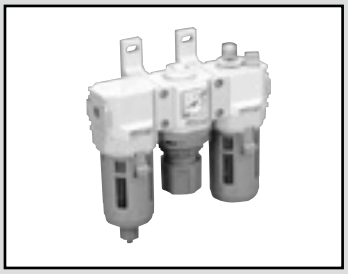
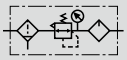


F.R.L. combination Standard White Series

C1000/C2000/C2500-W C3000/C4000/C6500/C8000-W Series

Space-saving with integrated filter, regulator and lubricator

● Port size: 1/8 to 1

JIS symbol 

RoHS CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item		C1000-W	C2000-W	C2500-W	C3000-W	C4000-W	C6500-W	C8000-W
Appearance								
Components	Air filter	F1000-W	F2000-W	F3000-W	F3000-W	F4000-W	F6000-W	F8000-W
	Regulator	R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
	Lubricator	L1000-W	L3000-W	L3000-W	L3000-W	L4000-W	L8000-W	L8000-W
Working fluid		Compressed air						
Max. working pressure MPa		1.0 (≈150 psi, 10 bar) *2						
Proof pressure MPa		1.5 (≈220 psi, 15 bar)						
Ambient / fluid temperatures °C		5 (41°F) to 60 (140°F)						
Filtration rating μm		5						
Set pressure MPa		0.05 to 0.85 *2	0.05 (≈7.3 psi, 0.5 bar) to 0.85 (≈120 psi, 8.5 bar)					
Min. drip flow rate (*1) m^3/min(ANR)		0.015	0.03	0.03	0.03	0.065	0.065	0.065
Pressure relief		With relief mechanism						
Oil storage capacity cm^3		20	85	85	85	170	170	170(MAX 360)
Drain capacity cm^3		12	25	45	45	80	80	80 (*3)
Oil used		Turbine oil Class 1 ISO VG32 (spindle oil cannot be used)						
Port size Rc,NPT,G		1/8,1/4 (3/8 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8,1/2 (3/4 uses an adaptor)	3/4,1 (1 1/4 uses an adaptor)	3/4,1 (1 1/4 uses an adaptor)
Weight kg		0.40	1.01	1.01	1.15	1.79	3.64	4.5
Standard accessories		Pressure gauge, bracket, bowl guard						

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

*2: When using the C1000-W Series "F1" with auto-drain, the min. working pressure is 0.2 MPa and max. working pressure is 0.7 MPa. Refer to the max. working flow rate table (page 106) for F1000-W-F1 auto-drain for the max. working flow rate. Set the working flow rate to less than or equal to the max. working flow rate.

*3: Up to 170 cm^3 is stored with the manual drain cock only.

*4: In the case of "F" or "FF" with auto-drain, the min. working pressure of auto-drain is 0.1 MPa. Air is purged with initial drain until pressure reaches 0.1 MPa.

*5: In the case of "F1" or "FF1" with auto-drain, the min. working pressure of auto-drain is 0.15 MPa.

*6: When element option "Y" is selected, refer to the max. working flow rate table (page 108) for the max. flow rate. Set the working flow rate to less than or equal to the max. working flow rate.

*7: C2000-W Series with "F1" (with auto-drain) must be used at equal to or less than the max. working flow rate. (Refer to the F2000-W section on page 106 for max. flow rate.)

Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge					Bowl material		Press.gauge	Pipe adaptor set						
	F	F1	FF	FF1	C	M	M1	T*	A6*W	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W
C1000		0.007			0			0	0.09	0.09	0.09				
C2000		0.02			0		0.2	0		0.16	0.16	0.16			
C2500		0.02			0	0.2	0.2	0		0.16	0.16	0.16			
C3000	0.02	0.02			0	0.2	0.2	0		0.16	0.16	0.16			
C4000	0.02	0.02			0	0.2	0.2	0		0.16	0.16	0.16	0.16		
C6500	0.02	0.02			0	0.2	0.2	0					0.53	0.53	0.53
C8000	0.02	0.02	0.02	0.02	0	0.2	0.2	0					0.53	0.53	0.53

Code	Assembled components					Pressure gauge					
	D	S	P	V	K	G45P	G49P	G59P	G40P	G52P	R2
C1000	0.056	0.15		0.18		0.074	0.086	0.115	0.085	0.15	0.04
C2000	0.17	0.23	0.54	0.29	0.34	0.074	0.086		0.085	0.15	0.04
C2500	0.17	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C3000	0.17	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C4000	0.17	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C6500	0.45	0.51			0.9	0.074	0.086	0.115	0.085	0.15	0.04
C8000	0.45	0.51			0.9	0.074	0.086	0.115	0.085	0.15	0.04

F.R.L. Combination

How to order

Refer to page 30 for the explanation of the option.

C1000 – 6 ☐ – W – C – U DSV – ☐ – A6W ☐ ☐

Ⓐ Model No. *2
Ⓑ Port size
Ⓒ Port thread
Ⓓ Option
Ⓔ Assembled components
Ⓕ Display unit *11
Ⓖ Pipe adaptor set (included)
Ⓗ Attachment
Ⓘ Pressure gauge option (included)

		Ⓐ Model No. *1						
Code	Description	C1000	C2000	C2500	C3000	C4000	C6500	C8000
Ⓑ Port size								
6	1/8	●						
8	1/4	●	●	●	●	●		
10	3/8		●	●	●	●		
15	1/2					●		
20	3/4					● *1	●	●
25	1						●	●
Ⓒ Port thread								*2
Blank	Rc thread	●	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●	●
Ⓓ Option								*3
Drain discharge *4 Blank	Filter with manual drain cock, lubricator without manual cock	●	●	●	●	●	●	●
C	Lubricator with manual cock	●	●	●	●	●	●	●
F	Filter/auto-drain with manual override (NO: Exhaust when not pressurized)			●	●	●	●	●
F1	Filter/auto-drain with manual override (NC: No exhaust when not pressurized)	●	●	●	●	●	●	●
FF	Filter/large auto-drain with manual override (NO: Exhaust when not pressurized)							●
FF1	Filter/large auto-drain with manual override (NC: No exhaust when not pressurized)							●
Bowl material Blank	Polycarbonate bowl	●	●	●	●	●	●	●
Z	Nylon bowl	●	●	●	●	●	●	●
M	Metal bowl			●	●	●	●	●
M1	Metal bowl with manual drain cock *5		●	●	●	●	●	●
Element Blank	5 µm	●	●	●	●	●	●	●
Y	0.3 µm (submicron) *6			●	●	●	●	●
Diff press detect Blank	Without differential pressure detection port	●	●	●	●	●	●	●
Q	With differential pressure detection port (Rc1/4)						●	●
Pressure range Blank	0.05 to 0.85 MPa	●	●	●	●	●	●	●
L	0.05 to 0.35 MPa *7	●	●	●	●	●	●	●
Pressure relief Blank	With relief mechanism	●	●	●	●	●	●	●
N	Non-relief	●	●	●	●	●	●	●
Pressure gauge Blank	With standard pressure gauge (G401-W)	●	●	●	●	●	●	●
T	No pressure gauge (gauge port (1/4) is assembled sealed)	●	●	●	●	●	●	●
T8	Pressure gauge ready (gauge port (1/4) is left open)	●	●	●	●	●	●	●
Flow direction Blank	Standard flow (left → right)	●	●	●	●	●	●	●
X1	Reverse flow (right → left)	●	●	●	●	●	●	●
Ⓔ Assembled components								Pages 166 to 171, 182 to 187, 348 and 349
Blank	Without assembled component	●	●	●	●	●	●	●
U	Assembled component *8	●	●	●	●	●	●	●
Assembled component D	Distributor (D101-W, D401-W, D801-W)	●	●	●	●	●	●	●
S	Pressure switch (P1100-W, 4100-W, 8100-W)	●	●	●	●	●	●	●
P	Pressure switch (P4000-W)		●	●	●	●		
V	Residual pressure exhaust valve (V1000-W, 3000-W)	●	●	●	●	●		
K	Residual pressure exhaust valve with keyhole (V3010-W, V6010-W)		●	●	●	●	●	●
Ⓕ Display unit								
Blank	MPa display (Rc thread), psi display (NPT thread), bar display (G thread)	●	●	●	●	●	●	●
J1	MPa display (NPT, G thread)	●	●	●	●	●	●	●
Ⓖ Pipe adaptor set (included)								Page 350 *9
Blank	Not included	●	●	●	●	●	●	●
A6*W	1/8 pipe adaptor set	●						
A8*W	1/4 pipe adaptor set	●	●	●	●	●		
A10*W	3/8 pipe adaptor set	●	●	●	●	●		
A15*W	1/2 pipe adaptor set		●	●	●	●		
A20*W	3/4 pipe adaptor set					●	●	●
A25*W	1 pipe adaptor set						●	●
A32*W	1 1/4 pipe adaptor set						●	●
Adaptor thread								
Blank	Rc thread	●	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●	●
Ⓗ Other attachments								
Blank	Not included	●	●	●	●	●	●	●
PW	Pressure switch (P4000-W) + joiner set		●	●	●	●		
VW	Residual pressure exhaust valve (V1000-W, V3000-W) + joiner set	●	●	●	●	●		
Ⓘ Pressure gauge option (included)								Page 363 *10
Blank	Not included	●	●	●	●	●	●	●
G45P	G45D-8-P10(L:G45D-8-P04)	●	●	●	●	●	●	●
G49P	G49D-8-P10(L:G49D-8-P04)	●	●	●	●	●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)	●		●	●	●	●	●
G40P	G40D-8-P10(L:G40D-8-P04)	●	●	●	●	●	●	●
G52P	G52D-8-P10(L:G52D-8-P10)	●	●	●	●	●	●	●

⚠ Precautions for model No. selection

1: Pipe adaptor A400-20-W is assembled on both ends of C4000-20*-W. A20*W does not need to be selected for the pipe adaptor set.
*2: G threads and NPT threads are available for IN, OUT, gauge port and drain outlet (metal bowl with auto-drain). Attachments P and V are also included.
*3: Select options for the drainage, bowl material, element, differential pressure detection and regulator. When selecting options for several items, list options in order from the top.
*4: Refer to page 354 for the auto-drain usage conditions.
*5: When selecting option “M1”, select the drain discharge option “C”.
*6: Refer to page 108 for max. processing flow rate when option “Y” is selected.
*7: The pressure gauge’s indication range is 0 to 0.4 MPa for the option “L”.
*8: Installation position for assembled components

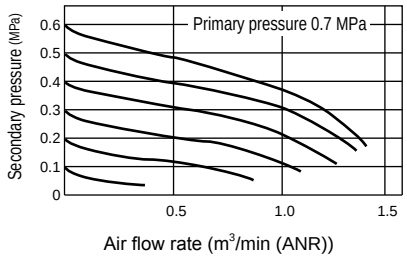
Code	Attachment Install positions	Compatible model
D	F+(D)+R+L	C1000-W to C8000-W
S or P	F+R+(S,P)+L	C1000-W to C8000-W (“P” excludes 1000, 6000 and 8000 Series)
V or K	F+R+L+(V,K)	C1000-W to C8000-W (“V” excludes 6000 and 8000 Series and “K” excludes 1000 Series)

Note) Indicate “U”+“D”, “S”,“P”,“V” and “K” when selecting an assembled component.
Use customized combination specifications sheet for any other combination.

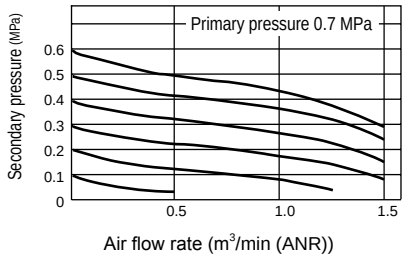
*9: The joiner set is enclosed with the pipe adaptor set.
*10: The pressure gauge option (included) can be selected only when Ⓒ Port thread is Rc thread.
*11: Display unit options when selecting NPT threads: If Blank is selected, the pressure unit is psi and the temperature display unit is °F.
When G thread and Blank display unit option are selected, the pressure unit will be bar and the temperature display unit will be °C.
When NPT/G thread and “J1” display unit option are selected, the pressure unit will be MPa and the temperature display unit will be °C.

