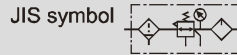




F.R.L. combination standard white Series  
**C1000/C2500/C3000-W**  
**C4000/C6500/C8000-W Series**

Space-saving with integrated filter, regulator, and lubricator

Port size: 1/8 to 1



**Specifications**

Descriptions		C1000-W	C2500-W	C3000-W	C4000-W	C6500-W	C8000-W
Appearance							
Components	Air filter	F1000-W	F3000-W	F3000-W	F4000-W	F6000-W	F8000-W
	Regulator	R1000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
	Lubricator	L1000-W	L3000-W	L3000-W	L4000-W	L8000-W	L8000-W
Working fluid		Compressed air					
Max. working pressure MPa		1.0					
Withstanding pressure MPa		1.5					
Ambient temperature range °C		5 to 60					
Filtration rating μm		5					
Set pressure range MPa		0.05 to 0.85 <sup>Note 3</sup>		0.05 to 0.85			
Minimum drip flow (Note 1) m <sup>3</sup> /min (ANR)		0.015	0.03	0.03	0.065	0.065	0.065
Relief		With relief mechanism					
Oil capacity cm <sup>3</sup>		20	85	85	170	170	170 (MAX. 360)
Drain capacity cm <sup>3</sup>		12	45	45	80	80	80 (Note 2)
Use oil		Turbine oil Class 1 ISO VG32 (spindle oil can not be used)					
Port size	Rc, NPT, G	1/8, 1/4 (3/8 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8, 1/2 (3/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)
Product weight kg		0.40	1.01	1.15	1.79	3.64	4.5
Standard accessories		Pressure gauge, bracket, bowl guard					

Note 1: The minimum drip flow is that at which five drops of turbine oil drip per minute at the set pressure of 0.5 MPa.

Note 2: Drainage accumulates up to 170 cm<sup>3</sup> only with the manual drain cock.

Note 3: The automatic drain's minimum operating pressure for □

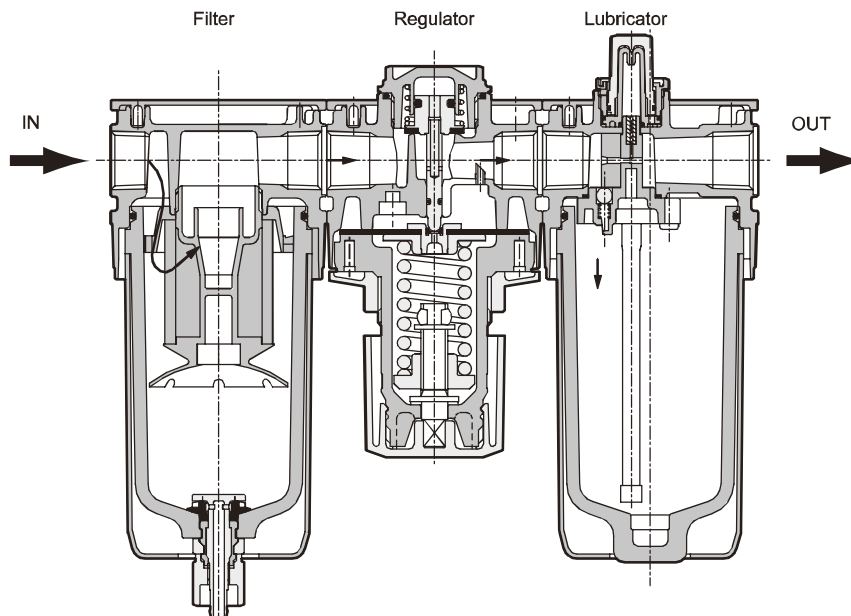
Note 4: The minimum operation pressure of the automatic drain is 0.15 MPa for the "F1" and "FF1" with an automatic drain.

Note 5: When using C□

Refer to the maximum working flow table (page 83) for F1000-W-F1 with an automatic drain for details on maximum working flow. Set the working flow to less than the maximum working flow.

Note 6: When element option "Y" is selected, refer to the maximum working flow table (page 83) for maximum flow. Set the working flow to less than the maximum working flow.

**Internal structure**



# F.R.L. Combination

How to order

## How to order

Refer to page 9 for the explanation of the option.



**A** Model no.  
Note 2

**B** Port size

**C** Port thread type

**D** Option

**E** Assembly attachment

**F** Display unit

**G** Piping adapter set (attached)

### ⚠ Note on model no. selection

Note 1: When G threads or NPT threads are selected, the IN, OUT, gauge port, and drain port (metal bowl automatic drain) are available, as are attachments P and V.

Note 2: Select options for each drainage discharge, bowl material, element, differential pressure detection, and regulator items.  
When selecting options for several items, list options in order from the top.

Note 3: Refer to page 11 for the automatic drain use conditions.

Note 4: Refer to page 83 for maximum processing flow when option "Y" is selected.

Note 5: Mounting position for assembly attachments

Symbol	Attachment mounting position	Applicable model
D	F + (D) + R + L	C1000-W to C8000-W
S or P	F + R + (S, P) + L	C1000-W to C8000-W (Excluding 1000, 6000, 8000 series for "P")
V or K	F + R + L + (V, K)	C1000-W to C8000-W (Excluding 6000, 8000 series for "V", 1000 series for "K")

Note) Indicate "U" + "D", "S", "P", "V", and "K" when selecting an assembly attachment.  
Use custom combinations specifications for any other combination.

Note 6: If NPT is selected for the **C** piping thread type, a NPT pressure gauge is enclosed. If Rc or G thread is selected, an R thread pressure gauge is enclosed.

Note 7: Piping adapter A400-20\*-W is assembled on both ends of the C4000-20\*-W.

**H** Attachment

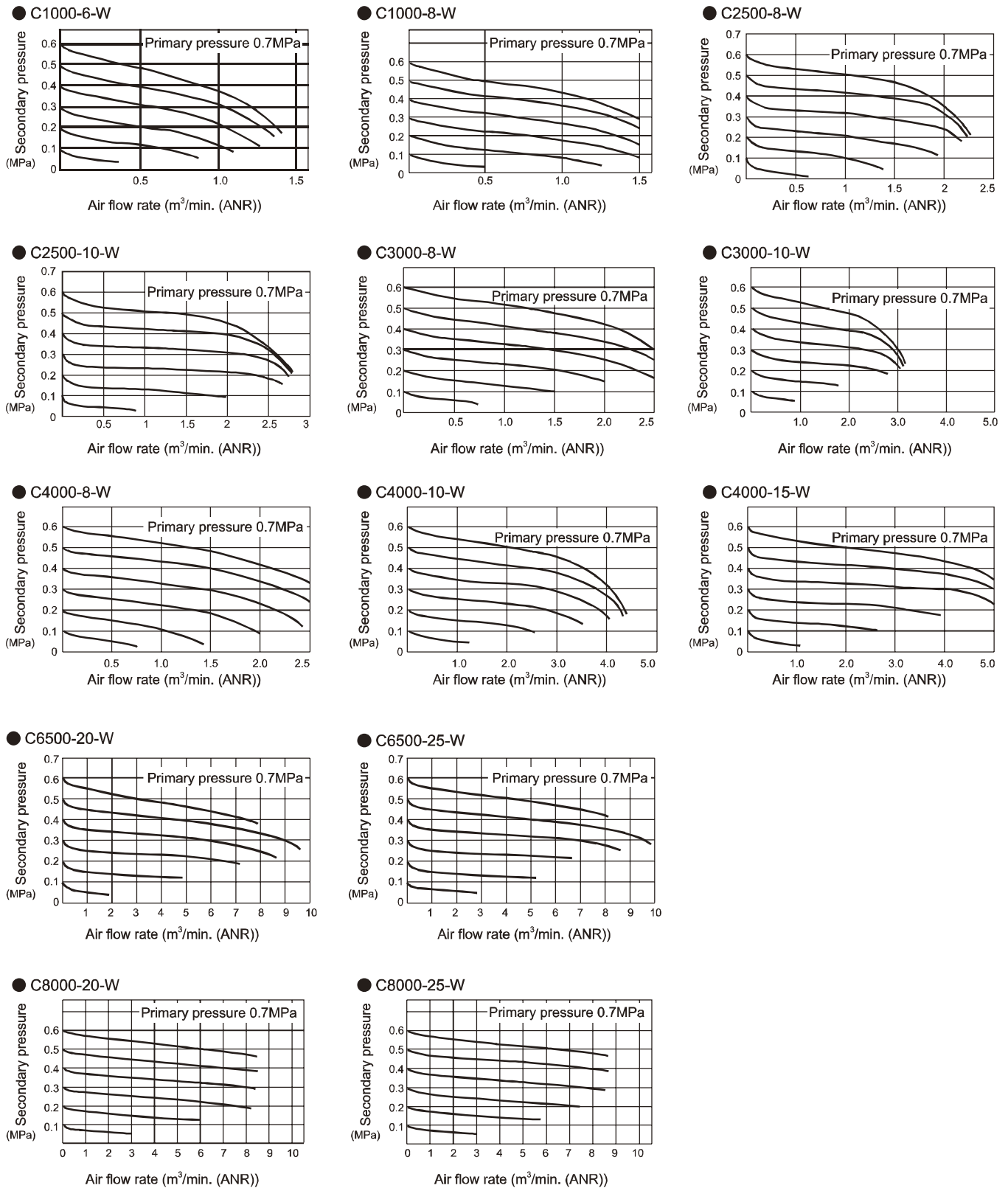
**I** Pressure gauge option (attached)

A Model no. Note 2					
C1000	C2500	C3000	C4000	C6500	C8000
●	●	●	●	●	●

Symbol	Descriptions	A Model no. Note 2					
B Port size		C1000	C2500	C3000	C4000	C6500	C8000
6	1/8	●					
8	1/4	●					
10	3/8		●	●	●		
15	1/2				●		
20	3/4				●	●	
25	1					●	●
C Port thread type		Note 1					
Blank	Rc thread	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●
D Option		Note 2					
Drainage	Blank	Filter with manual drain cock, lubricator without manual drain cock	●	●	●	●	●
	C	Lubricator with manual cock	●	●	●	●	●
	F	Filter/automatic drain with manual override (NO type: Exhaust without pressurized)		●	●	●	●
	F1	Filter/automatic drain with manual override (NC type: No exhaust without pressurized)	●	●	●	●	●
	FF	Filter/large automatic drain with manual override (NO type: Exhaust without pressurized)					●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●	●
	Z	Nylon bowl	●	●	●	●	●
	M	Metal bowl					●
	M1	Metal bowl with manual drain cock					●
Element	Blank	5 m	●	●	●	●	●
	Y	0.3 m (submicron) Note 4		●	●	●	●
Differential pressure	Blank	Without differential pressure detection port	●	●	●	●	●
	Q	With differential pressure detection port (Rc1/4)					●
Relief	Blank	0.05 to 0.85MPa	●	●	●	●	●
	L	0.05 to 0.35MPa	●	●	●	●	●
Pressure gauge	Blank	With relief mechanism	●	●	●	●	●
	N	Nonrelief type	●	●	●	●	●
Flow direction	Blank	Standard pressure gauge (with G401-W)	●	●	●	●	●
	T	Without pressure gauge (a pressure gauge port (Rc1/4) is assembled with sealed)					●
	T8	Pressure gauge attached (a pressure gauge port (Rc1/4) is assembled by open)	●	●	●	●	●
Flow direction	Blank	Standard flow (left → right)	●	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●	●
E Assembly attachment		Pages 133 to 144, 149, 150					
Blank	Without assembly attachment type	●	●	●	●	●	●
U	Assembly attachment type Note 5	●	●	●	●	●	●
Assembled	D	Distributor (D101-W, D401-W, D801-W)	●	●	●	●	●
	S	Pressure switch (P1100-W, 4100-W, 8100-W)	●	●	●	●	●
	P	Pressure switch (P4000-W)		●	●		
	V	Shut-off valve (V1000-W, 3000-W)		●	●		
	K	Lockout valve (V3010-W)		●	●		
F Display unit							
Blank	MPa display, Rc thread	●	●	●	●	●	●
J1	MPa display, NPT, G thread	●	●	●	●	●	●
G Piping adapter set (attached)		Pages 133 to 144, 149, 150					
Blank	Not attached	●	●	●	●	●	●
A6*W	1/8 piping adapter set						
A8*W	1/4 piping adapter set	●	●	●	●		
A10*W	3/8 piping adapter set	●	●	●	●		
A15*W	1/2 piping adapter set				●		
A20*W	3/4 piping adapter set					●	●
A25*W	1 piping adapter set						●
A32*W	1 1/4 piping adapter set						●
Adaptor screw type							
Blank	Rc thread	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●
H Attachment (attached)							
Blank	Not attached	●	●	●	●	●	●
PW	Pressure switch (P4000-W) + joiner set		●	●			
VW	Shut-off valve (V1000-W, V3000-W) + joiner set		●	●			
I Pressure gauge option (attached)		Note 5 Page 194					
Blank	Not attached	●	●	●	●	●	●
G49P	G49D-8-P10 (L: G49D-8-P04)	●	●	●	●	●	●
G59P	G59D-8-P10 (L: G59D-8-P04)	●	●	●	●	●	●
G40P	G40D-8-P10 (L: G40D-8-P04)	●	●	●	●	●	●
G50P	G50D-8-P10 (L: G50D-8-P04)	●	●	●	●	●	●
G41P	G41D-8-P10 (L: G41D-8-P04)	●	●	●	●	●	●
G52P	G52D-8-P10 (L: G52D-8-P10)	●	●	●	●	●	●

# F.R.L. Combination

## Flow characteristics



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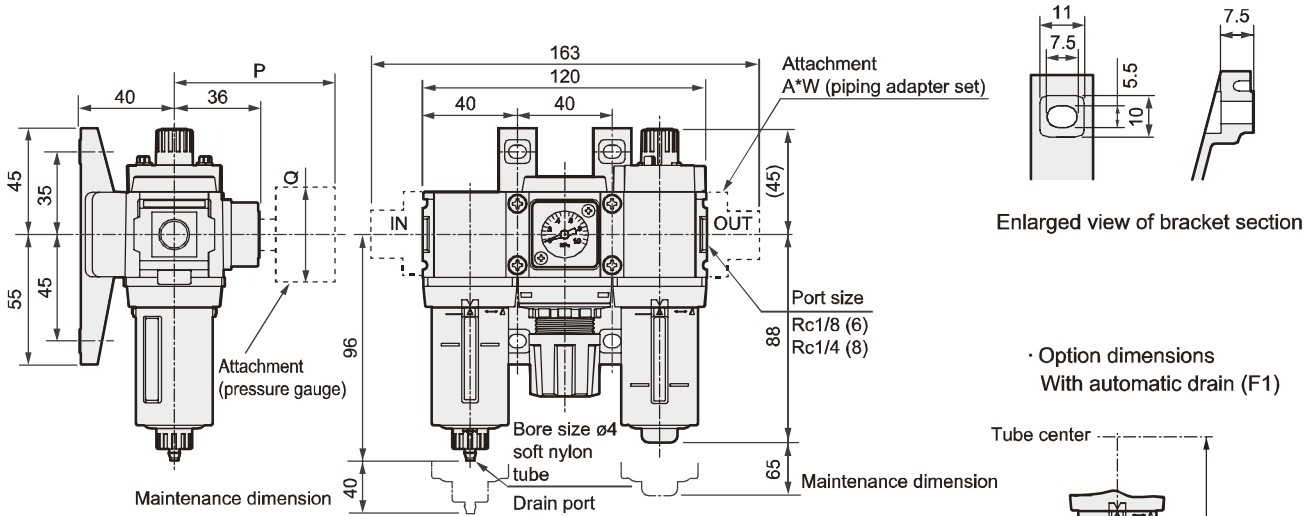
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# F.R.L. Combination

## Dimensions

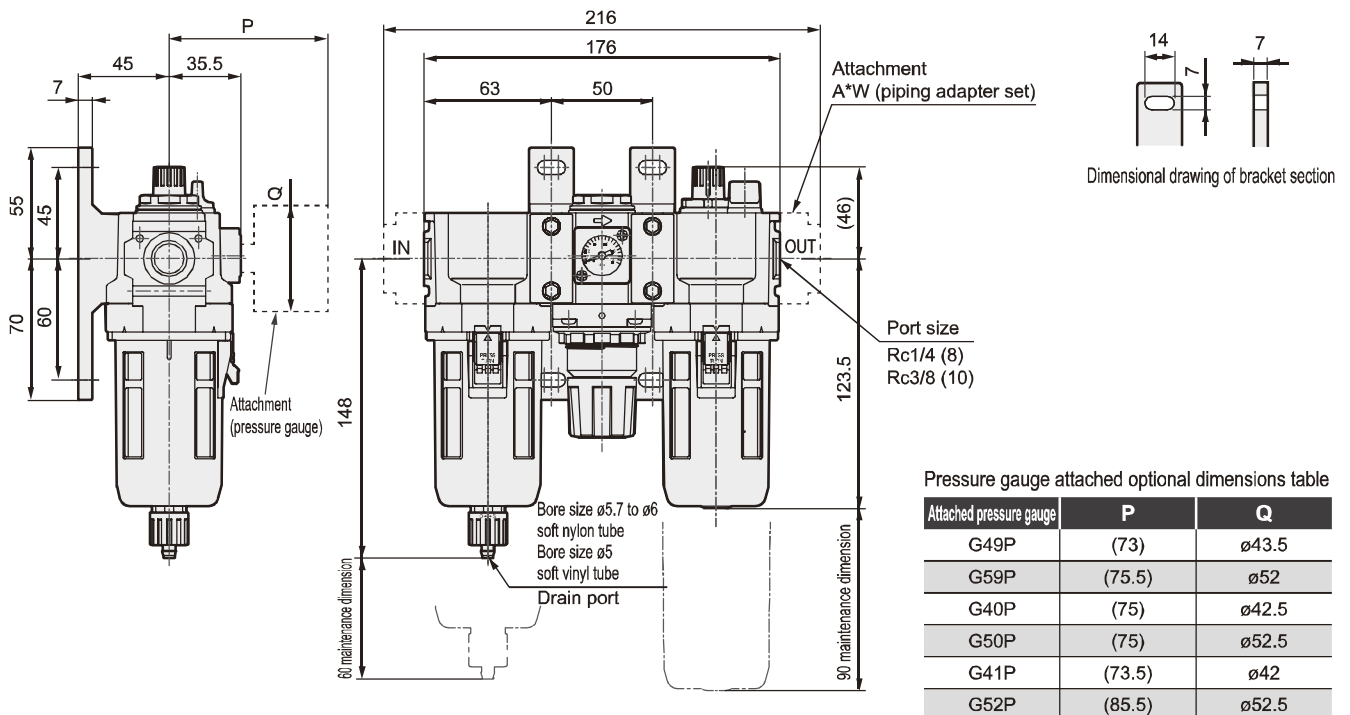
### ● C1000-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	P	Q
G49P	(73.5)	ø43.5
G59P	(76)	ø52
G40P	(75.5)	ø42.5
G50P	(75.5)	ø52.5
G41P	(74)	ø42
G52P	(86)	ø52.5

### ● C2500-W

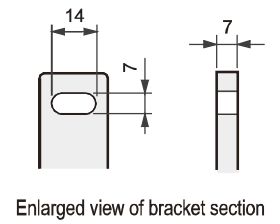
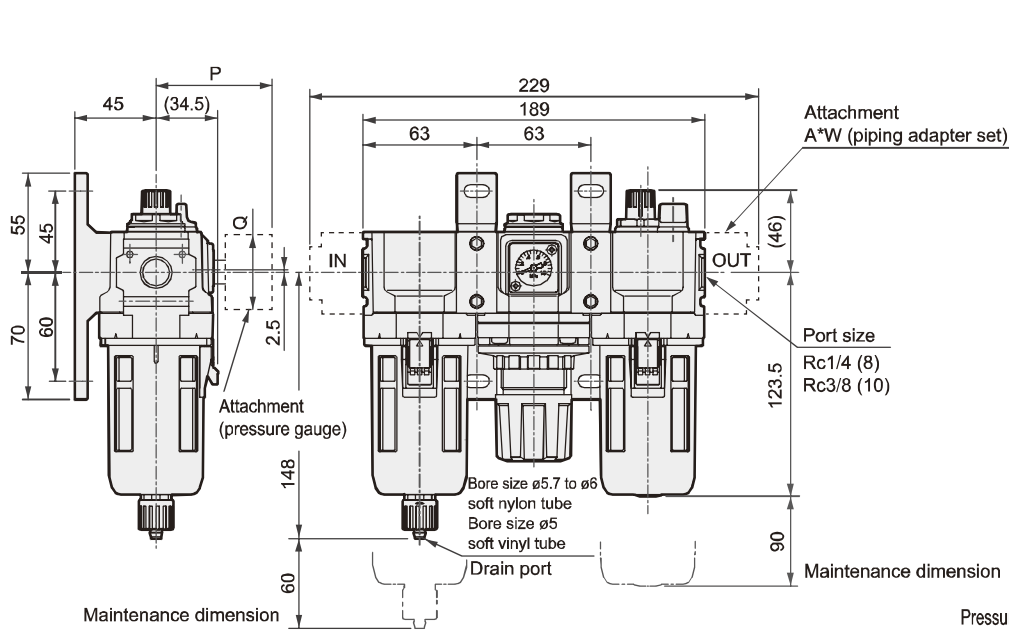


Pressure gauge attached optional dimensions table

Attached pressure gauge	P	Q
G49P	(73)	ø43.5
G59P	(75.5)	ø52
G40P	(75)	ø42.5
G50P	(75)	ø52.5
G41P	(73.5)	ø42
G52P	(85.5)	ø52.5

### Dimensions

#### ● C3000-W

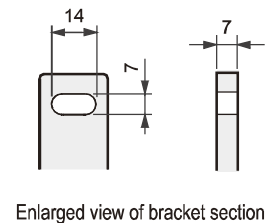
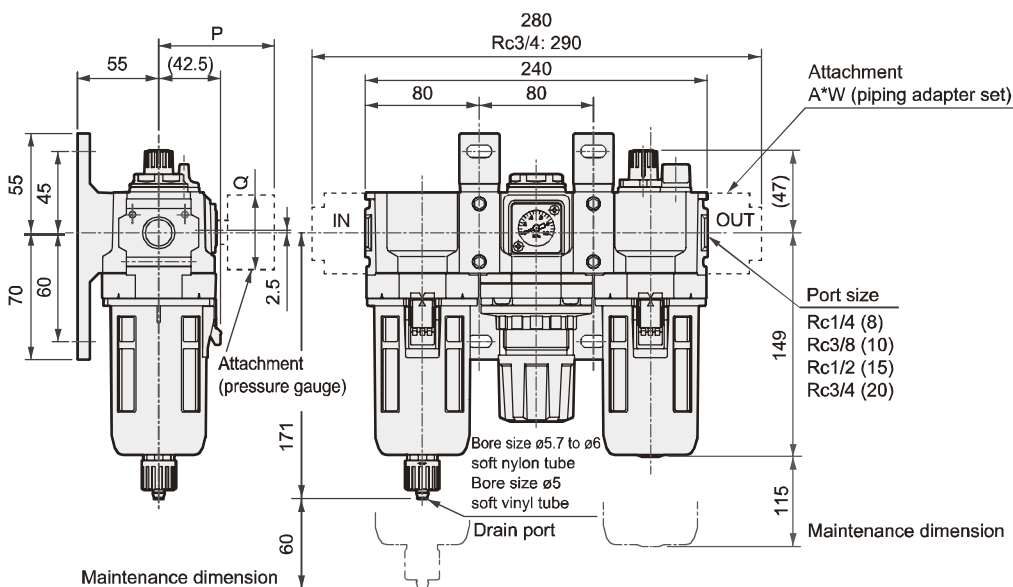


Pressure gauge attached optional dimensions table

Attached pressure gauge	P	Q
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G50P	(71.5)	ø52.5
G41P	(70)	ø42
G52P	(82)	ø52.5

● Refer to page 87 for the dimensions of the metal bowl option filter and page 131 for the lubricator.

#### ● C4000-W



Pressure gauge attached optional dimensions table

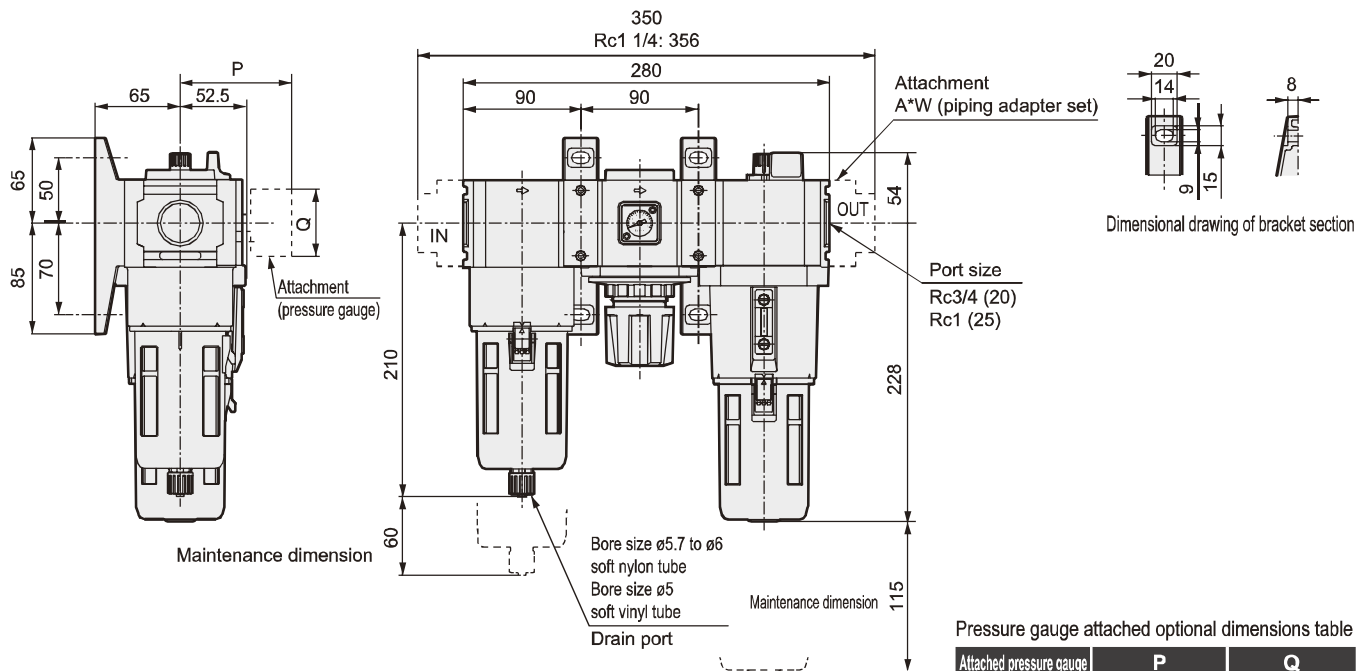
Attached pressure gauge	P	Q
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G50P	(76.5)	ø52.5
G41P	(75)	ø42
G52P	(86)	ø52.5

● Refer to page 87 for the dimensions of the metal bowl option filter and page 131 for the lubricator.

