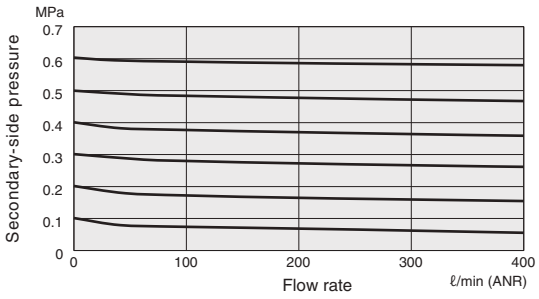
● CMZB550-[CRM] [RM]



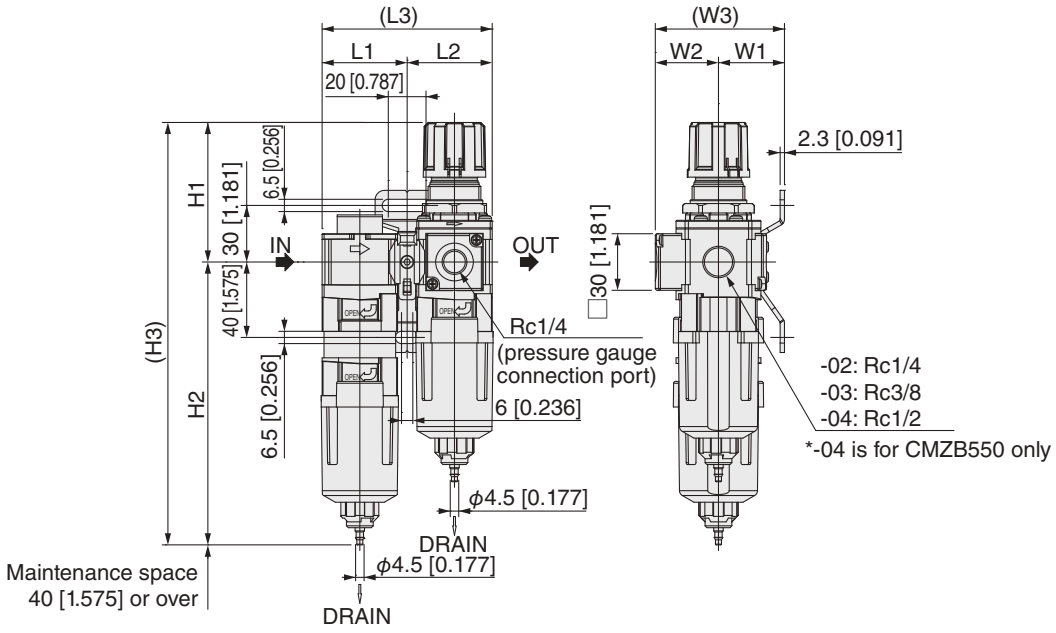
● CMZB440-[CRD] [RD]



● CMZB550-[CRD] [RD]

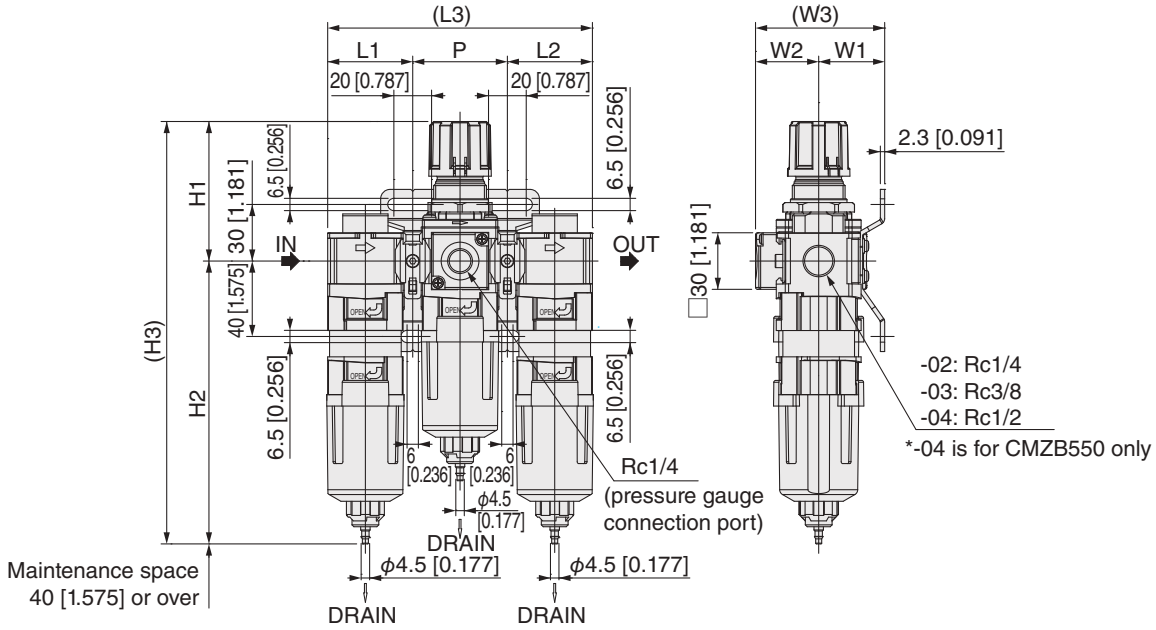


● CMZB440-[CR]
● CMZB550-[CR]



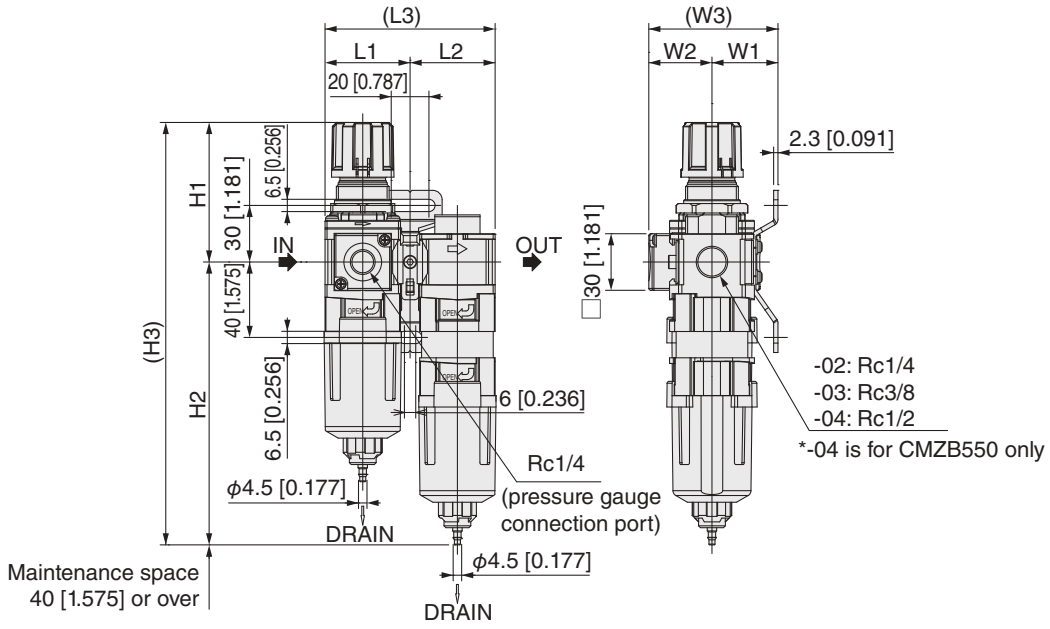
Combination type	L1	L2	L3	H1	H2	H3	W1	W2	W3
CMZB440	45.1 [1.776]	45.1 [1.776]	90.2 [3.551]	74 [2.913]	150 [5.906]	224 [8.819]	35 [1.378]	33.5 [1.319]	68.5 [2.697]
CMZB550	55.1 [2.169]	55.1 [2.169]	110.2 [4.339]	79.5 [3.130]	166 [6.535]	245.5 [9.665]	35 [1.378]	35 [1.378]	70 [2.756]

● CMZB440-[CRM] [CRD]
● CMZB550-[CRM] [CRD]



Combination type	L1	L2	L3	P	H1	H2	H3	W1	W2	W3
CMZB440	45.1 [1.776]	45.1 [1.776]	140.4 [5.528]	50.2 [1.976]	74 [2.913]	150 [5.906]	224 [8.819]	35 [1.378]	33.5 [1.319]	68.5 [2.697]
CMZB550	55.1 [2.169]	55.1 [2.169]	170.4 [6.709]	60.2 [2.370]	79.5 [3.130]	166 [6.535]	245.5 [9.665]	35 [1.378]	35 [1.378]	70 [2.756]

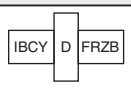
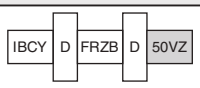
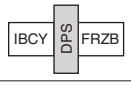
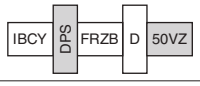
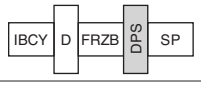
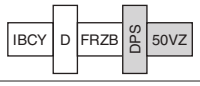
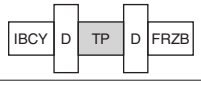
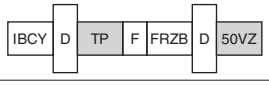
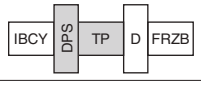
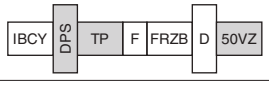
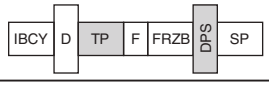
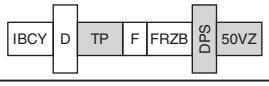
● CMZB440-[RM] [RD]
● CMZB550-[RM] [RD]

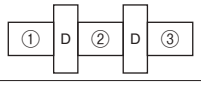
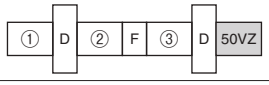
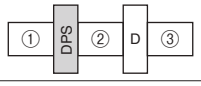
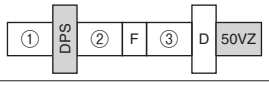
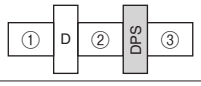
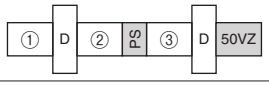
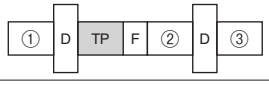
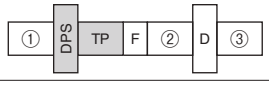
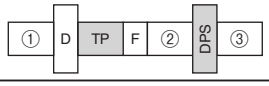
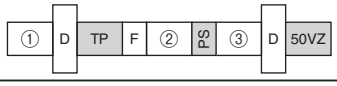


Combination type	L1	L2	L3	H1	H2	H3	W1	W2	W3
CMZB440	45.1 [1.776]	45.1 [1.776]	90.2 [3.551]	74 [2.913]	150 [5.906]	224 [8.819]	35 [1.378]	33.5 [1.319]	68.5 [2.697]
CMZB550	55.1 [2.169]	55.1 [2.169]	110.2 [4.339]	79.5 [3.130]	166 [6.535]	245.5 [9.665]	35 [1.378]	35 [1.378]	70 [2.756]