Flow characteristics

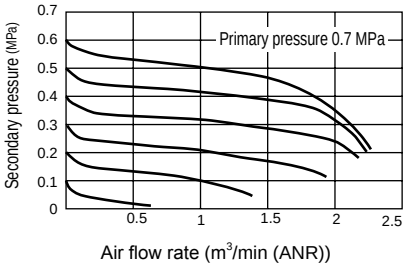
● C1000-6-W



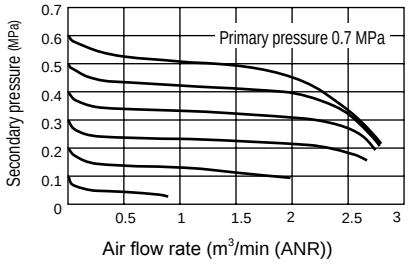
● C1000-8-W



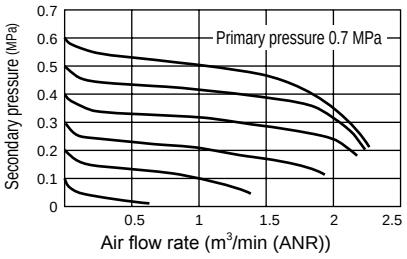
● C2000-8-W



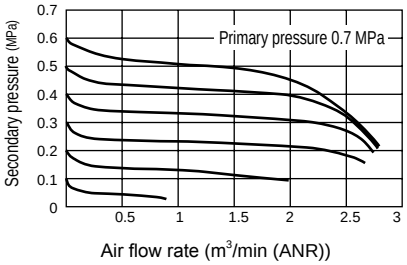
● C2000-10-W



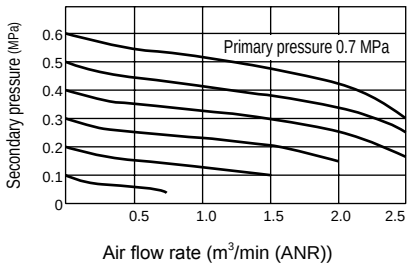
● C2500-8-W



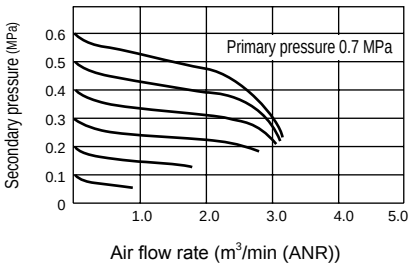
● C2500-10-W



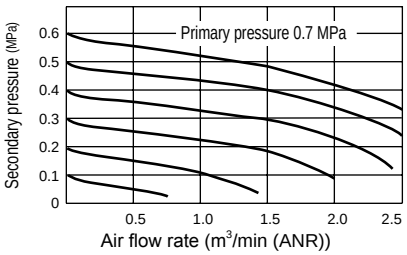
● C3000-8-W



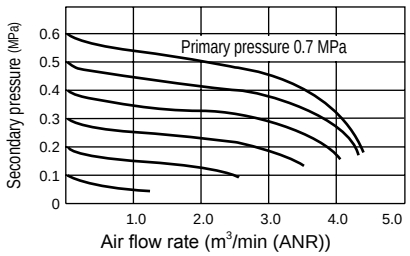
● C3000-10-W



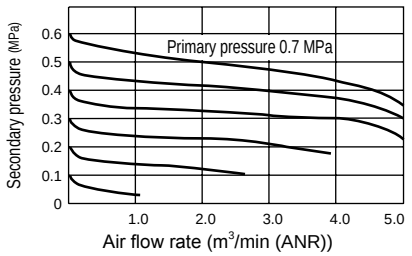
● C4000-8-W



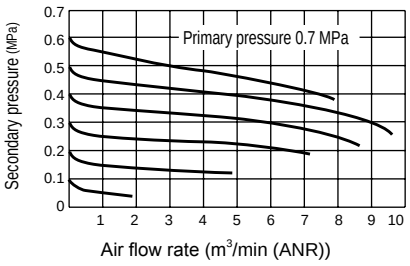
● C4000-10-W



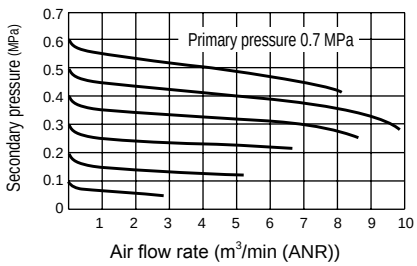
● C4000-15-W



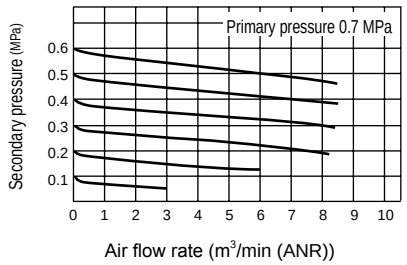
● C6500-20-W



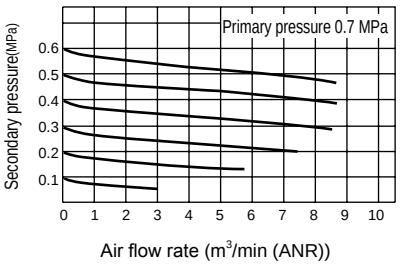
● C6500-25-W



● C8000-20-W



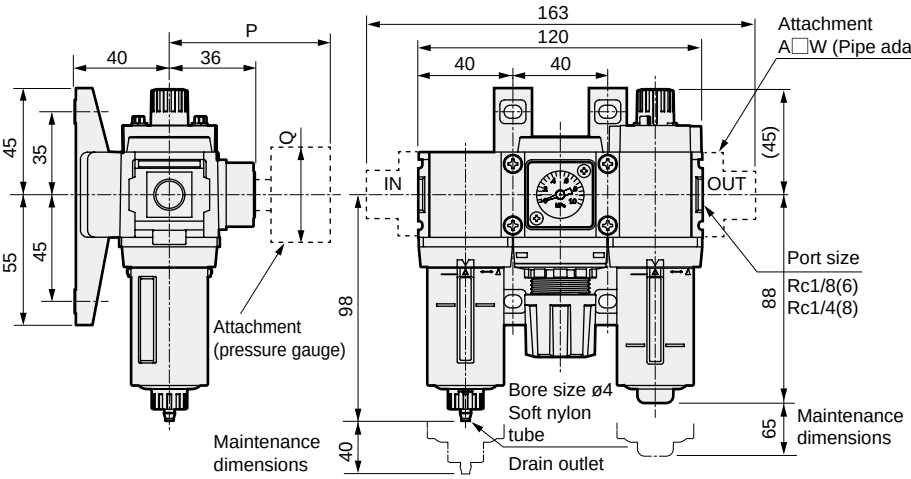
● C8000-25-W

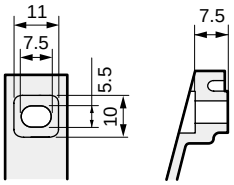


F.R.L. Combination

Dimensions CAD

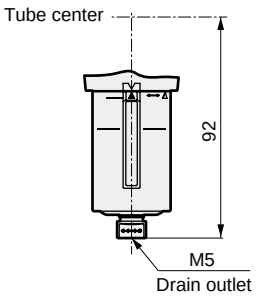
● C1000-W





Enlarged view of bracket section

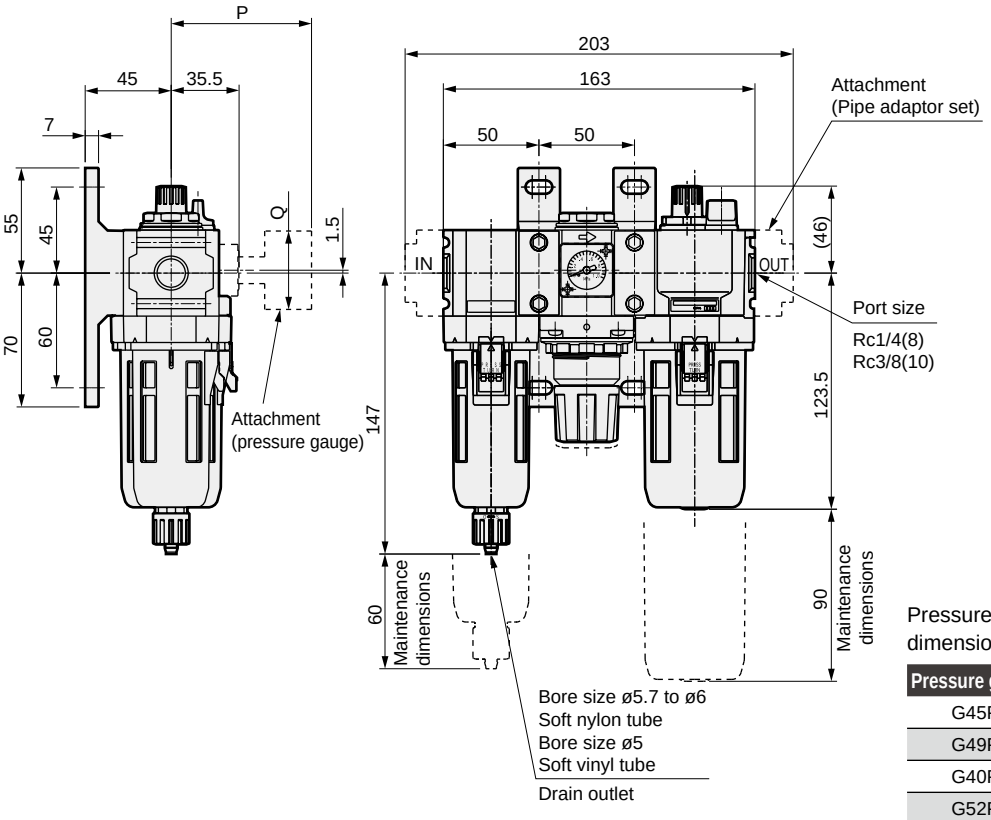
· Dimensions of options
With auto-drain (F1)



Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(74)	ø39
G49P	(73.5)	ø43.5
G59P	(76)	ø52
G40P	(75.5)	ø42.5
G52P	(86)	ø52.5

● C2000-W

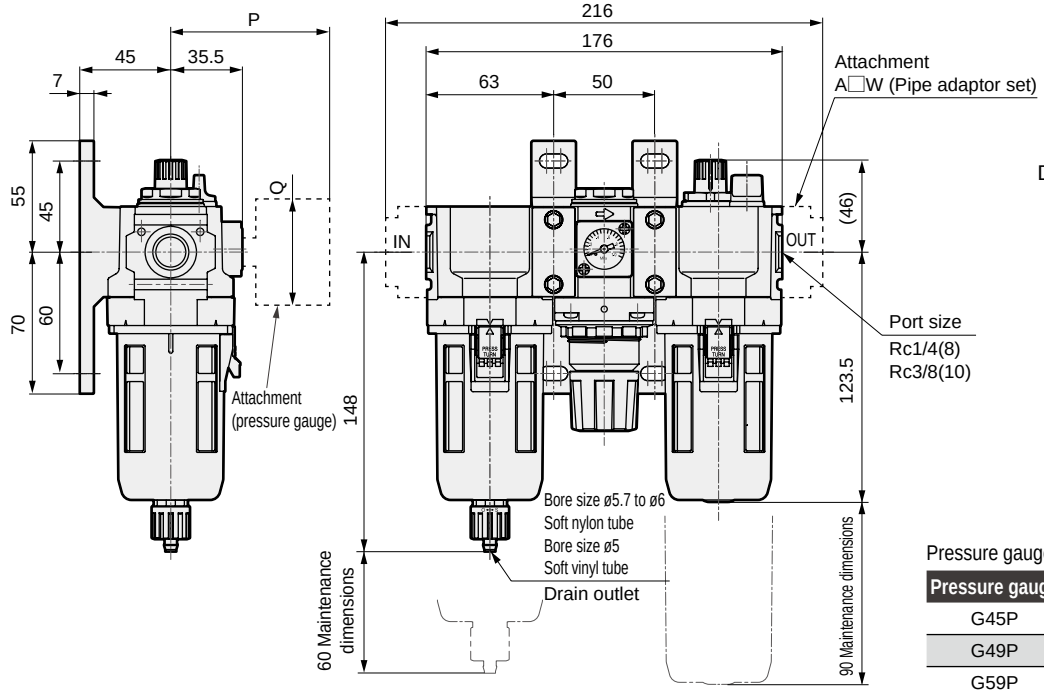


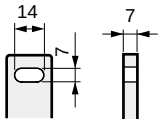
Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G40P	(75)	ø42.5
G52P	(85.5)	ø52.5

Dimensions CAD

● C2500-W



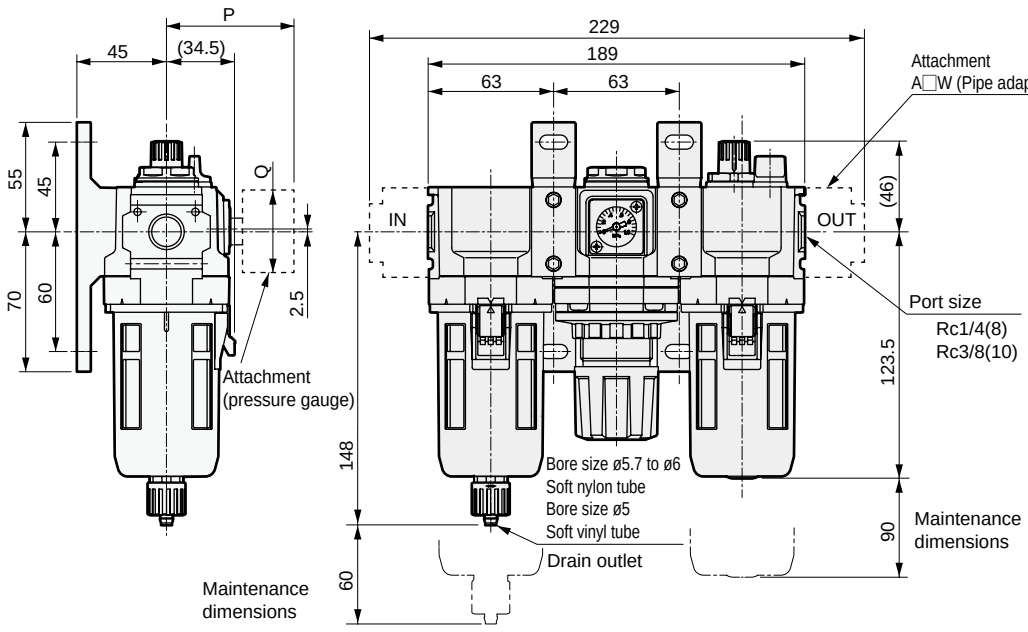


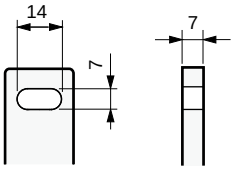
Dimensions of bracket section

Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G59P	(75.5)	ø52
G40P	(75)	ø42.5
G52P	(85.5)	ø52.5

● C3000-W





Enlarged view of bracket section

Pressure gauge attached optional dimensions table

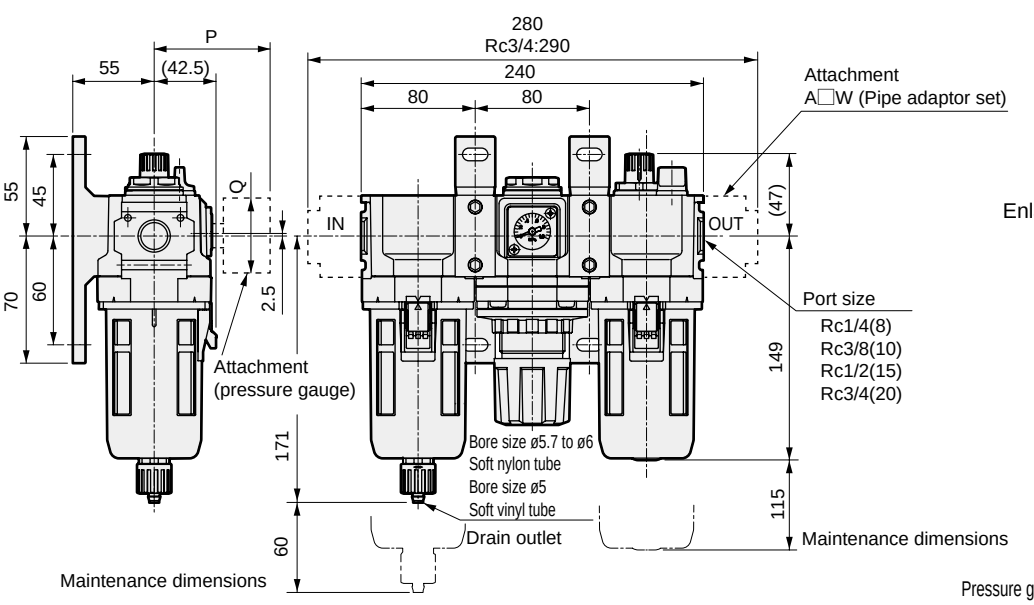
Pressure gauge	P	Q
G45P	(70)	ø39
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G52P	(82)	ø52.5

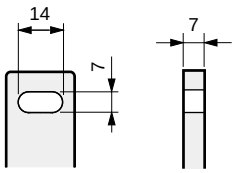
● Refer to page 113 for dimensions of the metal bowl option filter, and to page 158 for the lubricator.

F.R.L. Combination

Dimensions CAD

● C4000-W





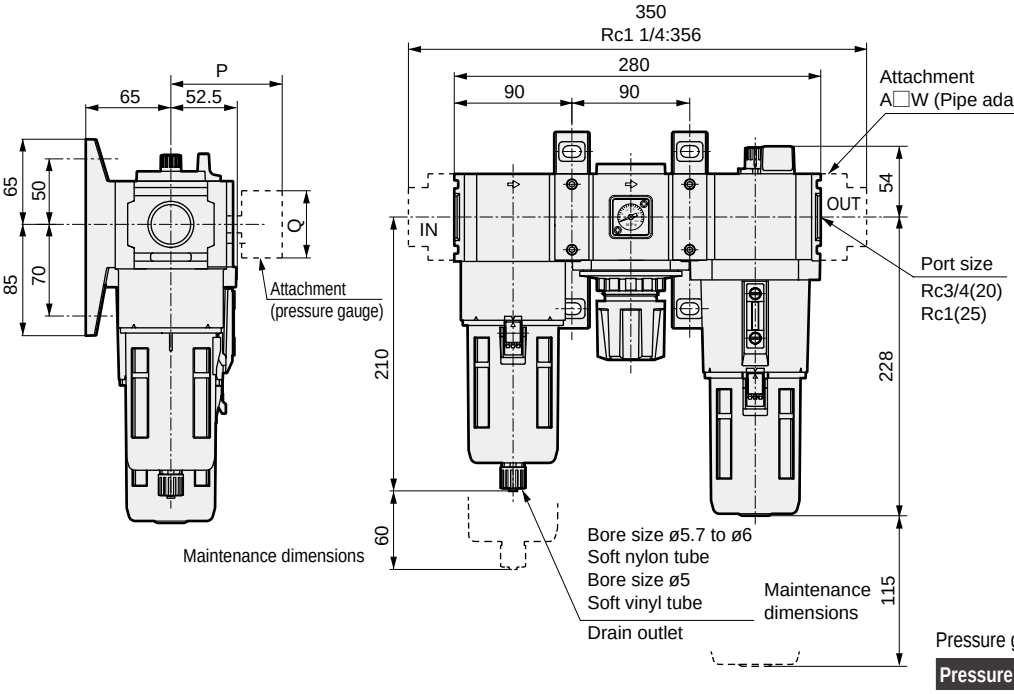
Enlarged view of bracket section

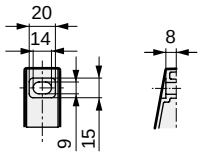
Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(75)	ø39
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G52P	(86)	ø52.5

● Refer to page 113 for dimensions of the metal bowl option filter, and to page 158 for the lubricator.