# F.R.L. Combination

## Dimensions

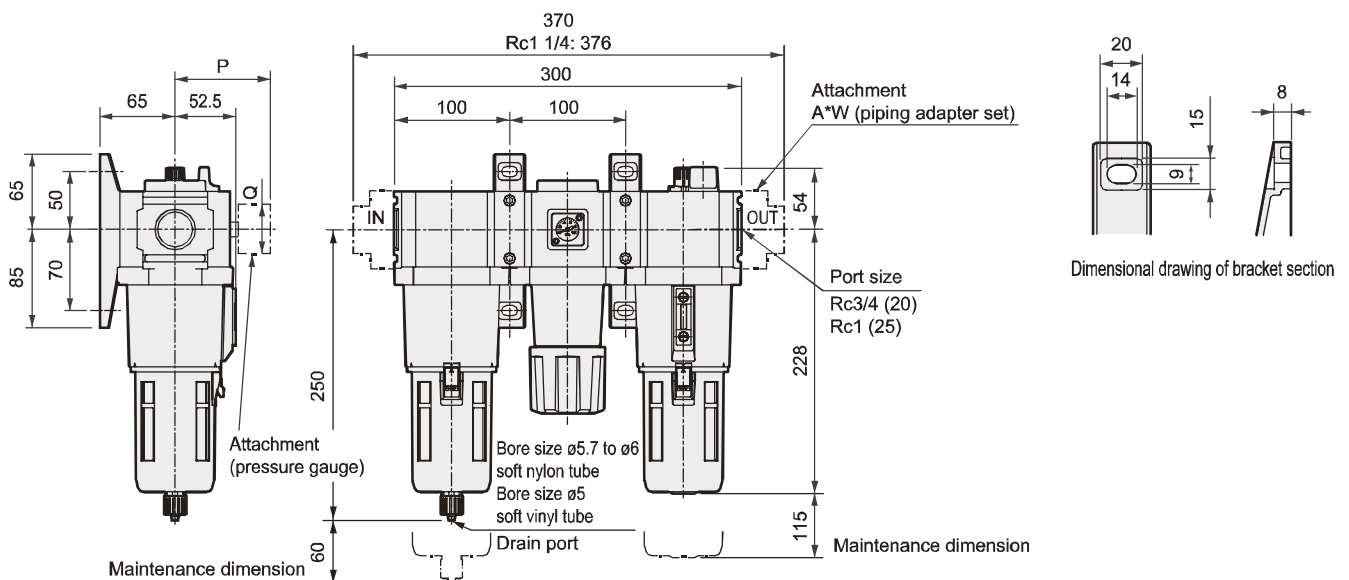
### ● C6500-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	P	Q
G49P	(79.5)	ø43.5
G59P	(82)	ø52
G40P	(81.5)	ø42.5
G50P	(81.5)	ø52.5
G41P	(80)	ø42
G52P	(93)	ø52.5

### ● C8000-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	P	Q
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G50P	(86.5)	ø52.5
G41P	(85)	ø42
G52P	(98)	ø52.5

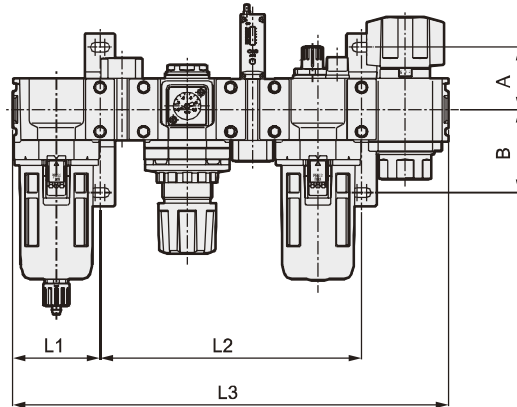
● Refer to page 87 for the dimensions of the metal bowl option filter and page 131 for the lubricator.

# F.R.L. Combination

Option assembly dimensions

## Option assembly dimensions

● C1000-W to C8000-W



Model no.	A	B
C1000-W	35	45
C2500-W	45	60
C3000-W		
C4000-W		
C6050-W	50	70
C8000-W		

Assembled option	D			S			P			V			K			DS			DP			DV			DK		
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
C1000-W	40	68	148	40	68	148	-	-	-	40	80	160	-	-	-	40	96	176	-	-	-	40	108	188	-	-	-
C2500-W	63	81.5	207.5	63	81.5	207.5	63	130	256	63	113	239	63	113	239	63	113	239	63	161.5	287.5	63	144.5	270.5	63	144.5	270.5
C3000-W	63	94.5	220.5	63	94.5	220.5	63	143	269	63	126	252	63	126	252	63	126	252	63	174.5	300.5	63	157.5	283.5	63	157.5	283.5
C4000-W	80	111.5	271.5	80	111.5	271.5	80	160	320	80	160	303	80	160	303	80	143	303	80	191.5	351.5	80	191.5	334.5	80	191.5	334.5
C4000-20-W <sup>Note 1</sup>	100	111.5	311.5	100	111.5	311.5	100	160	360	100	160	343	100	160	343	100	143	343	100	191.5	391.5	100	191.5	374.5	100	191.5	374.5
C6500-W	90	140	330	90	140	330	-	-	-	-	-	-	90	190	370	90	190	380	-	-	-	-	-	-	90	240	420
C8000-W	100	150	350	100	150	350	-	-	-	-	-	-	100	200	390	100	200	400	-	-	-	-	-	-	100	250	440

Assembled option	DSV			DSK			DPV			DPK			SV			SK			PV			PK		
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
C1000-W	40	136	216	-	-	-	-	-	-	-	-	-	40	100	188	-	-	-	-	-	-	-	-	-
C2500-W	63	176	302	63	176	302	63	224.5	350.5	63	224.5	350.5	63	144.5	270.5	63	144.5	270.5	63	193	319	63	193	319
C3000-W	63	189	315	63	189	315	63	237.5	363.5	63	237.5	363.5	63	157.5	283.5	63	157.5	283.5	63	206	332	63	206	332
C4000-W	80	223	366	80	223	366	80	271.5	414.5	80	271.5	414.5	80	191.5	334.5	80	191.5	334.5	80	240	383	80	240	383
C4000-20-W <sup>Note 1</sup>	100	223	406	100	223	406	100	271.5	454.5	100	271.5	454.5	100	191.5	374.5	100	191.5	374.5	100	240	423	100	240	423
C6500-W	-	-	-	90	290	470	-	-	-	-	-	-	-	-	-	90	240	420	-	-	-	-	-	-
C8000-W	-	-	-	100	300	490	-	-	-	-	-	-	-	-	-	100	250	440	-	-	-	-	-	-

L1: Dimensions from the IN edge to center of the T-type bracket mounting hole  
 L2: Spacing dimensions of the mounting hole from the first T-type bracket to the second T-type bracket  
 L3: Dimensions from the IN edge to the OUT edge

\* Refer to the General Catalog for details on bracket mounting hole dimensions.  
 Note 1. The piping adapter is assembled on the OUT side.  
 Piping adapter A400-20-W is assembled on both ends of C4000-20-W.






W.L. combination standard white Series

# C1010/C3010/C4010/C8010-W Series





Filter, regulator and lubricator integrated

Port size: 1/8 to 1

JIS symbol 



## Specifications

Descriptions		C1010-W	C3010-W	C4010-W	C8010-W
Appearance					
Components	Filter and regulator	W1000-W	W3000-W	W4000-W	W8000-W
	Lubricator	L1000-W	L3000-W	L4000-W	L8000-W
Working fluid		Compressed air			
Max. working pressure MPa		1.0			
Withstanding pressure MPa		1.5			
Ambient temperature range °C		5 to 60			
Filtration rating μm		5			
Set pressure range MPa		0.05 to 0.85 (Note 3)	0.05 to 0.85		
Minimum drip flow (Note 1) m <sup>3</sup> /min (ANR)		0.015	0.03	0.065	0.065
Relief		With relief mechanism			
Oil capacity cm <sup>3</sup>		20	85	170	170 (MAX. 360)
Drain capacity cm <sup>3</sup>		12	45	80	80 (Note 2)
Use oil		Turbine oil Class 1 ISO VG32 (spindle oil can not be used)			
Port size Rc, NPT, G		1/8, 1/4 (3/8 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8, 1/2 (3/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)
Product weight kg		0.31	0.97	1.45	3.57
Standard accessories		Pressure gauge, bracket, bowl guard			

Note 1: The minimum drip flow is that at which five drops of turbine oil drip per minute at the set pressure of 0.5 MPa.

Note 2: Drainage accumulates up to 170 cm<sup>3</sup> only with the manual drain cock.

Note 3: The automatic drain's minimum operating pressure for "F" or "FF" with an automatic drain is 0.1 MPa. Initially generated drainage and air are purged until pressure reaches 0.1 MPa.

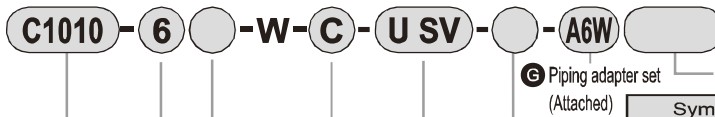
Note 4: The minimum operation pressure of the automatic drain is 0.15 MPa for the "F1" and "FF1" with an automatic drain.

Note 5: When using C□

Refer to the maximum working flow table (page 83) for F1000-W-F1 with an automatic drain for details on maximum working flow. Set the working flow to less than the maximum working flow.

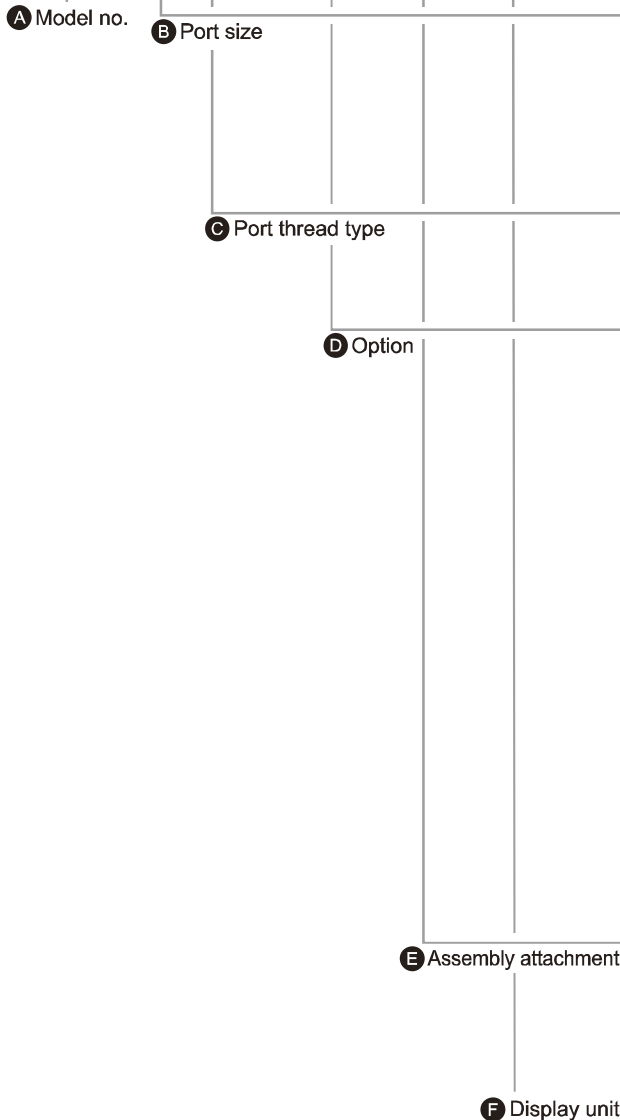
Note 6: When element option "Y" is selected, refer to the maximum working flow table (page 83) for maximum flow. Set the working flow to less than the maximum working flow.

### How to order



\* Refer to page 9 for explanation of an option.

A Model no.			
C	C	C	C
1	3	4	8
0	0	0	0
1	1	1	1
0	0	0	0



Symbol	Descriptions				
<b>B Port size</b>					
6	1/8	●			
8	1/4	●	●	●	
10	3/8		●	●	
15	1/2			●	
20	3/4			●	●
25	1				●

C Port thread type		Note 1			
Blank	Rc thread	●	●	●	●
N	NPT thread	●	●	●	●
G	G thread	●	●	●	●

D Option		Note 2				
Drainage	Blank	Filter with manual drain cock, lubricator without manual drain cock	●	●	●	●
	C	Lubricator with manual cock	●	●	●	●
	F	Filter/automatic drain with manual override (NO type: Exhaust without pressurized)		●	●	●
	F1	Filter/automatic drain with manual override (NC type: No exhaust without pressurized)	●	●	●	●
	FF	Filter/automatic drain with manual override (NO type: Exhaust without pressurized)				●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●
	Z	Nylon bowl	●	●	●	●
	M	Metal bowl		●	●	●
	M1	Metal bowl with manual drain cock		●	●	●
Element	Blank	5 m	●	●	●	●
	Y	0.3 m (submicron) Note 4		●	●	●
Pressure range	Blank	0.05 to 0.85MPa	●	●	●	●
	L	0.05 to 0.35MPa	●	●	●	●
Relief	Blank	With relief mechanism	●	●	●	●
	N	Nonrelief type	●	●	●	●
Pressure gauge	Blank	With standard pressure gauge (G401-W)	●	●	●	●
	T	Without pressure gauge (a pressure gauge port (Rc1/4) is assembled with sealed)	●	●	●	●
	T8	Pressure gauge attached (a pressure gauge port (Rc1/4) is assembled by open)	●	●	●	●
Flow direction	Blank	Standard flow (left → right)	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●

E Assembly attachment		Pages 133 to 144, 149, 150				
Blank	Without assembly attachment type	●	●	●	●	
U	Assembly attachment type Note 5	●	●	●	●	
Assembled	S	Pressure switch (P1100-W, 4100-W, 8100-W)	●	●	●	●
	P	Pressure switch (P4000-W)		●	●	
	V	Shut-off valve (V1000-W, 3000-W)	●	●	●	
	K	Lockout valve (V3010-W)		●	●	

F Display unit					
Blank	MPa display, Rc thread	●	●	●	●
J1	MPa display, NPT, G thread	●	●	●	●

G Piping adapter set (attached)		Pages 151 to 153			
Blank	Not attached	●	●	●	●
A6*W	1/8 piping adapter set	●			
A8*W	1/4 piping adapter set	●	●	●	
A10*W	3/8 piping adapter set	●	●	●	
A15*W	1/2 piping adapter set		●	●	
A20*W	3/4 piping adapter set			●	●
A25*W	1 piping adapter set				●
A32*W	1 1/4 piping adapter set				●

* Adaptor screw type					
Blank	Rc thread	●	●	●	●
N	NPT thread	●	●	●	●
G	G thread	●	●	●	●

H Pressure gauge option (attached)		Page 194			
Blank	Not attached	●	●	●	●
G49P	G49D-8-P10 (L: G49D-8-P04)	●	●	●	●
G59P	G59D-8-P10 (L: G59D-8-P04)	●	●	●	●
G40P	G40D-8-P10 (L: G40D-8-P04)	●	●	●	●
G50P	G50D-8-P10 (L: G50D-8-P04)	●	●	●	●
G41P	G41D-8-P10 (L: G41D-8-P04)	●	●	●	●
G52P	G52D-8-P10 (L: G52D-8-P10)	●	●	●	●

### Note on model no. selection

Note 1: When G threads or NPT threads are selected, the IN, OUT, gauge port, and drain port (metal bowl automatic drain) are available, as are attachments P and V.

Note 2: Select options per drainage, bowl material, element, and regulator sections. When selecting options for several items, list options in order from the top.

Note 3: Refer to page 11 for the automatic drain use conditions.

Note 4: Refer to page 83 for maximum processing flow when option "Y" is selected.

Note 5: Assembly attachment installation position

Symbol	Attachment installation position	Applicable model
S or P	W + (S, P) + L	C1010-W to C8010-W (Excluding 8000 series for "P")
V or K	W + L + (V, K)	C1010-W to C8010-W (Excluding 8000 series for "V", 1000 series for "K")

Note) Indicate "U" + "D", "S", "P", "V", and "K" when selecting an assembly attachment.

Use custom combinations specifications for any other combination.

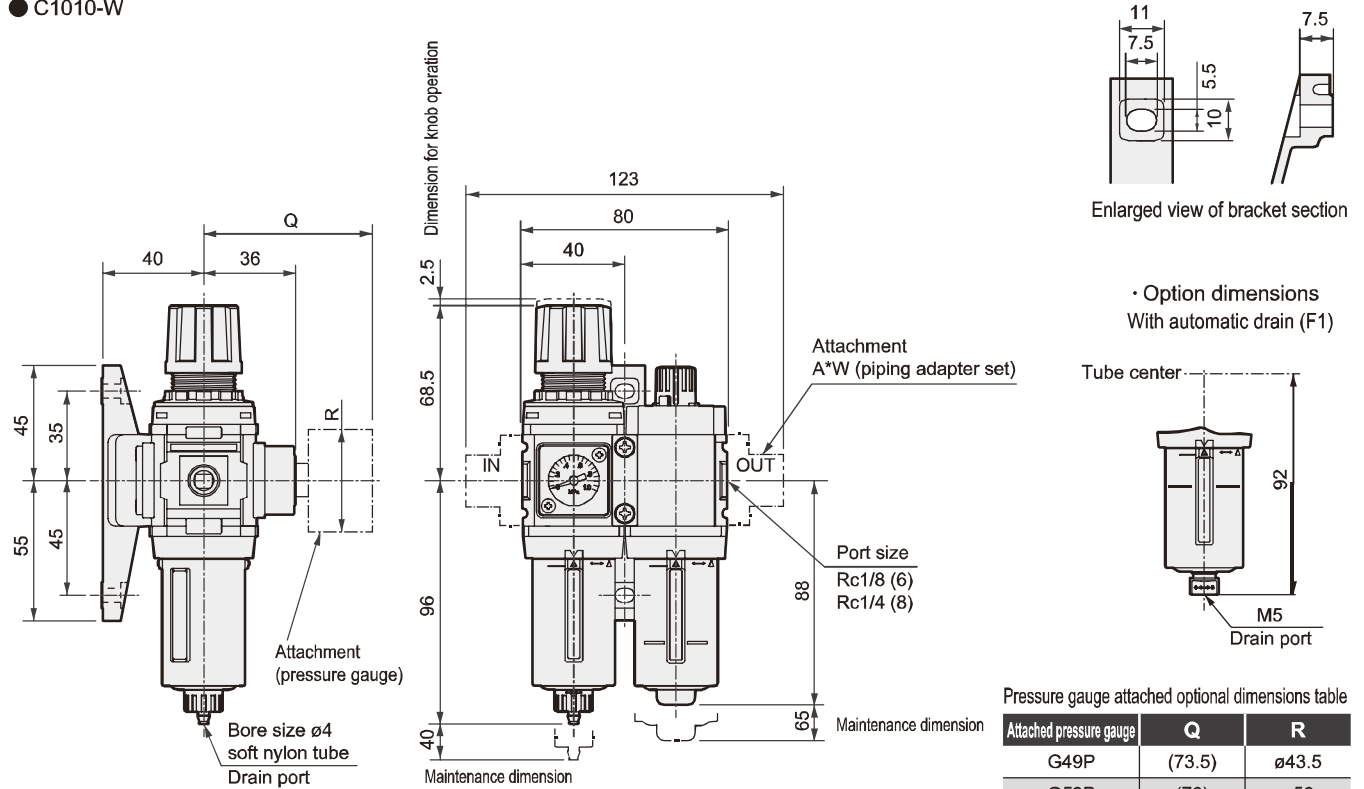
Note 6: If NPT is selected for the piping thread type, a NPT pressure gauge is enclosed. If Rc or G thread is selected, an R thread pressure gauge is enclosed.

Note 7: Piping adapter A400-20\*W is assembled on both ends of the C4010-20\*W.

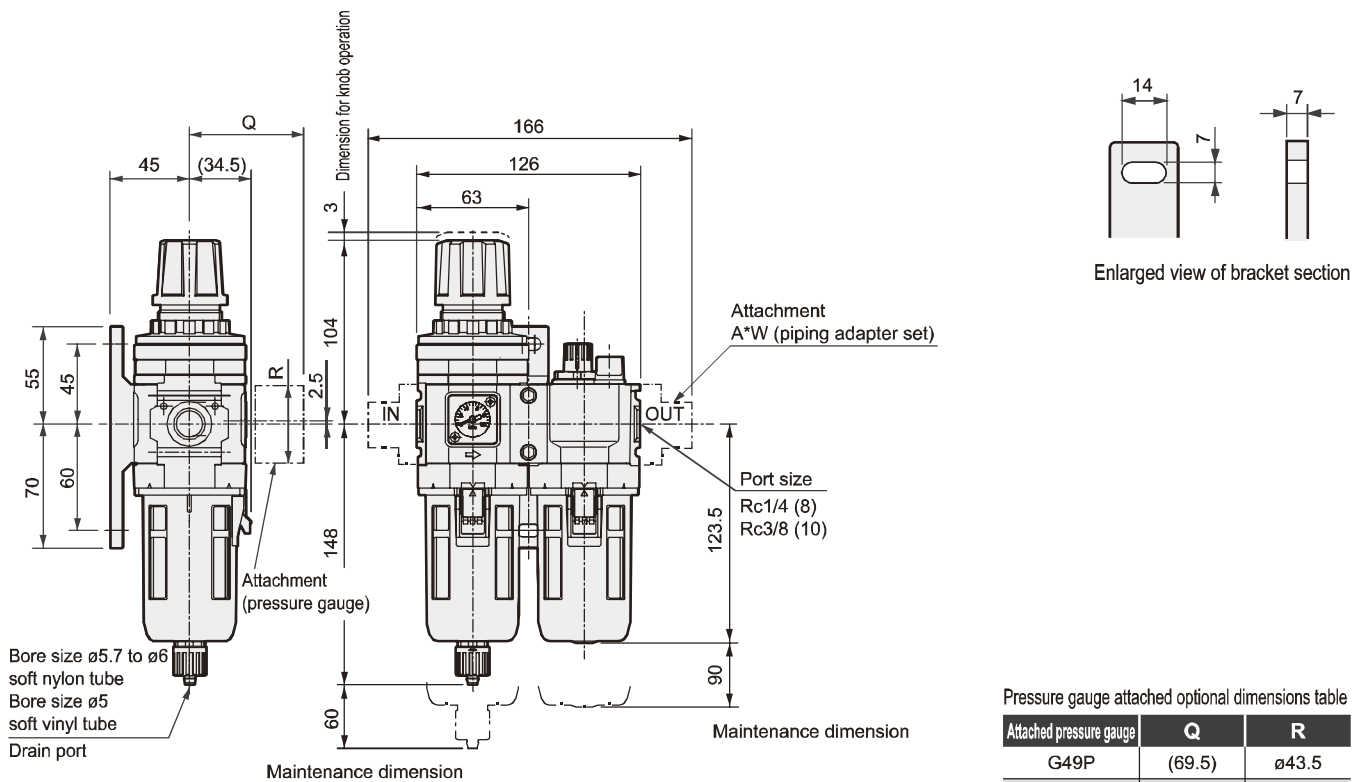
# W.L Combination

## Dimensions

### ● C1010-W



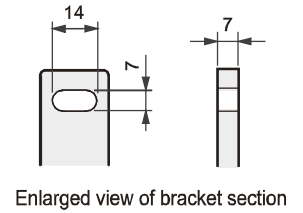
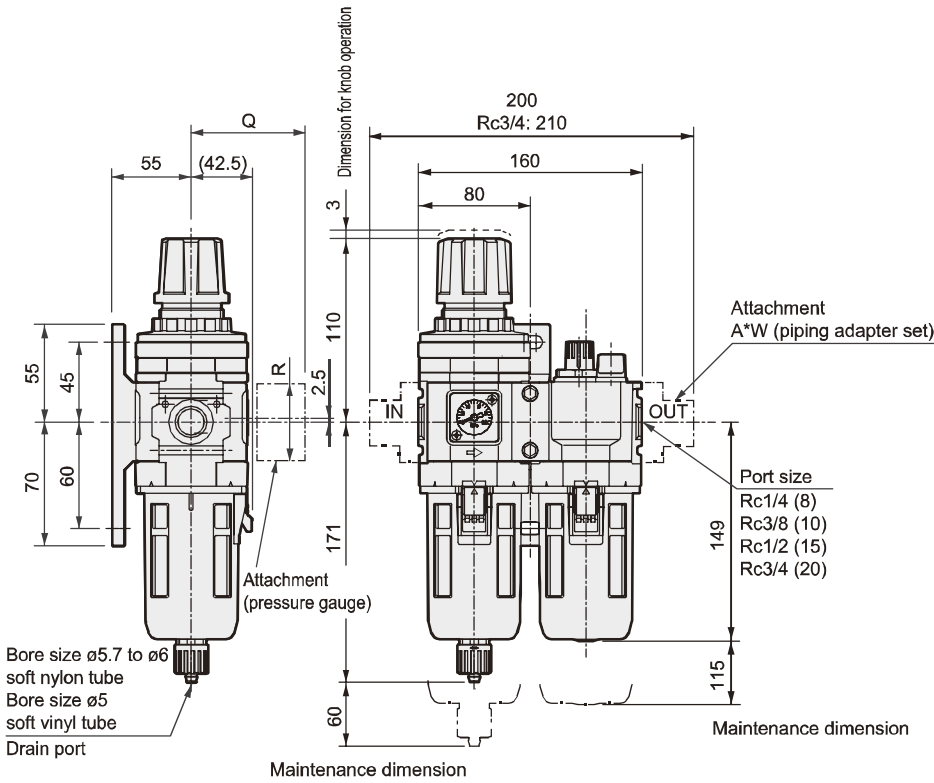
### ● C3010-W



● Refer to page 72 for the dimensions of the metal bowl option filter/regulator and page 131 for the lubricator.