● **CMZB440·550** configuration diagram

: Connection fittings with brackets

Component	Options	Configuration diagram	Options	Configuration diagram
CR	No options		**-V**	
	-PSF		**-V -PSF**	
	-PSR		**-V -PSR**	
	-T		**-V -T**	
	-PSF -T		**-V -PSF -T**	
	-PSR -T		**-V -PSR -T**	

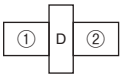
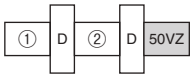
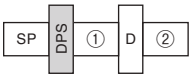
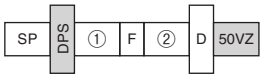
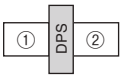
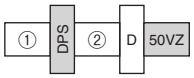
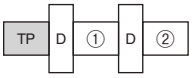
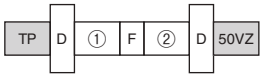
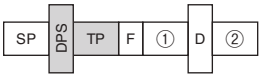
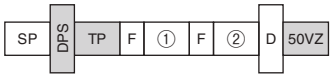
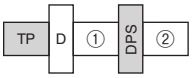
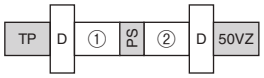
Component	Options	Configuration diagram	Options	Configuration diagram
CRM CRD	No options		**-V**	
	-PSF		**-V -PSF**	
	-PSR		**-V -PSR**	
	-T		**-V -T**	
	-PSF -T		**-V -PSF -T**	
	-PSR -T		**-V -PSR -T**	

Component	①	②	③
CRM	**IBCY**	**FRZB**	**MFZ**
CRD			**MMFZ**

F: F module (for connecting)
D: D module (for connecting (with bracket)
TP: Intermediate extraction block
SP: Piping adapter
PS: Pressure switch module
DPS: Pressure switch module (with bracket)
50VZ: Residual pressure exhaust valve

● **CMZB440·550** configuration diagram

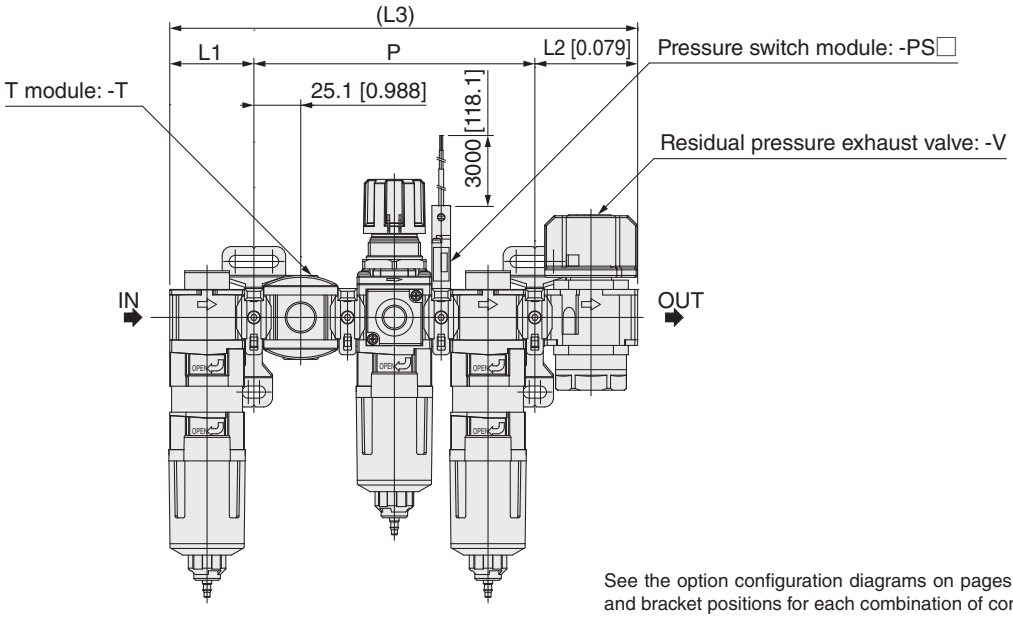
: Connection fittings with brackets

Component	Options	Configuration diagram	Options	Configuration diagram
RM **RD**	No options		**-V**	
	-PSF		**-V** **-PSF**	
	-PSR		**-V** **-PSR**	
	-T		**-V** **-T**	
	-PSF **-T**		**-V** **-PSF** **-T**	
	-PSR **-T**		**-V** **-PSR** **-T**	

Component	①	②
RM	**FRZB**	**MFZ**
RD		**MMFZ**

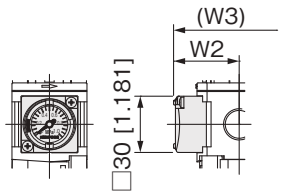
F: F module (for connecting)
D: D module (for connecting (with bracket)
TP: Intermediate extraction block
SP: Piping adapter
PS: Pressure switch module
DPS: Pressure switch module (with bracket)
50VZ: Residual pressure exhaust valve

● **CMZB440·550** Option dimension diagrams (mm [in.])



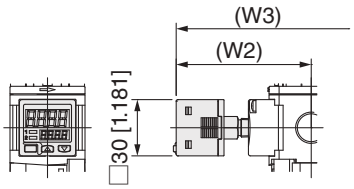
See the option configuration diagrams on pages 38-39 for option and bracket positions for each combination of components.

● Pressure gauge option



For **-G1C**

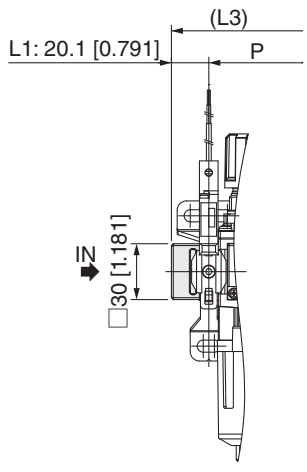
Combination type	**-G1C** □30 [1.181] integrated pressure gauge	
	W2	**W3**
CMZB440	35 [1.378]	70 [2.756]
CMZB550	36.5 [1.437]	71.5 [2.815]



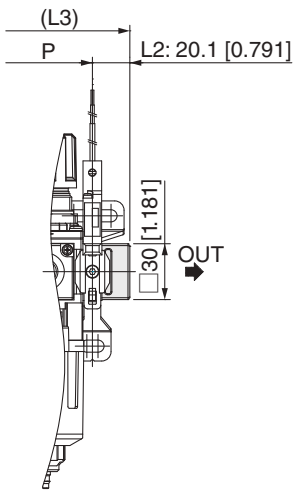
For **-GS6**

Combination type	**-GS6** Digital pressure gauge	
	W2	**W3**
CMZB440	72 [2.835]	107 [4.213]
CMZB550	73.5 [2.894]	108.5 [4.272]

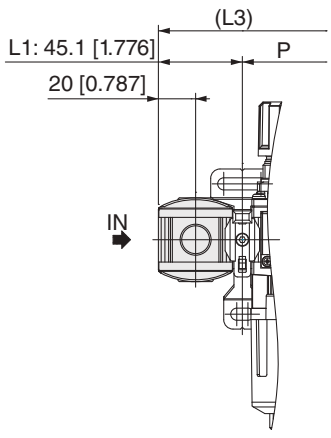
S When adapter is leading end
[RM] [RD]
: -PSF, -PSF-T, -V-PSF, -V-PSF-T



S When adapter is terminal
[CR]
: -PSR, -PSR-T



When T module is leading end
[RM] [RD]
: -T, -V-T, -PSR-T, -V-PSR-T



Tables of overall length (face to face) and mounting dimensions when option is selected

● **CMZB440·550** Option dimension tables (mm)

Combination type	Component	-V			-T			-PSF			-PSR		
		Residual pressure exhaust valve			T module			Pressure switch module			Pressure switch module		
		L2	L3	P	L1	L3	P	L1	L3	P	L2	L3	P
CMZB440	CR	55.1	150.4	50.2	45.1	140.4	50.2	45.1	90.2	—	20.1	115.4	50.2
	CRM, CRD		200.6	100.4		190.6	100.4		140.4	50.2	45.1	140.4	50.2
	RM, RD		150.4	50.2		140.4	50.2	20.1	115.4	50.2		90.2	—
CMZB550	CR	55.1	170.4	60.2	55.1	160.4	50.2	55.1	110.2	—	20.1	135.4	60.2
	CRM, CRD		230.6	120.4		220.6	110.4		170.4	60.2	55.1	170.4	60.2
	RM, RD		170.4	60.2	45.1	160.4	60.2	20.1	135.4	60.2		110.2	—

Combination type	Component	-V-PSF				-V-PSR		
		Residual pressure exhaust valve + Pressure switch module				Residual pressure exhaust valve + Pressure switch module		
		L1	L2	L3	P	L2	L3	P
CMZB440	CR	45.1	55.1	150.4	50.2	55.1	150.4	50.2
	CRM, CRD			200.6	100.4		200.6	100.4
	RM, RD	20.1		175.6			150.4	50.2
CMZB550	CR	55.1	55.1	170.4	60.2	55.1	170.4	60.2
	CRM, CRD			230.6	120.4		230.6	120.4
	RM, RD	20.1		195.6			170.4	60.2

Combination type	Component	-PSF-T			-PSR-T			
		Pressure switch module + T module			Pressure switch module + T module			
		L1	L3	P	L1	L2	L3	P
CMZB440	CR	45.1	140.4	50.2	45.1	20.1	165.6	100.4
	CRM, CRD		190.6	100.4		45.1	190.6	
	RM, RD	20.1	165.6				140.4	50.2
CMZB550	CR	55.1	160.4	50.2	55.1	20.1	185.6	110.4
	CRM, CRD		220.6	110.4		55.1	220.6	
	RM, RD	20.1	185.6		45.1		160.4	60.2

Combination type	Component	-V-T				-V-PSF-T				-V-PSR-T			
		Residual pressure exhaust valve + T module				Residual pressure exhaust valve + Pressure switch module + T module				Residual pressure exhaust valve + Pressure switch module + T module			
		L1	L2	L3	P	L1	L2	L3	P	L1	L2	L3	P
CMZB440	CR	45.1	55.1	200.6	100.4	45.1	55.1	200.6	100.4	45.1	55.1	200.6	100.4
	CRM, CRD			250.8	150.6			250.8	150.6			250.8	150.6
	RM, RD			200.6	100.4	20.1		225.8				200.6	100.4
CMZB550	CR	55.1	55.1	220.6	110.4	55.1	55.1	220.6	110.4	55.1	55.1	220.6	110.4
	CRM, CRD			280.8	170.6			280.8	170.6			280.8	170.6
	RM, RD	45.1		220.6	120.4	20.1		245.8		45.1		220.6	120.4

* The shaded dimensions are the same value as when there are no options.

Tables of overall length (face to face) and mounting dimensions when option is selected

● CMZB440·550 Option dimension tables (in.)