● C6500-W





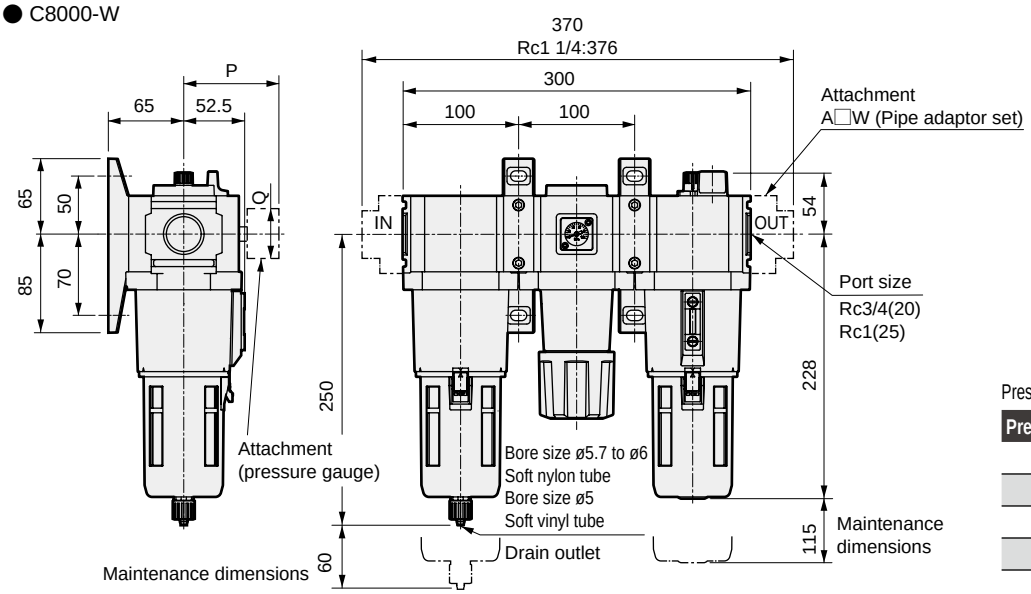
Dimensions of bracket section

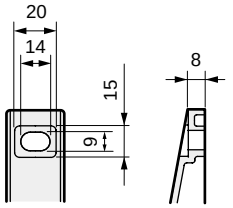
Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(80)	ø39
G49P	(79.5)	ø43.5
G59P	(82)	ø52
G40P	(81.5)	ø42.5
G52P	(93)	ø52.5

Dimensions

● C8000-W





Dimensions of bracket section

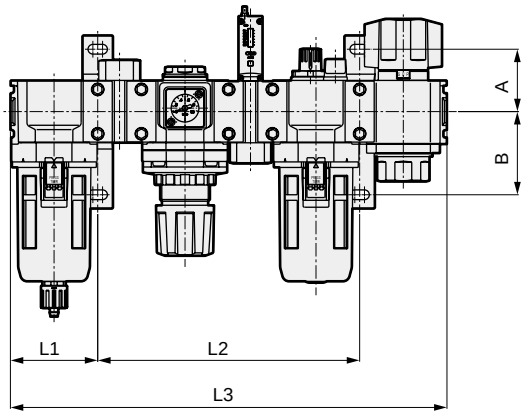
Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(85)	ø39
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G52P	(98)	ø52.5

● Refer to page 113 for dimensions of the metal bowl option filter, and to page 158 for the lubricator.

Option assembly dimensions

● C1000-W to C8000-W



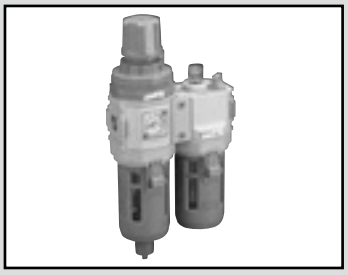
Model No.	A	B
C1000-W	35	45
C2000-W	45	60
C2500-W		
C3000-W		
C4000-W		
C6050-W	50	70
C8000-W		

Assembled option	D			S			P			V			K			DS			DP			DV			DK		
Model No.	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	-	-	-
C2000-W	50	81.5	194.5	50	81.5	194.5	50	130	243	50	113	226	50	113	226	50	113	226	50	161.5	274.5	50	144.5	257.5	50	144.5	257.5
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 *1	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		
Model No.	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	-	-	-	-	-	-	-	-	-
C2000-W	50	176	289	50	176	289	50	224.5	337.5	50	224.5	337.5	50	144.5	257.5	50	144.5	257.5	50	193	306	50	193	306
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 *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
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 page 346 for details on bracket mounting hole dimensions.
*1: The pipe adaptor is assembled on the OUT side.
As well, the pipe adaptor A400-20-W is attached on both ends of C4000-20-W.

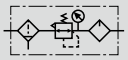


W.L. combination Standard White Series

C1010/C2010/C3010/C4010/C8010-W Series

Integrated filter, regulator and lubricator

● Port size: 1/8 to 1

JIS symbol 

RoHS CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item		C1010-W	C2010-W	C3010-W	C4010-W	C8010-W
Appearance						
Comps	Filter/regulator	W1000-W	W2000-W	W3000-W	W4000-W	W8000-W
	Lubricator	L1000-W	L3000-W	L3000-W	L4000-W	L8000-W
Working fluid		Compressed air				
Max. working pressure MPa		1.0 (≈150 psi, 10 bar) *2				
Proof pressure MPa		1.5 (≈220 psi, 15 bar)				
Ambient / fluid temperatures °C		5 (41°F) to 60 (140°F)				
Filtration rating μm		5				
Set pressure MPa		0.05 to 0.85 (*2)	0.05 (≈7.3 psi, 0.5 bar) to 0.85 (≈120 psi, 8.5 bar)			
Min. drip flow rate (*1) m^3/min(ANR)		0.015	0.03	0.03	0.065	0.065
Pressure relief		With relief mechanism				
Oil storage capacity cm^3		20	85	85	170	170(MAX 360)
Drain capacity cm^3		12	25	45	80	80 (*3)
Oil used		Turbine oil Class 1 ISO VG32 (spindle oil cannot be used)				
Port size Rc,NPT,G		1/8,1/4 (3/8 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8,1/2 (3/4 uses an adaptor)	3/4,1 (1 1/4 uses an adaptor)
Weight kg		0.31	0.77	0.97	1.45	3.57
Standard accessories		Pressure gauge, bracket, bowl guard				

*1: The min. drip flow is that at which five drops of turbine oil drip per minute at the set pressure of 0.5 MPa.
*2: When using C1010-W Series "F1" with auto-drain, the min. working pressure is 0.2 MPa and max. working pressure is 0.7 MPa. Refer to the max. working flow rate table (page 106) for F1000-W-F1 auto-drain for the max. working flow rate. Set the working flow rate to less than or equal to the max. working flow rate.
*3: Up to 170 cm^3 is stored with the manual drain cock only.
*4: In the case of "F" or "FF" with auto-drain, the min. working pressure of auto-drain is 0.1 MPa. Air is purged with initial drain until pressure reaches 0.1 MPa.
*5: In the case of "F1" or "FF1" with auto-drain, the min. working pressure of auto-drain is 0.15 MPa.
*6: When element option "Y" is selected, refer to the max. working flow rate table (page 108) for the max. flow rate. Set the working flow rate to less than or equal to the max. working flow rate.
*7: C2010-W Series with "F1" (with auto-drain) must be used at equal to or less than the max. working flow rate. (Refer to the F2000-W section on page 106 for max. flow rate.)

Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge					Bowl material		Press.gauge	Pipe adaptor set						
	F	F1	FF	FF1	C	M	M1	T*	A6*W	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W
C1010		0.007			0			0	0.09	0.09	0.09				
C2010		0.02			0		0.2	0		0.16	0.16	0.16			
C3010	0.02	0.02			0	0.2	0.2	0		0.16	0.16	0.16			
C4010	0.02	0.02			0	0.2	0.2	0		0.16	0.16	0.16	0.16		
C8010	0.02	0.02	0.02	0.02	0	0.2	0.2	0					0.53	0.53	0.53

Code	Assembled components				Pressure gauge					
	S	P	V	K	G45P	G49P	G59P	G40P	G52P	R2
C1010	0.15		0.18		0.074	0.086	0.115	0.085	0.15	0.04
C2010	0.23	0.54	0.29	0.34	0.074	0.086		0.085	0.15	0.04
C3010	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C4010	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C8010	0.51			0.34	0.074	0.086	0.115	0.085	0.15	0.04

How to order

C1010 - 6 ( ) - W - C - U SV - ( ) - A6W ( )

- Ⓐ Model No.
- Ⓑ Port size
- Ⓒ Port thread
- Ⓓ Option
- Ⓔ Assembled components
- Ⓕ Display unit *11
- Ⓖ Pipe adaptor set (included)
- Ⓗ Pressure gauge option (included)

* Refer to page 30 for the explanation of the option.

Code	Description	Ⓐ Model No. C1010	C2010	C3010	C4010	C8010
Ⓑ Port size						
6	1/8	●				
8	1/4	●	●	●	●	
10	3/8		●	●	●	
15	1/2				●	
20	3/4				●*1	●
25	1					●
Ⓒ Port thread						*2
Blank	Rc thread	●	●	●	●	●
N	NPT thread	●	●	●	●	●
G	G thread	●	●	●	●	●
Ⓓ Option						*3
Drain discharge *4 — **Blank**	Filter with manual drain cock, lubricator without manual cock	●	●	●	●	●
C	Lubricator with manual cock	●	●	●	●	●
F	Filter/auto-drain with manual override (NO: Exhaust when not pressurized)			●	●	●
F1	Filter/auto-drain with manual override (NC: No exhaust when not pressurized)	●	●	●	●	●
FF	Filter/large auto-drain with manual override (NO: Exhaust when not pressurized)					●
FF1	Filter/large auto-drain with manual override (NC: No exhaust when not pressurized)					●
Bowl material — **Blank**	Polycarbonate bowl	●	●	●	●	●
Z	Nylon bowl	●	●	●	●	●
M	Metal bowl			●	●	●
M1	Metal bowl with manual drain cock *5		●	●	●	●
Element — **Blank**	5 µm	●	●	●	●	●
Y	0.3 µm (submicron) *6			●	●	●
Pressure Range — **Blank**	0.05 to 0.85 MPa	●	●	●	●	●
L	0.05 to 0.35 MPa *7	●	●	●	●	●
Pressure relief — **Blank**	With relief mechanism	●	●	●	●	●
N	Non-relief	●	●	●	●	●
Pressure gauge — **Blank**	With standard pressure gauge (G401-W)	●	●	●	●	●
T	No pressure gauge (gauge port (1/4) is assembled sealed)	●	●	●	●	●
T8	Pressure gauge ready (gauge port (1/4) is left open)	●	●	●	●	●
Flow Direction — **Blank**	Standard flow (left → right)	●	●	●	●	●
X1	Reverse flow (right → left)	●	●	●	●	●
Ⓔ Assembled components	**Pages 166 to 171, 182 to 187, 348 and 349**					
Blank	Without assembled component	●	●	●	●	●
U	Assembled component *8	●	●	●	●	●
Assembled component — **S**	Pressure switch (P1100-W, 4100-W, 8100-W)	●	●	●	●	●
P	Pressure switch (P4000-W)		●	●	●	
V	Residual pressure exhaust valve (V1000-W, 3000-W)	●	●	●	●	
K	Residual pressure exhaust valve with keyhole (V3010-W, V6010-W)		●	●	●	●
Ⓕ Display unit						
Blank	MPa display (Rc thread), psi display (NPT thread), bar display (G thread)	●	●	●	●	●
J1	MPa display (NPT, G thread)	●	●	●	●	●
Ⓖ Pipe adaptor set (included)	**Page 350 *9**					
Blank	Not included	●	●	●	●	●
A6*W	1/8 pipe adaptor set	●				
A8*W	1/4 pipe adaptor set	●	●	●	●	
A10*W	3/8 pipe adaptor set	●	●	●	●	
A15*W	1/2 pipe adaptor set		●	●	●	
A20*W	3/4 pipe adaptor set				●	●
A25*W	1 pipe adaptor set					●
A32*W	1 1/4 pipe adaptor set					●
*** Adaptor thread**						
Blank	Rc thread	●	●	●	●	●
N	NPT thread	●	●	●	●	●
G	G thread	●	●	●	●	●
Ⓗ Pressure gauge option (included)	**Page 363 *10**					
Blank	Not included	●	●	●	●	●
G45P	G45D-8-P10(L:G45D-8-P04)	●	●	●	●	●
G49P	G49D-8-P10(L:G49D-8-P04)	●	●	●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)	●		●	●	●
G40P	G40D-8-P10(L:G40D-8-P04)	●	●	●	●	●
G52P	G52D-8-P10(L:G52D-8-P10)	●	●	●	●	●

⚠ Precautions for model No. selection

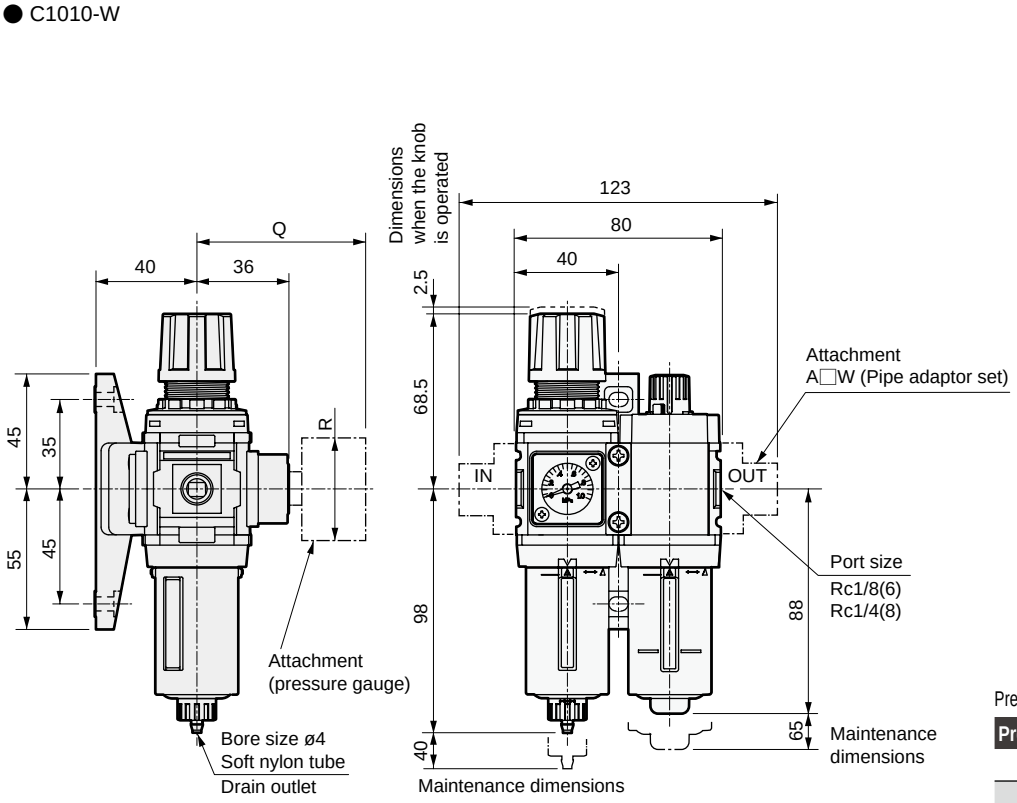
1: Pipe adaptor A400-20-W is assembled on both ends of C4010-20*-W. A20*W does not need to be selected for the pipe adaptor set.
*2: G threads and NPT threads are available for IN, OUT, gauge port and drain outlet (metal bowl with auto-drain). Attachments P and V are also included.
*3: Select options for the drainage, bowl material, element, and regulator. When selecting options for several items, list options in order from the top.
*4: Refer to page 354 for the auto-drain usage conditions.
*5: When selecting option "M1", select the drain discharge option "C".
*6: Refer to page 108 for max. processing flow rate when option "Y" is selected.
*7: The pressure gauge's indication range is 0 to 0.4 MPa for the option "L".
*8: Installation position for assembled components

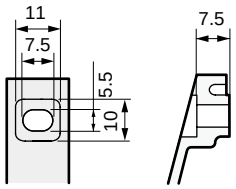
Code	Installation position for attachments	Compatible model
S or P	W+(S,P)+L	C1010-W to C8010-W ("P" excludes 8000 Series)
V or K	W+L+(V,K)	C1010-W to C8010-W ("V" excludes 8000 Series and "K" excludes 1000 Series)

Note) Indicate "U"+"S", "P","V" and "K" when selecting an assembled component.
Use customized combination specifications sheet for any other combination.
*9: The joiner set is enclosed with the pipe adaptor set.
*10: The pressure gauge option (included) can be selected only when Ⓒ Port thread is Rc thread.
*11: Display unit options when selecting NPT threads: If Blank is selected, the pressure unit is psi and the temperature display unit is °F.
When G thread and Blank display unit option are selected, the pressure unit will be bar and the temperature display unit will be °C.
When NPT/G thread and "J1" display unit option are selected, the pressure unit will be MPa and the temperature display unit will be °C.