### Dimensions

#### ● C4010-W

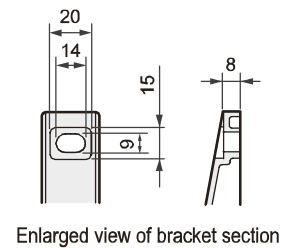
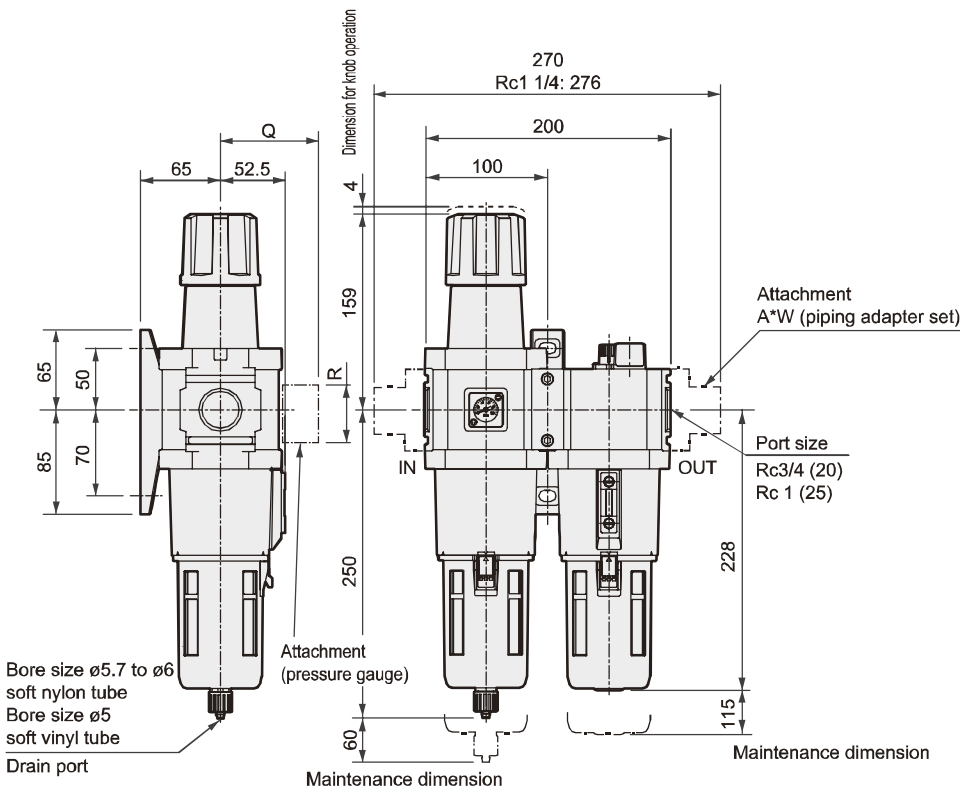


Pressure gauge attached optional dimensions table

Attached pressure gauge	Q	R
G49P	(74.5)	$\phi 43.5$
G59P	(77)	$\phi 52$
G40P	(76.5)	$\phi 42.5$
G50P	(76.5)	$\phi 52.5$
G41P	(75)	$\phi 42$
G52P	(86)	$\phi 52.5$

\* Refer to page 72 for the dimensions of the metal bowl option filter/regulator and page 131 for the lubricator.

#### ● C8010-W



Pressure gauge attached optional dimensions table

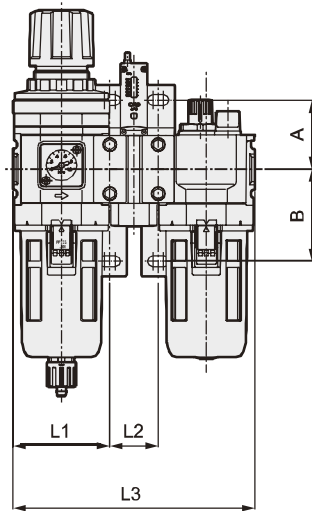
Attached pressure gauge	Q	R
G49P	(84.5)	$\phi 43.5$
G59P	(87)	$\phi 52$
G40P	(86.5)	$\phi 42.5$
G50P	(86.5)	$\phi 52.5$
G41P	(85)	$\phi 42$
G52P	(98)	$\phi 52.5$

● Refer to page 72 for the dimensions of the metal bowl option filter/regulator and page 131 for the lubricator.

# W.L Combination

## Option assembly dimensions

● C1010-W to C8010-W



Model no.	A	B
C1010-W	35	45
C3010-W	45	60
C4010-W		
C8010-W	50	70

Assembled option Model no.	S			P			V			K			SV			SK			PV			PK		
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
C1010-W	40	28	108	-	-	-	40	40	120	-	-	-	40	68	148	-	-	-	-	-	-	-	-	-
C3010-W	63	31.5	157.5	63	80	206	63	63	189	63	63	189	63	94.5	220.5	63	94.5	220.5	63	143	269	63	143	269
C4010-W	80	31.5	191.5	80	80	240	80	80	223	80	80	223	80	111.5	271.5	80	111.5	271.5	80	160	303	80	160	303
C4010-20-W <sup>Note 1</sup>	100	31.5	231.5	100	80	280	100	80	263	100	80	263	100	111.5	294.5	100	111.5	294.5	100	160	343	100	160	343
C8010-W	100	50	250	-	-	-	-	-	-	100	100	290	-	-	-	100	150	340	-	-	-	-	-	-

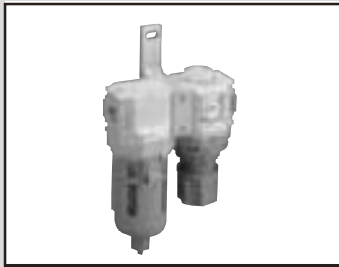
L1: Dimensions from the IN edge to center of the T-type bracket mounting hole  
 L2: Spacing dimensions of the mounting hole from the first T-type bracket to the second T-type bracket  
 L3: Dimensions from the IN edge to the OUT edge

\* Refer to the General Catalog for details on bracket mounting hole dimensions.  
 Note 1. The piping adapter is assembled on the OUT side.  
 Piping adapter A400-20-W is assembled on both ends of C4010-20-W.

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MEMO

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F.R.L. combination standard white Series  
**C1020/C2520/C3020-W**  
**C4020/C6020/C8020-W Series**

Filter and regulator integrated

Port size: 1/8 to 1



**Specifications**

Descriptions		C1020-W	C2520-W	C3020-W	C4020-W	C6020-W	C8020-W
Appearance							
Components	Filter	F1000-W	F3000-W	F3000-W	F4000-W	F6000-W	F8000-W
	Regulator	R1000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
Working fluid		Compressed air					
Max. working pressure MPa		1.0					
Withstanding pressure MPa		1.5					
Ambient temperature range °C		5 to 60					Note 6
Filtration rating μm		5					
Set pressure range MPa		0.05 to 0.85 <sup>Note 2</sup>	0.05 to 0.85				
Relief		With relief mechanism					
Drain capacity cm <sup>3</sup>		12	45	45	80	80	80 (Note 1)
Port size Rc, NPT, G		1/8, 1/4 (3/8 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8, 1/2 (3/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)
Product weight kg		0.28	0.65	0.79	1.25	2.07	2.93
Standard accessories		Pressure gauge, bracket, bowl guard					

Note 1: Drainage accumulates up to 170 cm<sup>3</sup> only with the manual drain cock.

Note 2: When using □

Refer to the maximum working flow table (page 83) for F1000-W-F1 with an automatic drain for details on maximum working flow. Set the working flow to less than the maximum working flow.

Note 3: The automatic drain's minimum operating pressure for "F" or "FF" with an automatic drain is 0.1 MPa. Air is purged with initial drainage until pressure reaches 0.1 MPa.

Note 4: The automatic drain's minimum operating pressure for "F1" or "FF1" with an automatic drain is 0.15 MPa.

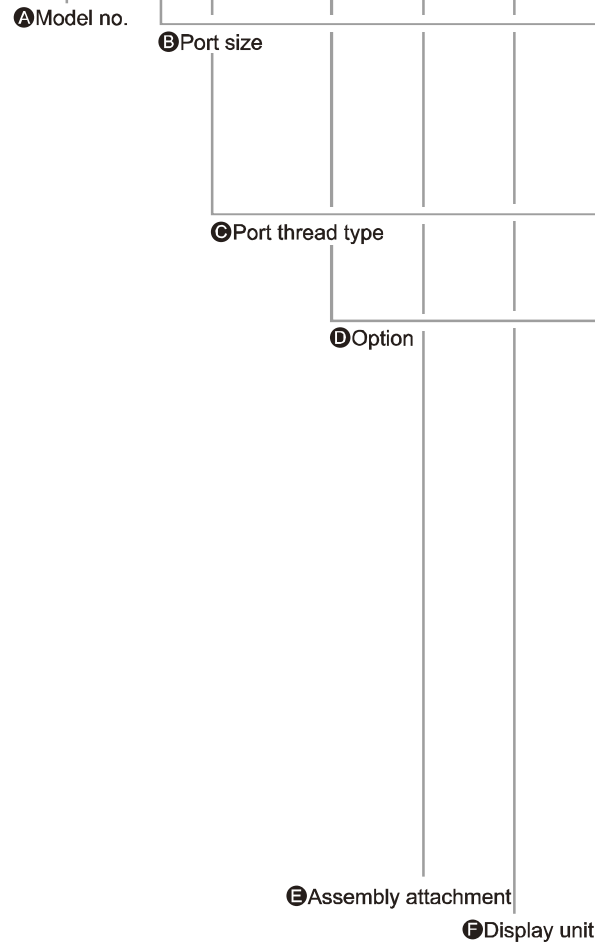
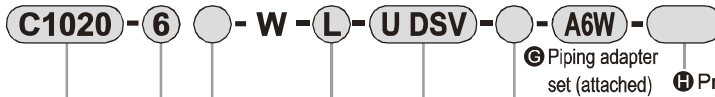
Note 5: When element option "Y" is selected, refer to page 83 for maximum flow. Set the working flow to less than the maximum working flow.

Note 6: The working temperature range of the pressure switch with indicator PPD assembly "R1" is 5 to 50°C.

# F.R Combination

How to order

How to order



\* Refer to page 9 for explanation of an option.

A Model no.					
C 1020	C 2520	C 3020	C 4020	C 6020	C 8020

Symbol	Descriptions						
<b>B Port size</b>							
6	1/8	●					
8	1/4	●	●	●	●		
10	3/8		●	●	●		
15	1/2			●			
20	3/4				● <sup>*8</sup>		
25	1					●	●

<b>C Port thread type</b>		Note 1					
Blank	Rc thread	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●

<b>D Option</b>		Note 2					
Drainage	Blank	Filter with manual drain cock	●	●	●	●	●
	F	Filter/automatic drain with manual override (NO type: Exhaust: without pressurized)	●	●	●	●	●
	F1	Filter/automatic drain with manual override (NC type: No exhaust: without pressurized)	●	●	●	●	●
	FF	Filter/large automatic drain with manual override (NO type: Exhaust: without pressurized)					●
Note 3	FF1	Filter/large automatic drain with manual override (NC type: No exhaust: without pressurized)					●
	Blank	Polycarbonate bowl	●	●	●	●	●
	Z	Nylon bowl	●	●	●	●	●
	M	Metal bowl		●	●	●	●
Bowl material	M1	Metal bowl with manual drain cock		●	●	●	●
	Blank	5 m	●	●	●	●	●
Element	Y	0.3 m (submicron) Note 4	●	●	●	●	●
	Blank	Without differential pressure detection port	●	●	●	●	●
Differential pressure detection	Q	With differential pressure detection port (Rc1/4)					●
	Blank	0.05 to 0.85MPa	●	●	●	●	●
Pressure range	L	0.05 to 0.35MPa	●	●	●	●	●
	Blank	With relief mechanism	●	●	●	●	●
Relief	N	Nonrelief type	●	●	●	●	●
	Blank	With standard pressure gauge (G401-W)	●	●	●	●	●
Pressure gauge	T	Without pressure gauge (a pressure gauge port (Rc1/4) is assembled with sealed)	●	●	●	●	●
	T8	Pressure gauge attached (a pressure gauge port (Rc1/4) is assembled by open)	●	●	●	●	●
	T6 Note 6	Digital pressure sensor PPX attached option	●	●	●	●	●
	R1	Pressure switch with display PPD assembly	●	●	●	●	●
X1	IN/OUT reverse flow (right → left)	●	●	●	●	●	

<b>E Assembly attachment</b>		Pages 133 to 144, 149, 150					
Blank	Without assembly attachment type	●	●	●	●	●	●
U	Assembly attachment type Note 5	●	●	●	●	●	●
Assembled	D	Distributor (D101-W, D401-W, D801-W)	●	●	●	●	●
	S	Pressure switch (P1100-W, 4100-W, 8100-W)	●	●	●	●	●
	P	Pressure switch (P4000-W)	●	●	●	●	●
	V	Shut-off valve (V1000-W, 3000-W)	●	●	●	●	●
	K	Lockout valve (V3010-W)	●	●	●	●	●

<b>F Display unit</b>							
Blank	MPa display, Rc thread	●	●	●	●	●	●
J1	MPa display, NPT, G thread	●	●	●	●	●	●

<b>G Piping adapter set (attached)</b>		Pages 151 to 153					
Blank	Not attached	●	●	●	●	●	●
A6*W	1/8 piping adapter set	●	●	●	●	●	●
A8*W	1/4 piping adapter set	●	●	●	●	●	●
A10*W	3/8 piping adapter set	●	●	●	●	●	●
A15*W	1/2 piping adapter set		●	●	●	●	●
A20*W	3/4 piping adapter set			●	●	●	●
A25*W	1 piping adapter set				●	●	●
A32*W	1 1/4 piping adapter set					●	●

<b>* Adaptor screw type</b>							
Blank	Rc thread	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●

<b>H Pressure gauge option (attached)</b>		Page 194					
Blank	Not attached	●	●	●	●	●	●
G49P	G49D-8-P10 (L: G49D-8-P04)	●	●	●	●	●	●
G59P	G59D-8-P10 (L: G59D-8-P04)	●	●	●	●	●	●
G40P	G40D-8-P10 (L: G40D-8-P04)	●	●	●	●	●	●
G50P	G50D-8-P10 (L: G50D-8-P04)	●	●	●	●	●	●
G41P	G41D-8-P10 (L: G41D-8-P04)	●	●	●	●	●	●
G52P	G52D-8-P10 (L: G52D-8-P10)	●	●	●	●	●	●
R2 Note 6	Digital pressure sensor: PPX-R10N-6M	●	●	●	●	●	●

## Note on model no. selection

Note 1: When G threads or NPT threads are selected, the IN, OUT, gauge port, and drain port (metal bowl automatic drain) are available, as are attachments P and V.

Note 2: Select options for each drainage, bowl material, element, differential pressure detection, and regulator items.

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

Note 3: Refer to page 11 for the automatic drain use conditions.

Note 4: Refer to page 83 for maximum processing flow when option "Y" is selected.

Note 5: Assembly attachment installation position

Symbol	Attachment installation position	Applicable model
D	F + (D) + R	C1020-W to C8020-W
S or P	F + R + (S, P)	C1020-W to C8020-W (Excluding 1000, 6000, 8000 series for "P")
V or K	F + R + (V, K)	C1020-W to C8020-W (Excluding 6000, 8000 series for "V", 1000 series for "K")

Note) Indicate "U" + "D", "S", "P", "V", and "K" when selecting an assembly attachment.

Use custom combinations specifications for any other combination.

Note 6: When option "T6" is selected, only "blank" or "R2" is selected for the H pressure gauge (enclosed). The digital pressure sensor PPX mounting port (Rc1/8) is assembled ventilated.

Note 7: If NPT is selected for the G piping thread type, a NPT pressure gauge is enclosed. If Rc or G thread is selected, an R thread pressure gauge is enclosed.

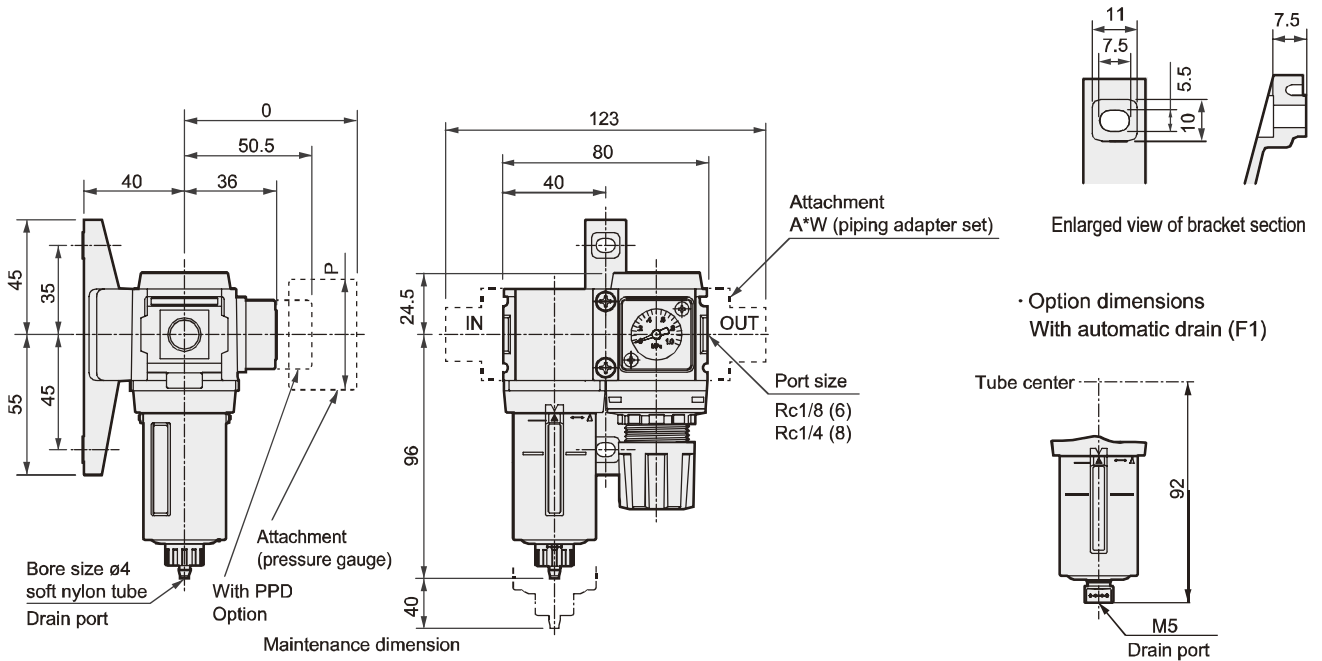
Note 8: Piping adapter A400-20\*-W is assembled on both ends of the C4020-20\*-W.



# F.R Combination

## Dimensions

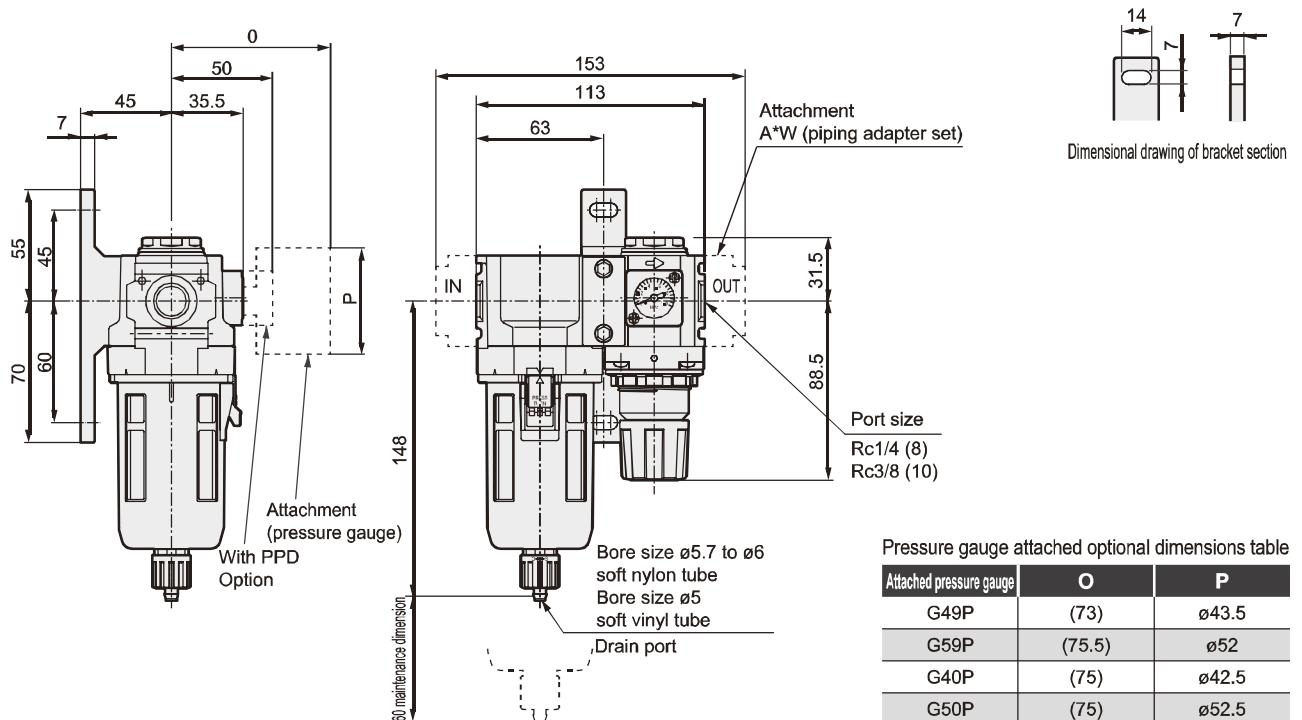
● C1020-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(73.5)	$\phi 43.5$
G59P	(76)	$\phi 52$
G40P	(75.5)	$\phi 42.5$
G50P	(75.5)	$\phi 52.5$
G41P	(74)	$\phi 42$
G52P	(86)	$\phi 52.5$
R2	(74)	*30

● C2520-W



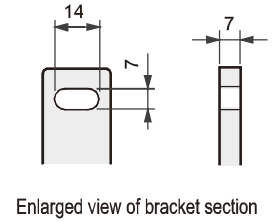
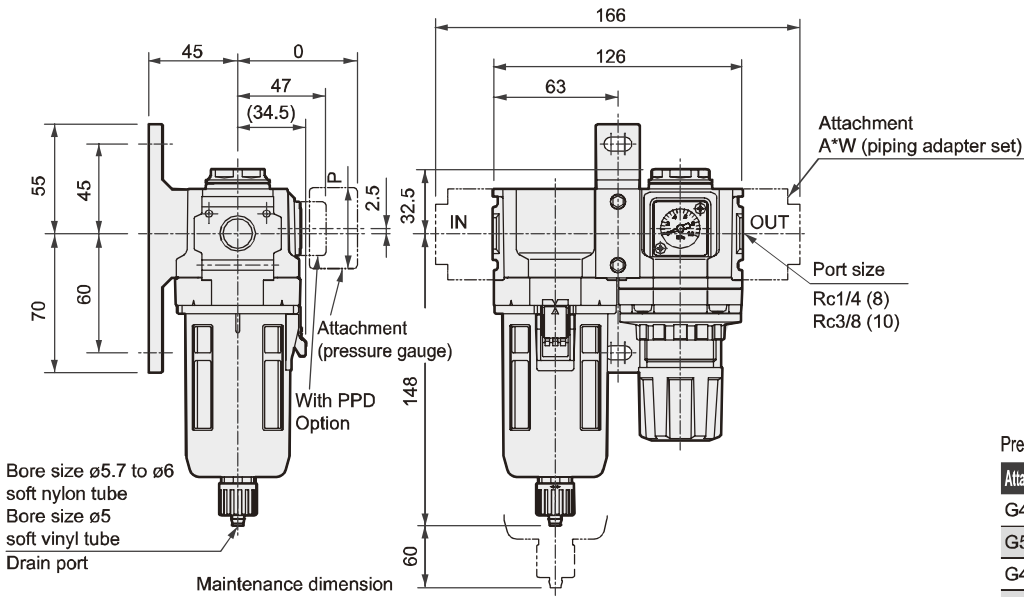
Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(73)	$\phi 43.5$
G59P	(75.5)	$\phi 52$
G40P	(75)	$\phi 42.5$
G50P	(75)	$\phi 52.5$
G41P	(73.5)	$\phi 42$
G52P	(85.5)	$\phi 52.5$
R2	(73)	*30

### Dimensions



#### ● C3020-W

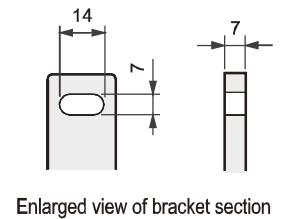
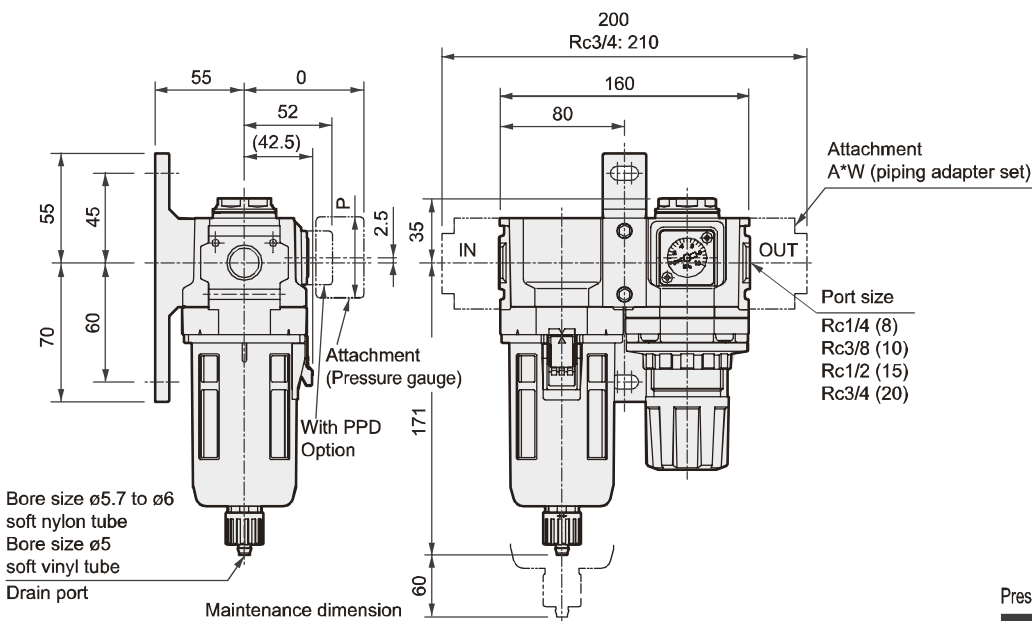


Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(69.5)	$\phi 43.5$
G59P	(72)	$\phi 52$
G40P	(71.5)	$\phi 42.5$
G50P	(71.5)	$\phi 52.5$
G41P	(70)	$\phi 42$
G52P	(82)	$\phi 52.5$
R2	(69.5)	*30

● Refer to page 87 for the metal bowl optional dimensions.