Combination type	Component	-V			-T			-PSF			-PSR		
		Residual pressure exhaust valve			T module			Pressure switch module			Pressure switch module		
		L2	L3	P	L1	L3	P	L1	L3	P	L2	L3	P
CMZB440	CR	2.169	5.921	1.976	1.776	5.528	1.976	1.776	3.551	—	0.791	4.543	1.976
	CRM, CRD		7.898	3.953		7.504	3.953		5.528	1.976	1.776	5.528	1.976
	RM, RD		5.921	1.976		5.528	1.976	0.791	4.543	1.976		3.551	—
CMZB550	CR	2.169	6.709	2.370	2.169	6.315	1.976	2.169	4.339	—	0.791	5.331	2.370
	CRM, CRD		9.079	4.740		8.685	4.346		6.709	2.370	2.169	6.709	2.370
	RM, RD		6.709	2.370	1.776	6.315	2.370	0.791	5.331	2.370		4.339	—

Combination type	Component	-V-PSF				-V-PSR		
		Residual pressure exhaust valve + Pressure switch module				Residual pressure exhaust valve + Pressure switch module		
		L1	L2	L3	P	L2	L3	P
CMZB440	CR	1.776	2.169	5.921	1.976	2.169	5.921	1.976
	CRM, CRD			7.898	3.953		7.898	3.953
	RM, RD	0.791		6.913			5.921	1.976
CMZB550	CR	2.169	2.169	6.709	2.370	2.169	6.709	2.370
	CRM, CRD			9.079	4.740		9.079	4.740
	RM, RD	0.791		7.701			6.709	2.370

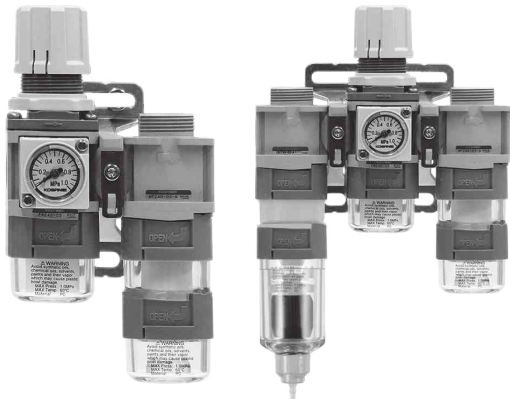
Combination type	Component	-PSF-T			-PSR-T			
		Pressure switch module + T module			Pressure switch module + T module			
		L1	L3	P	L1	L2	L3	P
CMZB440	CR	1.776	5.528	1.976	1.776	0.791	6.520	3.953
	CRM, CRD		7.504	3.953		1.776	7.504	
	RM, RD	0.791	6.520				5.528	1.976
CMZB550	CR	2.169	6.315	1.976	2.169	0.791	7.307	4.346
	CRM, CRD		8.685	4.346		2.169	8.685	
	RM, RD	0.791	7.307		1.776		6.315	2.370

Combination type	Component	-V-T				-V-PSF-T				-V-PSR-T			
		Residual pressure exhaust valve + T module				Residual pressure exhaust valve + Pressure switch module + T module				Residual pressure exhaust valve + Pressure switch module + T module			
		L1	L2	L3	P	L1	L2	L3	P	L1	L2	L3	P
CMZB440	CR	1.776	2.169	7.898	3.953	1.776	2.169	7.898	3.953	1.776	2.169	7.898	3.953
	CRM, CRD			9.874	5.929			9.874	5.929			9.874	5.929
	RM, RD			7.898	3.953	0.791		8.890				7.898	3.953
CMZB550	CR	2.169	2.169	8.685	4.346	2.169	2.169	8.685	4.346	2.169	2.169	8.685	4.346
	CRM, CRD			11.055	6.717			11.055	6.717			11.055	6.717
	RM, RD	1.776		8.685	4.740	0.791		9.677		1.776		8.685	4.740

* The shaded dimensions are the same value as when there are no options.

CMZ

High-End Compact Combinations



Specifications

Model	Standard	CMZ440	CMZ540	CMZ550
	For low pressure	CMZ441	CMZ541	CMZ551
Media		Air		
Port size	Rc	1/8, 1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2
Maximum operating pressure	MPa [psi]	1.0 [145]		
Proof pressure	MPa [psi]	1.5 [218]		
Operating pressure range MPa [psi]	Standard	0.05 to 0.85 [7 to 123]		
	For low pressure	0.05 to 0.40 [7 to 58]		
Operating temperature range (atmospheric and medium)	℃ [°F]	5 to 60 [41 to 140] (medium must not freeze)		

Specifications by component

● CMZ44□/CMZ54□/CMZ55□

Component model code	CR(Blank)Note 3			CRM			CRD		
Combination type	CMZ44□	CMZ54□	CMZ55□	CMZ44□	CMZ54□	CMZ55□	CMZ44□	CMZ54□	CMZ55□
Component combinations	IBCY40	IBCY50		IBCY40	IBCY50		IBCY40	IBCY50	
	FRZ4□		FRZ5□	FRZ4□		FRZ5□	FRZ4□		FRZ5□
	—			MFZ40	MFZ50		MMFZ40	MMFZ50	
Water separation rate %	99 or more (under rated conditions)								
Filtration μm	5			0.3			0.01		
Particle filtering efficiency %	—			99.9			99.9999		
Secondary oil mist concentrationNote 1 mg/m³	—			1.0 or less			0.01 or less		
Maximum flow rateNote 2 L/min (ANR) [ft³/min (SCFM)]	1500 [52.980]	1900 [67.108]	2500 [88.300]	300 [10.596]	750 [26.490]		150 [5.298]	400 [14.128]	
Weight kg [lb]	0.46 [1.014]	0.56 [1.235]	0.65 [1.433]	0.69 [1.521]	0.9 [1.985]	0.99 [2.183]	0.69 [1.521]	0.9 [1.985]	0.99 [2.183]

Component model code	RM			RD		
Combination type	CMZ44□	CMZ54□	CMZ55□	CMZ44□	CMZ54□	CMZ55□
Component combinations	FRZ4□		FRZ5□	FRZ4□		FRZ5□
	MFZ40	MFZ50		MMFZ40	MMFZ50	
Filtration μm	0.3			0.01		
Particle filtering efficiency %	99.9			99.9999		
Secondary oil mist concentrationNote 1 mg/m³	1.0 or less			0.01 or less		
Maximum flow rateNote 2 L/min (ANR) [ft³/min (SCFM)]	300 [10.596]	750 [26.490]		150 [5.298]	400 [14.128]	
Weight kg [lb]	0.43 [0.948]	0.54 [1.191]	0.63 [1.389]	0.43 [0.948]	0.54 [1.191]	0.63 [1.389]

Note 1: Value when the primary-side oil mist concentration is 30 mg/m³.
2: Value when the primary-side pressure is 0.7 MPa [102 psi] and regulator set pressure is 0.6 MPa [87 psi].
3: If the component model code is left [Blank], it will be the same product as [CR].
4: If CR (blank), CRM, or CRD is selected as the component model code, then ensure that the supply pressure is above 0.15 MPa [22 psi] if auto drain is selected as an option. (Supply pressure is needed to operate the auto drain.)
5: For details about each combined component, refer to the page for that product in this catalog.

● High-End Compact Combinations

CMZ □ □ – □ – □ – □ – □ – □ □ – □ – □ – □

Direction of flow
Blank — Specifications (left to right)
R — Reverse flow (right to left)

Bowl specifications
Blank — No bowl selected (Components: when RM or RD is selected)

A — Auto drain N.O.
C — Auto drain N.C.
N — Drain cock with fitting
(If the component is left blank or either CR, CRM, or CRD, one of these must be selected)

* A, C, and N are the specifications for IBCY in the configuration. (Components: RM and RD cannot be selected)
The MFZ and MMFZ are short bowl specifications for all selection codes.

T module
Blank —None
T —Just before regulator
* For models with pressure switch module (PSF, PSW), installation is between the switch and the regulator

Lead wire length
A —1000 mm [39.370 in.]
B —3000 mm [118.1 in.]

Pressure switch module*
Blank — None
PSF — Just before regulator
PSR — Just after regulator
PSW — Just before/after regulator
(The length of lead wires must be selected.)

* Pressure switch modules have a pressure setting range of 0.1 to 0.4 MPa [15 to 58 psi].
Check the control method before selection.
See page 144 for details about specifications.

Pressure gauge specifications
Blank — No pressure gauge (with pressure gauge connection port, Rc1/4)
GN — No pressure gauge (no pressure gauge connection port)
G1C — 1 MPa [145 psi] specifications, □30 [1.181] integrated pressure gauge
G4C — 0.4 MPa [58 psi] specifications, □30 [1.181] integrated pressure gauge
G1 — 1 MPa [145 psi] specifications, ϕ40 [1.575] pressure gauge
G3 — 0.3 MPa [44 psi] specifications, ϕ40 [1.575] pressure gauge
G1S — 1 MPa [145 psi] specifications, ϕ40 [1.575] stainless steel bourdon tube pressure gauge
G3S — 0.3 MPa [44 psi] specifications, ϕ40 [1.575] stainless steel bourdon tube pressure gauge
GS1A — 1 MPa [145 psi] specifications □50 [1.969] pressure gauge with built-in switch, lead wire system, for 24 VDC
GS1B — 1 MPa [145 psi] specifications □50 [1.969] pressure gauge with built-in switch, lead wire system, for 100 VAC, 200 VAC
GS1C — 1 MPa [145 psi] specifications □50 [1.969] pressure gauge with built-in switch, with DIN system contacts, for 24 VDC
GS1D — 1 MPa [145 psi] specifications □50 [1.969] pressure gauge with built-in switch, DIN system contacts, for 100 VAC, 200 VAC
GS6 — 1 MPa [145 psi] specifications, digital pressure switch

Port size
01 — Rc1/8 (only CMZ44□ can be selected)
02 — Rc1/4
03 — Rc3/8
04 — Rc1/2 (only CMZ55□ can be selected)

Residual pressure exhaust valve
Blank — None
V — With residual pressure exhaust valve (installed at secondary-side terminal)

Component

Code		Component		
Blank	–	IBCY	FRZ	—
CR	–	IBCY	FRZ	—
CRM	–	IBCY	FRZ	MFZ
CRD	–	IBCY	FRZ	MMFZ
RM	–	—	FRZ	MFZ
RD	–	—	FRZ	MMFZ

Note: If the component model code is left [Blank], it will be the same product as [CR].

Pressure specifications
0 — Standard
1 — Low pressure specification

Body size

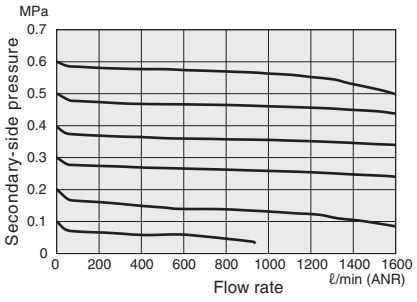
Code		IBCY·MFZ·MMFZ body size	FRZ body size
44	–	40 size	40 size
54		50 size	40 size
55	–	50 size	50 size

CMZ — High-End Compact Combinations

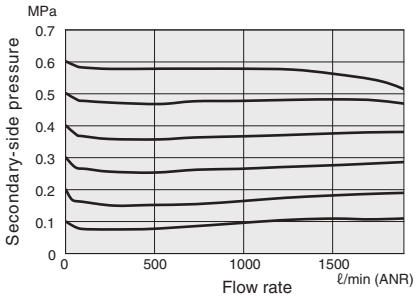
Flow rate characteristics

* These graphs show the maximum pipe diameters.