Dimensions CAD

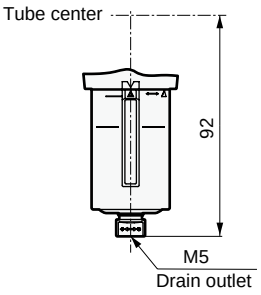
● C1010-W





Enlarged view of bracket section

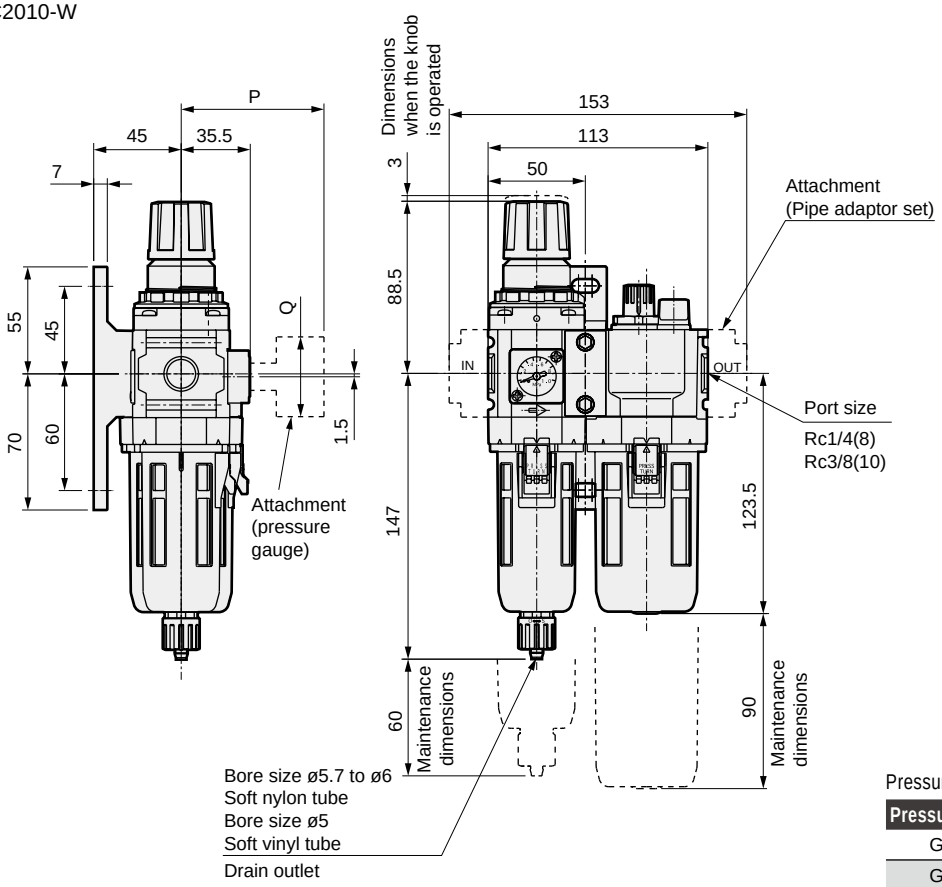
· Optional dimensions
With auto-drain (F1)



Pressure gauge attached optional dimensions table

Pressure gauge	Q	R
G45P	(74)	ø39
G49P	(73.5)	ø43.5
G59P	(76)	ø52
G40P	(75.5)	ø42.5
G52P	(86)	ø52.5

● C2010-W

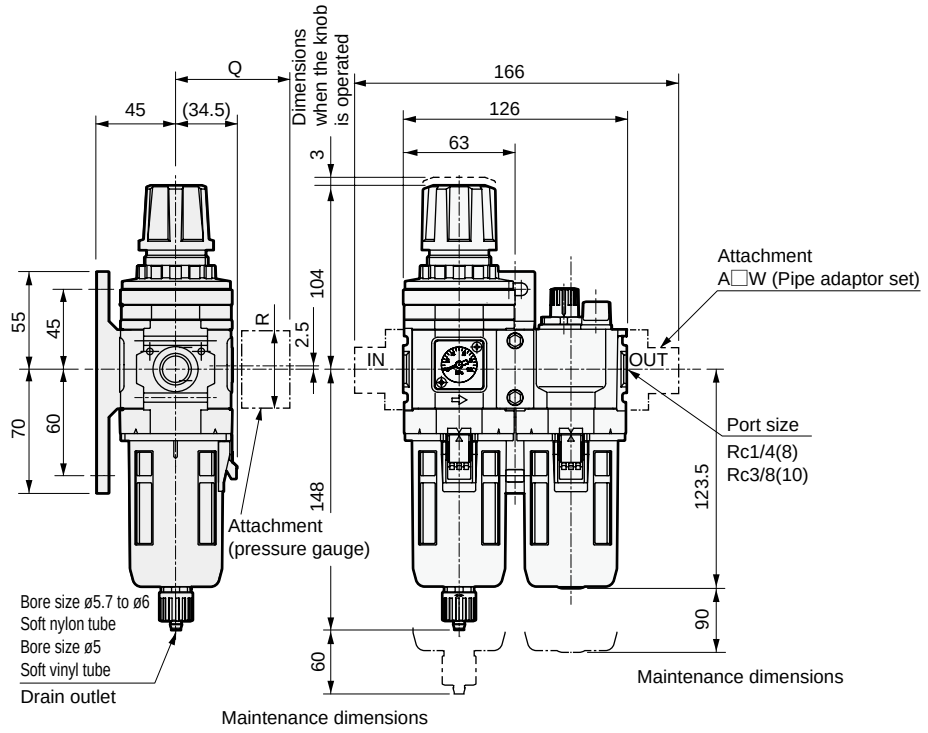


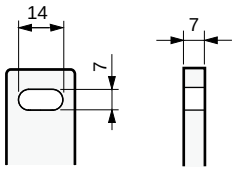
Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G40P	(75)	ø42.5
G52P	(85.5)	ø52.5

Dimensions

● C3010-W





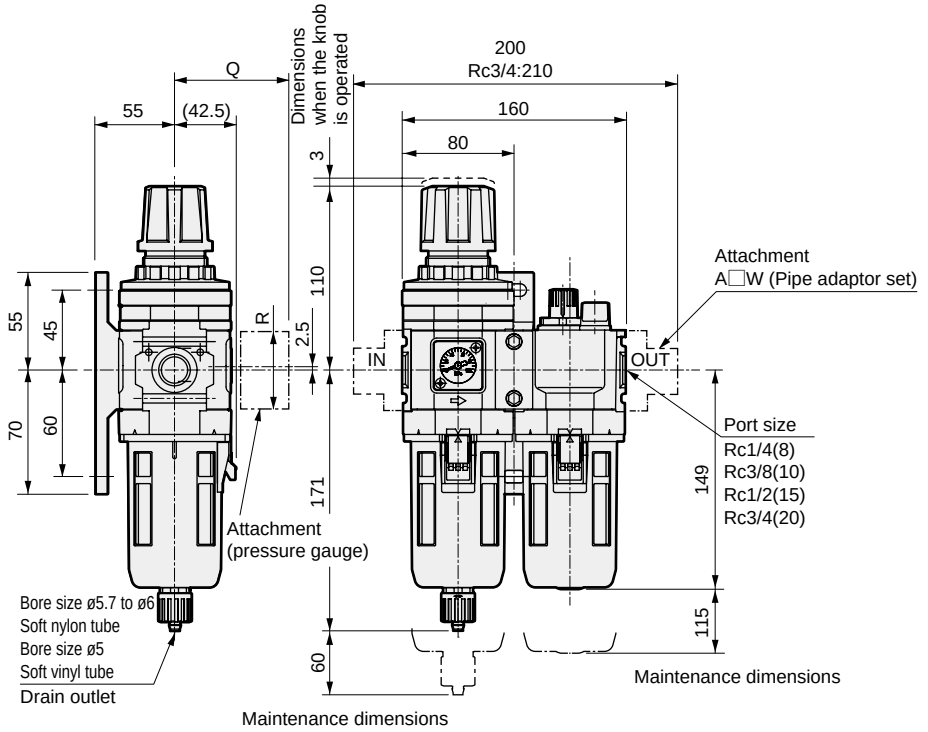
Enlarged view of bracket section

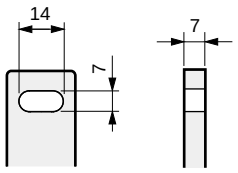
Pressure gauge attached optional dimensions table

Pressure gauge	Q	R
G45P	(70)	ø39
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G52P	(82)	ø52.5

● Refer to page 96 for the dimensions of the metal bowl option filter/regulator and page 158 for the lubricator.

● C4010-W





Enlarged view of bracket section

Pressure gauge attached optional dimensions table

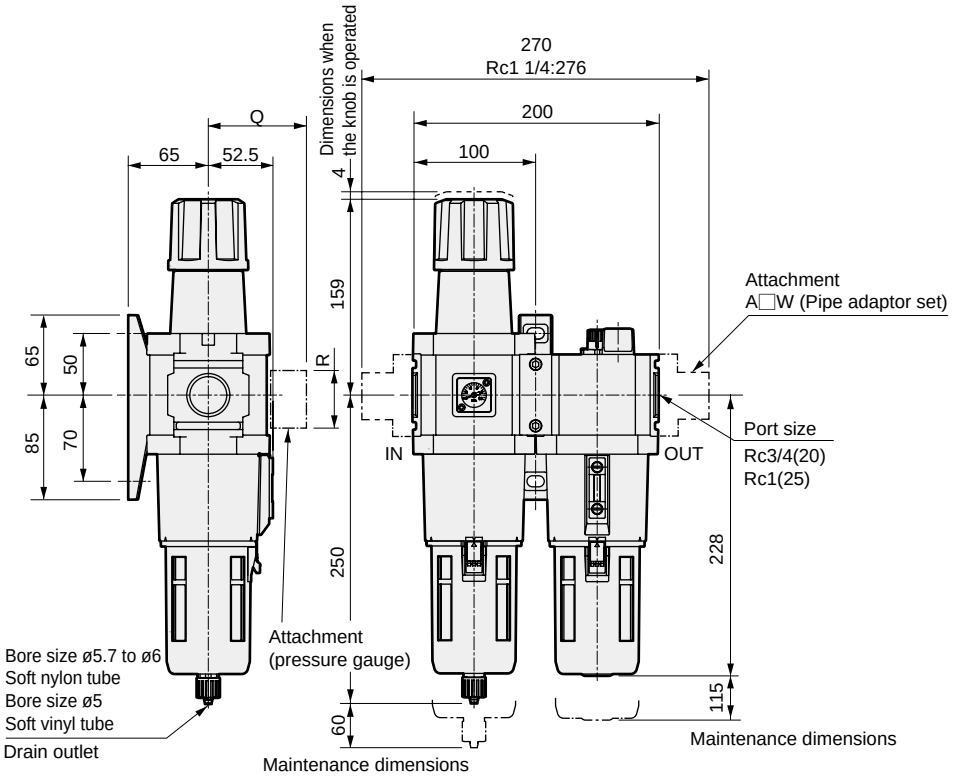
Pressure gauge	Q	R
G45P	(75)	ø39
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G52P	(86)	ø52.5

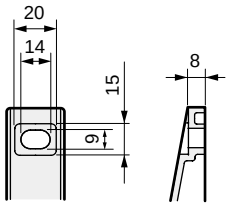
* Refer to page 96 for the dimensions of the metal bowl option filter/regulator and page 158 for the lubricator.

W.L. Combination

Dimensions CAD

● C8010-W





Enlarged view of bracket section

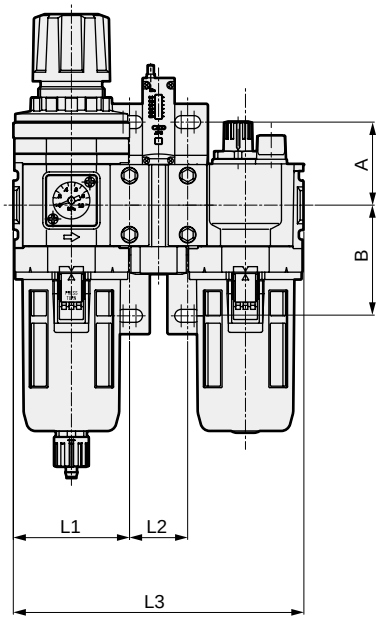
Pressure gauge attached optional dimensions table

Pressure gauge	Q	R
G45P	(85)	ø39
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G52P	(98)	ø52.5

● Refer to page 96 for the dimensions of the metal bowl option filter/regulator and page 158 for the lubricator.

Option assembly dimensions

● C1010-W to C8010-W

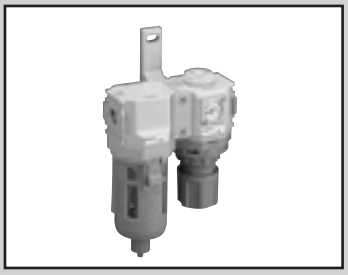


Model No.	A	B
C1010-W	35	45
C2010-W	45	60
C3010-W		
C4010-W		
C8010-W	50	70

Assembled option	S			P			V			K			SV			SK			PV			PK		
Model No.	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	-	-	-	-	-	-	-	-	-
C2010-W	50	31.5	144.5	50	80	193	50	63	176	50	63	176	50	94.5	207.5	50	94.5	207.5	50	143	256	50	143	256
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 *1	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 page 346 for details on bracket mounting hole dimensions.
*1: The pipe adaptor is assembled on the OUT side.
As well, the pipe adaptor A400-20-W is assembled on both ends of C4010-20-W.



F.R. combination Standard White Series

C1020/C2020/C2520-W C3020/C4020/C6020/C8020-W Series

Integrated filter and regulator

● Port size: 1/8 to 1

JIS symbol

RoHS CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item		C1020-W	C2020-W	C2520-W	C3020-W	C4020-W	C6020-W	C8020-W
Appearance								
Components	Filter	F1000-W	F2000-W	F3000-W	F3000-W	F4000-W	F6000-W	F8000-W
	Regulator	R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
Working fluid		Compressed air						
Max. working pressure MPa		1.0 (≈150 psi, 10 bar) *2						
Proof pressure MPa		1.5 (≈220 psi, 15 bar)						
Ambient / fluid temperatures °C		5 (41°F) to 60 (140°F)						*1
Filtration rating μm		5						
Set pressure MPa		0.05 to 0.85 *2	0.05 (≈7.3 psi, 0.5 bar) to 0.85 (≈120 psi, 8.5 bar)					
Pressure relief		With relief mechanism						
Drain capacity cm^3		12	25	45	45	80	80	80 (*3)
Port size Rc,NPT,G		1/8,1/4 (3/8 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8,1/2 (3/4 uses an adaptor)	3/4,1 (1 1/4 uses an adaptor)	3/4,1 (1 1/4 uses an adaptor)
Weight kg		0.28	0.64	0.65	0.79	1.25	2.07	2.93
Standard accessories		Pressure gauge, bracket, bowl guard						

*1: The ambient / fluid temperatures for “RN” or “RP” (pressure switch with display PPR is mounted) and “R2” (digital pressure sensor PPX is attached) is 5 to 50°C.
*2: When using C1020 Series “F1” with auto-drain, the min. working pressure is 0.2 MPa and max. working pressure is 0.7 MPa. Refer to the max. working flow rate table (page 106) for F1000-F1 auto-drain for the max. working flow rate. Set the working flow rate to less than or equal to the max. working flow rate.
*3: Up to 170 cm^3 is stored with the manual drain cock only.
*4: In the case of “F” or “FF” with auto-drain, the min. working pressure of auto-drain is 0.1 MPa. Air is purged with initial drainage until pressure reaches 0.1 MPa.
*5: In the case of “F1” or “FF1” with auto-drain, the min. working pressure of auto-drain is 0.15 MPa.
*6: When element option “Y” is selected, refer to page 108 for max. flow rate. Set the working flow rate to less than or equal to the max. working flow rate.
*7: C2020-W Series with “F1” (with auto-drain) must be used at equal to or less than the max. working flow rate. (Refer to the F2000-W section on page 106 for max. flow rate.)

Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge				Bowl material		Pressure gauge		Pipe adaptor set						
	F	F1	FF	FF1	M	M1	T*	RN/RP	A6*W	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W
C1020		0.007					0	0.04	0.09	0.09	0.09				
C2020		0.02				0.1	0	0.04		0.16	0.16	0.16			
C2520		0.02			0.1	0.1	0	0.04		0.16	0.16	0.16			
C3020	0.02	0.02			0.1	0.1	0	0.04		0.16	0.16	0.16			
C4020	0.02	0.02			0.1	0.1	0	0.04		0.16	0.16	0.16	0.16		
C6020	0.02	0.02			0.1	0.1	0	0.04					0.53	0.53	0.53
C8020	0.02	0.02	0.02	0.02	0.1	0.1	0	0.04					0.53	0.53	0.53

Code	Assembled components					Pressure gauge					
	D	S	P	V	K	G45P	G49P	G59P	G40P	G52P	R2
C1020	0.056	0.15		0.18		0.074	0.086	0.115	0.085	0.15	0.04
C2020	0.17	0.23	0.54	0.29	0.34	0.074	0.086		0.085	0.15	0.04
C2520	0.17	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C3020	0.17	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C4020	0.17	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C6020	0.45	0.51			0.9	0.074	0.086	0.115	0.085	0.15	0.04
C8020	0.45	0.51			0.9	0.074	0.086	0.115	0.085	0.15	0.04

How to order

C1020 - 6 ○ - W - L - U DSV - ○ - A6W - ○

- Ⓐ Model No.
- Ⓑ Port size
- Ⓒ Port thread
- Ⓓ Option
- Ⓔ Assembled components
- Ⓕ Unit indicated *11
- Ⓖ Pipe adaptor set (included)
- Ⓗ Pressure gauge option (attachment)

*** For the explanation of the option,Page 30.**

Code	Description	Ⓐ Model No. C1020	C2020	C2520	C3020	C4020	C6020	C8020
Ⓑ Port size								
6	1/8	●						
8	1/4	●	●	●	●	●		
10	3/8		●	●	●	●		
15	1/2					●		
20	3/4					●[8]	●	●
25	1						●	●
Ⓒ Port thread								*2
Blank	Rc thread	●	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●	●
Ⓓ Option								*3
Drain discharge *4	Blank	●	●	●	●	●	●	●
	F			●	●	●	●	●
	F1	●	●	●	●	●	●	●
	FF							●
	FF1							●
Bowl material	Blank	●	●	●	●	●	●	●
	Z	●	●	●	●	●	●	●
	M			●	●	●	●	●
	M1		●	●	●	●	●	●
Element	Blank	●	●	●	●	●	●	●
	Y 0.3 µm (submicron) *5			●	●	●	●	●
Diff press detect	Blank	●	●	●	●	●	●	●
	Q						●	●
Pressure range	Blank	●	●	●	●	●	●	●
	L 0.05 to 0.35 MPa *6	●	●	●	●	●	●	●
Pressure relief	Blank	●	●	●	●	●	●	●
	N	●	●	●	●	●	●	●
Pressure gauge	Blank	●	●	●	●	●	●	●
	T	●	●	●	●	●	●	●
	T8	●	●	●	●	●	●	●
	T6	●	●	●	●	●	●	●
	RN	●		●	●	●	●	●
	RP	●		●	●	●	●	●
Flow direction	Blank	●	●	●	●	●	●	●
	X1	●	●	●	●	●	●	●
Ⓔ Assembled components								Pages 166 to 171, 182 to 187, 348 and 349
Blank	Without assembled component type	●	●	●	●	●	●	●
U	Assembled component type *8	●	●	●	●	●	●	●
Assembled component	D	●	●	●	●	●	●	●
	S	●	●	●	●	●	●	●
	P		●	●	●	●		
	V	●	●	●	●	●		
	V1 *12	●	●	●	●	●		
	SV1 *12	●	●	●	●	●		
	K		●	●	●	●	●	●
Ⓕ Unit indicated								
Blank	MPa display (Rc thread), psi display (NPT thread)), bar display (G thread)	●	●	●	●	●	●	●
J1	MPa display (NPT, G threads)	●	●	●	●	●	●	●
Ⓖ Pipe adaptor set (attachments)								Page 350 *9
Blank	Not included	●	●	●	●	●	●	●
A6*W	1/8 pipe adaptor set	●						
A8*W	1/4 pipe adaptor set	●	●	●	●	●		
A10*W	3/8 pipe adaptor set	●	●	●	●	●		
A15*W	1/2 pipe adaptor set		●	●	●	●		
A20*W	3/4 pipe adaptor set					●	●	●
A25*W	1 pipe adaptor set						●	●
A32*W	1 1/4 pipe adaptor set						●	●
*** Adaptor thread**								
Blank	Rc thread	●	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●	●
Ⓗ Pressure gauge option (attachment)								Page 363 *10
Blank	Not included	●	●	●	●	●	●	●
G45P	G45D-8-P10 (L: G45D-8-P04)	●	●	●	●	●	●	●
G49P	G49D-8-P10(L:G49D-8-P04)	●	●	●	●	●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)	●		●	●	●	●	●
G40P	G40D-8-P10(L:G40D-8-P04)	●	●	●	●	●	●	●
G52P	G52D-8-P10(L:G52D-8-P10)	●	●	●	●	●	●	●
R2 *9	Digital pressure sensor: PPX-R10N-6M	●	●	●	●	●	●	●

Precautions for model No. selection

1: Pipe adaptor A400-20-W is assembled on both ends of C4020-20*-W. A20*W does not need to be selected for the pipe adaptor set.

*2: G threads and NPT threads are available for IN, OUT, gauge port and drain outlet (metal bowl with auto-drain). Attachments P and V are also included.

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

*4: Refer to page 354 for the auto-drain usage conditions.

*5: Refer to page 108 for max. processing flow rate when option "Y" is selected.

*6: The pressure gauge's indication range is 0 to 0.4 MPa for the option "L".

*7: When option "T6" is selected, only "Blank" or "R2" can be selected for ❾Pressure gauge (included). The digital pressure sensor PPX mounting port (Rc1/8) is left open.

*8: Installation position for assembled components

Code	Installation position for attachments	Compatibility
D	F+(D)+R	C1020-W to C8020-W
S or P	F+R+(S,P)	C1020-W to C8020-W ("P" excludes 1000, 6000 and 8000 Series)
V or K	F+R+(V, K)	C1020-W to C8020-W ("V" excludes 6000 and 8000 Series and "K" excludes 1000 Series)
V1	(V1)+F+R	C1020-W to C4020-W ("R" is reverse regulator)
SV1	(V1)+F+R+(S)	C1020-W to C4020-W ("R" is reverse regulator)

Note) Indicate "U"+"D", "S","P","V", "V1", "SV1" and "K" when selecting an assembled component.
Use customized combination specifications sheet for any other combination.

*9: The joiner set is enclosed with the pipe adaptor set.

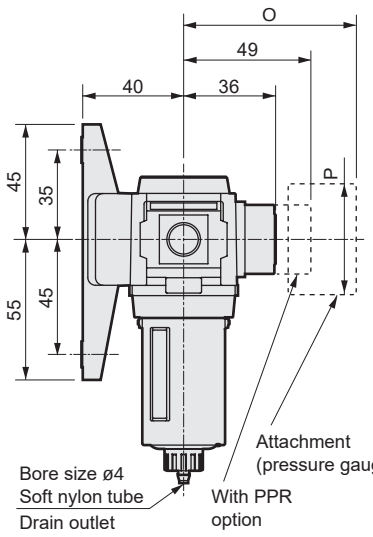
*10: The pressure gauge option (included) can be selected only when Ⓒ Port thread is Rc thread.

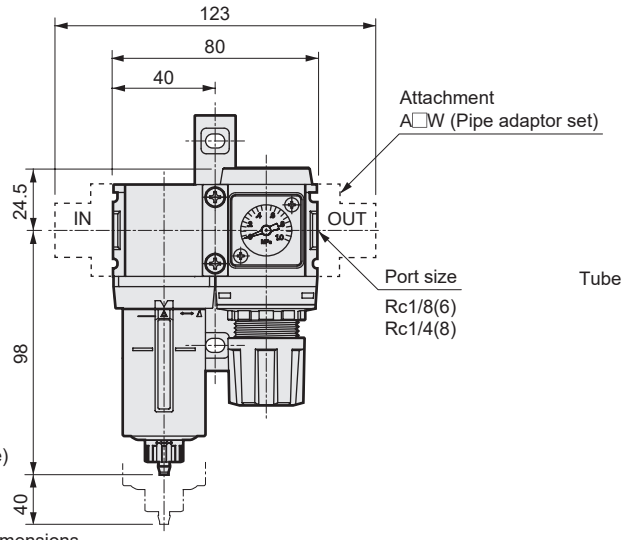
*11: Display unit options when selecting NPT threads: If Blank is selected, the pressure unit is psi and the temperature display unit is °F.
When G thread and Blank display unit option are selected, the pressure unit will be bar and the temperature display unit will be °C.
When NPT/G thread and "J1" display unit option are selected, the pressure unit will be MPa and the temperature display unit will be °C.

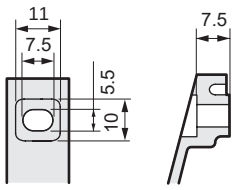
*12: Assembled components (V1, SV1) can be selected only with port size and drain discharge options. When selecting other options, they are handled as customized combinations.

Dimensions CAD

● C1020-W

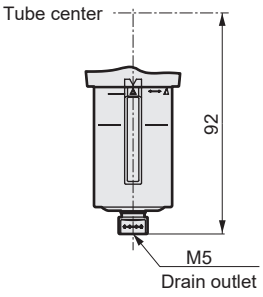






Enlarged view of bracket section

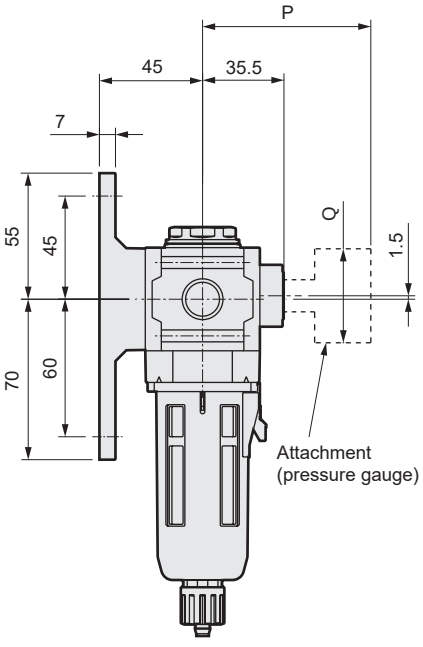
· Optional dimensions
With auto-drain (F1)

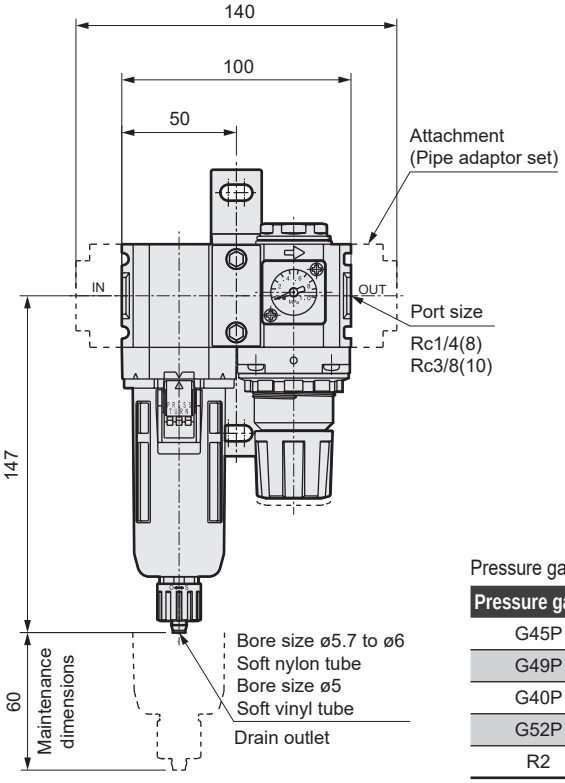


Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(74)	ø39
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

● C2020-W



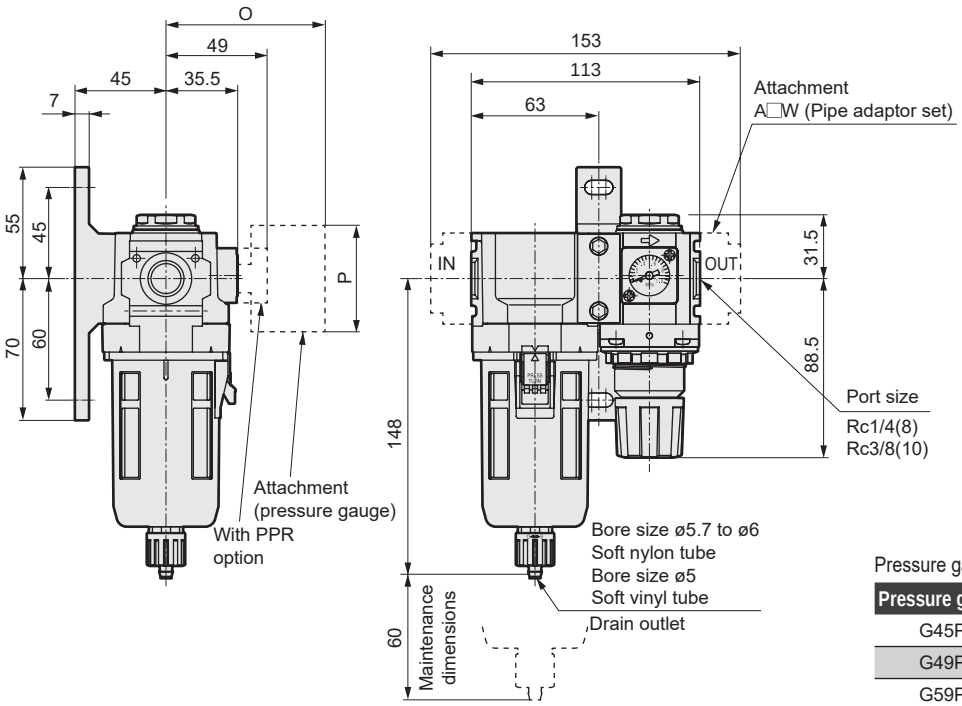


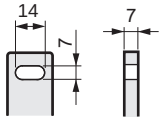
Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G40P	(75)	ø42.5
G52P	(85.5)	ø52.5
R2	(73)	□30

Dimensions CAD

● C2520-W



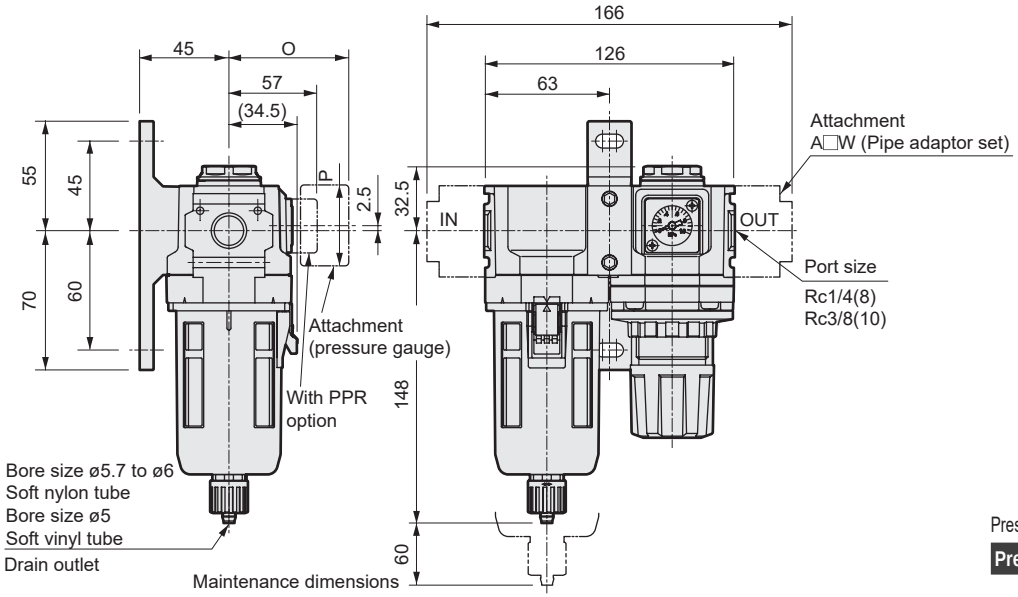


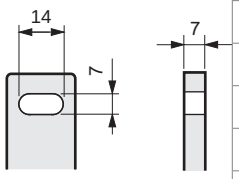
Dimensions of
bracket section

Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G59P	(75.5)	ø52
G40P	(75)	ø42.5
G52P	(85.5)	ø52.5
R2	(73)	□30

● C3020-W





Enlarged view of
bracket section

Pressure gauge attached optional dimensions table

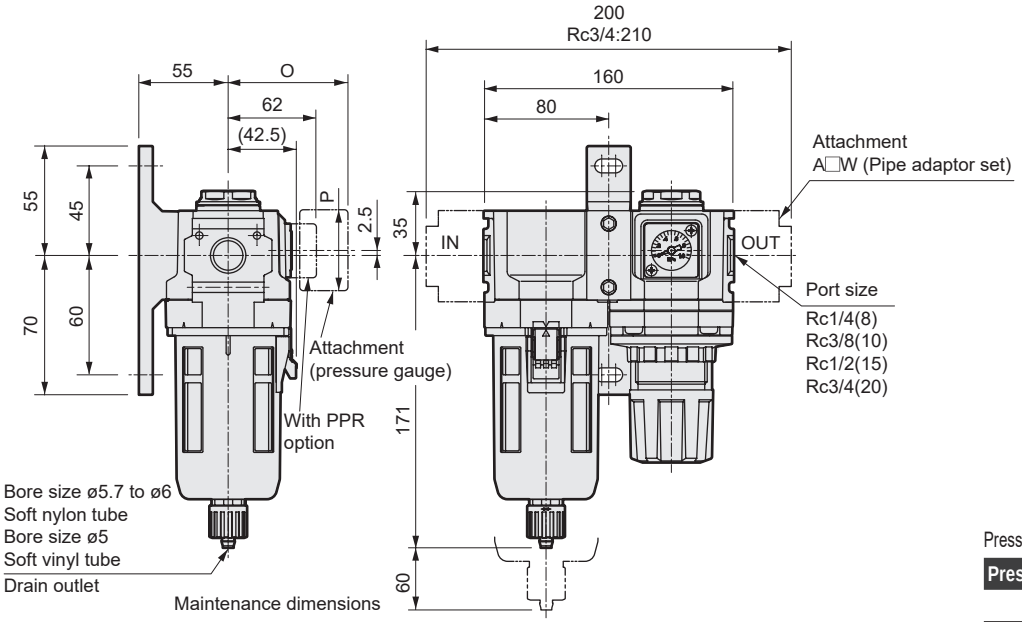
Pressure gauge	O	P
G45P	(70)	ø39
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G52P	(82)	ø52.5
R2	(69.5)	□30

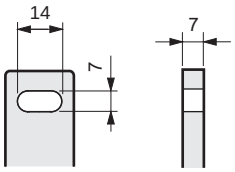
● Refer to page 113 for the optional dimensions of the metal bowl.