#### ● C4020-W



Pressure gauge attached optional dimensions table

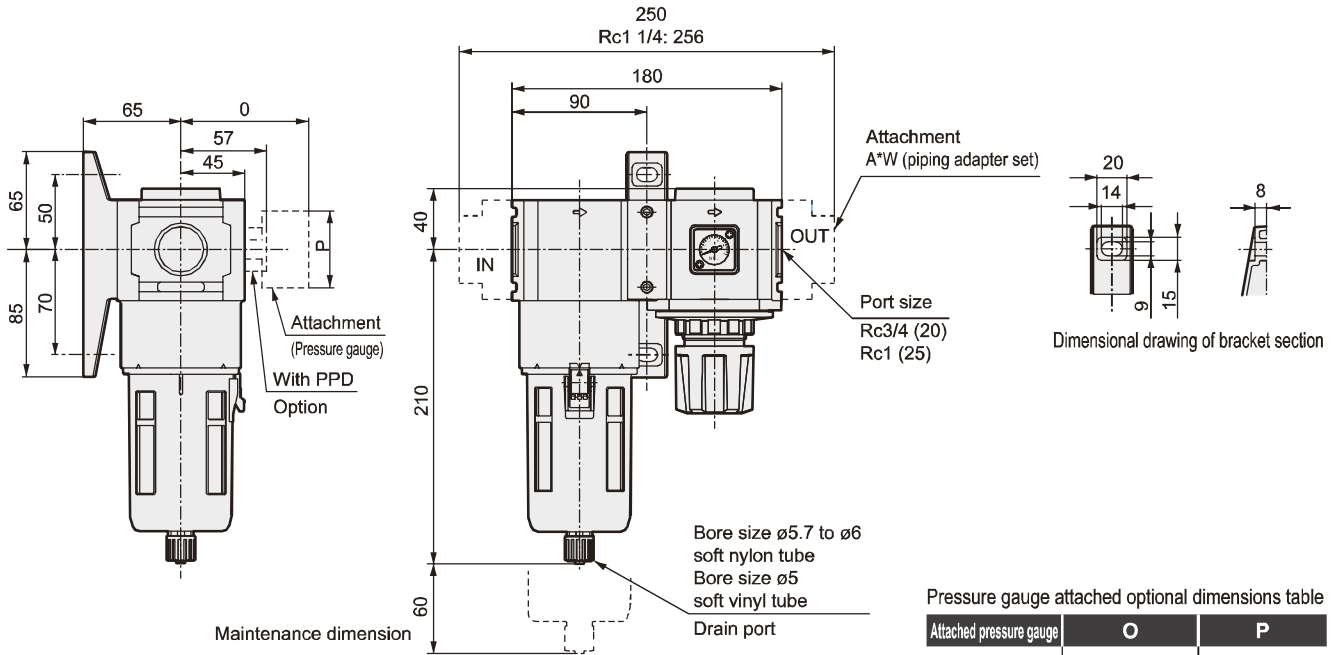
Attached pressure gauge	O	P
G49P	(74.5)	$\phi 43.5$
G59P	(77)	$\phi 52$
G40P	(76.5)	$\phi 42.5$
G50P	(76.5)	$\phi 52.5$
G41P	(75)	$\phi 42$
G52P	(86)	$\phi 52.5$
R2	(75)	*30

● Refer to page 87 for the metal bowl optional dimensions.

# F.R Combination

## Dimensions

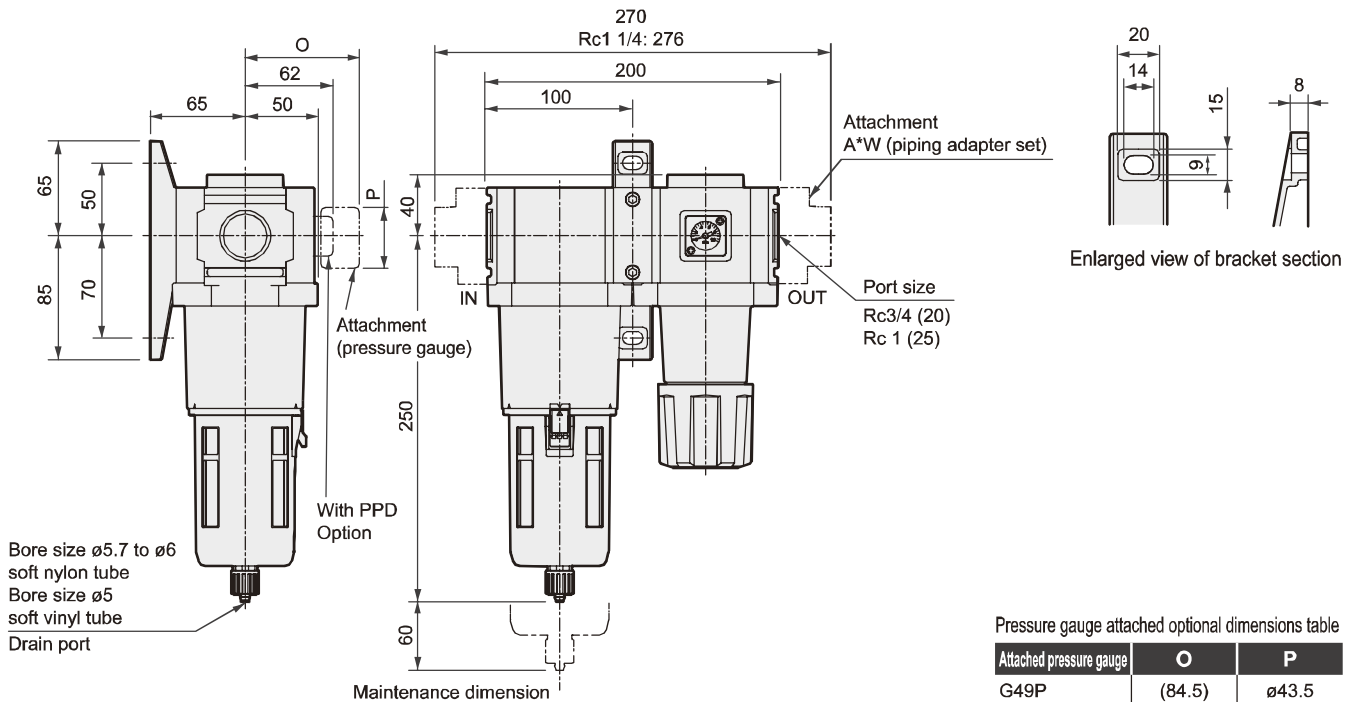
### ● C6020-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(79.5)	$\phi 43.5$
G59P	(82)	$\phi 52$
G40P	(81.5)	$\phi 42.5$
G50P	(81.5)	$\phi 52.5$
G42P	(80)	$\phi 42$
G52P	(93)	$\phi 52.5$
R2	(80)	*30

### ● C8020-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(84.5)	$\phi 43.5$
G59P	(87)	$\phi 52$
G40P	(86.5)	$\phi 42.5$
G50P	(86.5)	$\phi 52.5$
G41P	(85)	$\phi 42$
G52P	(98)	$\phi 52.5$
R2	(85)	*30

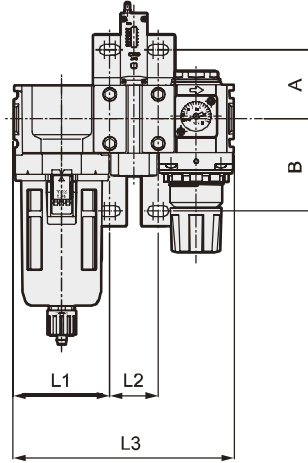
● Refer to page 87 for the metal bowl optional dimensions.

# F.R Combination

## Option assembly dimensions

### Option assembly dimensions

● C1020-W to C8020-W



Model no.	A	B
C1020-W	35	45
C2520-W	45	60
C3020-W		
C4020-W	50	70
C6020-W		
C8020-W		

Assembled option Model no.	D			S (Note 1)			P			V			K			DS (Note 1)			DP			DV			DK		
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
C1020-W	40	28	108	40	40	129.5	□	□	□	40	40	120	□	□	□	40	68	157.5	□	□	□	40	68	148	□	□	□
C2520-W	63	31.5	144.5	63	50	164.5	63	50	193	63	50	176	63	50	176	63	81.5	196	63	81.5	224.5	63	81.5	207.5	63	81.5	207.5
C3020-W	63	31.5	157.5	63	63	177.5	63	63	206	63	63	189	63	63	189	63	94.5	209	63	94.5	237.5	63	94.5	220.5	63	94.5	220.5
C4020-W	80	31.5	191.5	80	80	211.5	80	80	240	80	80	223	80	80	223	80	111.5	243	80	111.5	271.5	80	111.5	254.5	80	111.5	254.5
C4020-20-W <sup>Note 1</sup>	100	31.5	231.5	100	80	231.5	100	80	280	100	80	263	100	80	263	100	111.5	263	100	111.5	311.5	100	111.5	294.5	100	111.5	294.5
C6020-W	90	50	230	90	90	265	□	□	□	□	□	□	90	90	270	90	140	315	□	□	□	□	□	□	90	140	320
C8020-W	100	50	250	100	100	285	□	□	□	□	□	□	100	100	290	100	150	335	□	□	□	□	□	□	100	150	340
Assembled option Model no.	DSV			DSK			DPV			DPK			SV			SK			PV			PK					
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3			
C1020-W	40	96	176	□	□	□	□	□	□	□	□	□	40	68	148	□	□	□	□	□	□	□	□	□			
C2520-W	63	113	239	63	113	239	63	162	287.5	63	162	287.5	63	81.5	207.5	63	81.5	207.5	63	130	256	63	130	256			
C3020-W	63	126	252	63	126	252	63	175	300.5	63	175	300.5	63	94.5	220.5	63	94.5	220.5	63	143	269	63	143	269			
C4020-W	80	143	286	80	143	286	80	191.5	334.5	80	191.5	334.5	80	111.5	254.5	80	111.5	254.5	80	160	303	80	160	303			
C4020-20-W <sup>Note 1</sup>	100	143	326	100	143	326	100	191.5	374.5	100	191.5	374.5	100	111.5	294.5	100	111.5	294.5	100	160	343	100	160	343			
C6020-W	□	□	□	90	190	370	□	□	□	□	□	□	□	□	□	90	140	320	□	□	□	□	□	□			
C8020-W	□	□	□	100	200	390	□	□	□	□	□	□	□	□	□	100	150	340	□	□	□	□	□	□			

L1: Dimensions from the IN edge to center of the T-type bracket mounting hole  
 L2: Spacing dimensions of the mounting hole from the first T-type bracket to the second T-type bracket  
 L3: Dimensions from the IN edge to the OUT edge

\* Refer to the General Catalog for details on bracket mounting hole dimensions.

Note 1. The piping adapter is assembled on the OUT side.


Piping adapter A400-20\*-W is assembled on both ends of the C4020-20\*-W.



F.M.R. combination standard white Series  
**C1030/C2530/C3030-W**  
**C4030/C6030/C8030-W Series**







Integrated filter, oil mist filter, and regulator

Port size: 1/8 to 1

JIS symbol 



## Specifications

Descriptions		C1030-W	C2530-W	C3030-W	C4030-W	C6030-W	C8030-W
Appearance							
Components	Filter	F1000-W	F3000-W	F3000-W	F4000-W	F6000-W	F8000-W
	Oil mist filter	M1000-W	M3000-W	M3000-W	M4000-W	M6000-W	M8000-W
	Regulator	R1000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
Working fluid		Compressed air					
Max. working pressure MPa		1.0					
Withstanding pressure MPa		1.5					
Ambient temperature range °C		5 to 60					
Set pressure range MPa		0.05 to 0.85 <sup>Note 3</sup>	0.05 to 0.85				
Relief		With relief mechanism					
Port size	Rc, NPT, G	1/8, 1/4 (3/8 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8, 1/2 (3/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)
Product weight	kg	0.40	1.02	1.10	1.86	3.19	4.45
Secondary oil concentration (Oil mist filter outlet side)		0.01mg/m <sup>3</sup> or less					
Maximum flow rate (Note 1)	m <sup>3</sup> /min	0.15	0.36	0.36	0.825	1.27	2.6

Note 1: The maximum flow is for a primary pressure of 0.7 MPa. Refer to page 83 for the maximum flow of element option "Y".

Note 2: Refer to page 91 for details on other oil mist filters.

Note 3: When "F" with an automatic drain is selected, the supply air pressure is 0.15 MPa or more. Air filter and automatic drain are purged with initial drainage until pressure reaches 0.1 MPa.

Note 4: When "F1" with an automatic drain is selected, the filter, oil mist filter, and NC automatic drain are assembled, but the supply air pressure must be 0.15 MPa or more.

Note 5: When "F1" with an automatic drain is selected for the C1030-W series, the NC automatic drain is assembled for both the filter and oil mist filter. Minimum operation pressure is 0.2 MPa and maximum operation pressure is 0.7 MPa. Refer to the maximum processing flow table (page 93) for the M1000-W-F1 automatic drain for the maximum working flow.

Note 6: The working temperature range of the pressure switch with indicator PPD assembly "R1" is 5 to 50°C.

# F.M.R Combination

How to order

## How to order

**C1030** - **6** - **W** - **L** - **U DSV** - **A6W** - **○**

Ⓐ Model no.

Ⓑ Port size

Ⓒ Port thread type

Ⓓ Option

Ⓔ Assembly attachment

Ⓕ Display unit

\* Refer to page 9 for explanation of an option.

Ⓔ Piping adapter set (attached)    Ⓕ Pressure gauge option (attached)

Ⓐ Model no.					
C	C	C	C	C	C
1	2	3	4	6	8
0	5	0	0	0	0
3	3	3	3	3	3
0	0	0	0	0	0

Symbol	Descriptions						
<b>Ⓑ Port size</b>							
<b>6</b>	1/8	●					
<b>8</b>	1/4	●					
<b>10</b>	3/8	●	●				
<b>15</b>	1/2			●			
<b>20</b>	3/4			●	●		
<b>25</b>	1				●	●	

<b>Ⓒ Port thread type</b>		<b>Note 1</b>					
<b>Blank</b>	Rc thread	●	●	●	●	●	●
<b>N</b>	NPT thread	●	●	●	●	●	●
<b>G</b>	G thread	●	●	●	●	●	●

<b>Ⓓ Option</b>		<b>Note 2</b>						
<b>Drainage</b> Note 3, Note 4	<b>Blank</b>	With manual drain cock	●	●	●	●	●	●
	<b>F</b>	Automatic drain with manual override (NO type: Exhaust without pressurized)		●	●	●	●	●
	<b>F1</b>	Automatic drain with manual override (NC type: No exhaust without pressurized)	●	●	●	●	●	●
	<b>FF</b>	Large automatic drain with manual override (NO type: Exhaust without pressurized)						●
	<b>FF1</b>	Large automatic drain with manual override (NC type: No exhaust without pressurized)						●
<b>Bowl material</b>	<b>Blank</b>	Polycarbonate bowl	●	●	●	●	●	●
	<b>Z</b>	Nylon bowl	●	●	●	●	●	●
	<b>M</b>	Metal bowl		●	●	●	●	●
	<b>M1</b>	Metal bowl with manual drain cock		●	●	●	●	●
<b>Element</b>	<b>Blank</b>	5 m	●	●	●	●	●	●
	<b>Y</b>	0.3 m (submicron) <span style="float:right">Note 5</span>						
<b>Differential pressure detection</b>	<b>Blank</b>	Without differential pressure detection port	●	●	●	●	●	●
	<b>Q</b>	With differential pressure detection port (Rc1/4)					●	●
<b>Pressure range</b>	<b>Blank</b>	0.05 to 0.85MPa	●	●	●	●	●	●
	<b>L</b>	0.05 to 0.35MPa	●	●	●	●	●	●
<b>Relief</b>	<b>Blank</b>	With relief mechanism	●	●	●	●	●	●
	<b>N</b>	Nonrelief type	●	●	●	●	●	●
<b>Pressure gauge</b>	<b>Blank</b>	With standard pressure gauge (G401-W)	●	●	●	●	●	●
	<b>T</b>	Without pressure gauge (a pressure gauge port (Rc1/4) is assembled with sealed)	●	●	●	●	●	●
	<b>T8</b>	Pressure gauge attached (a pressure gauge port (Rc1/4) is assembled by open)	●	●	●	●	●	●
	<b>T6</b> <span style="float:right">Note 7</span>	Digital pressure sensor PPX attached option	●	●	●	●	●	●
<b>Flow direction</b>	<b>Blank</b>	Standard flow (left → right)	●	●	●	●	●	●
	<b>X1</b>	Reverse flow (right → left)	●	●	●	●	●	●

### ⚠ Note on model no. selection

Note 1: When G threads or NPT threads are selected, the IN, OUT, gauge port, and drain port (metal bowl automatic drain) are available, as are attachments P and V.

Note 2: Select options for each drainage, bowl material, element, differential pressure detection, and regulator items. When selecting options for several items, list options in order from the top.

Note 3: Refer to page 11 for the automatic drain use conditions.

Note 4: When option symbol "F" is selected, the NO automatic drain is enclosed for the air filter and the NC automatic drain for the oil mist filter.

For "FF" and "FF1", only the filter has a large discharge rate. The oil mist filter is a normal NC automatic drain.

Note 5: Refer to page 83 for maximum processing flow when option "Y" is selected.

Note 6: Mounting position for assembly attachments

Symbol	Attachment installation position	Applicable model
D	F + M + (D) + R	C1030-W to C8030-W
S or P	F + M + R + (S, P)	C1030-W to C8030-W (Excluding 1000, 6000, 8000 series for "P")
V or K	F + M + R + (V, K)	C1030-W to C4030-W (Excluding 6000, 8000 series for "V", 1000 series for "K")

Note) Indicate "U" + "D", "S", "P", "V", and "K" when selecting an assembly attachment.

Use custom combinations specifications for any other combination.

Note 7: When option "T6" is selected, only "blank" or "R2" is selected for the Ⓕ pressure gauge (enclosed). The digital pressure sensor PPX mounting port (Rc1/8) is assembled ventilated.

Note 8: If NPT is selected for the Ⓒ piping thread type, a NPT pressure gauge is enclosed. If Rc or G thread is selected, an R thread pressure gauge is enclosed.

Note 9: Piping adapter A400-20\*-W is assembled on both ends of the C4030-20\*-W.

<b>Ⓔ Assembly attachment</b>		<b>Pages 133 to 144, 149, 150</b>					
<b>Blank</b>	Without assembly attachment type	●	●	●	●	●	●
<b>U</b>	Assembly attachment type <span style="float:right">Note 5</span>	●	●	●	●	●	●
<b>Assembled</b>	<b>D</b>	Distributor (D101-W, D401-W, D801-W)	●	●	●	●	●
	<b>S</b>	Pressure switch (P1100-W, 4100-W, 8100-W)	●	●	●	●	●
	<b>P</b>	Pressure switch (P4000-W)		●	●	●	●
	<b>V</b>	Shut-off valve (V1000-W, 3000-W)	●	●	●	●	●
	<b>K</b>	Lockout valve (V3010-W)		●	●	●	●

<b>Ⓕ Display unit</b>							
<b>Blank</b>	MPa display, Rc thread	●	●	●	●	●	●
<b>J1</b>	MPa display, NPT, G thread	●	●	●	●	●	●

<b>Ⓔ Piping adapter set (attached)</b>		<b>Pages 151 to 153</b>					
<b>Blank</b>	Not attached	●	●	●	●	●	●
<b>A6*W</b>	1/8 piping adapter set	●					
<b>A8*W</b>	1/4 piping adapter set	●	●	●	●		
<b>A10*W</b>	3/8 piping adapter set	●	●	●	●		
<b>A15*W</b>	1/2 piping adapter set		●	●	●		
<b>A20*W</b>	3/4 piping adapter set				●	●	●
<b>A25*W</b>	1 piping adapter set					●	●
<b>A32*W</b>	1 1/4 piping adapter set						●

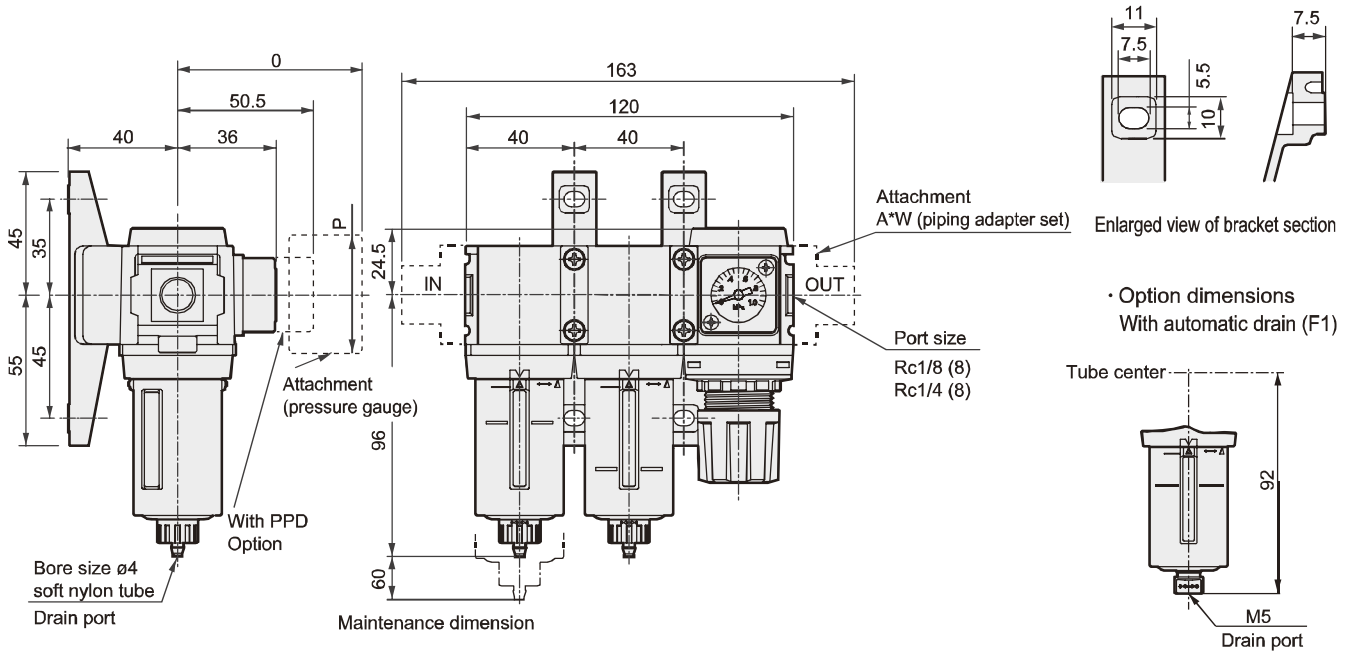
<b>* Adaptor screw type</b>							
<b>Blank</b>	Rc thread	●	●	●	●	●	●
<b>N</b>	NPT thread	●	●	●	●	●	●
<b>G</b>	G thread	●	●	●	●	●	●

<b>Ⓕ Pressure gauge option (attached)</b>		<b>Page 194</b>					
<b>Blank</b>	Not attached	●	●	●	●	●	●
<b>G49P</b>	G49D-8-P10 (L: G49D-8-P04)	●	●	●	●	●	●
<b>G59P</b>	G59D-8-P10 (L: G59D-8-P04)	●	●	●	●	●	●
<b>G40P</b>	G40D-8-P10 (L: G40D-8-P04)	●	●	●	●	●	●
<b>G50P</b>	G50D-8-P10 (L: G50D-8-P04)	●	●	●	●	●	●
<b>G41P</b>	G41D-8-P10 (L: G41D-8-P04)	●	●	●	●	●	●
<b>G52P</b>	G52D-8-P10 (L: G52D-8-P10)	●	●	●	●	●	●
<b>R2</b> <span style="float:right">Note 7</span>	Digital pressure sensor: PPX-R10N-6M	●	●	●	●	●	●