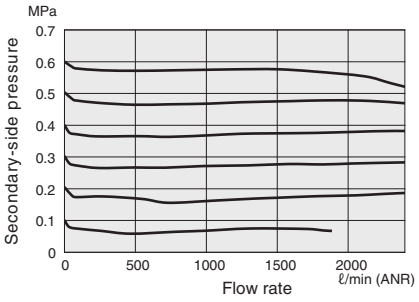
● CMZ44□-[CR]



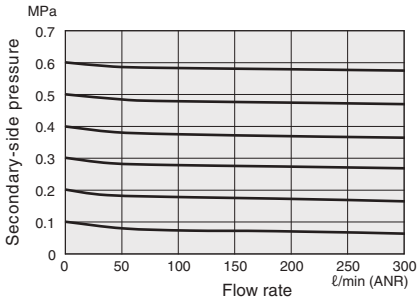
● CMZ54□-[CR]



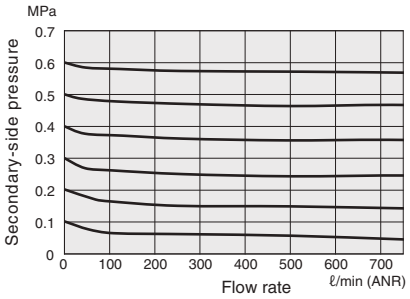
● CMZ55□-[CR]



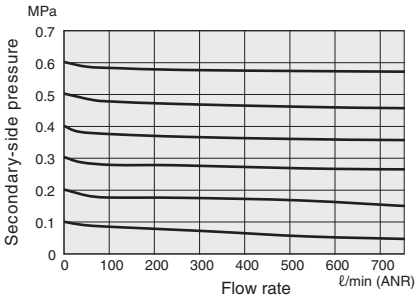
● CMZ44□-[CRM] [RM]



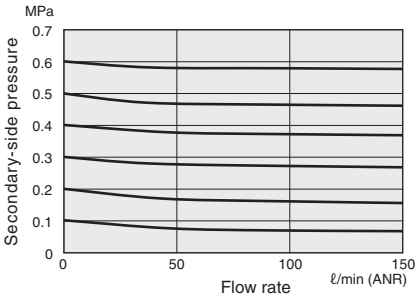
● CMZ54□-[CRM] [RM]



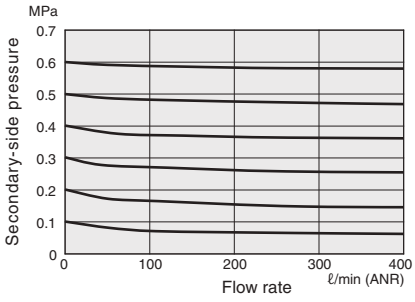
● CMZ55□-[CRM] [RM]



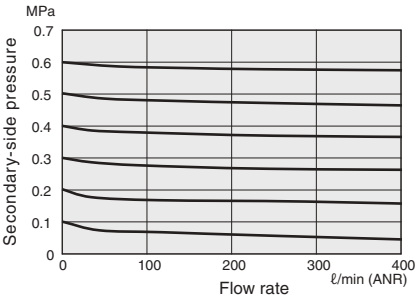
● CMZ44□-[CRD] [RD]



● CMZ54□-[CRD] [RD]

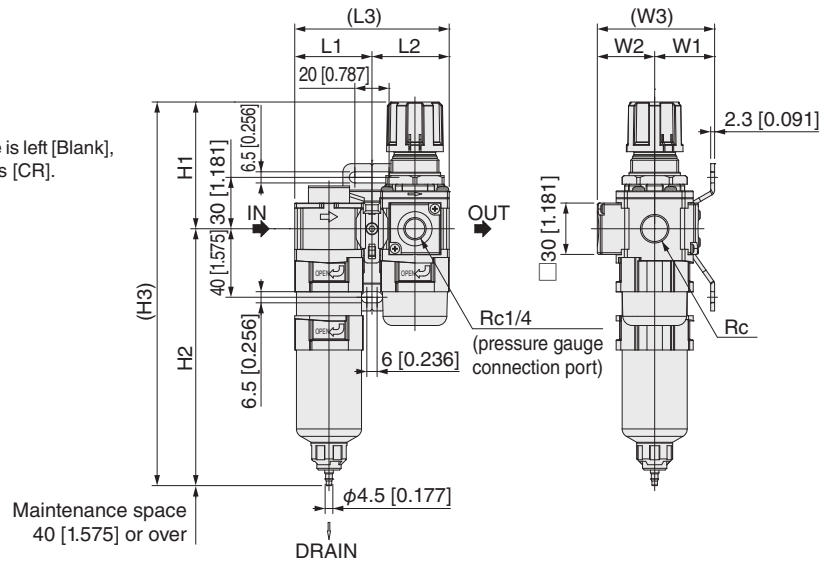


● CMZ55□-[CRD] [RD]



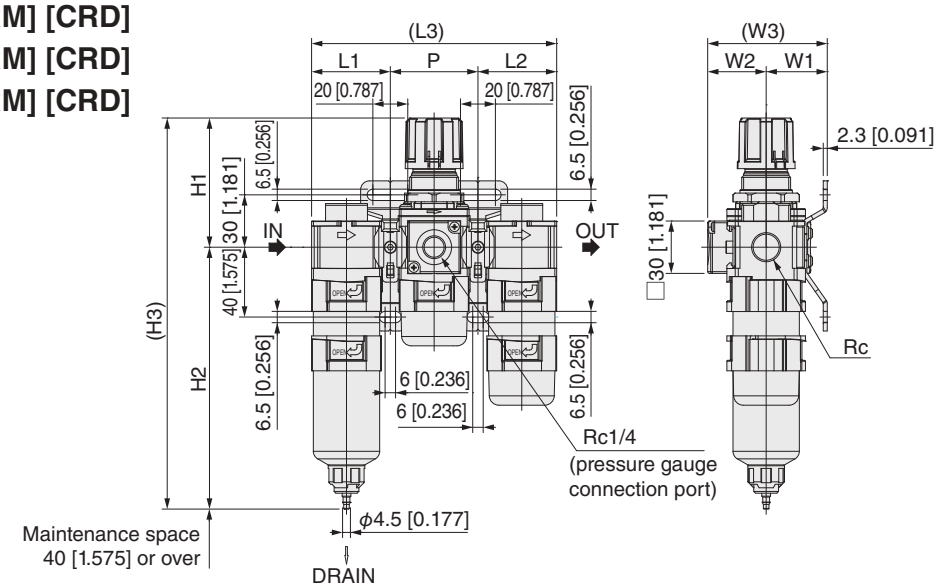
● CMZ44□-[CR]
● CMZ54□-[CR]
● CMZ55□-[CR]

* If the component model code is left [Blank], it will be the same product as [CR].



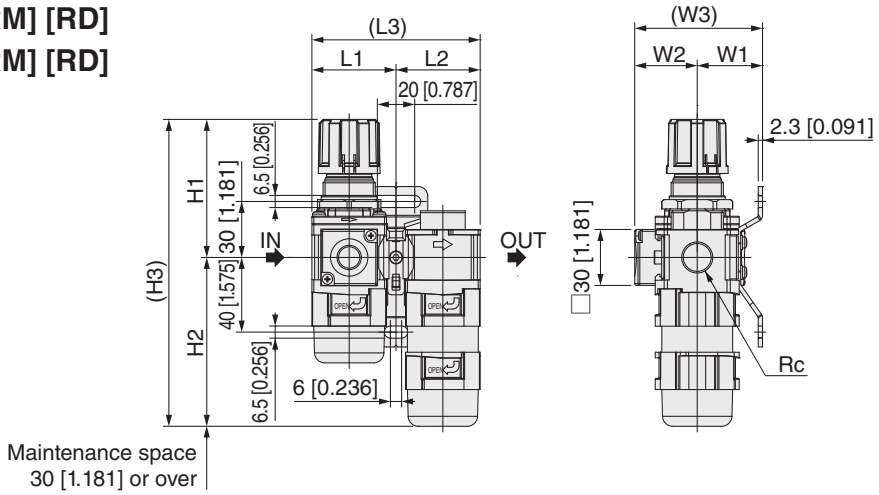
Combination type	L1	L2	L3	H1	H2	H3	W1	W2	W3	Rc
CMZ44□	45.1 [1.776]	45.1 [1.776]	90.2 [3.551]	74 [2.913]	150 [5.906]	224 [8.819]	35 [1.378]	33.5 [1.319]	68.5 [2.697]	01: Rc1/8 02: Rc1/4 03: Rc3/8
CMZ54□	55.1 [2.169]	45.1 [1.776]	100.2 [3.945]	74 [2.913]	166 [6.535]	240 [9.449]	35 [1.378]	33.5 [1.319]	68.5 [2.697]	02: Rc1/4 03: Rc3/8
CMZ55□	55.1 [2.169]	55.1 [2.169]	110.2 [4.339]	79.5 [3.130]	166 [6.535]	245.5 [9.665]	35 [1.378]	35 [1.378]	70 [2.756]	02: Rc1/4 03: Rc3/8 04: Rc1/2

● CMZ44□-[CRM] [CRD]
● CMZ54□-[CRM] [CRD]
● CMZ55□-[CRM] [CRD]



Combination type	L1	L2	L3	P	H1	H2	H3	W1	W2	W3	Rc
CMZ44□	45.1 [1.776]	45.1 [1.776]	140.4 [5.528]	50.2 [1.976]	74 [2.913]	150 [5.906]	224 [8.819]	35 [1.378]	33.5 [1.319]	68.5 [2.697]	01: Rc1/8 02: Rc1/4 03: Rc3/8
CMZ54□	55.1 [2.169]	55.1 [2.169]	160.4 [6.315]	50.2 [1.976]	74 [2.913]	166 [6.535]	240 [9.449]	35 [1.378]	33.5 [1.319]	68.5 [2.697]	02: Rc1/4 03: Rc3/8
CMZ55□	55.1 [2.169]	55.1 [2.169]	170.4 [6.709]	60.2 [2.370]	79.5 [3.130]	166 [6.535]	245.5 [9.665]	35 [1.378]	35 [1.378]	70 [2.756]	02: Rc1/4 03: Rc3/8 04: Rc1/2

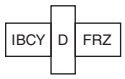
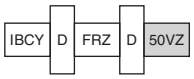
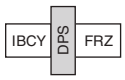
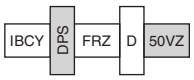
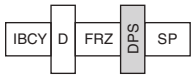
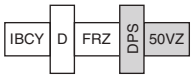
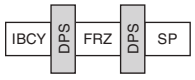
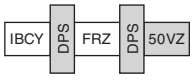
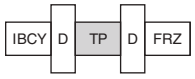
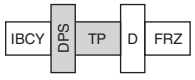
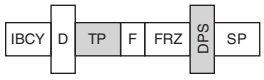
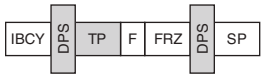
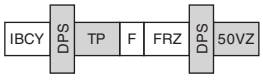
- **CMZ44□-[RM] [RD]**
- **CMZ54□-[RM] [RD]**
- **CMZ55□-[RM] [RD]**