F.R. Combination

Dimensions CAD

● C4020-W





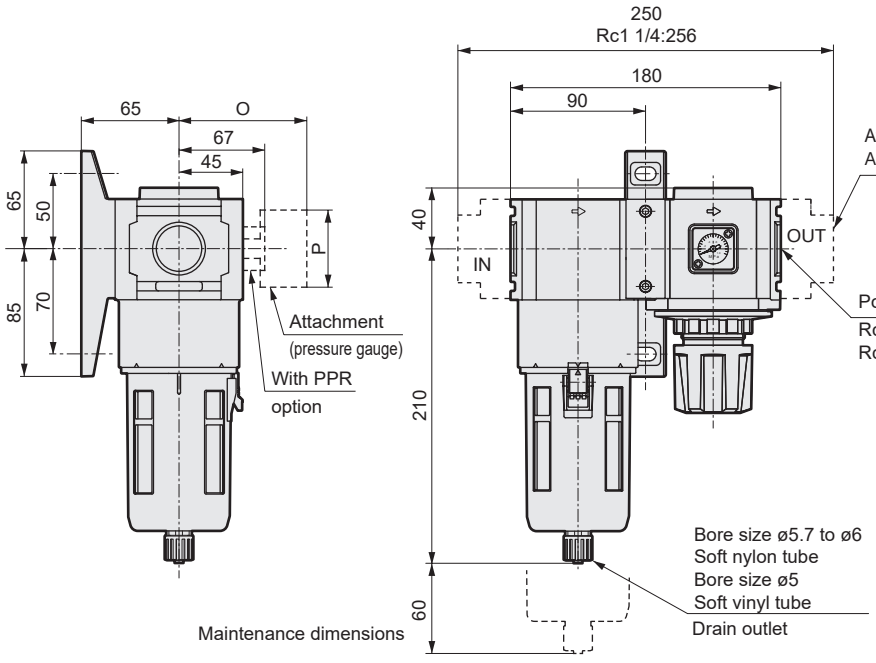
Enlarged view of bracket section

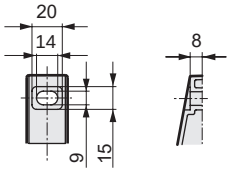
Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(75)	ø39
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G52P	(86)	ø52.5
R2	(75)	□30

● Refer to page 113 for the optional dimensions of the metal bowl.

● C6020-W





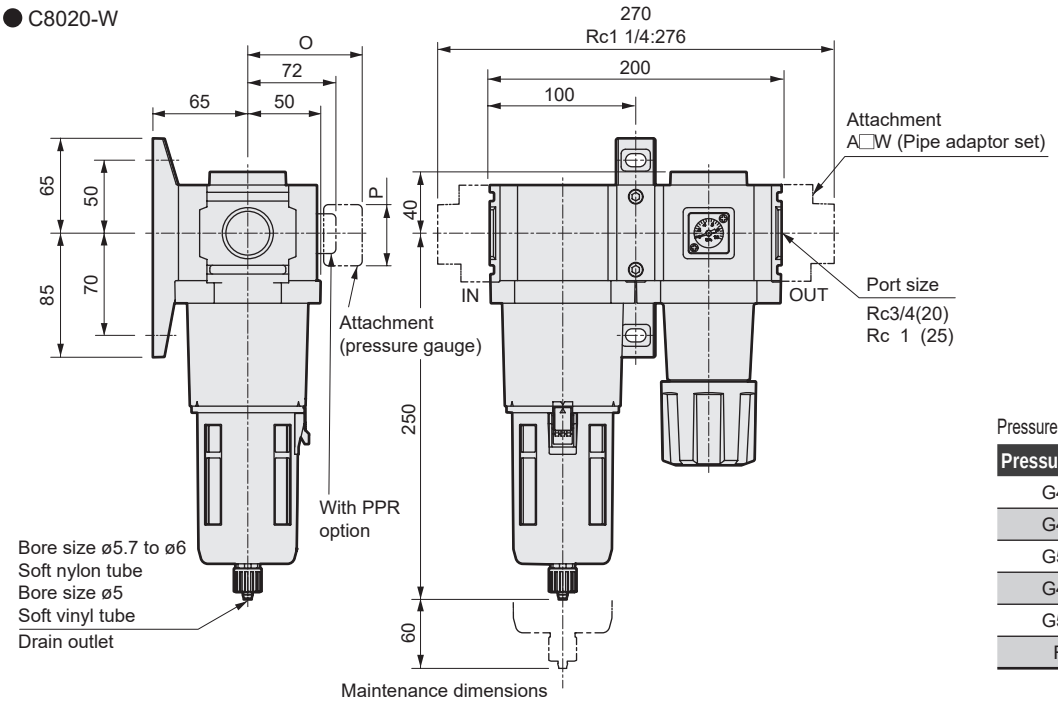
Dimensions of bracket section

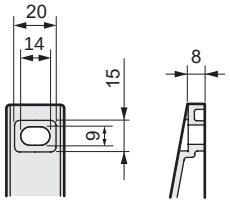
Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(80)	ø39
G49P	(79.5)	ø43.5
G59P	(82)	ø52
G40P	(81.5)	ø42.5
G52P	(93)	ø52.5
R2	(80)	□30

Dimensions

● C8020-W





Enlarged view of bracket section

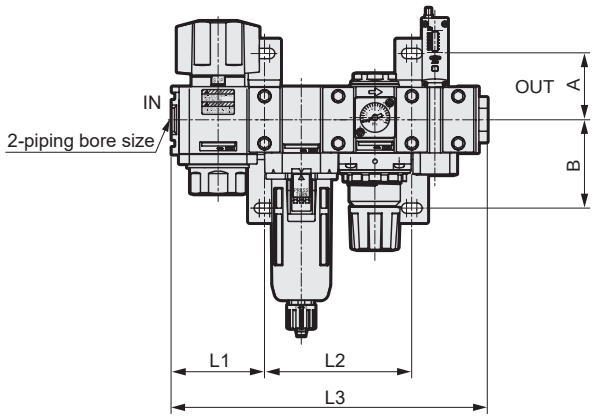
Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(85)	ø39
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G52P	(98)	ø52.5
R2	(85)	□30

● Refer to page 113 for the optional dimensions of the metal bowl.

Option assembly dimensions

● C1020-W to C8020-W



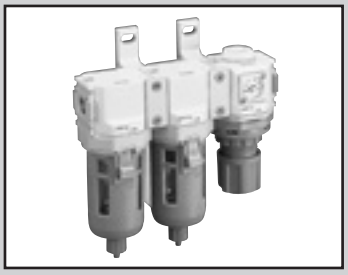
Model No.	A	B
C1020-W	35	45
C2020-W	45	60
C2520-W		
C3020-W		
C4020-W		
C6020-W	50	70
C8020-W		

Assembled option	D			S (*1)			P			V			V1			K			DS (*1)			DP			DV			DK		
Model No.	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	L1	L2	L3
C1020-W	40	28	108	40	40	129.5	–	–	–	40	40	120	40	40	120	–	–	–	40	68	157.5	–	–	–	40	68	148	–	–	–
C2020-W	50	31.5	131.5	50	50	151.5	50	50	180	50	50	163	63	50	163	50	50	163	50	81.5	183	50	81.5	211.5	50	81.5	194.5	50	81.5	194.5
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	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	63	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 *1	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	DSV			DSK			DPV			DPK			SV			SV1			SK			PV			PK		
Model No.	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	96	176	–	–	–	–	–	–	–	–	–	40	68	148	40	80	170	–	–	–	–	–	–	–	–	–
C2020-W	50	113	226	50	113	226	50	162	274.5	50	162	274.5	50	81.5	194.5	63	100	215	50	81.5	194.5	50	130	243	50	130	243
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	126	241	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	63	160	275	80	111.5	254.5	80	160	303	80	160	303
C4020-20-W *1	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-bracket mounting hole
L2: Spacing dimensions of the mounting hole from the first T-bracket to the second T-bracket
L3: Dimensions from the IN edge to the OUT edge

* Refer to page 346 for details on bracket mounting hole dimensions.
*1: The pipe adaptor is assembled on the OUT side.
As well, the pipe adaptor A400-20-W is assembled on both ends of C4020-20-W.

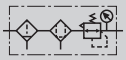


F.M.R. combination Standard White Series

C1030/C2030/C2530-W C3030/C4030/C6030/C8030-W Series

Integrated filter, oil mist filter and regulator

● Port size: 1/8 to 1

JIS symbol 

RoHS CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item		C1030-W	C2030-W	C2530-W	C3030-W	C4030-W	C6030-W	C8030-W
Appearance								
Comps	Filter	F1000-W	F2000-W	F3000-W	F3000-W	F4000-W	F6000-W	F8000-W
	Oil mist filter	M1000-W	M2000-W	M3000-W	M3000-W	M4000-W	M6000-W	M8000-W
	Regulator	R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
Working fluid		Compressed air						
Max. working pressure MPa		1.0 (≈150 psi, 10 bar) *3						
Proof pressure MPa		1.5 (≈220 psi, 15 bar)						
Ambient / fluid temperatures °C		5 (41°F) to 60 (140°F)						*2
Set pressure MPa		0.05 to 0.85 *3	0.05 (≈7.3 psi, 0.5 bar) to 0.85 (≈120 psi, 8.5 bar)					
Pressure relief		With relief mechanism						
Port size Rc,NPT,G		1/8,1/4 (3/8 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8,1/2 (3/4 uses an adaptor)	3/4,1 (11/4 uses an adaptor)	3/4,1 (11/4 uses an adaptor)
Weight kg		0.40	0.98	1.02	1.10	1.86	3.19	4.45
Secondary oil concentration (Oil mist filter outlet side)		0.01 mg/m^3 or less (0.1 mg/m^3 or less after oil saturation)						
Max. flow rate (*1) m^3/min		0.15	0.25	0.36	0.36	0.825	1.27	2.6

*1: The max. flow is for a primary pressure of 0.7 MPa. Refer to page 108 for the max. flow rate of element option "Y".
*2: The ambient / fluid temperatures for "RN" or "RP" (pressure switch with display PPR is mounted) and "R2" (digital pressure sensor PPX is attached) is 5 to 50°C.
*3: When using C1030-W Series "F1" with auto-drain, the NC auto-drain is included for both the filter and oil mist filter. Min. working pressure is 0.2 MPa and max. working pressure is 0.7 MPa. Refer to the max. working processing flow rate table (page 119) for M1000-W-F1 auto-drain for the max. working flow rate.
*4: Refer to page 116 for details on other oil mist filters.
*5: In the case of "F" with auto-drain, the supply air pressure is 0.15 MPa or more. For the air filter auto-drain, air is purged with the initial drainage until pressure reaches 0.1 MPa.
*6: When "F1" with an auto-drain is selected, the filter, oil mist filter, and NC auto-drain are assembled, but the supply air pressure must be 0.15 MPa and over.

Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge				Bowl material		Pressure gauge		Pipe adaptor set						
	F	F1	FF	FF1	M	M1	T*	RN/RP	A6*W	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W
C1030		0.014					0	0.04	0.09	0.09	0.09				
C2030		0.04				0.2	0	0.04		0.16	0.16	0.16			
C2530		0.04			0.2	0.2	0	0.04		0.16	0.16	0.16			
C3030	0.04	0.04			0.2	0.2	0	0.04		0.16	0.16	0.16			
C4030	0.04	0.04			0.2	0.2	0	0.04		0.16	0.16	0.16	0.16		
C6030	0.04	0.04			0.2	0.2	0	0.04					0.53	0.53	0.53
C8030	0.04	0.04	0.04	0.04	0.2	0.2	0	0.04					0.53	0.53	0.53

Code	Assembled components					Pressure gauge					
	D	S	P	V	K	G45P	G49P	G59P	G40P	G52P	R2
C1030	0.056	0.15		0.18		0.074	0.086	0.115	0.085	0.15	0.04
C2030	0.17	0.23	0.54	0.29	0.34	0.074	0.086		0.085	0.15	0.04
C2530	0.17	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C3030	0.17	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C4030	0.17	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C6030	0.45	0.51			0.9	0.074	0.086	0.115	0.085	0.15	0.04
C8030	0.45	0.51			0.9	0.074	0.086	0.115	0.085	0.15	0.04

How to order

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

- Ⓐ Model No.
- Ⓑ Port size
- Ⓒ Port thread
- Ⓓ Option
- Ⓔ Assembled components
- Ⓕ Display unit *12
- Ⓖ Pipe adaptor set (included)
- Ⓗ Pressure gauge option (included)

* Refer to page 30 for the explanation of the option.

Code	Description	Ⓐ Model No. C1030	C2030	C2530	C3030	C4030	C6030	C8030
Ⓑ Port size								
6	1/8	●						
8	1/4	●	●	●	●	●		
10	3/8		●	●	●	●		
15	1/2					●		
20	3/4					●*1	●	●
25	1						●	●
Ⓒ Port thread								*2
Blank	Rc thread	●	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●	●
Ⓓ Option								*3
Drain discharge *4, *5	Blank: With manual drain cock	●	●	●	●	●	●	●
	F: Auto-drain with manual override (NO: Exhaust when not pressurized)			●	●	●	●	●
	F1: Auto-drain with manual override (NC: No exhaust when not pressurized)	●	●	●	●	●	●	●
	FF: Large auto-drain with manual override (NO: Exhaust when not pressurized)							●
	FF1: Large auto-drain with manual override (NC: No exhaust when not pressurized)							●
Bowl material	Blank: Polycarbonate bowl	●	●	●	●	●	●	●
	Z: Nylon bowl	●	●	●	●	●	●	●
	M: Metal bowl			●	●	●	●	●
	M1: Metal bowl with manual drain cock		●	●	●	●	●	●
Element	Blank: 5 µm	●	●	●	●	●	●	●
	Y: 0.3 µm (submicron) *6			●	●	●	●	●
Diff press detect	Blank: Without differential pressure detection port	●	●	●	●	●	●	●
	Q: With differential pressure detection port (Rc 1/4)						●	●
Pressure range	Blank: 0.05 to 0.85 MPa	●	●	●	●	●	●	●
	L: 0.05 to 0.35 MPa *7	●	●	●	●	●	●	●
Pressure relief	Blank: With relief mechanism	●	●	●	●	●	●	●
	N: Non-relief	●	●	●	●	●	●	●
Pressure gauge	Blank: With standard pressure gauge (G401-W)	●	●	●	●	●	●	●
	T: No pressure gauge (gauge port (1/4) is assembled sealed)	●	●	●	●	●	●	●
	T8: Pressure gauge ready (gauge port (1/4) is left open)	●	●	●	●	●	●	●
	T6: Digital pressure sensor PPX included option *8	●	●	●	●	●	●	●
	RN: Pressure switch with display PPR mounted (NPN output 1 point)	●		●	●	●	●	●
	RP: Pressure switch with display PPR mounted (PNP output 1 point)	●		●	●	●	●	●
Flow Direction	Blank: Standard flow (left → right)	●	●	●	●	●	●	●
	X1: Reverse flow (right → left)	●	●	●	●	●	●	●
Ⓔ Assembled components								Pages 166 to 171, 182 to 187, 348 and 349
Blank	Without assembled component	●	●	●	●	●	●	●
U	Assembled component *9	●	●	●	●	●	●	●
Assembled component	D: Distributor (D101-W, D401-W, D801-W)	●	●	●	●	●	●	●
	S: Pressure switch (P1100-W, 4100-W, 8100-W)	●	●	●	●	●	●	●
	P: Pressure switch (P4000-W)		●	●	●	●		
	V: Residual pressure exhaust valve (V1000-W, 3000-W)	●	●	●	●	●		
	K: Residual pressure exhaust valve with keyhole (V3010-W, V6010-W)		●	●	●	●	●	●
Ⓕ Display unit								
Blank	MPa display (Rc thread), psi display (NPT thread), bar display (G thread)	●	●	●	●	●	●	●
J1	MPa display (NPT, G thread)	●	●	●	●	●	●	●
Ⓖ Pipe adaptor set (included)								Page 350 *10
Blank	Not included	●	●	●	●	●	●	●
A6*W	1/8 pipe adaptor set	●						
A8*W	1/4 pipe adaptor set	●	●	●	●	●		
A10*W	3/8 pipe adaptor set	●	●	●	●	●		
A15*W	1/2 pipe adaptor set		●	●	●	●		
A20*W	3/4 pipe adaptor set					●	●	●
A25*W	1 pipe adaptor set						●	●
A32*W	1 1/4 pipe adaptor set						●	●
*** Adaptor thread**								
Blank	Rc thread	●	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●	●
Ⓗ Pressure gauge option (included)								Page 363 *11
Blank	Not included	●	●	●	●	●	●	●
G45P	G45D-8-P10(L:G45D-8-P04)	●	●	●	●	●	●	●
G49P	G49D-8-P10(L:G49D-8-P04)	●	●	●	●	●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)	●		●	●	●	●	●
G40P	G40D-8-P10(L:G40D-8-P04)	●	●	●	●	●	●	●
G52P	G52D-8-P10(L:G52D-8-P10)	●	●	●	●	●	●	●
R2 *8	Digital pressure sensor: PPX-R10N-6M	●	●	●	●	●	●	●

⚠ Precautions for model No. selection

1: Pipe adaptor A400-20-W is assembled on both ends of C4030-20*-W. A20*W does not need to be selected for the pipe adaptor set.