# F.M.R Combination

## Dimensions

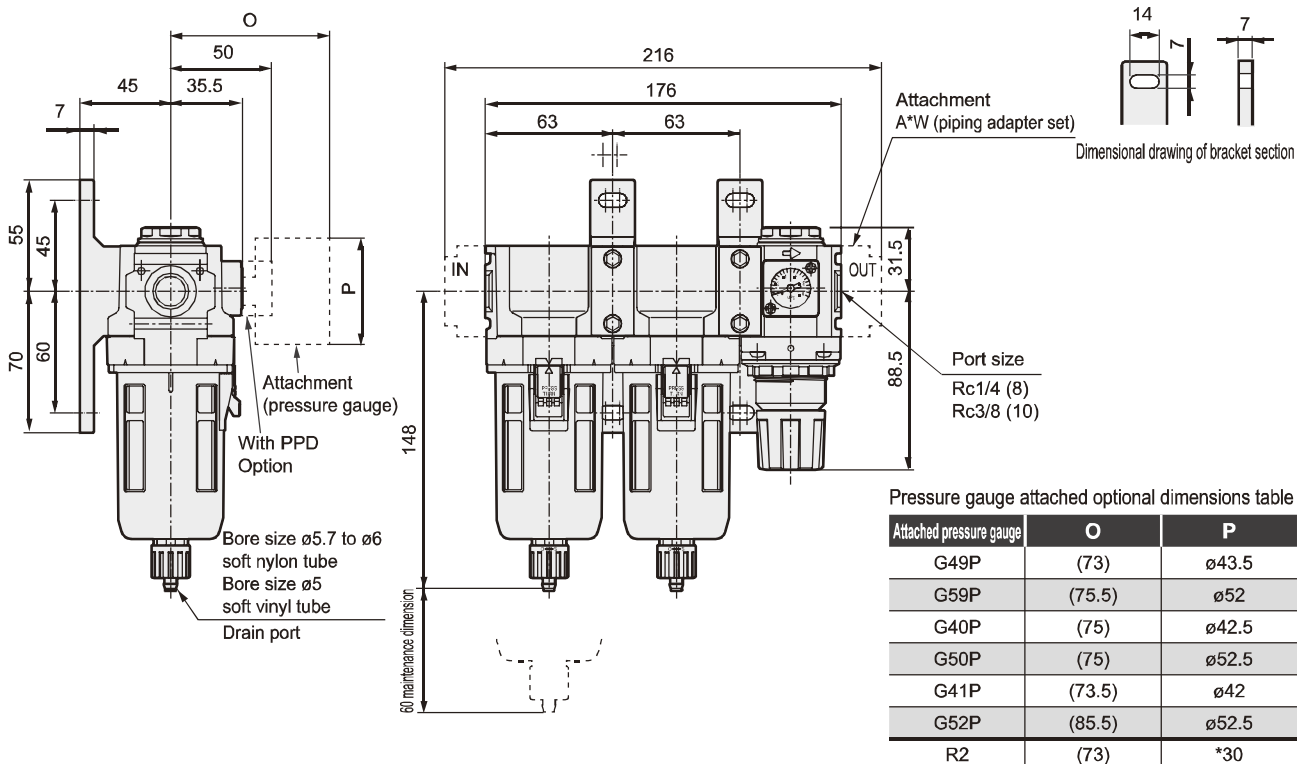
● C1030-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(73.5)	ø43.5
G59P	(76)	ø52
G40P	(75.5)	ø42.5
G50P	(75.5)	ø52.5
G41P	(74)	ø42
G52P	(86)	ø52.5
R2	(74)	*30

● C2530-W

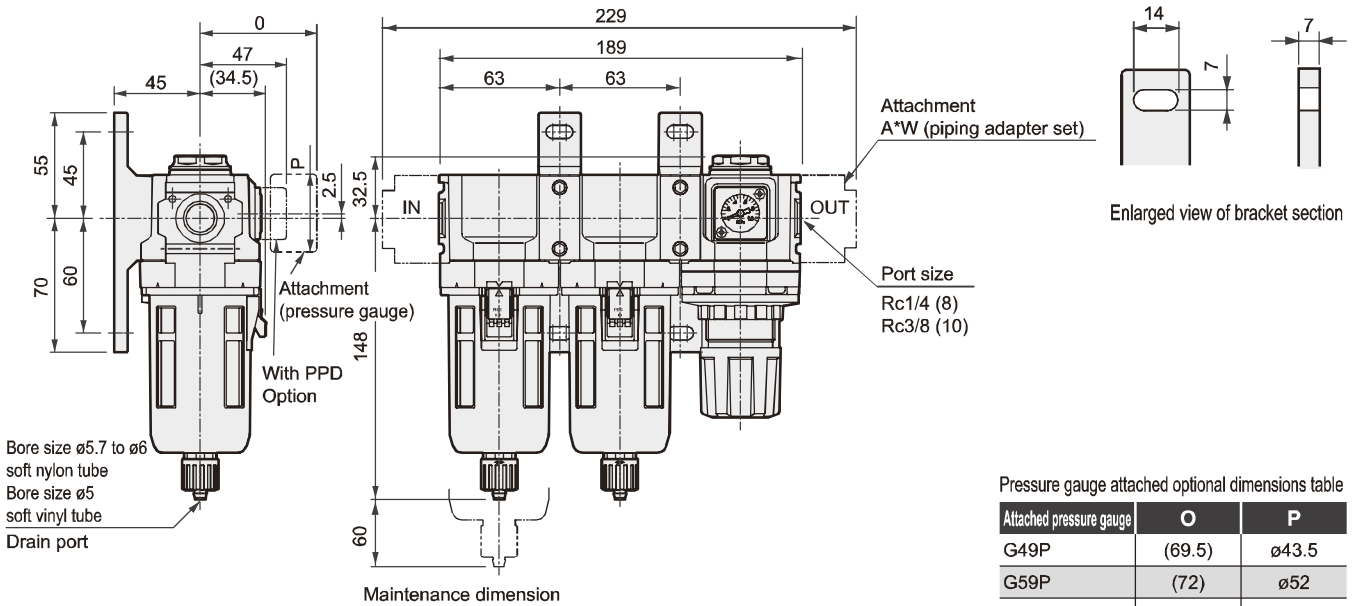


Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(73)	ø43.5
G59P	(75.5)	ø52
G40P	(75)	ø42.5
G50P	(75)	ø52.5
G41P	(73.5)	ø42
G52P	(85.5)	ø52.5
R2	(73)	*30

### Dimensions

#### ● C3030-W

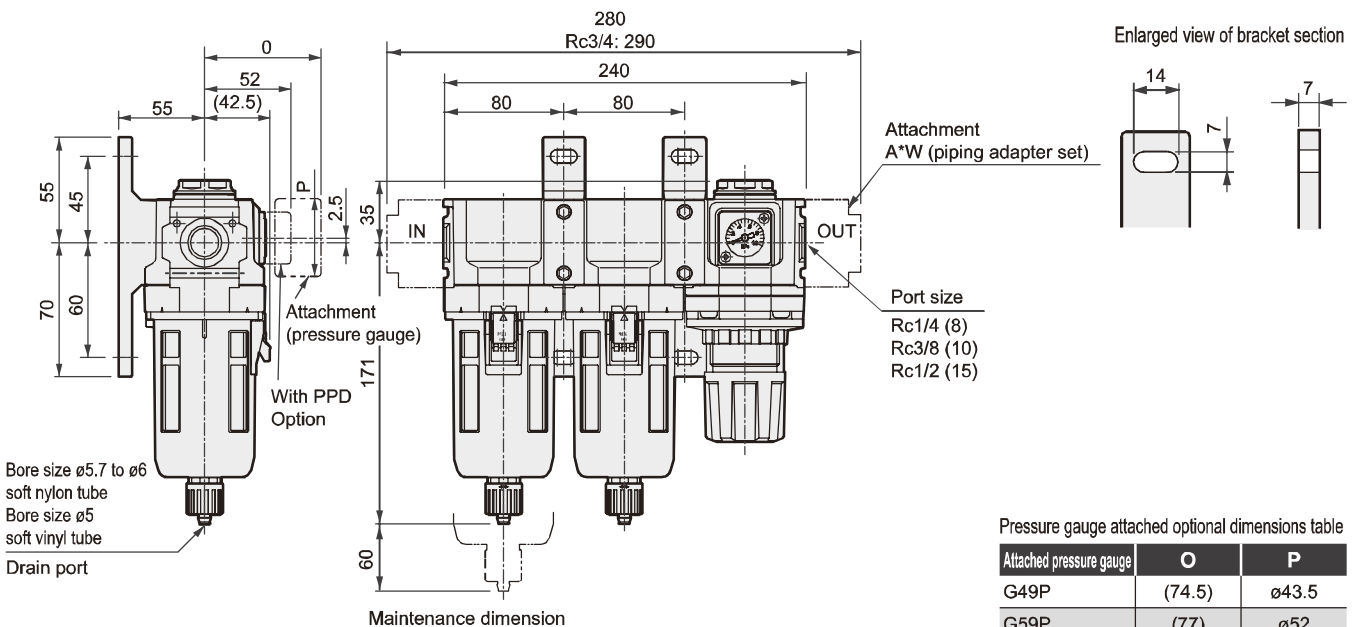


Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G50P	(71.5)	ø52.5
G41P	(70)	ø42
G52P	(82)	ø52.5
R2	(69.5)	*30

- Refer to page 87 for the dimensions of the metal bowl option filter and page 97 for the oil mist filter.

#### ● C4030-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G50P	(76.5)	ø52.5
G41P	(75)	ø42
G52P	(86)	ø52.5
R2	(75)	*30

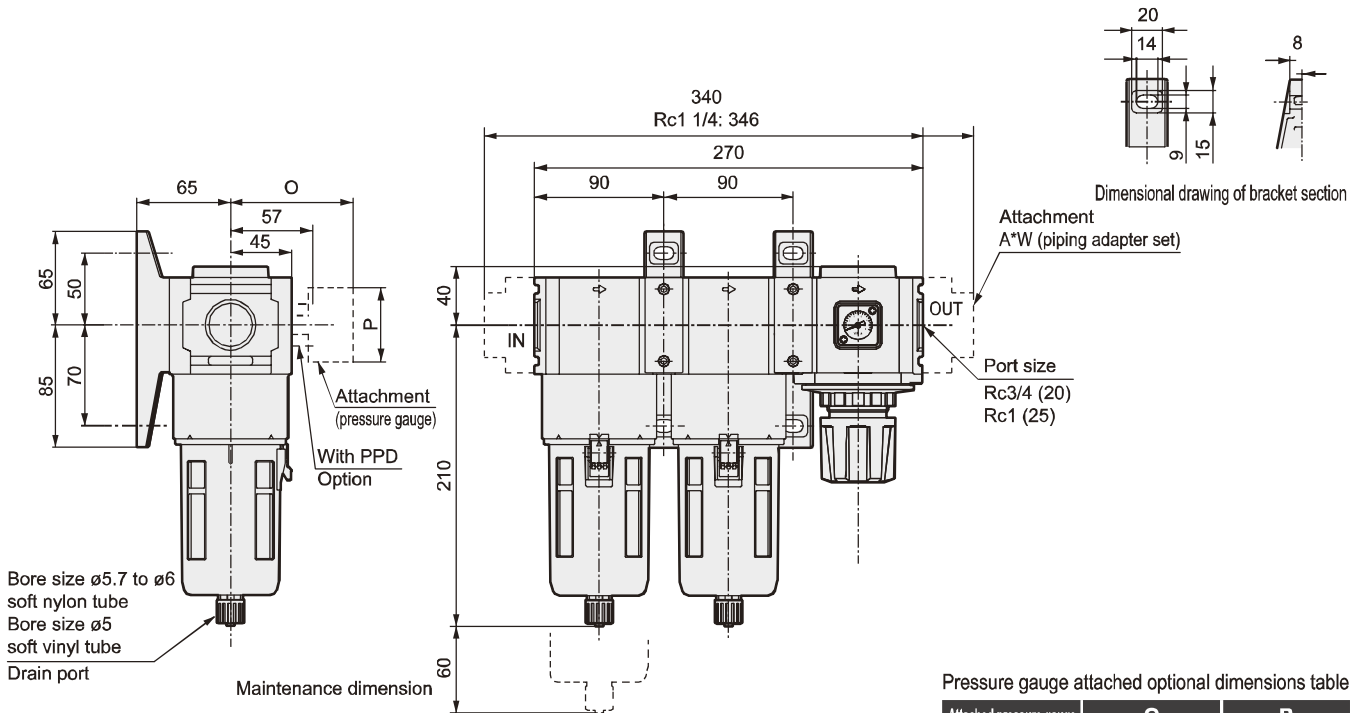
- Refer to page 87 for the dimensions of the metal bowl option filter and page 97 for the oil mist filter.



# F.M.R Combination

## Dimensions

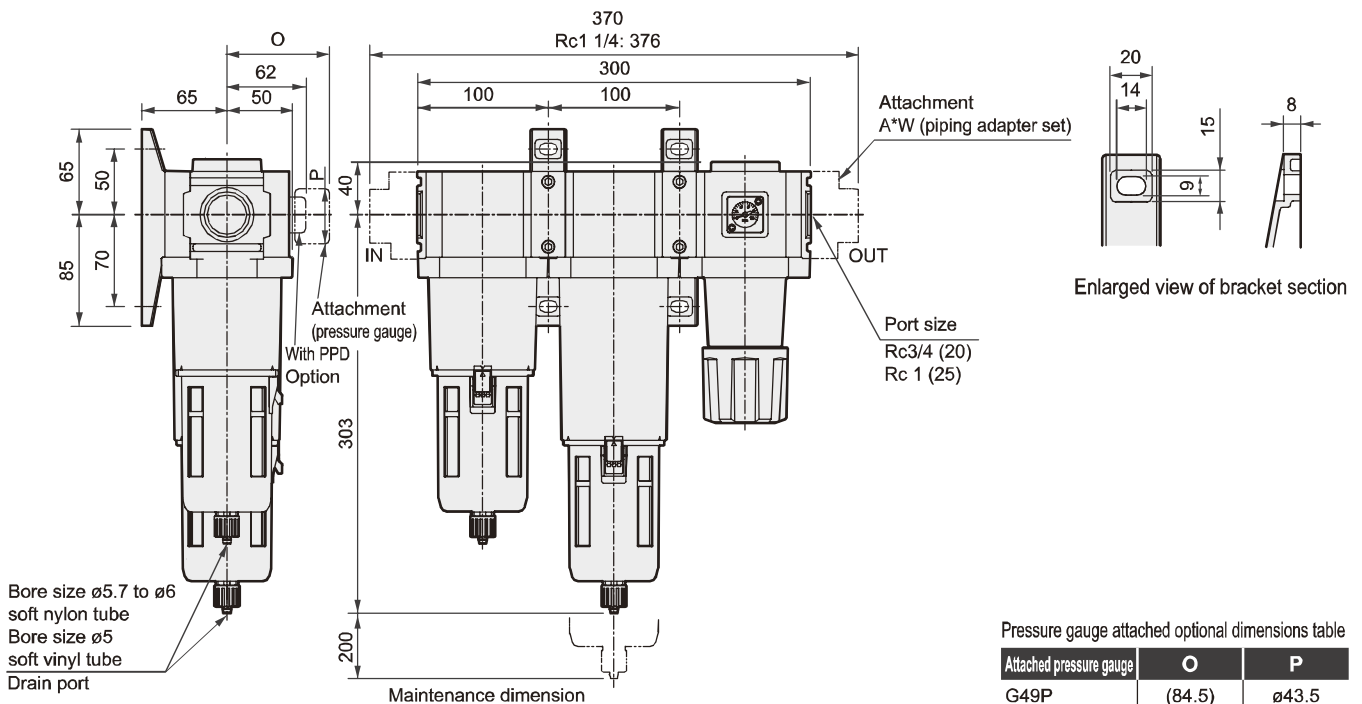
### ● C6030-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(79.5)	ø43.5
G59P	(82)	ø52
G40P	(81.5)	ø42.5
G50P	(81.5)	ø52.5
G42P	(80)	ø42
G52P	(93)	ø52.5
R2	(80)	*30

### ● C8030-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G50P	(86.5)	ø52.5
G41P	(85)	ø42
G52P	(98)	ø52.5
R2	(85)	*30

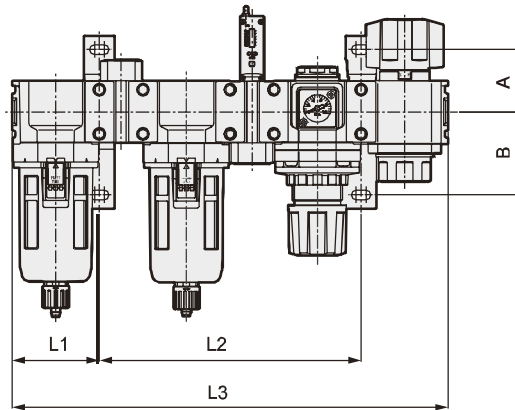
● Refer to page 87 for the dimensions of the metal bowl option filter and page 97 for the oil mist filter.

# F.M.R Combination

Option assembly dimensions

## Option assembly dimensions

● C1030-W to C8030-W



Model no.	A	B
C1030-W	35	45
C2530-W	45	60
C3030-W		
C4030-W		
C6030-W	50	70
C8030-W		

Assembled option	D			S (Note 1)			P			V			K			DS (Note 1)			DP			DV			DK		
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
C1030-W	40	68	148	40	80	169.5	□	□	□	40	80	160	□	□	□	40	108	197.5	□	□	□	40	108	188	□	□	□
C2530-W	63	94.5	207.5	63	113	227.5	63	113	256	63	113	239	63	113	239	63	144.5	259	63	144.5	287.5	63	144.5	270.5	63	144.5	270.5
C3030-W	63	94.5	220.5	63	126	240.5	63	126	269	63	126	252	63	126	252	63	157.5	272	63	157.5	300.5	63	157.5	283.5	63	157.5	283.5
C4030-W	80	111.5	271.5	80	160	291.5	80	160	320	80	160	303	80	160	303	80	191.5	323	80	191.5	351.5	80	191.5	334.5	80	191.5	334.5
C4030-20-W Note 1	100	111.5	311.5	100	160	311.5	100	160	360	100	160	343	100	160	343	100	191.5	343	100	191.5	391.5	100	191.5	374.5	100	191.5	374.5
C6030-W	90	140	320	90	180	355	□	□	□	□	□	□	90	180	360	90	230	405	□	□	□	□	□	□	90	230	410
C8030-W	100	150	350	100	200	385	□	□	□	□	□	□	100	200	390	100	250	435	□	□	□	□	□	□	100	250	440
Assembled option	DSV			DSK			DPV			DPK			SV			SK			PV			PK					
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3			
C1030-W	40	136	216	□	□	□	□	□	□	□	□	□	40	108	188.0	□	□	□	□	□	□	□	□	□			
C2530-W	63	176	302	63	176	302	63	225	351	63	225	351	63	144.5	270.5	63	144.5	270.5	63	193	319	63	193	319			
C3030-W	63	189	315	63	189	315	63	238	364	63	238	364	63	157.5	283.5	63	157.5	283.5	63	206	332	63	206	332			
C4030-W	80	223	366	80	223	366	80	271.5	414.5	80	271.5	414.5	80	191.5	334.5	80	191.5	334.5	80	240	383	80	240	383			
C4030-20-W Note 1	100	223	406	100	223	406	100	271.5	454.5	100	271.5	454.5	100	191.5	374.5	100	191.5	374.5	100	240	423	100	240	423			
C6030-W	□	□	□	90	280	460	□	□	□	□	□	□	□	□	□	90	230	410	□	□	□	□	□	□			
C8030-W	□	□	□	100	300	490	□	□	□	□	□	□	□	□	□	100	250	440	□	□	□	□	□	□			

L1: Dimensions from the IN edge to center of the T-type bracket mounting hole  
 L2: Spacing dimensions of the mounting hole from the first T-type bracket to the second T-type bracket  
 L3: Dimensions from the IN edge to the OUT edge

\* Refer to the General Catalog for details on bracket mounting hole dimensions.

Note 1. The piping adapter is assembled on the OUT side.

Piping adapter A400-20\*-W is assembled on both ends of the C4030-20\*-W.



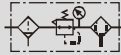
W.M. combination standard white Series

# C1040/C3040/C4040/C8040-W Series

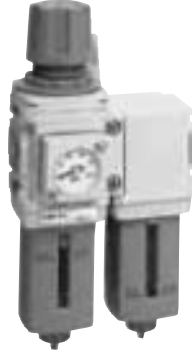



Filter, regulator and oil mist filter integrated

Port size: 1/8 to 1

JIS symbol



## Specifications

Descriptions		C1040-W	C3040-W	C4040-W	C8040-W
Appearance					
Components	Filter regulator	W1000-W	W3000-W	W4000-W	W8000-W
	Oil mist filter	M1000-W	M3000-W	M4000-W	M8000-W
Working fluid		Compressed air			
Max. working pressure MPa		1.0			
Withstanding pressure MPa		1.5			
Ambient temperature range °C		5 to 60			Note 6
Set pressure range MPa		0.1 to 0.85 <sup>Note 3</sup>	0.1 to 0.85		
Relief		With relief mechanism			
Port size	Rc, NPT, G	1/8, 1/4 (3/8 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8, 1/2 (3/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)
Product weight	kg	0.31	0.97	1.52	3.52
Secondary oil concentration		0.01mg/m <sup>3</sup> or less			
Maximum flow rate (Note 1)	m <sup>3</sup> /min	0.15	0.36	0.825	2.6

Note 1: Maximum flow rate is for the regulator setting pressure 0.7MPa. Refer to page 83 for the maximum flow of element option "Y".

Note 2: Refer to page 91 for details on other oil mist filters.

Note 3: When "F" with an automatic drain is selected, the supply air pressure is 0.2 MPa or more. The minimum of the setting pressure is 0.15MPa. Automatic drain supply air pressure of a filter/regulator is 0.1MPa. Initially generated drainage and air are purged until pressure reaches 0.1 MPa.

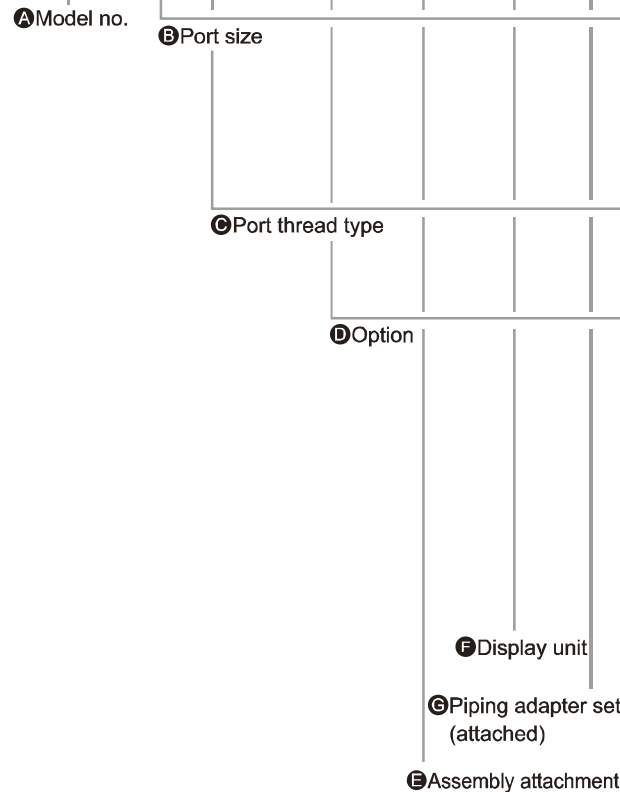
Note 4: When "F1" with an automatic drain is selected, the supply air pressure is 0.2 MPa or more. The minimum of the setting pressure is 0.15MPa.

Note 5: When "F1" with an automatic drain is selected for the C1040-W series, minimum operating pressure is 0.2 MPa and maximum operation pressure is 0.7 MPa. Refer to the maximum processing flow table (page 83) for the F1000-W-F1 automatic drain for the maximum working flow. Set the working flow to less than the maximum working flow.

Note 6: The working temperature range of the pressure switch with indicator PPD assembly "R1" is 5 to 50°C.

### How to order

**C1040** - **6** - **W** - **F1** - **U SV** - **A6W** - **Pressure gauge option (attached)**



\* Refer to page 9 for explanation of an option.

A Model no.			
C	C	C	C
1	3	4	8
0	0	0	0
4	4	4	4
0	0	0	0

Symbol	Descriptions				
<b>B Port size</b>					
6	1/8	●			
8	1/4	●	●	●	
10	3/8		●	●	
15	1/2			●	
20	3/4			●	●
25	1				●

C Port thread type		Note 1			
Blank	Rc thread	●	●	●	●
N	NPT thread	●	●	●	●
G	G thread	●	●	●	●

D Option		Note 2				
Drainage Note 3, Note 4	Blank	With manual drain cock	●	●	●	●
	F	Automatic drain with manual override (NO type: Exhaust without pressurized)		●	●	●
	F1	Automatic drain with manual override (NC type: No exhaust without pressurized)	●	●	●	●
	FF	Large automatic drain with manual override (NO type: Exhaust without pressurized)				●
	FF1	Large automatic drain with manual override (NC type: No exhaust without pressurized)				●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●
	Z	Nylon bowl		●	●	●
	M	Metal bowl		●	●	●
	M1	Metal bowl with manual drain cock		●	●	●
Element	Blank	5 m	●	●	●	●
	Y	0.3 m (submicron) Note 5				●
Differential pressure detection	Blank	Without differential pressure detection port	●	●	●	●
	Q	With differential pressure detection port (Rc1/4)				●
Pressure range	Blank	0.05 to 0.85MPa	●	●	●	●
	L	0.05 to 0.35MPa	●	●	●	●
Relief	Blank	With relief mechanism	●	●	●	●
	N	Nonrelief type	●	●	●	●
Pressure gauge	Blank	With standard pressure gauge (G401-W)	●	●	●	●
	T	Without pressure gauge (a pressure gauge port (Rc1/4) is assembled with sealed)	●	●	●	●
	T8	Pressure gauge attached (a pressure gauge port (Rc1/4) is assembled by open)	●	●	●	●
	T6 Note 7	Digital pressure sensor PPX attached option	●	●	●	●
Flow direction	Blank	Standard flow (left → right)	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●

E Assembly attachment		Pages 133 to 144, 149, 150				
Blank	Without assembly attachment type	●	●	●	●	
U	Assembly attachment type Note 6	●	●	●	●	
Assembled	S	Pressure switch (P1100-W, 4100-W, 8100-W)	●	●	●	●
	P	Pressure switch (P4000-W)		●	●	●
	V	Shut-off valve (V1000-W, 3000-W)	●	●	●	●
	K	Lockout valve (V3010-W)		●	●	●

F Display unit					
Blank	MPa display, Rc thread	●	●	●	●
J1	MPa display, NPT, G thread	●	●	●	●

G Piping adapter set (attached)		Pages 151 to 153			
Blank	Not attached	●	●	●	●
A6*W	1/8 piping adapter set	●			
A8*W	1/4 piping adapter set	●	●	●	
A10*W	3/8 piping adapter set	●	●	●	
A15*W	1/2 piping adapter set		●	●	
A20*W	3/4 piping adapter set			●	●
A25*W	1 piping adapter set				●
A32*W	1 1/4 piping adapter set				●

* Adaptor screw type					
Blank	Rc thread	●	●	●	●
N	NPT thread	●	●	●	●
G	G thread	●	●	●	●

H Pressure gauge option (attached)		Page 194			
Blank	Not attached	●	●	●	●
G49P	G49D-8-P10 (L: G49D-8-P04)	●	●	●	●
G59P	G59D-8-P10 (L: G59D-8-P04)	●	●	●	●
G40P	G40D-8-P10 (L: G40D-8-P04)	●	●	●	●
G50P	G50D-8-P10 (L: G50D-8-P04)	●	●	●	●
G41P	G41D-8-P10 (L: G41D-8-P04)	●	●	●	●
G52P	G52D-8-P10 (L: G52D-8-P10)	●	●	●	●
R2 Note 7	Digital pressure sensor: PPX-R10N-6M	●	●	●	●

### Note on model no. selection

Note 1: When G threads or NPT threads are selected, the IN, OUT, gauge port, and drain port (metal bowl automatic drain) are available, as are attachments P and V.