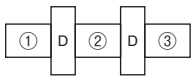
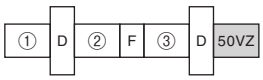
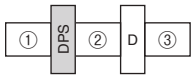
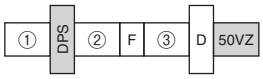
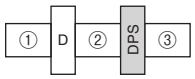
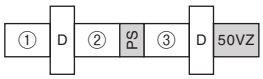
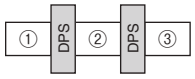
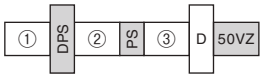
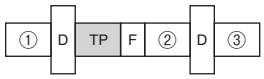
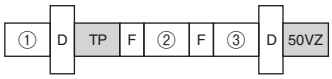
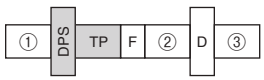
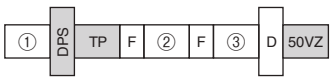
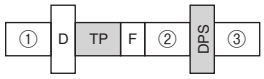
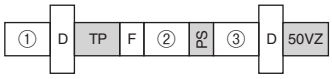
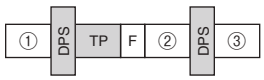
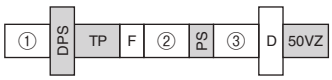


Combination type	L1	L2	L3	H1	H2	H3	W1	W2	W3	Rc
CMZ44□	45.1 [1.776]	45.1 [1.776]	90.2 [3.551]	74 [2.913]	90.5 [3.563]	164.5 [6.476]	35 [1.378]	33.5 [1.319]	68.5 [2.697]	01: Rc1/8 02: Rc1/4 03: Rc3/8
CMZ54□	45.1 [1.776]	55.1 [2.169]	100.2 [3.945]	74 [2.913]	118 [4.646]	192 [7.559]	35 [1.378]	33.5 [1.319]	68.5 [2.697]	02: Rc1/4 03: Rc3/8
CMZ55□	55.1 [2.169]	55.1 [2.169]	110.2 [4.339]	79.5 [3.130]	118 [4.646]	197.5 [7.776]	35 [1.378]	35 [1.378]	70 [2.756]	02: Rc1/4 03: Rc3/8 04: Rc1/2

● CMZ44□·54□·55□ configuration diagram

: Connection fittings with brackets

Component	Options	Configuration diagram	Options	Configuration diagram
CR (Blank)	No options		-V	
	-PSF		-V -PSF	
	-PSR		-V -PSR	
	-PSW		-V -PSW	
	-T		-V -T	
	-PSF -T		-V -PSF -T	
	-PSR -T		-V -PSR -T	
	-PSW -T		-V -PSW -T	

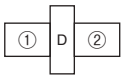
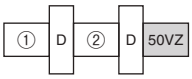
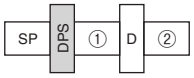
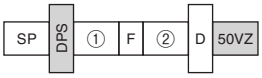
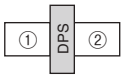
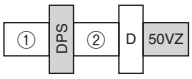
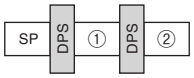
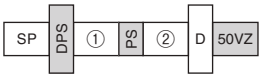
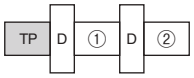
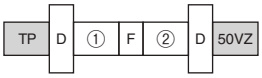
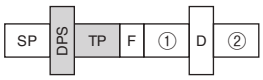
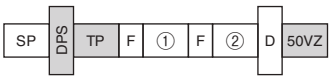
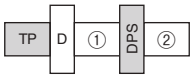
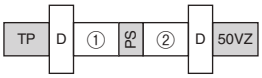
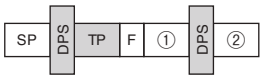
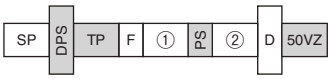
Component	Options	Configuration diagram	Options	Configuration diagram
CRM CRD	No options		-V	
	-PSF		-V -PSF	
	-PSR		-V -PSR	
	-PSW		-V -PSW	
	-T		-V -T	
	-PSF -T		-V -PSF -T	
	-PSR -T		-V -PSR -T	
	-PSW -T		-V -PSW -T	

Component	①	②	③
CRM	IBCY	FRZ	MFZ
CRD			MMFZ

F: F module (for connecting)
D: D module (for connecting (with bracket)
TP: Intermediate extraction block
SP: Piping adapter
PS: Pressure switch module
DPS: Pressure switch module (with bracket)
50VZ: Residual pressure exhaust valve

● CMZ44□·54□·55□ configuration diagram

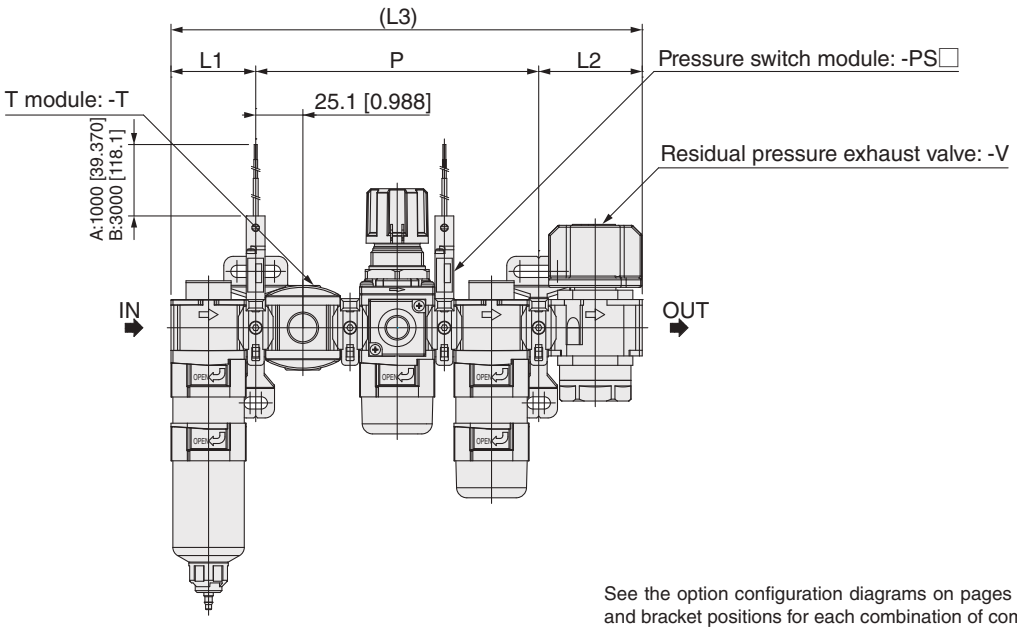
: Connection fittings with brackets

Component	Options	Configuration diagram	Options	Configuration diagram
RM RD	No options		-V	
	-PSF		-V -PSF	
	-PSR		-V -PSR	
	-PSW		-V -PSW	
	-T		-V -T	
	-PSF -T		-V -PSF -T	
	-PSR -T		-V -PSR -T	
	-PSW -T		-V -PSW -T	

Component	①	②
RM	FRZ	MFZ
RD		MMFZ

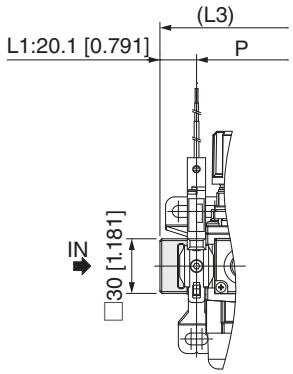
F: F module (for connecting)
D: D module (for connecting (with bracket)
TP: Intermediate extraction block
SP: Piping adapter
PS: Pressure switch module
DPS: Pressure switch module (with bracket)
50VZ: Residual pressure exhaust valve

● CMZ44□·54□·55□ Option dimension diagrams (mm [in.])

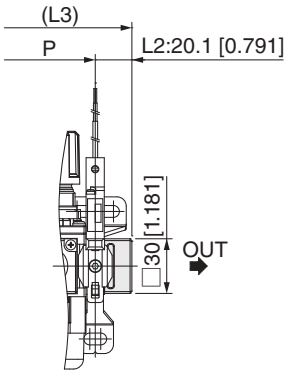


See the option configuration diagrams on pages 48-49 for option and bracket positions for each combination of components.

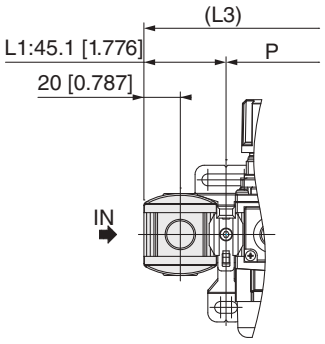
S When adapter is leading end
[RM] [RD]
: -PSF, -PSF-T, -V-PSF, -V-PSF-T



S When adapter is terminal
[CR]
: -PSR, -PSR-T

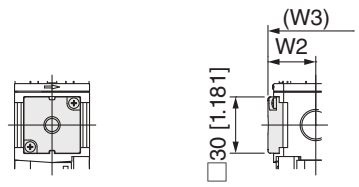


When T module is leading end
[RM] [RD]
: -T, -V-T, -PSR-T, -V-PSR-T

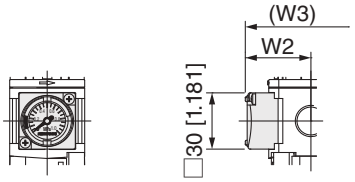


● CMZ44□·54□·55□ Option dimension diagrams (mm [in.])

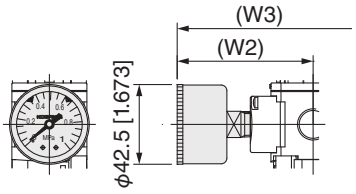
● Pressure gauge option



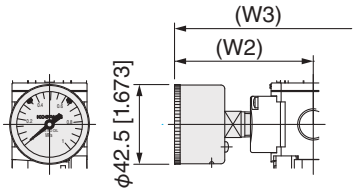
For **-GN**



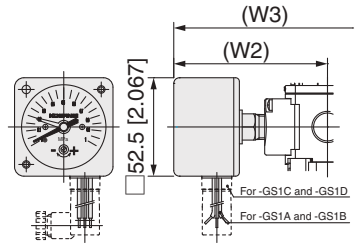
For **-G1C**, **-G4C**



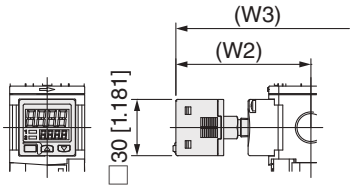
For **-G1**, **-G3**



For **-G1S** and **-G3S**



For **-GS1A**, **-GS1B**, **-GS1C** and **-GS1D**



For **-GS6**

Combination type	-GN		-G1C, -G4C		-G1, -G3		-G1S, -G3S		-GS1□		-GS6	
	No pressure gauge		□30 [1.181] integrated pressure gauge		ϕ40 [1.575] pressure gauge		ϕ40 [1.575] Stainless steel bourdon tube pressure gauge		□50 [1.969] Pressure gauge with built-in switch		Digital pressure gauge	
	W2	**W3**	**W2**	**W3**	**W2**	**W3**	**W2**	**W3**	**W2**	**W3**	**W2**	**W3**
CMZ44□	25.5 [1.004]	60.5 [2.382]	35 [1.378]	70 [2.756]	72.5 [2.854]	107.5 [4.232]	74 [2.913]	109 [4.291]	82 [3.228]	117 [4.606]	72 [2.835]	107 [4.213]
CMZ54□	25.5 [1.004]	60.5 [2.382]	35 [1.378]	70 [2.756]	72.5 [2.854]	107.5 [4.232]	74 [2.913]	109 [4.291]	82 [3.228]	117 [4.606]	72 [2.835]	107 [4.213]
CMZ55□	27 [1.063]	62 [2.441]	36.5 [1.437]	71.5 [2.815]	74 [2.913]	109 [4.291]	75.5 [2.972]	110.5 [4.350]	83.5 [3.287]	118.5 [4.665]	73.5 [2.894]	108.5 [4.272]