*2: G threads and NPT threads are available for IN, OUT, gauge port and drain outlet (metal bowl with auto-drain). Attachments P and V are also included.

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

*4: Refer to page 354 for the auto-drain usage conditions.

*5: When option code "F" is selected, the NO auto-drain is enclosed for the air filter and the NC auto-drain is enclosed for the oil mist filter.
For "FF" and "FF1", only the filter has a large discharge rate. The oil mist filter is normal NC auto-drain.

*6: Refer to page 108 for max. processing flow rate when option "Y" is selected.

*7: The pressure gauge's indication range is 0 to 0.4 MPa for the option "L".

*8: When option "T6" is selected, only "Blank" or "R2" can be selected for ➲Pressure gauge (included). The digital pressure sensor PPX mounting port (Rc1/8) is left open.

*9: Installation position for assembled components

Code	Attachment Install positions	Compatible model
D	F+M+(D)+R	C1030-W to C8030-W
S or P	F+M+R+(S,P)	C1030-W to C8030-W ("P" excludes 1000, 6000 and 8000 Series)
V or K	F+M+R+(V,K)	C1030-W to C4030-W ("V" excludes 6000 and 8000 Series and "K" excludes 1000 Series)

Note) Indicate "U"+"D", "S","P","V" and "K" when selecting an assembled component.
Use customized combination specifications sheet for any other combination.

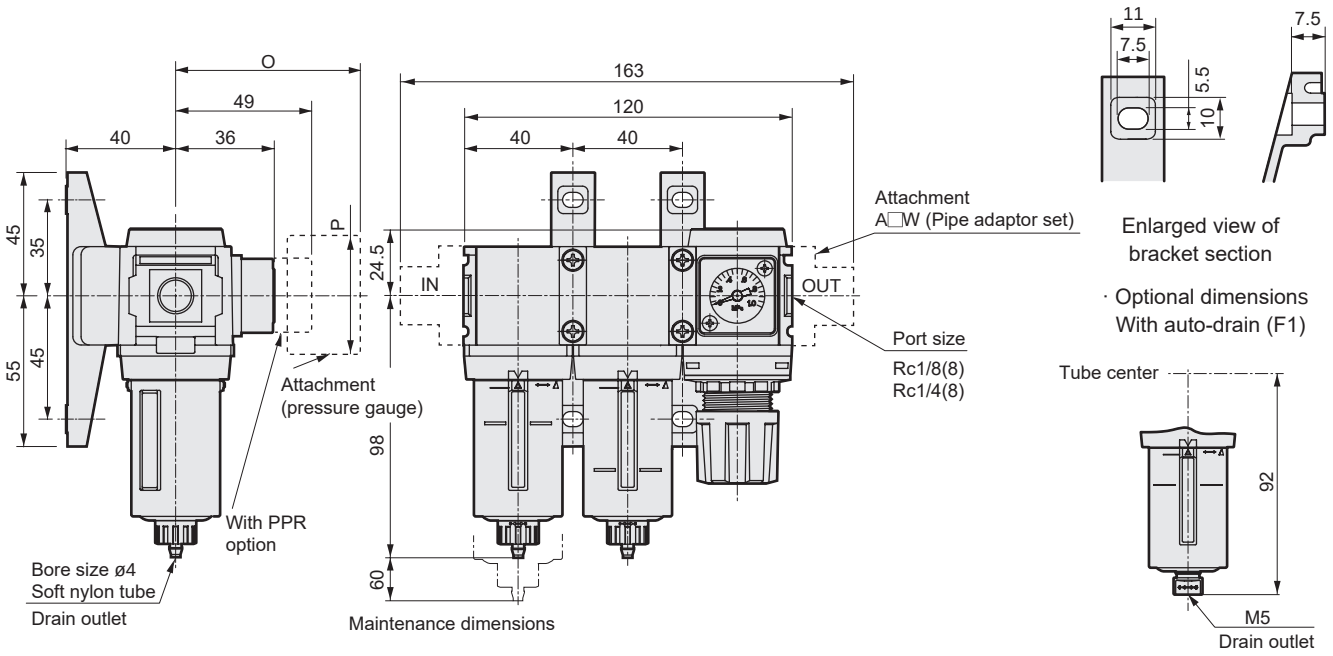
*10: The joiner set is enclosed with the pipe adaptor set.

*11: The pressure gauge option (included) can be selected only when Ⓒ Port thread is Rc thread.

*12: Display unit options when selecting NPT threads: If Blank is selected, the pressure unit is psi and the temperature display unit is °F.
When G thread and Blank display unit option are selected, the pressure unit will be bar and the temperature display unit will be °C.
When NPT/G thread and "J1" display unit option are selected, the pressure unit will be MPa and the temperature display unit will be °C.

Dimensions CAD

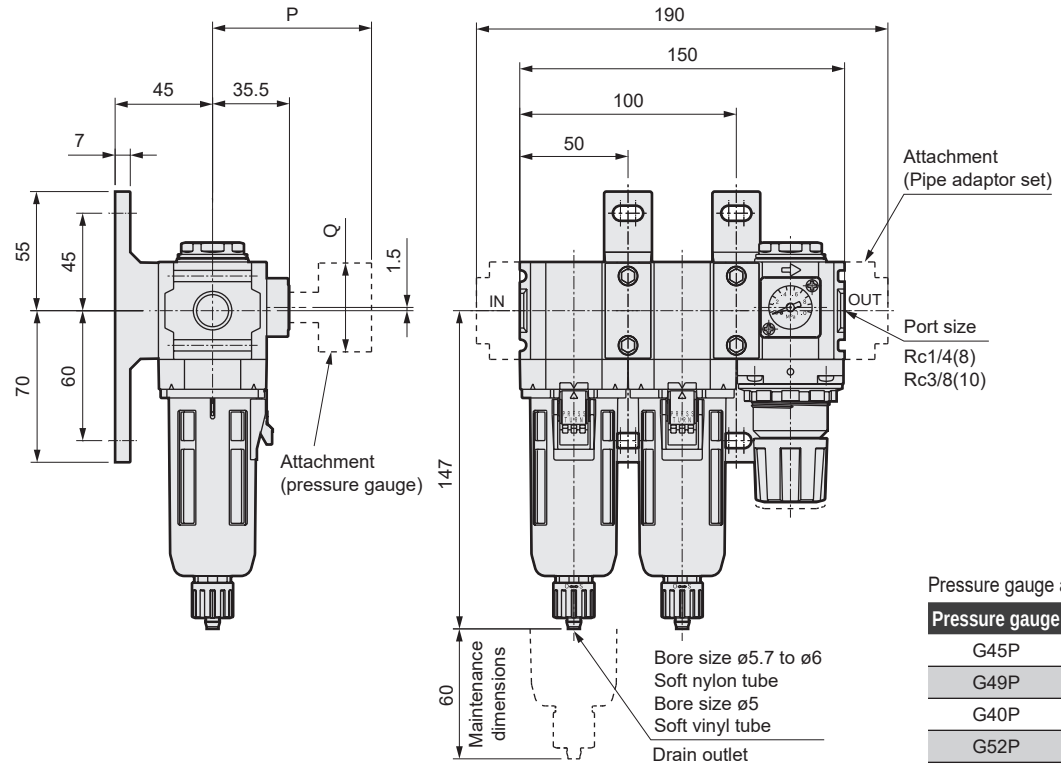
● C1030-W



Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(74)	ø39
G49P	(73.5)	ø43.5
G59P	(76)	ø52
G40P	(75.5)	ø42.5
G52P	(86)	ø52.5
R2	(74)	□30

● C2030-W

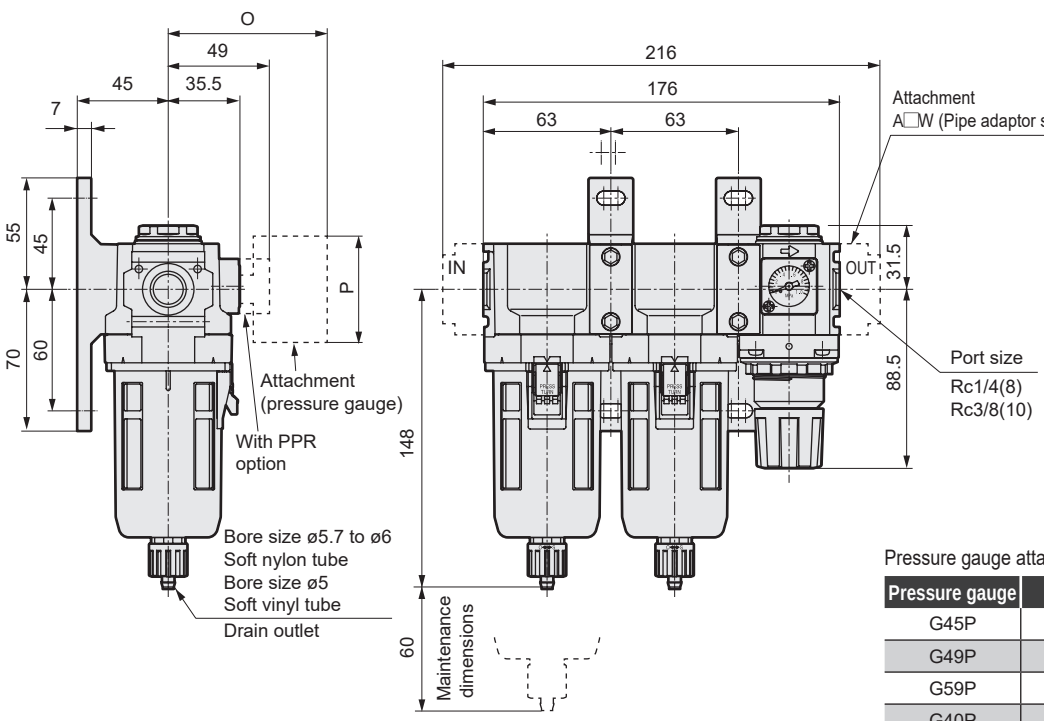


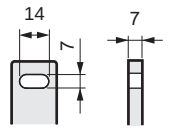
Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G40P	(75)	ø42.5
G52P	(85.5)	ø52.5
R2	(73)	□30

Dimensions

● C2530-W



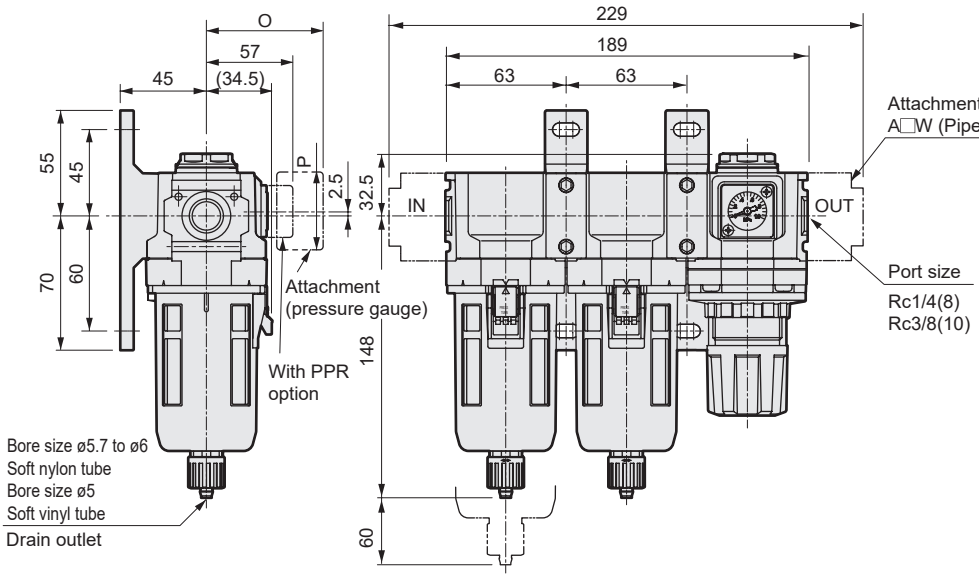


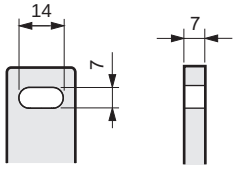
Dimensions of
bracket section

Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G59P	(75.5)	ø52
G40P	(75)	ø42.5
G52P	(85.5)	ø52.5
R2	(73)	□30

● C3030-W





Enlarged view of
bracket section

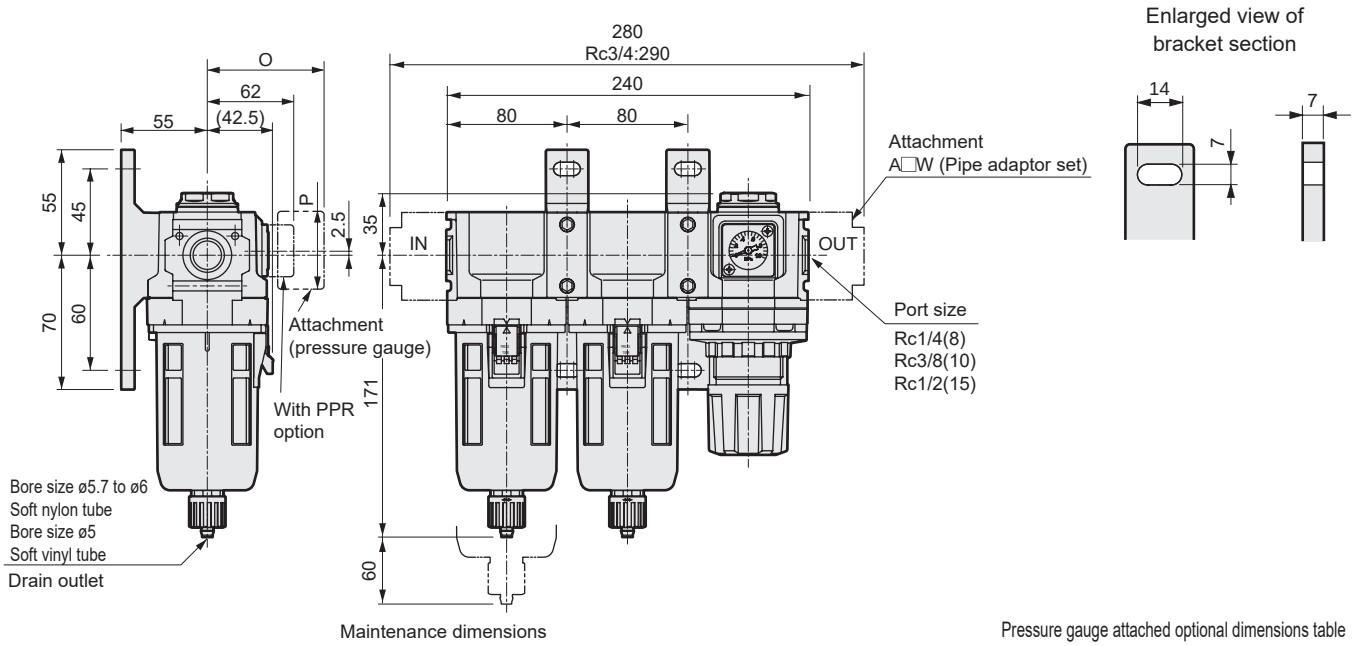
Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(70)	ø39
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G52P	(82)	ø52.5
R2	(69.5)	□30

● Refer to page 113 for the dimensions of the metal bowl option filter and page 124 for the oil mist filter.