Note 2: Select options for each drainage, bowl material, element, differential pressure detection, and regulator items. When selecting options for several items, list options in order from the top.

Note 3: Refer to page 11 for the automatic drain use conditions.

Note 4: When option symbol "F" is selected, the NO automatic drain is enclosed for the filter regulator and the NC automatic drain is enclosed for the oil mist filter.

When option symbol "F1" is selected, the NC automatic drain is enclosed for both the filter regulator and oil mist regulator. For both "FF" and "FF1," only the filter regulator has a high discharge rate, and the oil filter is the regulator NC automatic drainage.

Note 5: Refer to page 83 for maximum processing flow when option "Y" is selected.

Note 6: Mounting location for assembly attachments

Symbol	Attachment installation position	Applicable model
S or P	W + (S, P) + M	C1040-W to C8040-W (Excluding 8000 series for "P")
V or K	W + M + (V, K)	C1040-W to C8040-W (Excluding 8000 series for "V", 1000 series for "K")

Note) Indicate "U" + "D", "S", "P", "V", and "K" when selecting an assembly attachment.

Use custom combinations specifications for any other combination.

Note 7: When option "T6" is selected, only "blank" or "R2" is selected for the pressure gauge (enclosed).

The digital pressure sensor PPX mounting port (Rc1/8) is assembled ventilated.

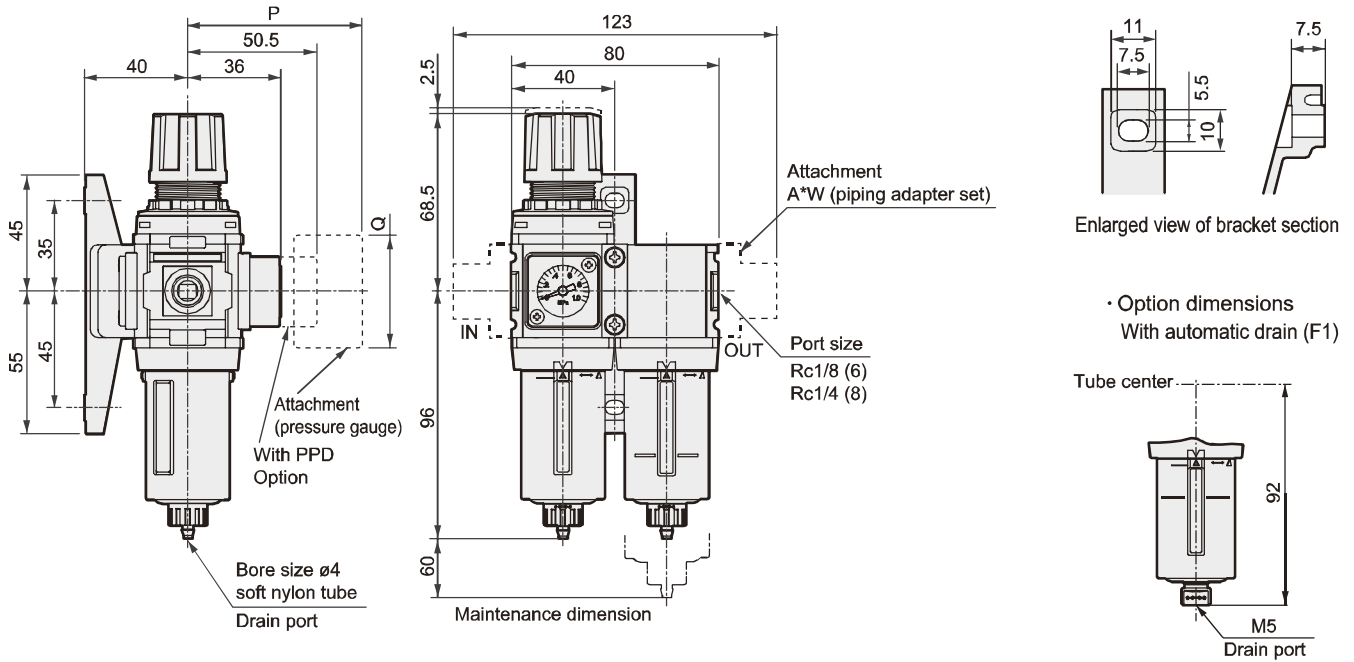
Note 8: If NPT is selected for the piping thread type, a NPT pressure gauge is enclosed. If Rc or G thread is selected, an R thread pressure gauge is enclosed.

Note 9: Piping adapter A400-20\*-W is assembled on both ends of the C4040-20\*-W.

# W.M Combination

## Dimensions

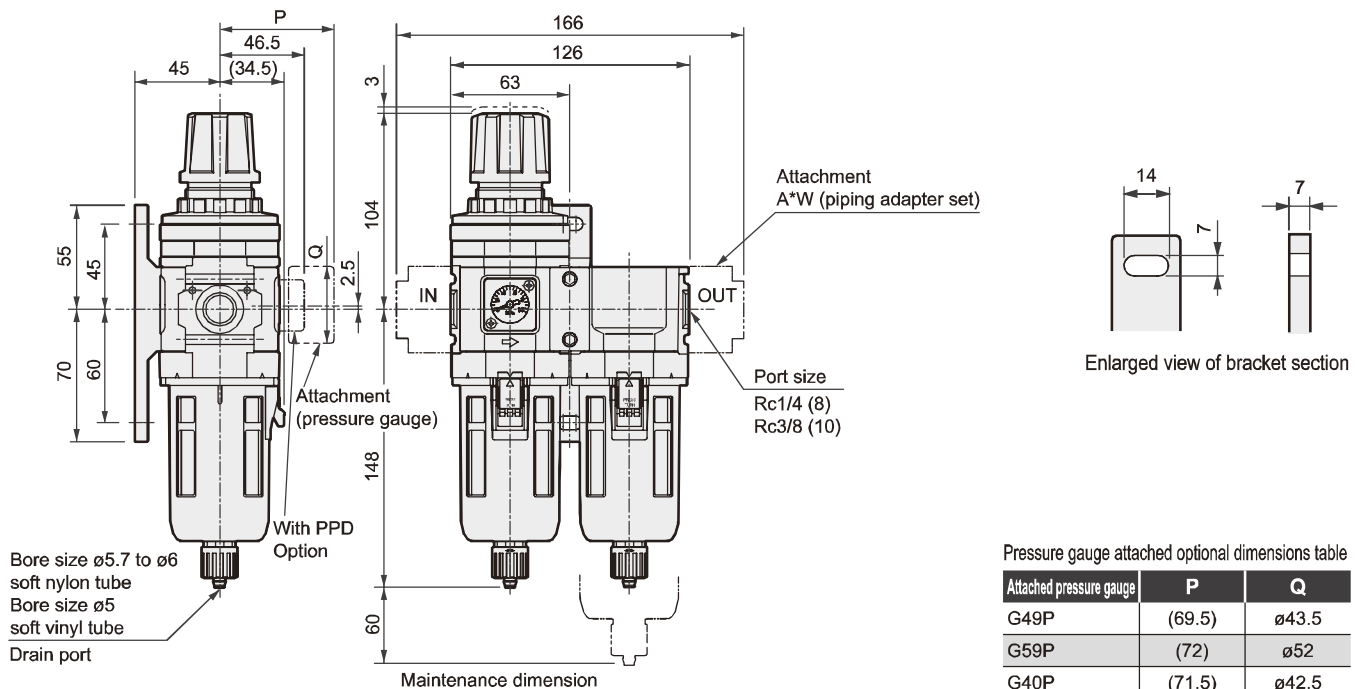
### ● C1040-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	P	Q
G49P	(73.5)	ø43.5
G59P	(76)	ø52
G40P	(75.5)	ø42.5
G50P	(75.5)	ø52.5
G41P	(74)	ø42
G52P	(86)	ø52.5
R2	(74)	*30

### ● C3040-W



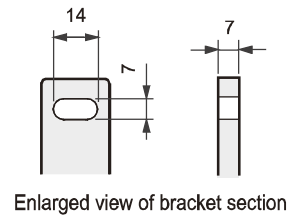
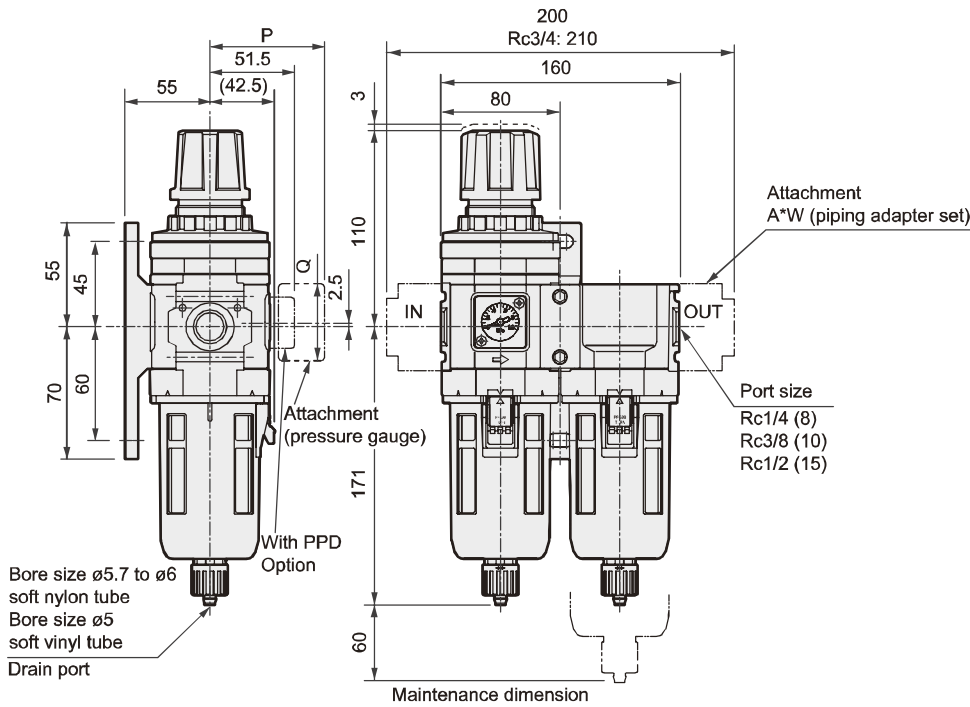
Pressure gauge attached optional dimensions table

Attached pressure gauge	P	Q
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G50P	(71.5)	ø52.5
G41P	(70)	ø42
G52P	(82)	ø52.5
R2	(69.5)	*30

● Refer to page 72 for the dimensions of the metal bowl option filter/regulator and page 97 for the oil mist filter.

### Dimensions

#### ● C4040-W

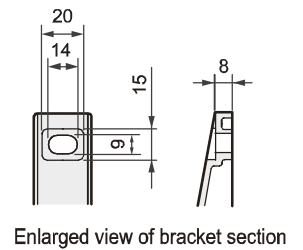
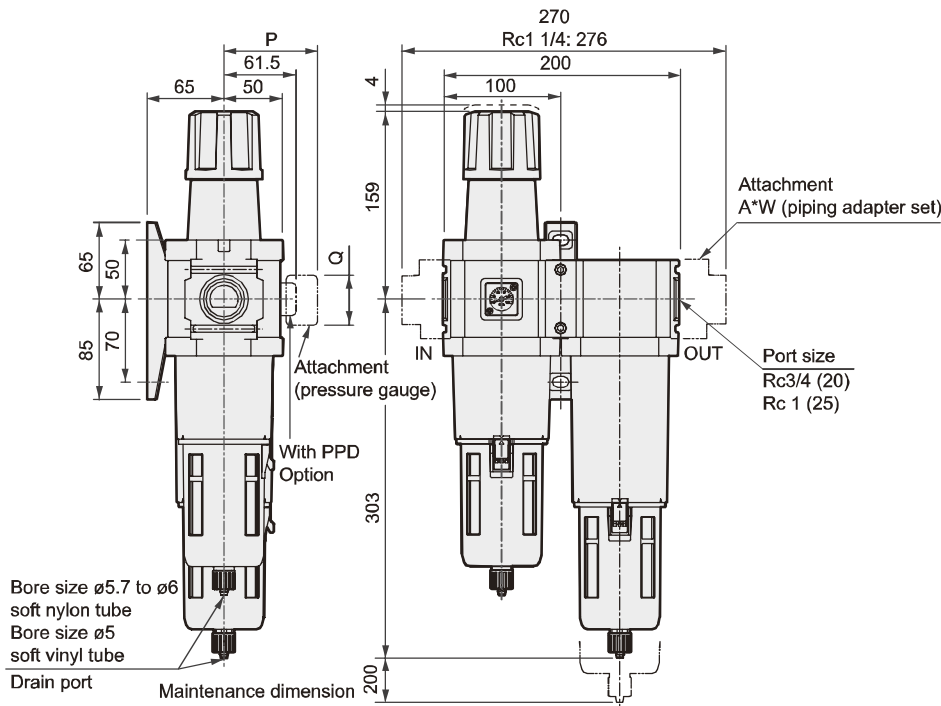


Pressure gauge attached optional dimensions table

Attached pressure gauge	P	Q
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G50P	(76.5)	ø52.5
G41P	(75)	ø42
G52P	(86)	ø52.5
R2	(75)	*30

● Refer to page 72 for the dimensions of the metal bowl option filter/regulator and page 97 for the oil mist filter.

#### ● C8040-W



Pressure gauge attached optional dimensions table

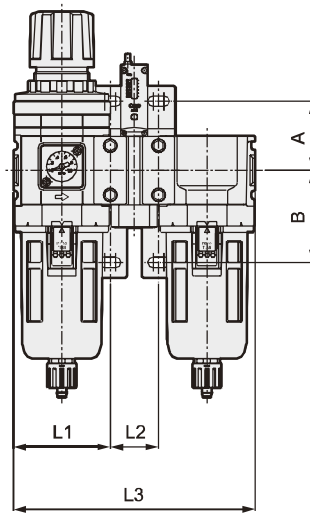
Attached pressure gauge	P	Q
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G50P	(86.5)	ø52.5
G41P	(85)	ø42
G52P	(98)	ø52.5
R2	(85)	*30

● Refer to page 72 for the dimensions of the metal bowl option filter/regulator and page 97 for the oil mist filter.

# W.M Combination

## Option assembly dimensions

● C1040-W to C8040-W



Model no.	A	B
C1040-W	35	45
C3040-W	45	60
C4040-W		
C8040-W	50	70

Assembled option Model no.	S			P			V			K			SV			SK			PV			PK		
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
C1040-W	40	28	108	□	□	□	40	40	120	□	□	□	40	68	148	□	□	□	□	□	□	□	□	□
C3040-W	63	31.5	157.5	63	80	206	63	63	189	63	63	189	63	94.5	220.5	63	94.5	220.5	63	143	269	63	143	269
C4040-W	80	31.5	191.5	80	80	240	80	80	223	80	80	223	80	111.5	254.5	80	111.5	254.5	80	160	320	80	160	320
C4040-20-W <sup>Note 1</sup>	100	31.5	231.5	100	80	280	100	100	263	100	100	263	100	111.5	294.5	100	111.5	294.5	100	160	343	100	160	343
C8040-W	100	50	250	□	□	□	□	□	□	100	100	290	□	□	□	100	150	340	□	□	□	□	□	□

L1: Dimensions from the IN edge to center of the T-type bracket mounting hole  
 L2: Spacing dimensions of the mounting hole from the first T-type bracket to the second T-type bracket  
 L3: Dimensions from the IN edge to the OUT edge

\* Refer to the General Catalog for details on bracket mounting hole dimensions.

Note 1. The piping adapter is assembled on the OUT side.

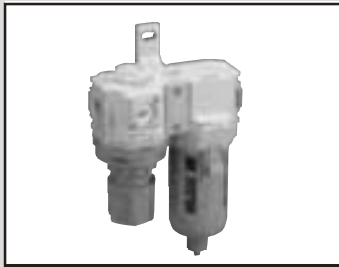
Piping adapter A400-20<sup>+</sup>-W is assembled on both ends of the C4040-20<sup>+</sup>-W.

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MEMO

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R.M. combination standard white Series  
**C1050/C2550/C3050**  
**C4050/C6050/C8050-W Series**

Regulator and oil mist filter integrated

Port size: 1/8 to 1

JIS symbol



### Specifications

Descriptions		C1050-W	C2550-W	C3050-W	C4050-W	C6050-W	C8050-W
Appearance							
Components	Regulator	R1000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
	Oil mist filter	M1000-W	M3000-W	M3000-W	M4000-W	M6000-W	M8000-W
Working fluid		Compressed air					
Max. working pressure MPa		1.0					
Withstanding pressure MPa		1.5					
Ambient temperature range °C		5 to 60					
Set pressure range MPa		0.1 to 0.85 <sup>Note 3</sup>	0.1 to 0.85				
Relief		With relief mechanism					
Port size	Rc, NPT, G	1/8, 1/4 (3/8 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8, 1/2 (3/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)
Product weight kg		0.29	0.66	0.82	1.32	2.12	3.12
Secondary oil concentration		0.01mg/m <sup>3</sup> or less					
Maximum flow rate (Note 1) m <sup>3</sup> /min		0.15	0.38	0.36	0.825	1.27	2.6

Note 1: Maximum flow rate is for the regulator setting pressure 0.7MPa.

Note 2: Refer to page 91 for details on other oil mist filters.

Note 3: The supply air pressure is 0.2 MPa or more with a minimum setting pressure of 0.15 MPa.

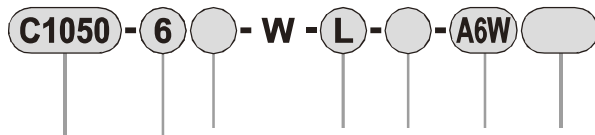
Note 4: When "F1" with an automatic drain is selected for the C1050-W Series, the minimum operation pressure is 0.2 MPa and the maximum operation pressure is 0.7 MPa. Refer to the maximum processing flow table (page 93) for the M1000-W-F1 automatic drain for the maximum working flow. The working flow must be less than the maximum working flow. Set the working flow to less than the maximum working flow.

Note 5: The working temperature range of the pressure switch with indicator PPD assembly "R1" is 5 to 50°C.

# R.M Combination

How to order

How to order



Ⓐ Model no. Ⓑ Port size

Ⓒ Port thread type

Ⓓ Option

Ⓔ Display unit

Ⓕ Piping adapter set (attached)

Ⓖ Pressure gauge option (attached)

\* Refer to page 9 for explanation of an option.

Ⓐ Model no.					
C	C	C	C	C	C
1	2	3	4	6	8
0	5	0	0	0	0
5	5	5	5	5	5
0	0	0	0	0	0

Symbol	Descriptions						
<b>Ⓑ Port size</b>							
6	1/8	●					
8	1/4	●	●	●	●		
10	3/8		●	●	●		
15	1/2				●		
20	3/4				● <sup>*6</sup>	●	
25	1					●	
<b>Ⓒ Port thread type</b>		<b>Note 1</b>					
Blank	Rc thread	●	●	●	●	●	
N	NPT thread	●	●	●	●	●	
G	G thread	●	●	●	●	●	
<b>Ⓓ Option</b>		<b>Note 2</b>					
<b>Drainage</b>	Blank	Filter with manual drain cock	●	●	●	●	
	<b>Note 3</b> F1	Automatic drain with manual override (NC type: No exhaust without pressurized)	●	●	●	●	
<b>Bowl material</b>	Blank	Polycarbonate bowl	●	●	●	●	
	Z	Nylon bowl	●	●	●	●	
	M	Metal bowl		●	●	●	
	M1	Metal bowl with manual drain cock		●	●	●	
<b>Differential pressure detection</b>	Blank	Without differential pressure detection port	●	●	●	●	
	Q	With differential pressure detection port (Rc1/4)				●	
<b>Pressure range</b>	Blank	0.05 to 0.85MPa	●	●	●	●	
	L	0.05 to 0.35MPa	●	●	●	●	
<b>Relief</b>	Blank	With relief mechanism	●	●	●	●	
	N	Nonrelief type	●	●	●	●	
<b>Pressure gauge</b>	Blank	With standard pressure gauge (G401-W)	●	●	●	●	
	T	Without pressure gauge (a pressure gauge port (Rc1/4) is assembled with sealed)	●	●	●	●	
	T8	Pressure gauge attached (a pressure gauge port (Rc1/4) is assembled by open)	●	●	●	●	
	<b>Note 4</b> T6	Digital pressure sensor PPX attached option	●	●	●	●	
<b>Flow direction</b>	Blank	Standard flow (left → right)	●	●	●	●	
	X1	Reverse flow (right → left)	●	●	●	●	
<b>Ⓔ Display unit</b>							
Blank	MPa display, Rc thread	●	●	●	●	●	
J1	MPa display, NPT, G thread	●	●	●	●	●	
<b>Ⓕ Piping adapter set (attached)</b>		<b>Pages 151 to 153</b>					
Blank	Not attached	●	●	●	●	●	
A6*W	1/8 piping adapter set	●					
A8*W	1/4 piping adapter set	●	●	●	●		
A10*W	3/8 piping adapter set	●	●	●	●		
A15*W	1/2 piping adapter set		●	●	●		
A20*W	3/4 piping adapter set				●	●	
A25*W	1 piping adapter set					●	
A32*W	1 1/4 piping adapter set					●	
<b>* Adaptor screw type</b>							
Blank	Rc thread	●	●	●	●	●	
N	NPT thread	●	●	●	●	●	
G	G thread	●	●	●	●	●	
<b>Ⓖ Pressure gauge option (attached)</b>		<b>Page 194</b>					
Blank	Not attached	●	●	●	●	●	
G49P	G49D-8-P10 (L: G49D-8-P04)	●	●	●	●	●	
G59P	G59D-8-P10 (L: G59D-8-P04)	●	●	●	●	●	
G40P	G40D-8-P10 (L: G40D-8-P04)	●	●	●	●	●	
G50P	G50D-8-P10 (L: G50D-8-P04)	●	●	●	●	●	
G41P	G41D-8-P10 (L: G41D-8-P04)	●	●	●	●	●	
G52P	G52D-8-P10 (L: G52D-8-P10)	●	●	●	●	●	
R2 <b>Note 4</b>	Digital pressure sensor: PPX-R10N-6M	●	●	●	●	●	

## ⚠ Note on model no. selection

Note 1: When G threads or NPT threads are selected, the IN, OUT, gauge port, and drain port (metal bowl automatic drain) are available.

Note 2: Select options for each drainage, bowl material, element, differential pressure detection, and regulator items. When selecting options for several items, list options in order from the top.

Note 3: Refer to page 11 for the automatic drain use conditions.

Note 4: When option "T6" is selected, only "blank" or "R2" is selected for Ⓔ pressure gauge (enclosed). The digital pressure sensor PPX mounting port (Rc1/8) is assembled ventilated.

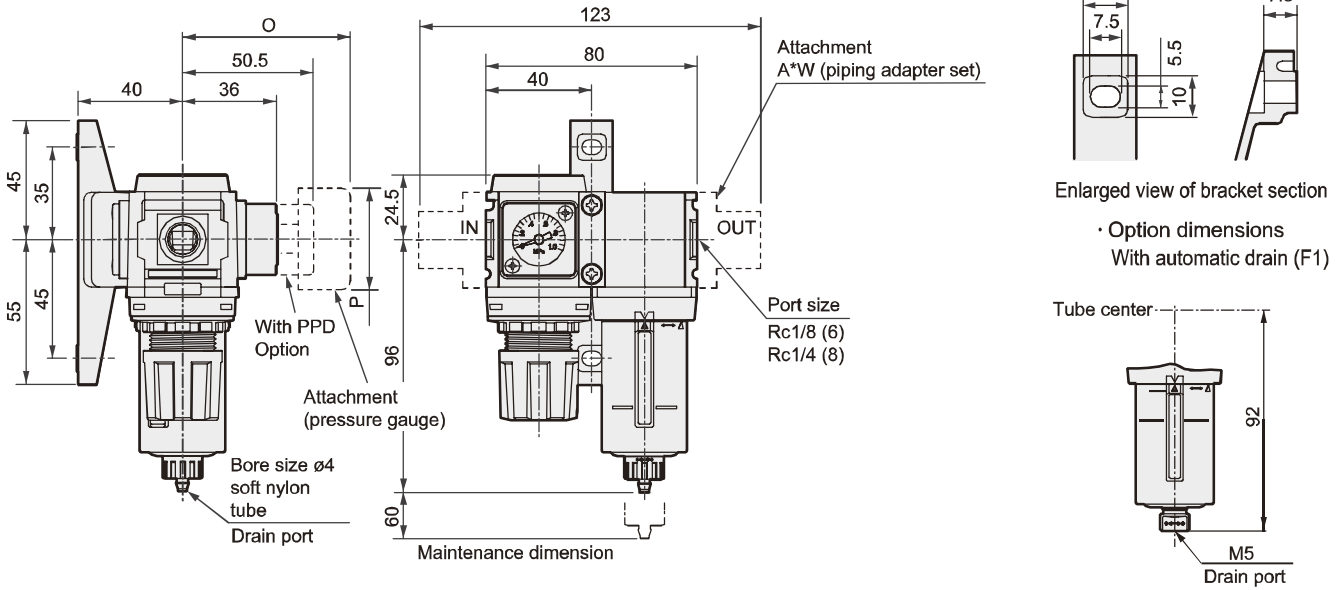
Note 5: If NPT is selected for the Ⓒ piping thread type, a NPT pressure gauge is enclosed. If Rc or G thread is selected, an R thread pressure gauge is enclosed.