Tables of overall length (face to face) and mounting dimensions when option is selected

● CMZ44□·54□·55□ Option dimension tables (mm)

Combination type	Component	-V			-T			-PSF			-PSR			-PSW			
		Residual pressure exhaust valve			T module			Pressure switch module			Pressure switch module			Pressure switch module			
		L2	L3	P	L1	L3	P	L1	L3	P	L2	L3	P	L1	L2	L3	P
CMZ44□	CR (Blank)	55.1	150.4	50.2	45.1	140.4	50.2	45.1	90.2	—	20.1	115.4	50.2	45.1	20.1	115.4	50.2
	CRM, CRD		200.6	100.4		190.6	100.4		140.4	50.2	45.1	140.4	50.2		45.1	140.4	50.2
	RM, RD		150.4	50.2		140.4	50.2	20.1	115.4	50.2		90.2	—	20.1		115.4	50.2
CMZ54□	CR (Blank)	55.1	160.4	50.2	55.1	150.4	50.2	55.1	100.2	—	20.1	125.4	50.2	55.1	20.1	125.4	50.2
	CRM, CRD	55.1	220.6	110.4		210.6	100.4		160.4	50.2	55.1	160.4	50.2		55.1	160.4	50.2
	RM, RD		160.4	60.2	45.1	150.4	50.2	20.1	125.4	50.2		100.2	—	20.1		125.4	50.2
CMZ55□	CR (Blank)	55.1	170.4	60.2	55.1	160.4	50.2	55.1	110.2	—	20.1	135.4	60.2	55.1	20.1	135.4	60.2
	CRM, CRD		230.6	120.4		220.6	110.4		170.4	60.2	55.1	170.4	60.2		55.1	170.4	60.2
	RM, RD		170.4	60.2	45.1	160.4	60.2	20.1	135.4	60.2		110.2	—	20.1		135.4	60.2

Combination type	Component	-V-PSF				-V-PSR			-V-PSW			
		Residual pressure exhaust valve + Pressure switch module				Residual pressure exhaust valve + Pressure switch module			Residual pressure exhaust valve + Pressure switch module			
		L1	L2	L3	P	L2	L3	P	L1	L2	L3	P
CMZ44□	CR (Blank)	45.1	55.1	150.4	50.2	55.1	150.4	50.2	45.1	55.1	150.4	50.2
	CRM, CRD			200.6	100.4		200.6	100.4			200.6	100.4
	RM, RD	20.1		175.6			150.4	50.2	20.1		175.6	
CMZ54□	CR (Blank)	55.1	55.1	160.4	50.2	55.1	160.4	50.2	55.1	55.1	160.4	50.2
	CRM, CRD		55.1	220.6	110.4	55.1	220.6	110.4		55.1	220.6	110.4
	RM, RD	20.1		185.6			160.4	60.2	20.1		185.6	
CMZ55□	CR (Blank)	55.1	55.1	170.4	60.2	55.1	170.4	60.2	55.1	55.1	170.4	60.2
	CRM, CRD			230.6	120.4		230.6	120.4			230.6	120.4
	RM, RD	20.1		195.6			170.4	60.2	20.1		195.6	

Combination type	Component	-PSF-T			-PSR-T				-PSW-T			
		Pressure switch module + T module			Pressure switch module + T module				Pressure switch module + T module			
		L1	L3	P	L1	L2	L3	P	L1	L2	L3	P
CMZ44□	CR (Blank)	45.1	140.4	50.2	45.1	20.1	165.6	100.4	45.1	20.1	165.6	100.4
	CRM, CRD		190.6	100.4		45.1	190.6			45.1	190.6	
	RM, RD	20.1	165.6				140.4	50.2	20.1		165.6	
CMZ54□	CR (Blank)	55.1	150.4	50.2	55.1	20.1	175.6	100.4	55.1	20.1	175.6	100.4
	CRM, CRD		210.6	100.4		55.1	210.6			55.1	210.6	
	RM, RD	20.1	175.6		45.1		150.4	50.2	20.1		175.6	
CMZ55□	CR (Blank)	55.1	160.4	50.2	55.1	20.1	185.6	110.4	55.1	20.1	185.6	110.4
	CRM, CRD		220.6	110.4		55.1	220.6			55.1	220.6	
	RM, RD	20.1	185.6		45.1		160.4	60.2	20.1		185.6	

Combination type	Component	-V-T				-V-PSF-T				-V-PSR-T				-V-PSW-T			
		Residual pressure exhaust valve + T module				Residual pressure exhaust valve + Pressure switch module + T module				Residual pressure exhaust valve + Pressure switch module + T module				Residual pressure exhaust valve + Pressure switch module + T module			
		L1	L2	L3	P	L1	L2	L3	P	L1	L2	L3	P	L1	L2	L3	P
CMZ44□	CR (Blank)	45.1	55.1	200.6	100.4	45.1	55.1	200.6	100.4	45.1	55.1	200.6	100.4	45.1	55.1	200.6	100.4
	CRM, CRD			250.8	150.6			250.8	150.6			250.8	150.6			250.8	150.6
	RM, RD			200.6	100.4	20.1		225.8				200.6	100.4	20.1		225.8	
CMZ54□	CR (Blank)	55.1	55.1	210.6	100.4	55.1	55.1	210.6	100.4	55.1	55.1	210.6	100.4	55.1	55.1	210.6	100.4
	CRM, CRD		55.1	270.8	160.6		55.1	270.8	160.6		55.1	270.8	160.6		55.1	270.8	160.6
	RM, RD	45.1		210.6	110.4	20.1		235.8		45.1		210.6	110.4	20.1		235.8	
CMZ55□	CR (Blank)	55.1	55.1	220.6	110.4	55.1	55.1	220.6	110.4	55.1	55.1	220.6	110.4	55.1	55.1	220.6	110.4
	CRM, CRD			280.8	170.6			280.8	170.6			280.8	170.6			280.8	170.6
	RM, RD	45.1		220.6	120.4	20.1		245.8		45.1		220.6	120.4	20.1		245.8	

* The shaded dimensions are the same value as when there are no options.

Tables of overall length (face to face) and mounting dimensions when option is selected

● CMZ44□·54□·55□ Option dimension tables (in.)

Combination type	Component	-V			-T			-PSF			-PSR			-PSW			
		Residual pressure exhaust valve			T module			Pressure switch module			Pressure switch module			Pressure switch module			
		L2	L3	P	L1	L3	P	L1	L3	P	L2	L3	P	L1	L2	L3	P
CMZ44□	CR (Blank)	2.169	5.921	1.976	1.776	5.528	1.976	1.776	3.551	—	0.791	4.543	1.976	1.776	0.791	4.543	1.976
	CRM, CRD		7.898	3.953		7.504	3.953		5.528	1.976	1.776	5.528	1.976		1.776	5.528	1.976
	RM, RD		5.921	1.976		5.528	1.976	0.791	4.543	1.976		3.551	—	0.791		4.543	1.976
CMZ54□	CR (Blank)	2.169	6.315	1.976	2.169	5.921	1.976	2.169	3.945	—	0.791	4.937	1.976	2.169	0.791	4.937	1.976
	CRM, CRD	2.169	8.685	4.346		8.291	3.953		6.315	1.976	2.169	6.315	1.976		2.169	6.315	1.976
	RM, RD		6.315	2.370	1.776	5.921	1.976	0.791	4.937	1.976		3.945	—	0.791		4.937	1.976
CMZ55□	CR (Blank)	2.169	6.709	2.370	2.169	6.315	1.976	2.169	4.339	—	0.791	5.331	2.370	2.169	0.791	5.331	2.370
	CRM, CRD		9.079	4.740		8.685	4.346		6.709	2.370	2.169	6.709	2.370		2.169	6.709	2.370
	RM, RD		6.709	2.370	1.776	6.315	2.370	0.791	5.331	2.370		4.339	—	0.791		5.331	2.370

Combination type	Component	-V-PSF				-V-PSR			-V-PSW			
		Residual pressure exhaust valve + Pressure switch module				Residual pressure exhaust valve + Pressure switch module			Residual pressure exhaust valve + Pressure switch module			
		L1	L2	L3	P	L2	L3	P	L1	L2	L3	P
CMZ44□	CR (Blank)	1.776	2.169	5.921	1.976	2.169	5.921	1.976	1.776	2.169	5.921	1.976
	CRM, CRD			7.898	3.953		7.898	3.953			7.898	3.953
	RM, RD	0.791		6.913			5.921	1.976	0.791		6.913	
CMZ54□	CR (Blank)	2.169	2.169	6.315	1.976	2.169	6.315	1.976	2.169	2.169	6.315	1.976
	CRM, CRD		2.169	8.685	4.346	2.169	8.685	4.346		2.169	8.685	4.346
	RM, RD	0.791		7.307			6.315	2.370	0.791		7.307	
CMZ55□	CR (Blank)	2.169	2.169	6.709	2.370	2.169	6.709	2.370	2.169	2.169	6.709	2.370
	CRM, CRD			9.079	4.740		9.079	4.740			9.079	4.740
	RM, RD	0.791		7.701			6.709	2.370	0.791		7.701	

Combination type	Component	-PSF-T			-PSR-T				-PSW-T			
		Pressure switch module + T module			Pressure switch module + T module				Pressure switch module + T module			
		L1	L3	P	L1	L2	L3	P	L1	L2	L3	P
CMZ44□	CR (Blank)	1.776	5.528	1.976	1.776	0.791	6.520	3.953	1.776	0.791	6.520	3.953
	CRM, CRD		7.504	3.953		1.776	7.504			1.776	7.504	
	RM, RD	0.791	6.520				5.528	1.976	0.791		6.520	
CMZ54□	CR (Blank)	2.169	5.921	1.976	2.169	0.791	6.913	3.953	2.169	0.791	6.913	3.953
	CRM, CRD		8.291	3.953		2.169	8.291			2.169	8.291	
	RM, RD	0.791	6.913		1.776		5.921	1.976	0.791		6.913	
CMZ55□	CR (Blank)	2.169	6.315	1.976	2.169	0.791	7.307	4.346	2.169	0.791	7.307	4.346
	CRM, CRD		8.685	4.346		2.169	8.685			2.169	8.685	
	RM, RD	0.791	7.307		1.776		6.315	2.370	0.791		7.307	

Combination type	Component	-V-T				-V-PSF-T				-V-PSR-T				-V-PSW-T			
		Residual pressure exhaust valve + T module				Residual pressure exhaust valve + Pressure switch module + T module				Residual pressure exhaust valve + Pressure switch module + T module				Residual pressure exhaust valve + Pressure switch module + T module			
		L1	L2	L3	P	L1	L2	L3	P	L1	L2	L3	P	L1	L2	L3	P
CMZ44□	CR (Blank)	1.776	2.169	7.898	3.953	1.776	2.169	7.898	3.953	1.776	2.169	7.898	3.953	1.776	2.169	7.898	3.953
	CRM, CRD			9.874	5.929			9.874	5.929			9.874	5.929			9.874	5.929
	RM, RD			7.898	3.953	0.791		8.890				7.898	3.953	0.791		8.890	
CMZ54□	CR (Blank)	2.169	2.169	8.291	3.953	2.169	2.169	8.291	3.953	2.169	2.169	8.291	3.953	2.169	2.169	8.291	3.953
	CRM, CRD		2.169	10.661	6.323		2.169	10.661	6.323		2.169	10.661	6.323	2.169	2.169	10.661	6.323
	RM, RD	1.776		8.291	4.346	0.791		9.283		1.776		8.291	4.346	0.791		9.283	
CMZ55□	CR (Blank)	2.169	2.169	8.685	4.346	2.169	2.169	8.685	4.346	2.169	2.169	8.685	4.346	2.169	2.169	8.685	4.346
	CRM, CRD			11.055	6.717			11.055	6.717			11.055	6.717			11.055	6.717
	RM, RD	1.776		8.685	4.740	0.791		9.677		1.776		8.685	4.740	0.791		9.677	

* The shaded dimensions are the same value as when there are no options.

CMZF

Filter Combinations



Specifications

Model		CMZF400	CMZF500
Media		Air	
Port size	Rc	1/4, 3/8	1/4, 3/8, 1/2
Maximum operating pressure	MPa [psi]	1.0 [145]	
Proof pressure	MPa [psi]	1.5 [218]	
Operating temperature range (atmospheric and medium)	℃ [°F]	5 to 60 [41 to 140] (medium must not freeze)	

Specifications by component

● CMZF400/CMZF500

Component model code		CF		CFM		CFD		CFMD	
Combination type		CMZF400	CMZF500	CMZF400	CMZF500	CMZF400	CMZF500	CMZF400	CMZF500
Component combinations		IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50	IBCY40	IBCY50
		FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50
		—		MFZ40	MFZ50	—		MFZ40	MFZ50
		—		—		MMFZ40	MMFZ50	MMFZ40	MMFZ50
Water separation rate	%	99 or more (under rated conditions)							
Filtration	μm	5		0.3		0.01		0.01	
Particle filtering efficiency	%	—		99.9		99.9999		99.9999	
Secondary oil mist concentration[Note 1]	mg/m³	—		1.0 or less		0.01 or less		0.01 or less	
Maximum flow rate[Note 2]	L/min (ANR) [ft³/min (SCFM)]	1300 [45.916]	2300 [81.236]	300 [10.596]	750 [26.490]	150 [5.298]	400 [14.128]	150 [5.298]	400 [14.128]
Weight	kg [lb]	0.48 [1.058]	0.68 [1.499]	0.75 [1.654]	1.05 [2.315]	0.75 [1.654]	1.05 [2.315]	0.99 [2.183]	1.39 [3.065]

Component model code		FM		FD		FMD		MD	
Combination type		CMZF400	CMZF500	CMZF400	CMZF500	CMZF400	CMZF500	CMZF400	CMZF500
Component combinations		FNZ40	FNZ50	FNZ40	FNZ50	FNZ40	FNZ50	—	
		MFZ40	MFZ50	—		MFZ40	MFZ50	MFZ40	MFZ50
		—		MMFZ40	MMFZ50	MMFZ40	MMFZ50	MMFZ40	MMFZ50
Filtration	μm	0.3		0.01		0.01		0.01	
Particle filtering efficiency	%	99.9		99.9999		99.9999		99.9999	
Secondary oil mist concentration[Note 1]	mg/m³	1.0 or less		0.01 or less		0.01 or less		0.01 or less	
Maximum flow rate[Note 2]	L/min (ANR) [ft³/min (SCFM)]	300 [10.596]	750 [26.490]	150 [5.298]	400 [14.128]	150 [5.298]	400 [14.128]	150 [5.298]	400 [14.128]
Weight	kg [lb]	0.48 [1.058]	0.68 [1.499]	0.48 [1.058]	0.68 [1.499]	0.75 [1.654]	1.05 [2.315]	0.48 [1.058]	0.68 [1.499]

Note 1: Value when the primary-side oil mist concentration is 30 mg/m³.
2: Value when the primary-side pressure is 0.7 MPa [102 psi].
3: Ensure that the supply pressure is above 0.15 MPa [22 psi] if auto drain is selected as an option. (Supply pressure is needed to operate the auto drain.)
4: For details about each combined component, refer to the page for that product in this catalog.
5: Use a PCT resin bowl when using products in a location with a poor atmosphere (places with a risk of exposure to cutting oil, machine oil, etc.).

● Filter Combinations

CMZF □ **0** – □ – □ – □ – □ – □

CMZF — Filter Combinations

Body size

Code		IBCY·FNZ·MFZ·MMFZ body size
40	–	40 size
50	–	50 size

Component

Code		Component			
CF	–	IBCY	FNZ	—	—
CFM	–	IBCY	FNZ	MFZ	—
CFD	–	IBCY	FNZ	—	MMFZ
CFMD	–	IBCY	FNZ	MFZ	MMFZ
FM	–	—	FNZ	MFZ	—
FD	–	—	FNZ	—	MMFZ
FMD	–	—	FNZ	MFZ	MMFZ
MD	–	—	—	MFZ	MMFZ

Residual pressure exhaust valve
Blank — None
V — With residual pressure exhaust valve (installed at secondary-side terminal)

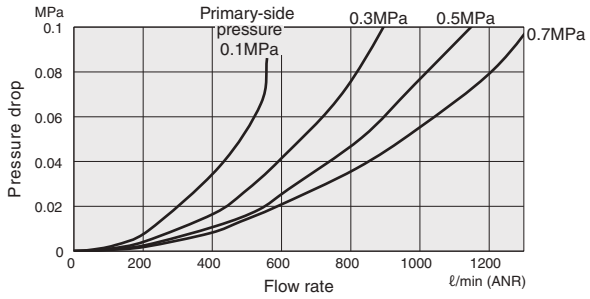
Port size
02 — Rc1/4
03 — Rc3/8
04 — Rc1/2 (only CMZF500 can be selected)

Bowl specifications
APG — Auto drain N.O. + With bowl guard
CPG — Auto drain N.C. + With bowl guard
NPG — Drain cock with fitting + With bowl guard
PAPG — PCTResin bowl + Auto drain N.O. + With bowl guard
PCPG — PCTResin bowl + Auto drain N.C. + With bowl guard
PNPG — PCTResin bowl + Drain cock with fitting + With bowl guard
*** IBCY, FNZ, MFZ, MMFZ have the same specifications.**

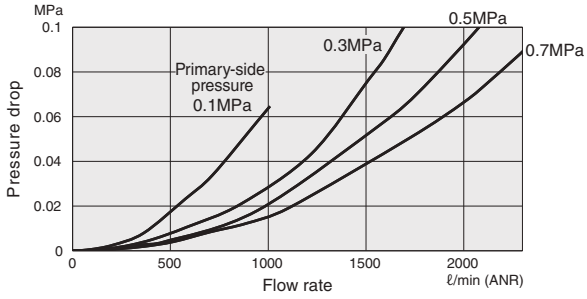
Direction of flow
Blank — Specifications (left to right)
R — Reverse flow (right to left)

* These graphs show the maximum pipe diameters.

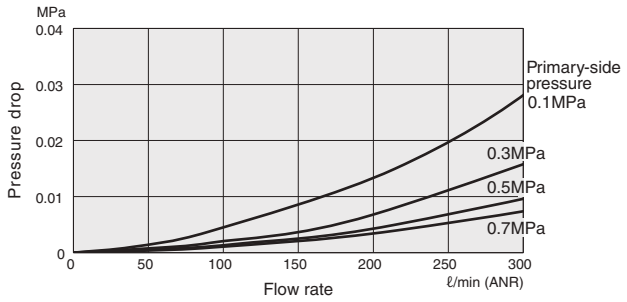
● CMZF400-[CF]



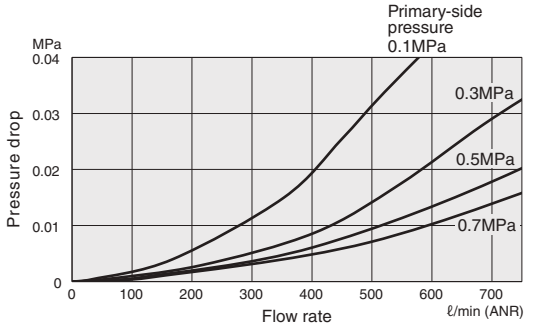
● CMZF500-[CF]



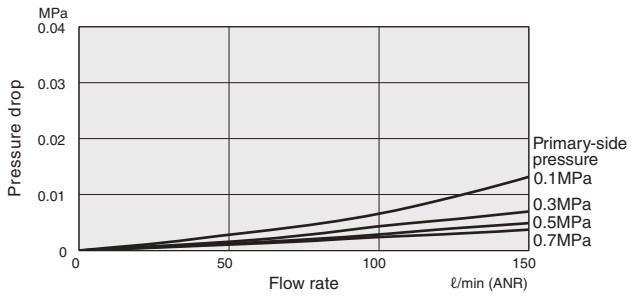
● CMZF400-[CFM] [FM]



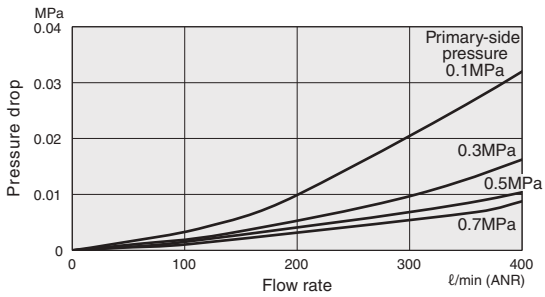
● CMZF500-[CFM] [FM]



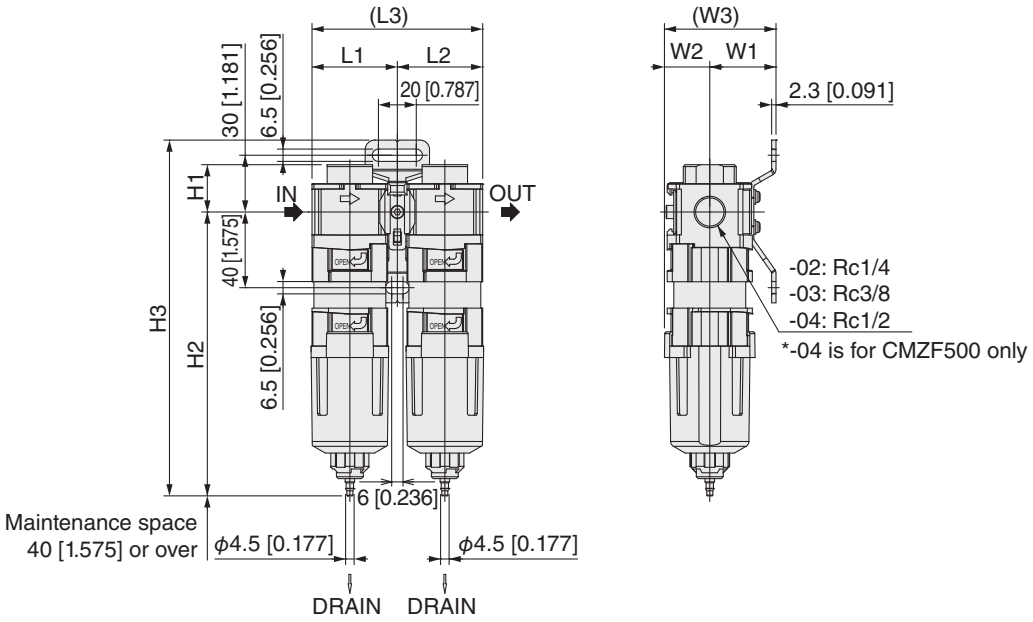
● CMZF400-[CFD] [CFMD] [FD] [FMD] [MD]