Note 6: Piping adapter A400-20\*-W is assembled on both ends of the C4050-20\*-W.

# R.M Combination

## Dimensions

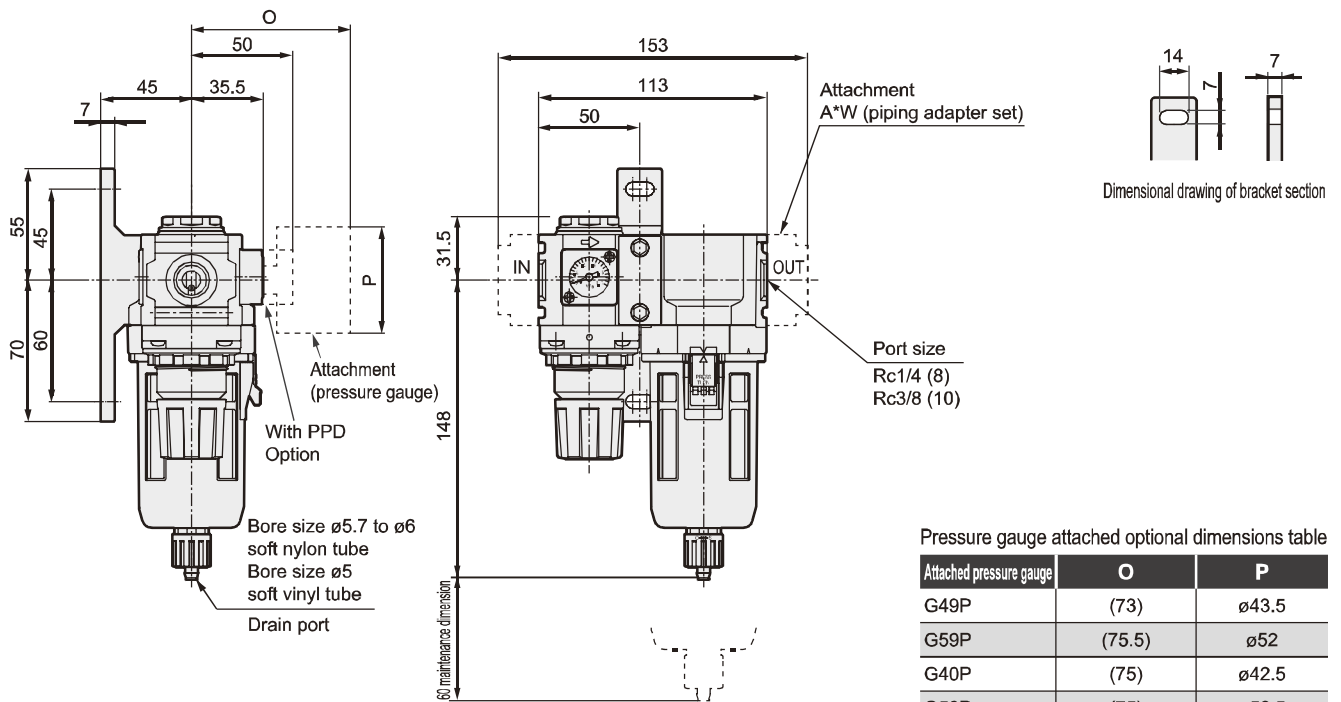
### ● C1050-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(73.5)	ø43.5
G59P	(76)	ø52
G40P	(75.5)	ø42.5
G50P	(75.5)	ø52.5
G41P	(74)	ø42
G52P	(86)	ø52.5
R2	(74)	*30

### ● C2550-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(73)	ø43.5
G59P	(75.5)	ø52
G40P	(75)	ø42.5
G50P	(75)	ø52.5
G41P	(73.5)	ø42
G52P	(85.5)	ø52.5
R2	(73)	*30

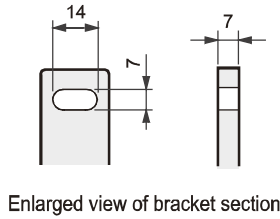
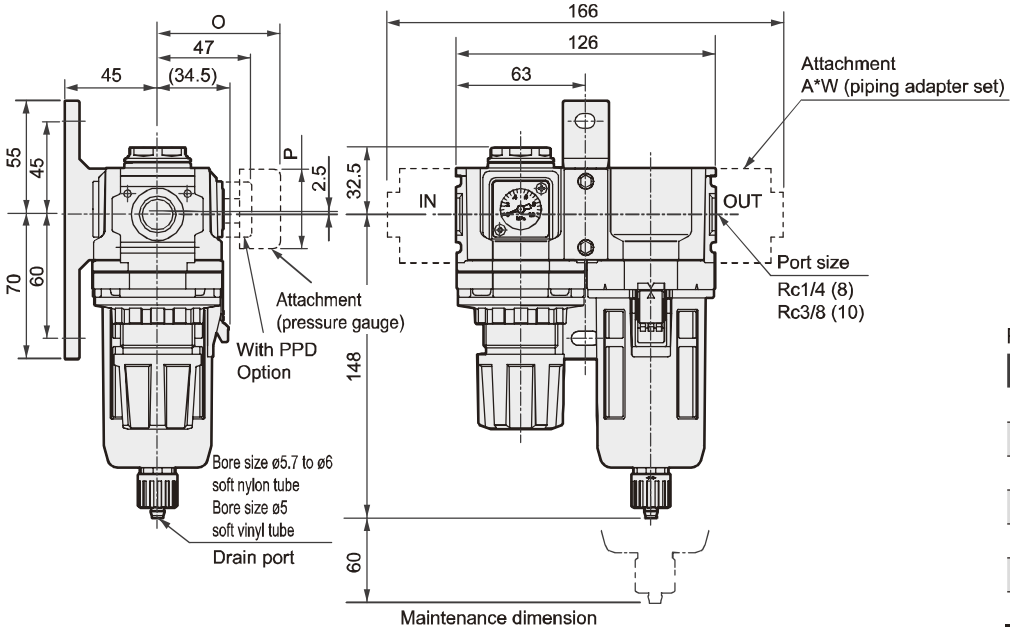
# R.M Combination

## Dimensions

### Dimensions



● C3050-W

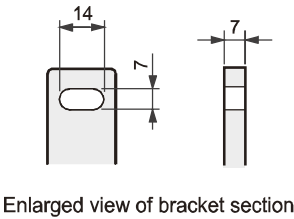
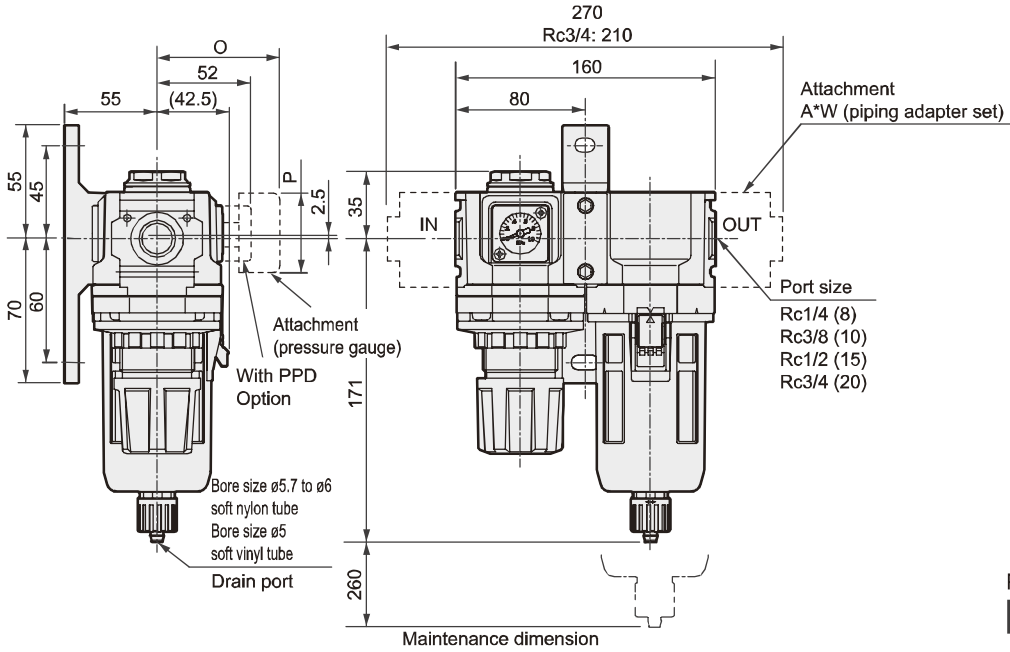


Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G50P	(71.5)	ø52.5
G41P	(70)	ø42
G52P	(82)	ø52.5
R2	(69.5)	*30

● Refer to page 87 for the metal bowl optional dimensions.

● C4050-W



Pressure gauge attached optional dimensions table

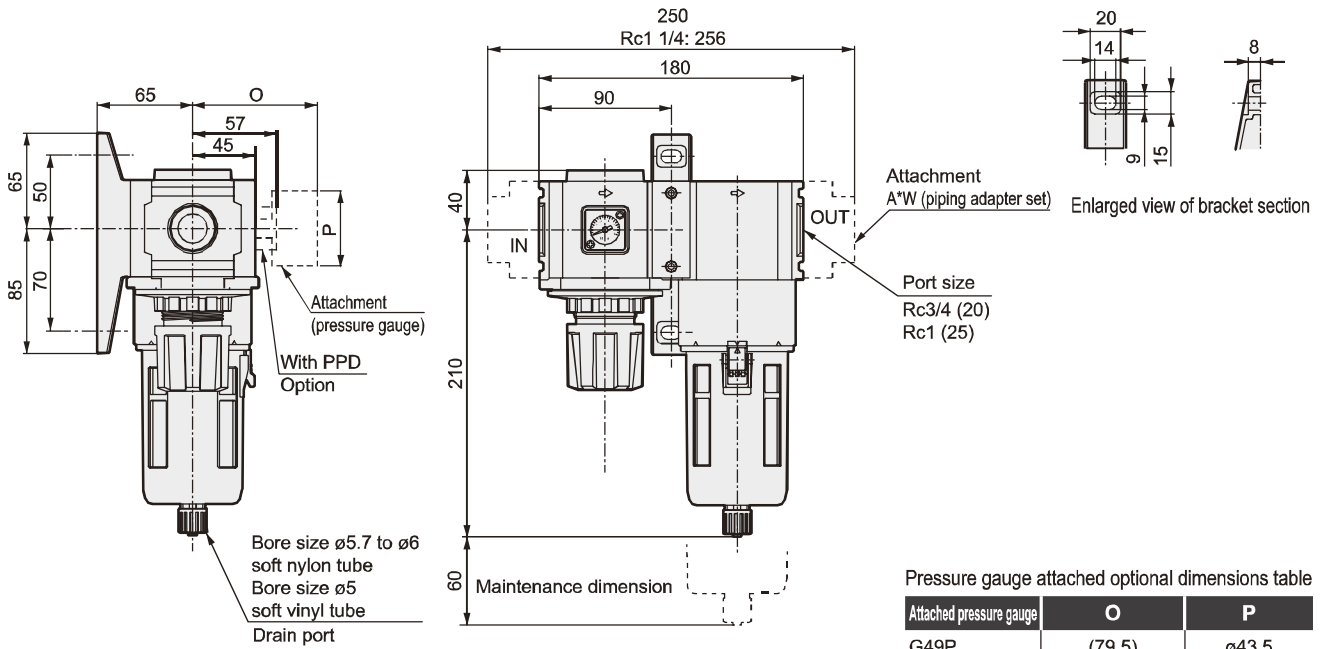
Attached pressure gauge	O	P
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G50P	(76.5)	ø52.5
G41P	(75)	ø42
G52P	(86)	ø52.5
R2	(75)	*30

● Refer to page 87 for the metal bowl optional dimensions.

# R.M Combination

## Dimensions

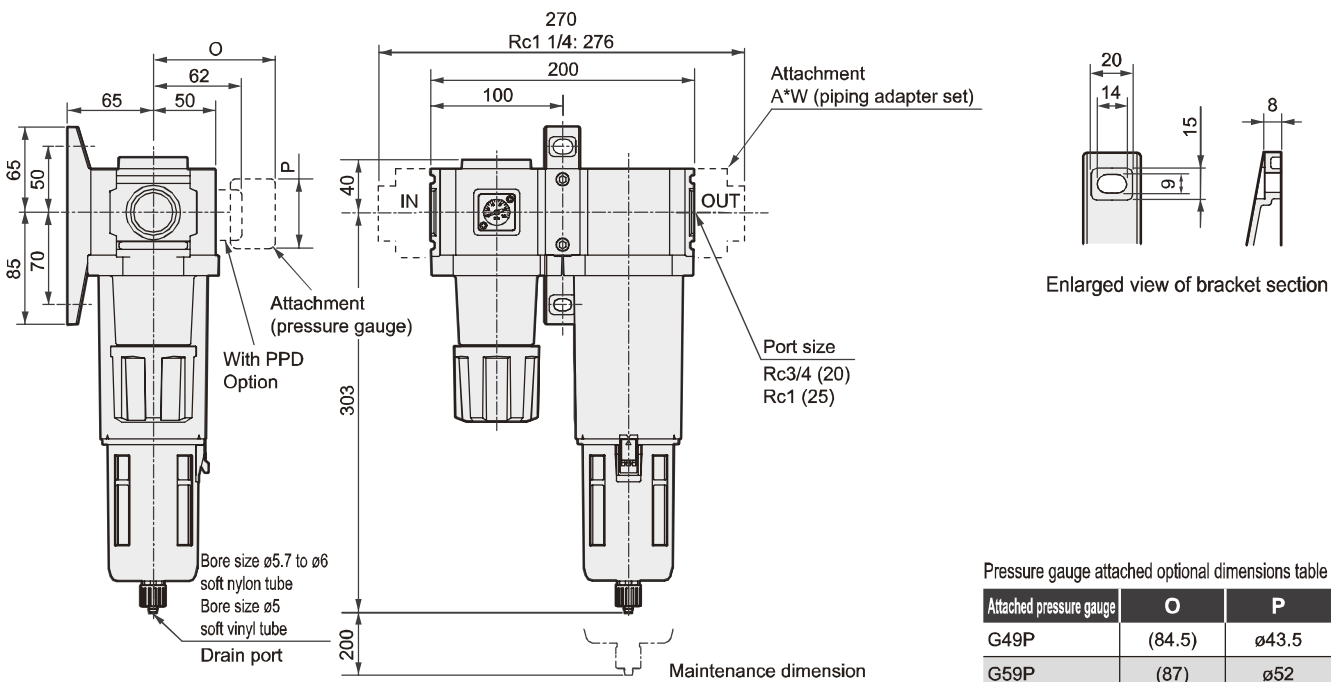
### ● C6050-W



Pressure gauge attached optional dimensions table

Attached pressure gauge	O	P
G49P	(79.5)	ø43.5
G59P	(82)	ø52
G40P	(81.5)	ø42.5
G50P	(81.5)	ø52.5
G42P	(80)	ø42
G52P	(93)	ø52.5
R2	(80)	*30

### ● C8050-W



Pressure gauge attached optional dimensions table

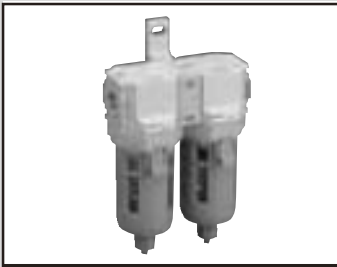
Attached pressure gauge	O	P
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G50P	(86.5)	ø52.5
G41P	(85)	ø42
G52P	(98)	ø52.5
R2	(85)	*30

● Refer to page 97 for the metal bowl optional dimensions.

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MEMO

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F.M. combination standard white Series

# C1060/C3060/ C4060/C6060/C8060-W Series






Filter and oil mist filter integrated

Port size: 1/8 to 1

JIS symbol 



## Specifications

Descriptions		C1060-W	C3060-W	C4060-W	C6060-W	C8060-W
Appearance						
Components	Filter	F1000-W	F3000-W	F4000-W	F6000-W	F8000-W
	Oil mist filter	M1000-W	M3000-W	M4000-W	M6000-W	M8000-W
Working fluid		Compressed air				
Max. working pressure MPa		1.0 Note 3, 4, 5				
Withstanding pressure MPa		1.5 Note 3				
Ambient temperature range °C		5 to 60				
Port size	Rc, NPT, G	1/8, 1/4 (3/8 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8, 1/2 (3/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)
Product weight	kg	0.22	0.62	1.06	2.02	2.68
Secondary oil concentration		0.01mg/m <sup>3</sup> or less				
Maximum flow rate (Note 1)	m <sup>3</sup> /min	0.15 Note 3	0.36	0.825	1.27	2.6

Note 1: The maximum flow is for a primary pressure of 0.7 MPa.

Note 2: Refer to page 91 for details on other oil mist filters.

Note 3: When "F1" with an automatic drain is selected, the NC automatic drain is enclosed for both the filter and oil mist filter. The minimum operation pressure is 0.2 MPa, the maximum operation pressure is 0.7 MPa and the guaranteed pressure resistance is 1.05 MPa. Refer to the maximum processing flow table (page 93) for the M1000-W-F1 automatic drain for the maximum working flow. The working flow must be less than the maximum working flow.

Note 4: When "F" with an automatic drain is selected, the supply air pressure is 0.15 MPa or more. Air is purged with initial drainage until pressure reaches 0.1 MPa.

Note 5: When "F1" with an automatic drain is selected, the supply air pressure must be 0.15 MPa or more.

Note 6: When selecting the element option "Y", refer to page 83 for the maximum flow. The working flow must be less than the maximum working flow.

### How to order

**C1060 - 6 - W - Z - A6W**

**A** Model no.

**B** Port size

**C** Port thread type

**D** Option

**E** Display unit

**F** Piping adapter set (attached)

\* Refer to page 9 for explanation of an option.

A Model no.				
C	C	C	C	C
1	3	4	6	8
0	0	0	0	0
6	6	6	6	6
0	0	0	0	0

Symbol	Descriptions					
<b>B Port size</b>						
6	1/8	●				
8	1/4	●	●	●		
10	3/8		●	●		
15	1/2			●		
20	3/4			●*	●	
25	1				●	

C Port thread type		Note 1				
Blank	Rc thread	●	●	●	●	
N	NPT thread	●	●	●	●	
G	G thread	●	●	●	●	

D Option		Note 2				
Drainage	Blank	With manual drain cock	●	●	●	●
	F	Automatic drain with manual override (NO type: Exhaust without pressurized)		●	●	●
	F1	Automatic drain with manual override (NC type: No exhaust without pressurized)	●	●	●	●
	FF	Large automatic drain with manual override (NO type: Exhaust without pressurized)				●
	FF1	Large automatic drain with manual override (NC type: No exhaust without pressurized)				●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●
	Z	Nylon bowl	●	●	●	●
	M	Metal bowl		●	●	●
	M1	Metal bowl with manual drain cock		●	●	●
Element	Blank	5 m	●	●	●	●
	Y	0.3 m (submicron) Note 5		●	●	●
Differential pressure detection	Blank	Without differential pressure detection port	●	●	●	●
	Q	With differential pressure detection port (Rc1/4)				●
Flow direction	Blank	Standard flow (left → right)	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●

E Display unit						
Blank	MPa display, Rc thread	●	●	●	●	
J1	MPa display, NPT, G thread	●	●	●	●	

F Piping adapter set (attached)		Pages 151 to 153				
Blank	Not attached	●	●	●	●	
A6*W	1/8 piping adapter set	●				
A8*W	1/4 piping adapter set	●	●	●		
A10*W	3/8 piping adapter set	●	●	●		
A15*W	1/2 piping adapter set		●	●		
A20*W	3/4 piping adapter set				●	
A25*W	1 piping adapter set				●	
A32*W	1 1/4 piping adapter set				●	

* Adaptor screw type						
Blank	Rc thread	●	●	●	●	
N	NPT thread	●	●	●	●	
G	G thread	●	●	●	●	

### ⚠ Note on model no. selection

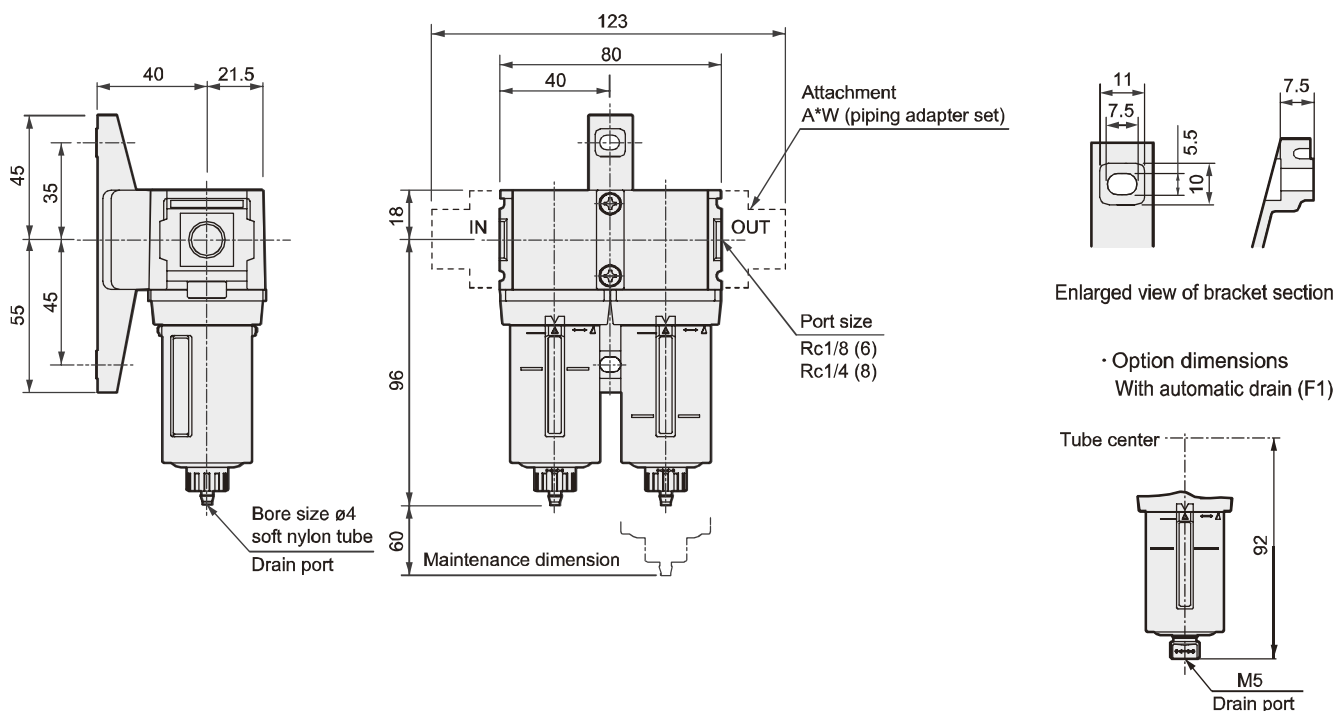
- Note 1: When G threads or NPT threads are selected, the IN, OUT, and drain port (metal bowl automatic drain) are available.
- Note 2: Select options based on drainage, bowl material, element, and differential pressure detection. When selecting options for several items, list options in order from the top.
- Note 3: Refer to page 11 for the automatic drain use conditions.
- Note 4: When option symbol "F" is selected, the NO automatic drain is enclosed for the air filter and the NC automatic drain is enclosed for the automatic drain. When option symbol "F1" is selected, the NC automatic drain is enclosed for both the air filter and oil mist filter. For both "FF" and "FF1," only the filter regulator has a high discharge rate, and the oil mist filter is the regulator NC automatic drainage.
- Note 5: Refer to page 83 for maximum processing flow when option "Y" is selected.
- Note 6: Piping adapter A400-20\*-W is assembled on both ends of the C4060-20\*-W.