● CMZF500-[CFD] [CFMD] [FD] [FMD] [MD]

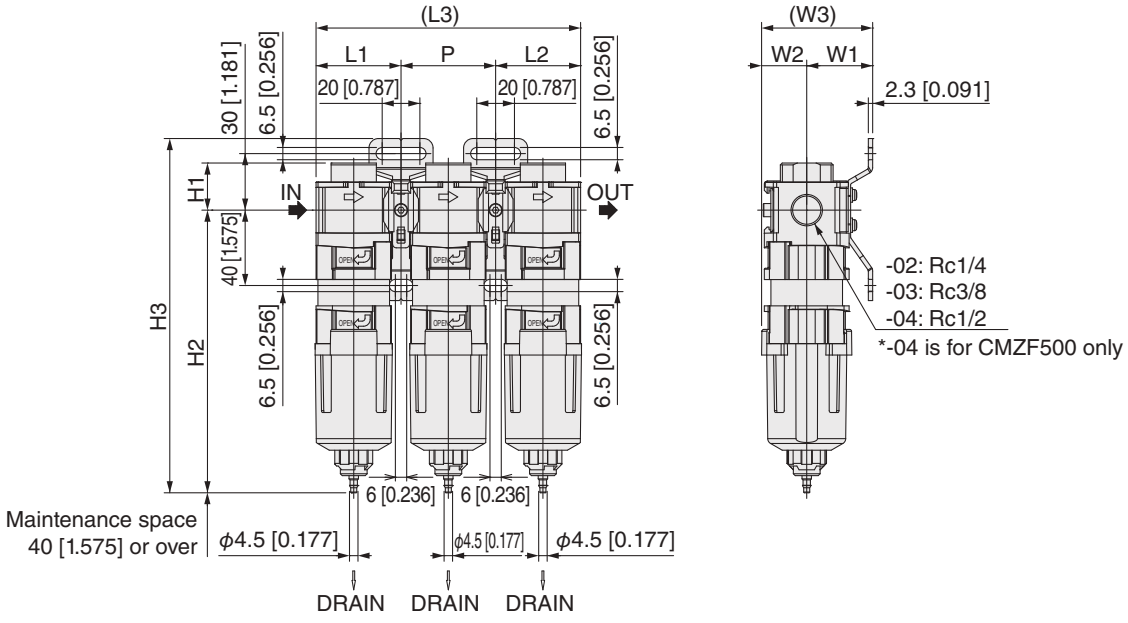


● CMZF400-[CF] [FM] [FD] [MD]
● CMZF500-[CF] [FM] [FD] [MD]



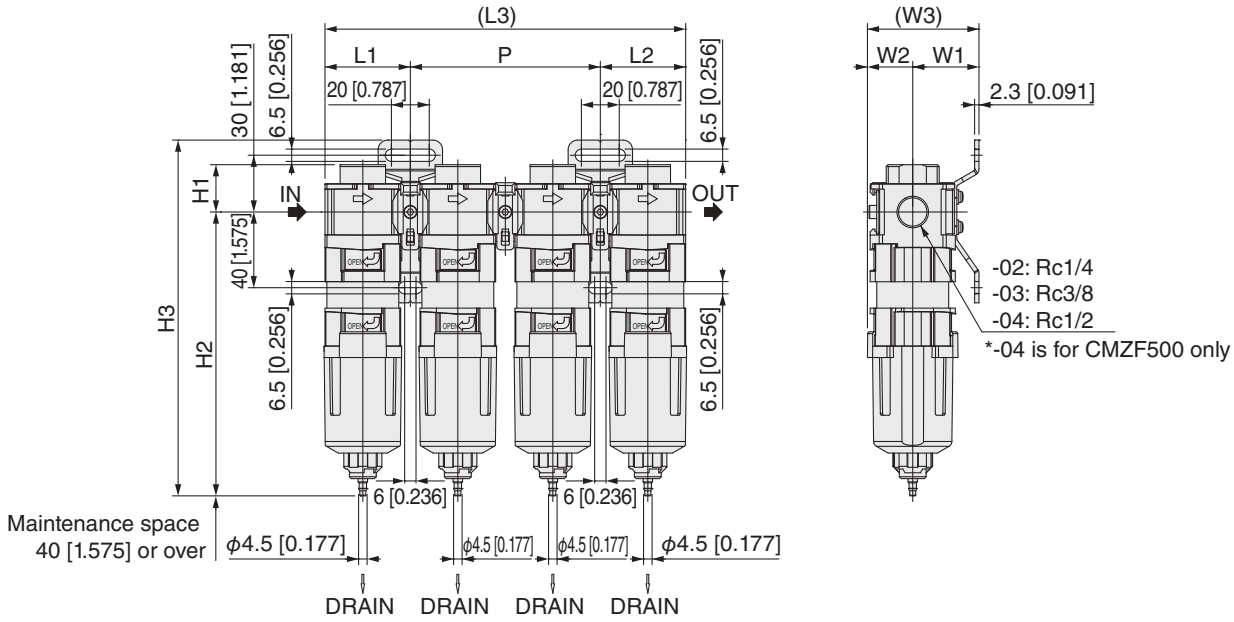
Combination type	L1	L2	L3	H1	H2	H3	W1	W2	W3
CMZF400	45.1 [1.776]	45.1 [1.776]	90.2 [3.551]	25 [0.984]	150 [5.906]	188 [7.402]	35 [1.378]	24 [0.945]	59 [2.323]
CMZF500	55.1 [2.169]	55.1 [2.169]	110.2 [4.339]	25 [0.984]	166 [6.535]	204 [8.031]	35 [1.378]	28.5 [1.122]	63.5 [2.500]

● CMZF400-[CFM] [CFD] [FMD]
● CMZF500-[CFM] [CFD] [FMD]



Combination type	L1	L2	L3	P	H1	H2	H3	W1	W2	W3
CMZF400	45.1 [1.776]	45.1 [1.776]	140.4 [5.528]	50.2 [1.976]	25 [0.984]	150 [5.906]	188 [7.402]	35 [1.378]	24 [0.945]	59 [2.323]
CMZF500	55.1 [2.169]	55.1 [2.169]	170.4 [6.709]	60.2 [2.370]	25 [0.984]	166 [6.535]	204 [8.031]	35 [1.378]	28.5 [1.122]	63.5 [2.500]

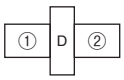
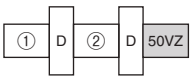
● CMZF400-[CFMD]
● CMZF500-[CFMD]



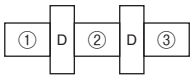
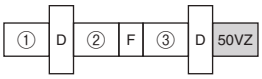
Combination type	L1	L2	L3	P	H1	H2	H3	W1	W2	W3
CMZF400	45.1 [1.776]	45.1 [1.776]	190.6 [7.504]	100.4 [3.953]	25 [0.984]	150 [5.906]	188 [7.402]	35 [1.378]	24 [0.945]	59 [2.323]
CMZF500	55.1 [2.169]	55.1 [2.169]	230.6 [9.079]	120.4 [4.740]	25 [0.984]	166 [6.535]	204 [8.031]	35 [1.378]	28.5 [1.122]	63.5 [2.500]

● **CMZF400·500** configuration diagram

: Connection fittings with brackets

Component	Options	Configuration diagram	Options	Configuration diagram
CF **FM** **FD** **MD**	No options		**-V**	

Component	①	②
CF	**IBCY**	**FNZ**
FM	**FNZ**	**MFZ**
FD	**FNZ**	**MMFZ**
MD	**MFZ**	**MMFZ**

Component	Options	Configuration diagram	Options	Configuration diagram
CFM **CFD** **FMD**	No options		**-V**	

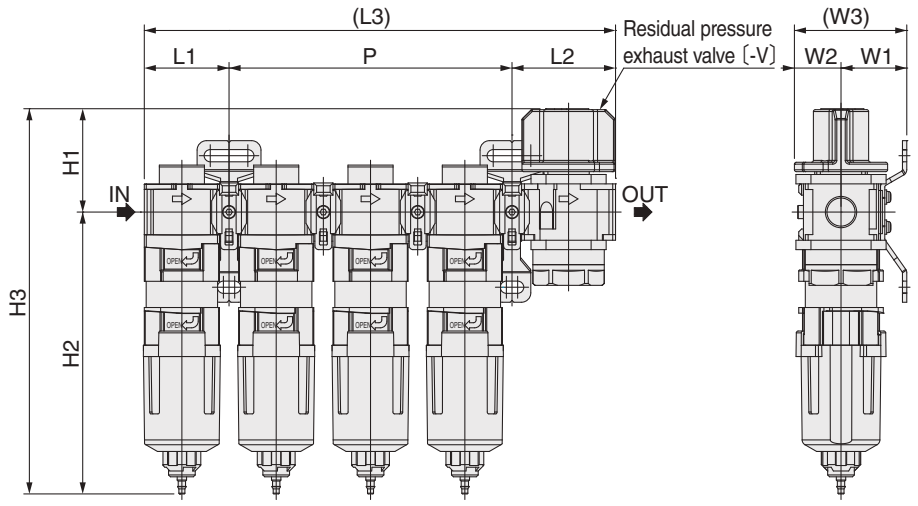
Component	①	②	③
CFM	**IBCY**	**FNZ**	**MFZ**
CFD			**MMFZ**
FMD	**FNZ**	**MFZ**	**MMFZ**

Component	Options	Configuration diagram	Options	Configuration diagram
CFMD	No options		**-V**	

F: F module (for connecting)
D: D module (for connecting (with bracket)
TP: Intermediate extraction block
SP: Piping adapter

PS: Pressure switch module
DPS: Pressure switch module (with bracket)
50VZ: Residual pressure exhaust valve

● **CMZF400·500** Option dimension diagrams (mm [in.])



See the option configuration diagrams on page 59 for option and bracket positions for each combination of components.

Tables of overall length (face to face) and mounting dimensions when option is selected

● **CMZF400·500** Option dimension tables (mm [in.])

Combination type	Component	-V						
		Residual pressure exhaust valve						
		L2	L3	P	H1	H3	W2	W3
CMZF400	CF, FM, FD, MD	55.1 [2.169]	150.4 [5.921]	50.2 [1.976]	55 [2.165]	205 [8.071]	24.8 [0.976]	59.8 [2.354]
	CFM, CFD, FMD		200.6 [7.898]	100.4 [3.953]				
	CFMD		250.8 [9.874]	150.6 [5.929]				
CMZF500	CF, FM, FD, MD	55.1 [2.169]	170.4 [6.709]	60.2 [2.370]	55 [2.165]	221 [8.701]	28.5 [1.122]	63.5 [2.500]
	CFM, CFD, FMD		230.6 [9.079]	120.4 [4.740]				
	CFMD		290.8 [11.449]	180.6 [7.110]				

* The shaded dimensions are the same value as when there are no options.