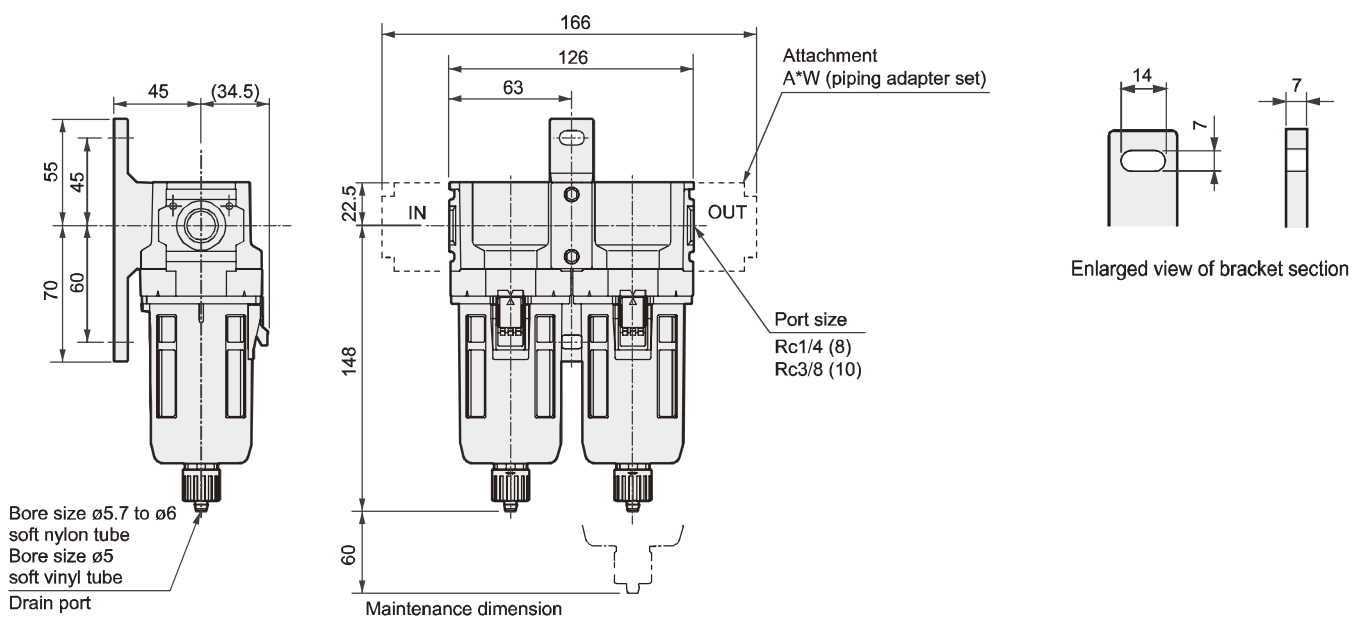
# F.M Combination

## Dimensions

### ● C1060-W



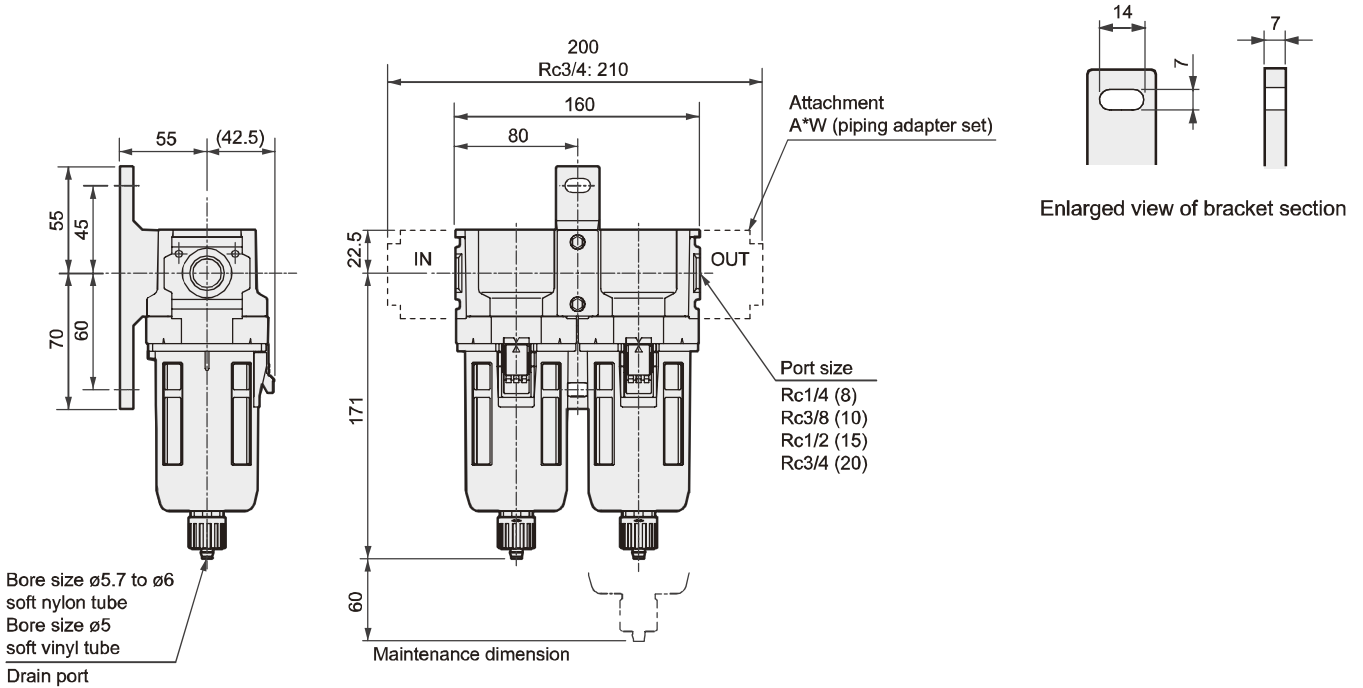
### ● C3060-W



● Refer to page 87 for the dimensions of the metal bowl option filter and page 97 for the oil mist filter.

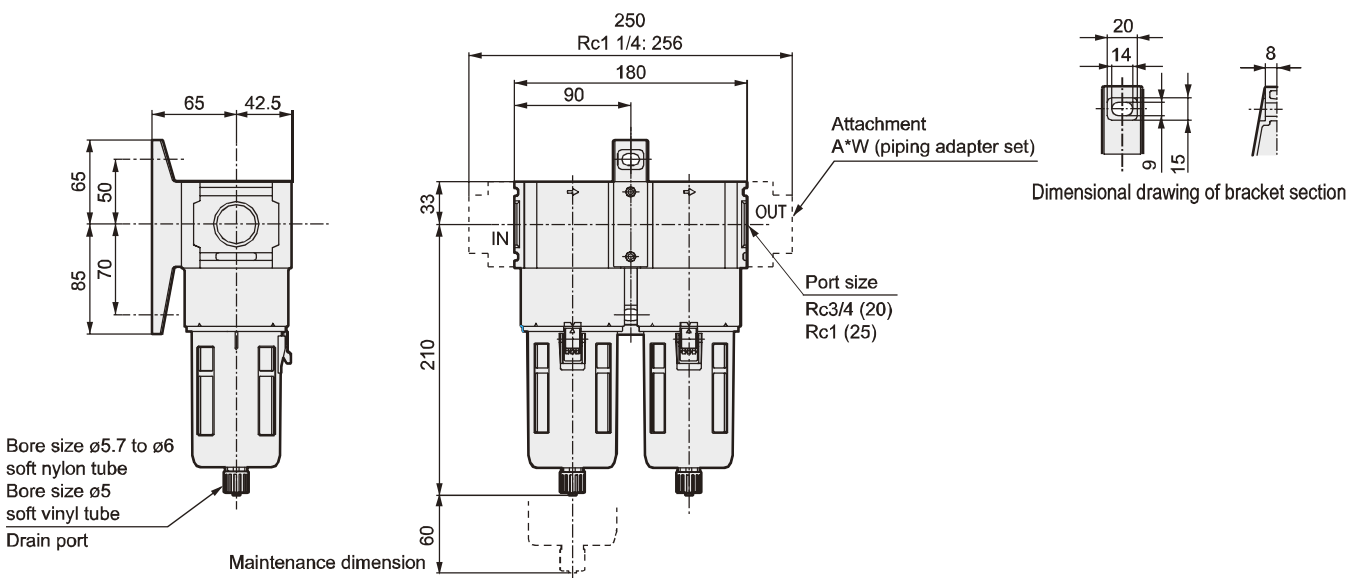
### Dimensions

● C4060-W



● Refer to page 87 for the dimensions of the metal bowl option filter and page 97 for the oil mist filter.

● C6060-W

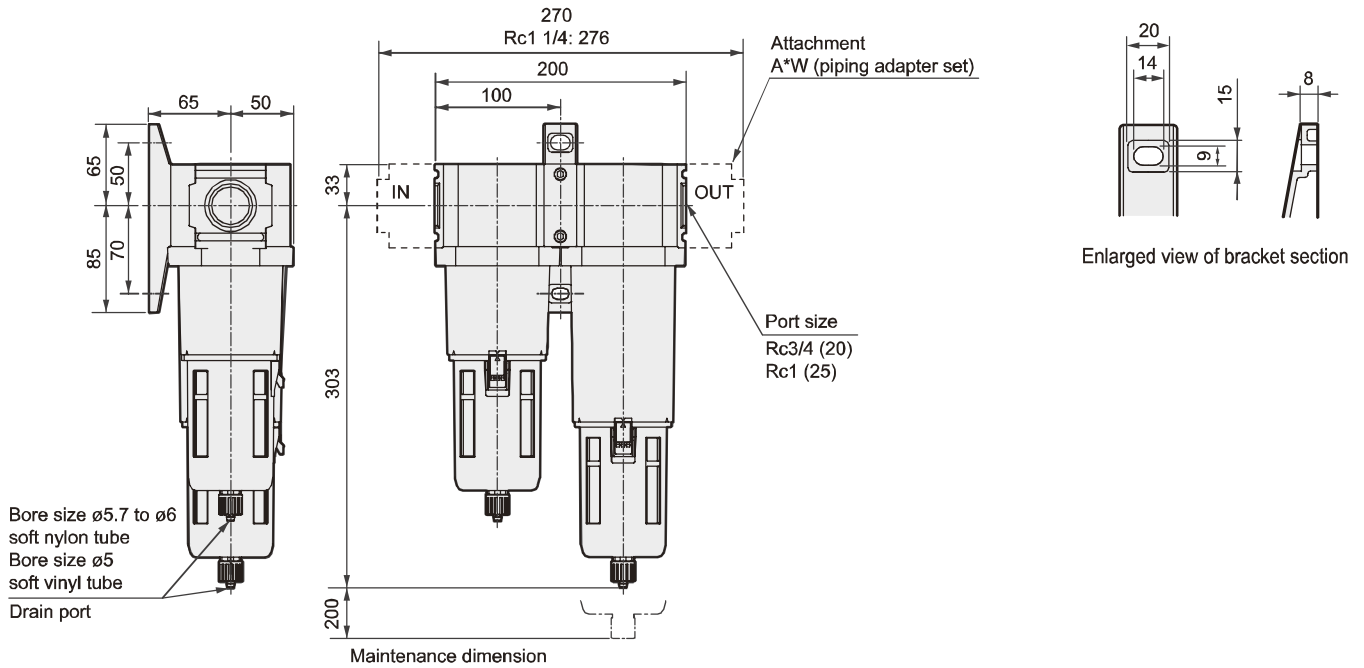


● Refer to page 87 for the dimensions of the metal bowl option filter and page 97 for the oil mist filter.

# F.M Combination

## Dimensions

● C8060-W



● Refer to page 87 for the dimensions of the metal bowl option filter and page 97 for the oil mist filter.

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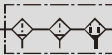


F.F.M. combination standard white Series

# C3070/C4070/C6070/C8070-W Series





Integrated filter (5 μm), filter (0.3 μm), and oil mist filter

Port size: 1/4 to 1

JIS symbol 



## Specifications

Descriptions		C3070-W	C4070-W	C6070-W	C8070-W
Appearance					
Components	Filter (5μm)	F3000-W	F4000-W	F6000-W	F8000-W
	Filter (0.3μm)	F3000-W	F4000-W	F6000-W	F8000-W
	Oil mist filter	M3000-W	M4000-W	M6000-W	M8000-W
Working fluid		Compressed air			
Max. working pressure MPa		1.0 Note 3, 4			
Withstanding pressure MPa		1.5			
Ambient temperature range °C		5 to 60			
Port size Rc, NPT, G		1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8, 1/2 (3/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)
Product weight kg		0.96	1.61	3.09	4.01
Secondary oil concentration		0.01mg/m <sup>3</sup> or less			
Maximum flow rate (Note 1) m <sup>3</sup> /min		0.23	0.5	0.8	1.1

Note 1: The maximum flow is for a primary pressure of 0.7 MPa.

Note 2: Refer to page 91 for details on other oil mist filters.

Note 3: When "F" with an automatic drain is selected, the supply air pressure is 0.15 MPa or more. Air is purged with initial drainage until pressure reaches 0.1 MPa.

Note 4: When "F1" with an automatic drain is selected, the supply air pressure is 0.15 MPa or more.

# F.F.M Combination

How to order

How to order

**C3070** - **6** - **W** - **Z** - **A6W**

**A** Model no.

**B** Port size

**C** Port thread type

**D** Option

**E** Display unit

**F** Piping adapter set (attached)

\* Refer to page 9 for explanation of an option.

A Model no.			
C	C	C	C
3	4	6	8
0	0	0	0
7	7	7	7
0	0	0	0

Symbol	Descriptions				
<b>B Port size</b>					
<b>8</b>	1/4	●	●		
<b>10</b>	3/8	●	●		
<b>15</b>	1/2		●		
<b>20</b>	3/4		●*5	●	●
<b>25</b>	1			●	●
<b>C Port thread type</b>					
<b>Note 1</b>					
<b>Blank</b>	Rc thread	●	●	●	●
<b>N</b>	NPT thread	●	●	●	●
<b>G</b>	G thread	●	●	●	●
<b>D Option</b>					
<b>Note 2</b>					
<b>Drainage</b> <small>Note 3, Note 4</small>	<b>Blank</b>	With manual drain cock	●	●	●
	<b>F</b>	Automatic drain with manual override (NO type: Exhaust without pressurized)	●	●	●
	<b>F1</b>	Automatic drain with manual override (NC type: No exhaust without pressurized)	●	●	●
	<b>FF</b>	Large automatic drain with manual override (NO type: Exhaust without pressurized)			●
	<b>FF1</b>	Large automatic drain with manual override (NC type: No exhaust without pressurized)			●
<b>Bowl material</b>	<b>Blank</b>	Polycarbonate bowl	●	●	●
	<b>Z</b>	Nylon bowl	●	●	●
	<b>M</b>	Metal bowl	●	●	●
	<b>M1</b>	Metal bowl with manual drain cock	●	●	●
<b>Differential pressure detection</b>	<b>Blank</b>	Without differential pressure detection port	●	●	●
	<b>Q</b>	With differential pressure detection port (Rc1/4)			●
<b>Flow direction</b>	<b>Blank</b>	Standard flow (left → right)	●	●	●
	<b>X1</b>	Reverse flow (right → left)	●	●	●
<b>E Display unit</b>					
<b>Blank</b>	MPa display, Rc thread	●	●	●	●
<b>J1</b>	MPa display, NPT, G thread	●	●	●	●
<b>F Piping adapter set (attached)</b>					
<b>Pages 151 to 153</b>					
<b>Blank</b>	Not attached	●	●	●	●
<b>A8*W</b>	1/4 piping adapter set	●	●		
<b>A10*W</b>	3/8 piping adapter set	●	●		
<b>A15*W</b>	1/2 piping adapter set	●	●		
<b>A20*W</b>	3/4 piping adapter set		●	●	●
<b>A25*W</b>	1 piping adapter set			●	●
<b>A32*W</b>	1 1/4 piping adapter set			●	●
<b>* Adaptor screw type</b>					
<b>Blank</b>	Rc thread	●	●	●	●
<b>N</b>	NPT thread	●	●	●	●
<b>G</b>	G thread	●	●	●	●

## ⚠ Note on model no. selection

Note 1: When G threads or NPT threads are selected, the IN, OUT, and drain port (metal bowl automatic drain) are available.

Note 2: Select options based on drainage, bowl material, element, and differential pressure detection. When selecting options for several items, list options in order from the top.

Note 3: Refer to page 11 for the automatic drain use conditions.

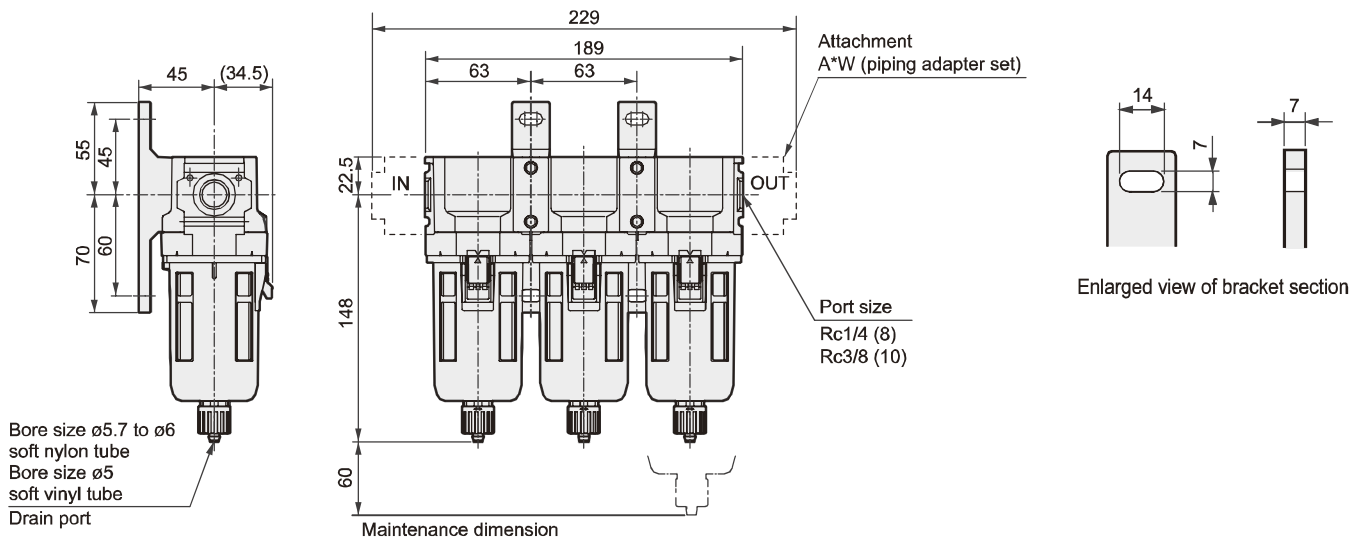
Note 4: When option symbol "F" is selected, the NO automatic drain is enclosed for the air filter and the NC automatic drain is enclosed for the automatic drain. When option symbol "F1" is selected, the NC automatic drain is enclosed for both the air filter and oil mist filter. For both "FF" and "FF1," only the filter regulator has a high discharge rate, and the oil mist filter is the regulator NC automatic drainage.

Note 5: Piping adapter A400-20\*W is assembled on both ends of the C4070-20\*W.

# F.F.M Combination

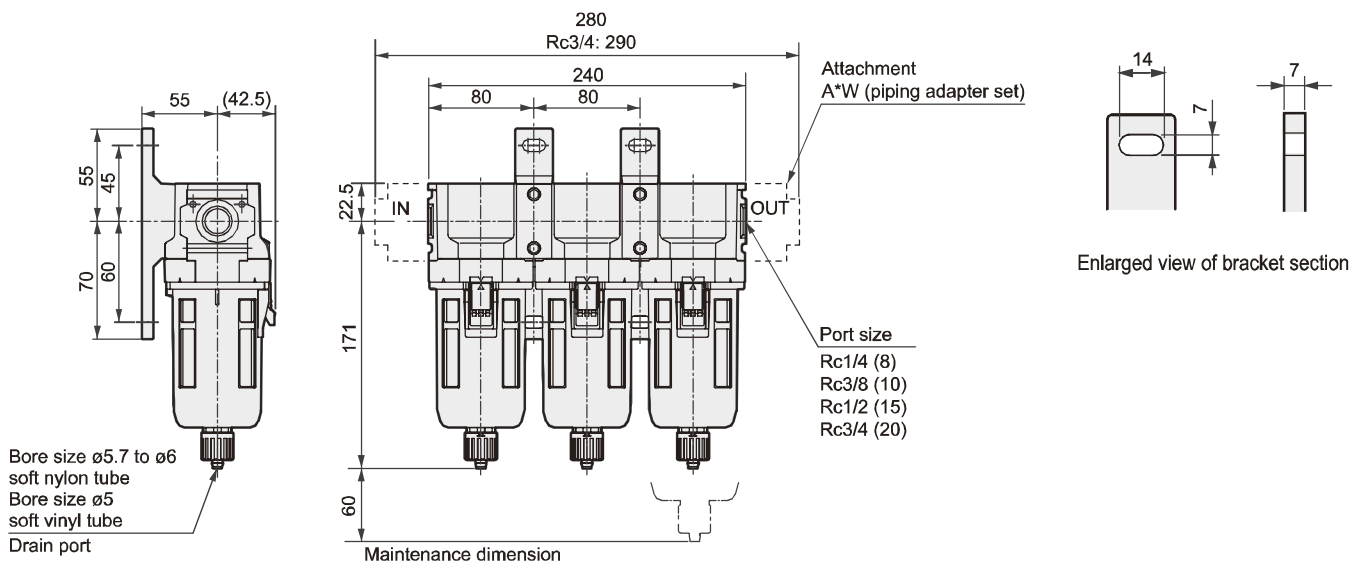
## Dimensions

### ● C3070-W



● Refer to page 87 for the dimensions of the metal bowl option filter and page 97 for the oil mist filter.

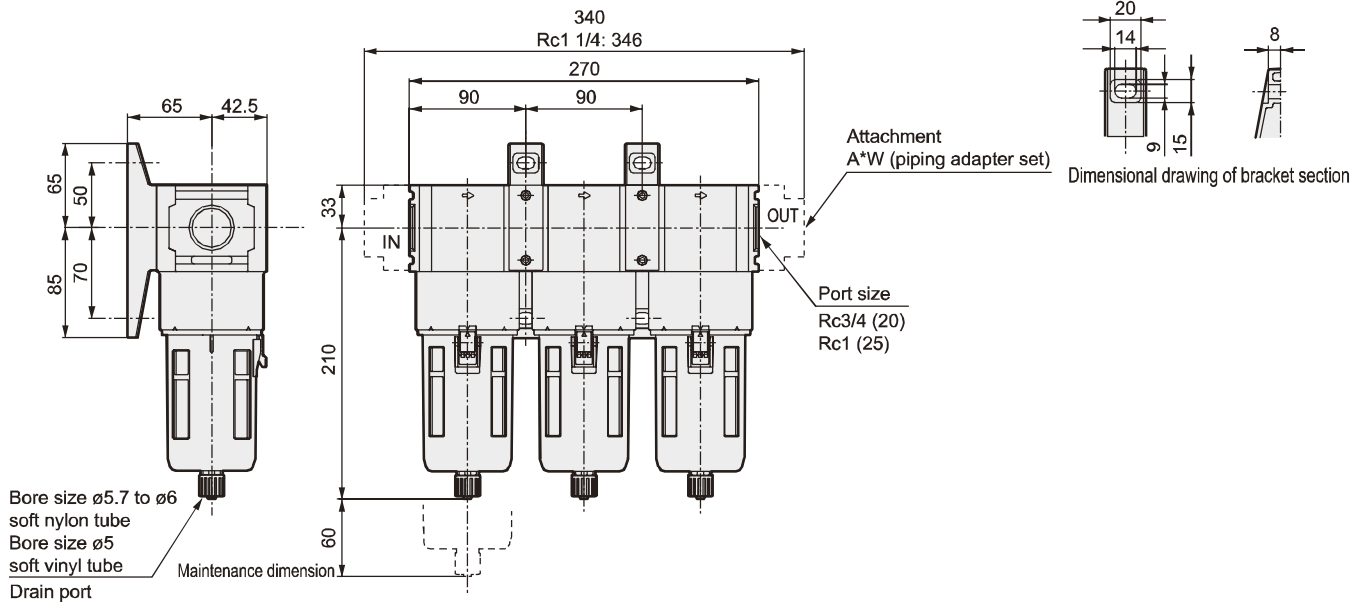
### ● C4070-W



● Refer to page 87 for the dimensions of the metal bowl option filter and page 97 for the oil mist filter.

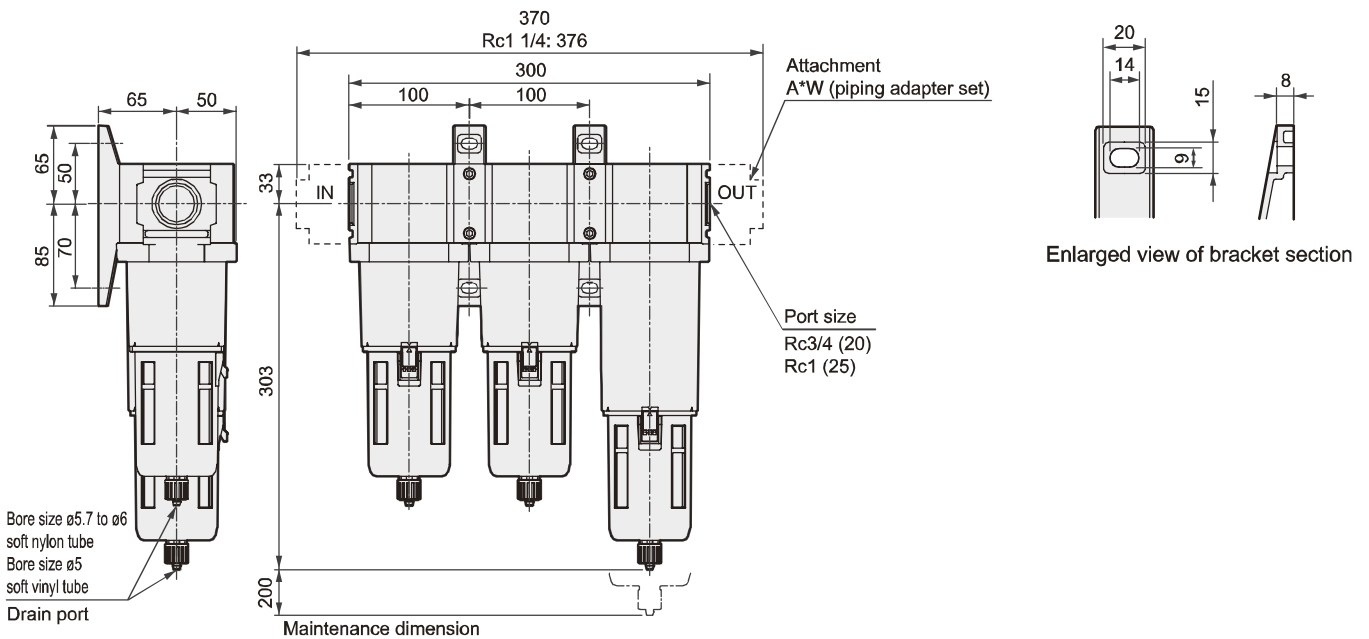
### Dimensions

#### ● C6070-W



● Refer to page 87 for the dimensions of the metal bowl option filter and page 97 for the oil mist filter.

#### ● C8070-W



● Refer to page 87 for the dimensions of the metal bowl option filter and page 97 for the oil mist filter.