Dimensions CAD

● C4030-W

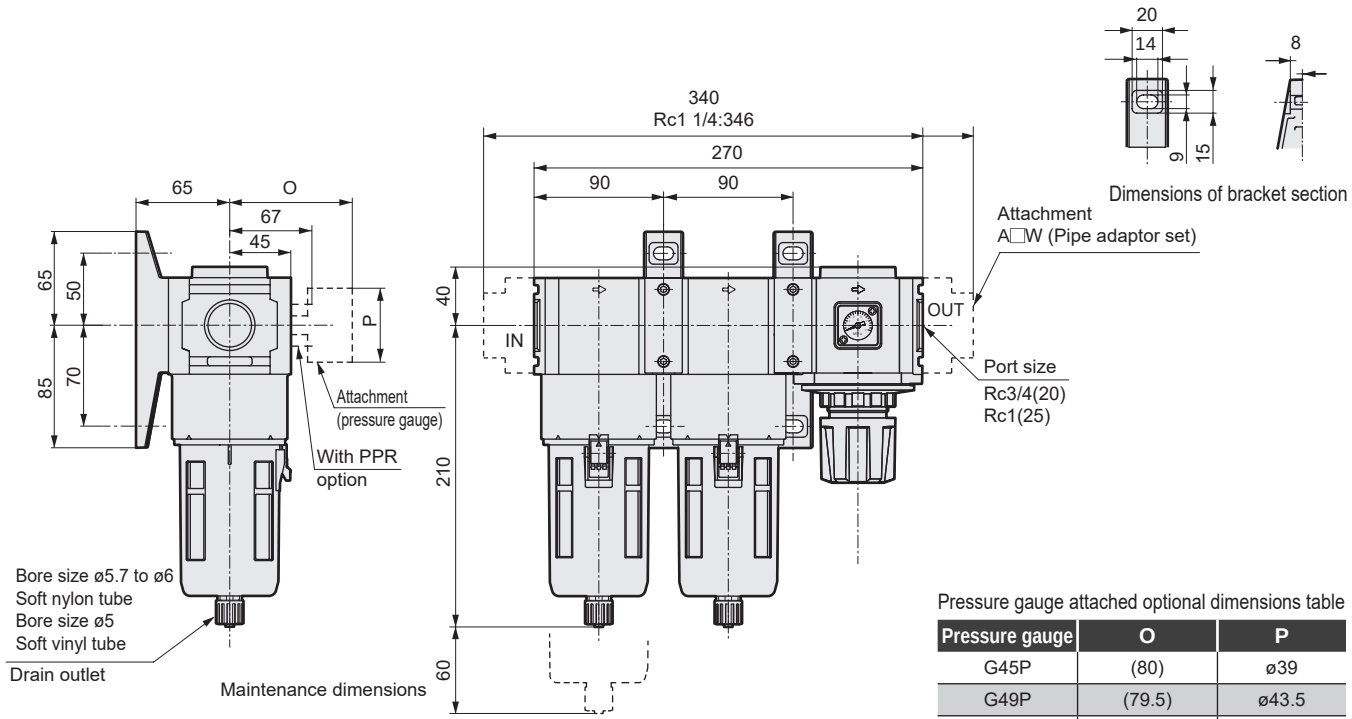


Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(75)	ø29
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G52P	(86)	ø52.5
R2	(75)	□30

● Refer to page 113 for the dimensions of the metal bowl option filter and page 124 for the oil mist filter.

● C6030-W

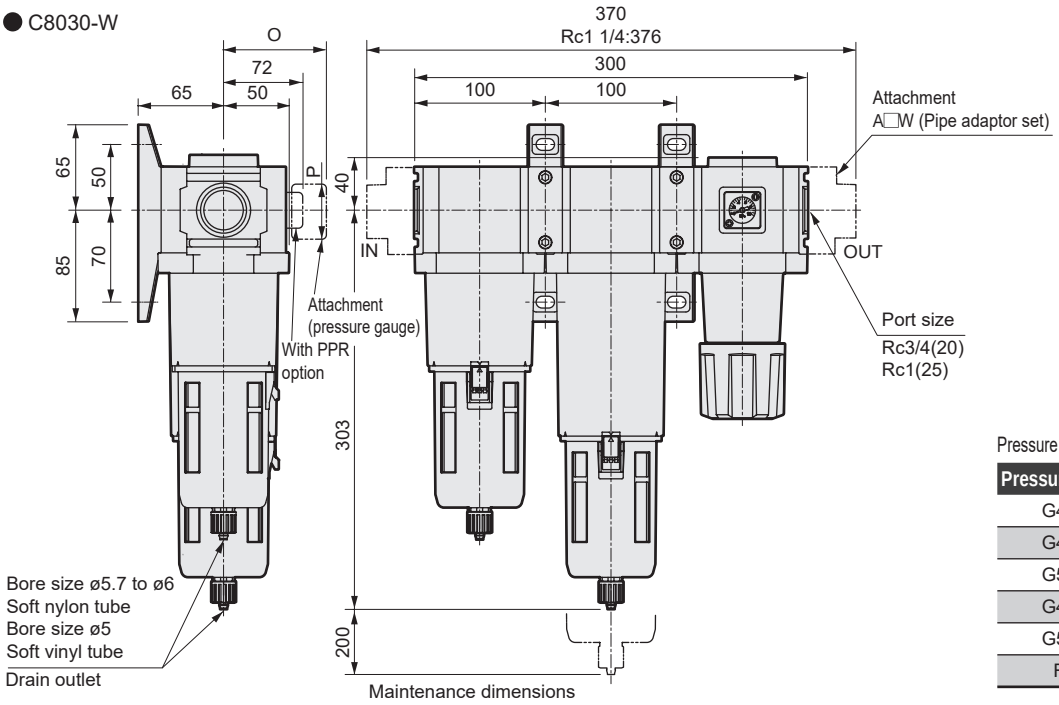


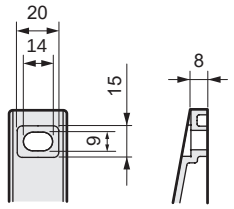
Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(80)	ø39
G49P	(79.5)	ø43.5
G59P	(82)	ø52
G40P	(81.5)	ø42.5
G52P	(93)	ø52.5
R2	(80)	□30

Dimensions

● C8030-W





Enlarged view of bracket section

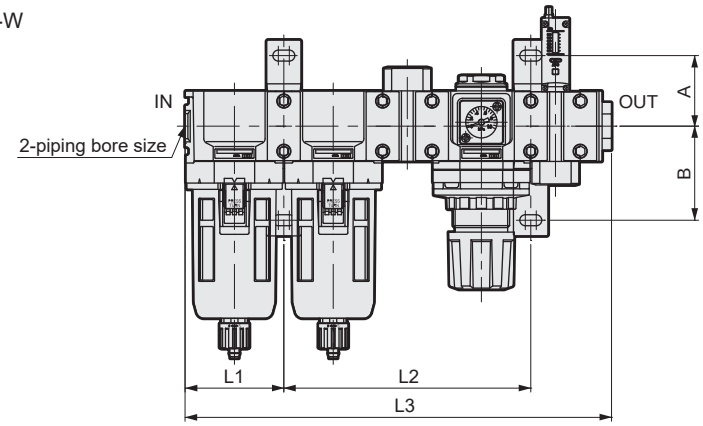
Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(85)	ø29
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G52P	(98)	ø52.5
R2	(85)	□30

● Refer to page 113 for the dimensions of the metal bowl option filter and page 124 for the oil mist filter.

Option assembly dimensions

● C1030-W to C8030-W



Model No.	A	B
C1030-W	35	45
C2030-W	45	60
C2530-W		
C3030-W		
C4030-W		
C6030-W	50	70
C8030-W		

Assembled option	D			S (*1)			P			V			K			DS (*1)			DP			DV			DK		
Model No.	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	-	-	-
C2030-W	50	81.5	181.5	50	100	201.5	50	100	230	50	100	213	50	100	213	50	131.5	233	50	131.5	261.5	50	131.5	244.5	50	131.5	244.5
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 *1	100	111.5	311.5	100	160	311.5	100	160	360	100	160	353	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		
Model No.	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	-	-	-	-	-	-	-	-	-
C2030-W	50	163	276	50	163	276	50	211.5	325	50	211.5	325	50	131.5	244.5	50	131.5	244.5	50	180	293	50	180	293
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 *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-bracket mounting hole
L2: Spacing dimensions of the mounting hole from the first T-bracket to the second T-bracket
L3: Dimensions from the IN edge to the OUT edge

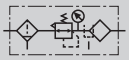
* Refer to page 346 for details on bracket mounting hole dimensions.
*1: The pipe adaptor is assembled on the OUT side.
As well, the pipe adaptor A400-20-W is assembled on both ends of C4030-20-W.

W.M. combination Standard White Series

C1040/C2040/C3040/C4040/C8040-W Series

Filter/regulator and oil mist filter integrated.

● Port size: 1/8 to 1

JIS symbol 

RoHS CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item		C1040-W	C2040-W	C3040-W	C4040-W	C8040-W
Appearance						
Comps	Filter/regulator	W1000-W	W2000-W	W3000-W	W4000-W	W8000-W
	Oil mist filter	M1000-W	M2000-W	M3000-W	M4000-W	M8000-W
Working fluid		Compressed air				
Max. working pressure MPa		1.0 (≈150 psi, 10 bar) *3				
Proof pressure MPa		1.5 (≈220 psi, 15 bar)				
Ambient / fluid temperatures °C		5 (41°F) to 60 (140°F)				*2
Set pressure MPa		0.1 to 0.85 *3	0.1 (≈15 psi, 1 bar) to 0.85 (≈120 psi, 8.5 bar) *5, *6			
Pressure relief		With relief mechanism				
Port size Rc,NPT,G		1/8, 1/4 (3/8 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)
Weight kg		0.31	0.74	0.97	1.52	3.52
Secondary oil concentration		0.01 mg/m^3 or less (0.1 mg/m^3 or less after oil saturation)				
Max. flow rate (*1) m^3/min		0.15	0.25	0.36	0.825	2.6

*1: Max. flow rate is for the regulator set pressure 0.7 MPa. Refer to page 108 for the max. flow rate of element option "Y".
*2: The ambient / fluid temperatures for "RN" or "RP" (pressure switch with display PPR is mounted) and "R2" (digital pressure sensor PPX is attached) is 5 to 50°C.
*3: When using C1040-W Series "F1" with auto-drain, the min. working pressure is 0.2 MPa and max. working pressure is 0.7 MPa. Refer to the max. working flow rate table (page 108) for F1000-W-F1 auto-drain for the max. working flow rate. Set the working flow rate to less than or equal to the max. working flow rate.
*4: Refer to page 116 for details on other oil mist filters.
*5: In the case of "F" with auto-drain, the supply air pressure is 0.2 MPa or more. The minimum set pressure is 0.15 MPa. The supply air pressure of the auto-drain of the filter regulator is 0.1 MPa. Air is purged with initial drain until pressure reaches 0.1 MPa.
*6: In the case of "F1" with auto-drain, the supply air pressure is 0.2 MPa or more. The minimum set pressure is 0.15 MPa.

Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge				Bowl material		Pressure gauge		Pipe adaptor set						
	F	F1	FF	FF1	M	M1	T*	RN/RP	A6*W	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W
C1040		0.014					0	0.04	0.09	0.09	0.09				
C2040		0.04				0.2	0	0.04		0.16	0.16	0.16			
C3040	0.04	0.04			0.2	0.2	0	0.04		0.16	0.16	0.16			
C4040	0.04	0.04			0.2	0.2	0	0.04		0.16	0.16	0.16	0.16		
C8040	0.04	0.04	0.04	0.04	0.2	0.2	0	0.04					0.53	0.53	0.53

Code	Assembled components				Pressure gauge					
	S	P	V	K	G45P	G49P	G59P	G40P	G52P	R2
C1040	0.15		0.18		0.074	0.086	0.115	0.085	0.15	0.04
C2040	0.23	0.54	0.29	0.34	0.074	0.086		0.085	0.15	0.04
C3040	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C4040	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C8040	0.51			0.34	0.074	0.086	0.115	0.085	0.15	0.04

How to order

C1040 - 6 ○ - W - F1 - U SV - ○ - A6W - ○

Ⓐ Model No.
Ⓑ Port size
Ⓒ Port thread
Ⓓ Option
Ⓔ Assembled components
Ⓕ Display unit *12
Ⓖ Pipe adaptor set (included)
Ⓗ Pressure gauge option (included)

* Refer to page 30 for the explanation of the option.

Code	Description	Ⓐ Model No. C1040	C2040	C3040	C4040	C8040
Ⓑ Port size						
6	1/8	●				
8	1/4	●	●	●	●	
10	3/8		●	●	●	
15	1/2				●	
20	3/4				●*1	●
25	1					●
Ⓒ Port thread						*2
Blank	Rc thread	●	●	●	●	●
N	NPT thread	●	●	●	●	●
G	G thread	●	●	●	●	●
Ⓓ Option						*3
Drain discharge *4, *5 — **Blank**	With manual drain cock	●	●	●	●	●
F	Auto-drain with manual override (NO: Exhaust when not pressurized)			●	●	●
F1	Auto-drain with manual override (NC: No exhaust when not pressurized)	●	●	●	●	●
FF	Large auto-drain with manual override (NO: Exhaust when not pressurized)					●
FF1	Large auto-drain with manual override (NC: No exhaust when not pressurized)					●
Bowl material — **Blank**	Polycarbonate bowl	●	●	●	●	●
Z	Nylon bowl	●	●	●	●	●
M	Metal bowl			●	●	●
M1	Metal bowl with manual drain cock		●	●	●	●
Element — **Blank**	5 µm	●	●	●	●	●
Y	0.3 µm (submicron) *6			●	●	●
Diff press detect — **Blank**	Without differential pressure detection port	●	●	●	●	●
Q	With differential pressure detection port (Rc 1/4)					●
Pressure range — **Blank**	0.1 to 0.85 MPa	●	●	●	●	●
L	0.1 to 0.35 MPa *7	●	●	●	●	●
Pressure relief — **Blank**	With relief mechanism	●	●	●	●	●
N	Non-relief	●	●	●	●	●
Pressure gauge — **Blank**	With standard pressure gauge (G401-W)	●	●	●	●	●
T	No pressure gauge (gauge port (1/4) is assembled sealed)	●	●	●	●	●
T8	Pressure gauge ready (gauge port (1/4) is left open)	●	●	●	●	●
T6	Digital pressure sensor PPX included option *8	●	●	●	●	●
RN	Pressure switch with display PPR mounted (NPN output 1 point)	●		●	●	●
RP	Pressure switch with display PPR mounted (PNP output 1 point)	●		●	●	●
Flow direction — **Blank**	Standard flow (left → right)	●	●	●	●	●
X1	Reverse flow (right → left)	●	●	●	●	●
Ⓔ Assembled components		Pages 166 to 171, 182 to 187, 348 and 349				
Blank	Without assembled component	●	●	●	●	●
U	Assembled component *9	●	●	●	●	●
Assembled component — **S**	Pressure switch (P1100-W, 4100-W, 8100-W)	●	●	●	●	●
P	Pressure switch (P4000-W)		●	●	●	
V	Residual pressure exhaust valve (V1000-W, 3000-W)	●	●	●	●	
K	Residual pressure exhaust valve with keyhole (V3010-W, V6010-W)		●	●	●	●
Ⓕ Display unit						
Blank	MPa display (Rc thread), psi display (NPT thread), bar display (G thread)	●	●	●	●	●
J1	MPa display (NPT, G thread)	●	●	●	●	●
Ⓖ Pipe adaptor set (included)		Page 350 *10				
Blank	Not included	●	●	●	●	●
A6*W	1/8 pipe adaptor set	●				
A8*W	1/4 pipe adaptor set	●	●	●	●	
A10*W	3/8 pipe adaptor set	●	●	●	●	
A15*W	1/2 pipe adaptor set		●	●	●	
A20*W	3/4 pipe adaptor set				●	●
A25*W	1 pipe adaptor set					●
A32*W	1 1/4 pipe adaptor set					●
*** Adaptor thread**						
Blank	Rc thread	●	●	●	●	●
N	NPT thread	●	●	●	●	●
G	G thread	●	●	●	●	●
Ⓗ Pressure gauge option (included)		Page 363 *11				
Blank	Not included	●	●	●	●	●
G45P	G45D-8-P10(L:G45D-8-P04)	●	●	●	●	●
G49P	G49D-8-P10(L:G49D-8-P04)	●	●	●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)	●		●	●	●
G40P	G40D-8-P10(L:G40D-8-P04)	●	●	●	●	●
G52P	G52D-8-P10(L:G52D-8-P10)	●	●	●	●	●
R2 *8	Digital pressure sensor: PPX-R10N-6M	●	●	●	●	●

Precautions for model No. selection

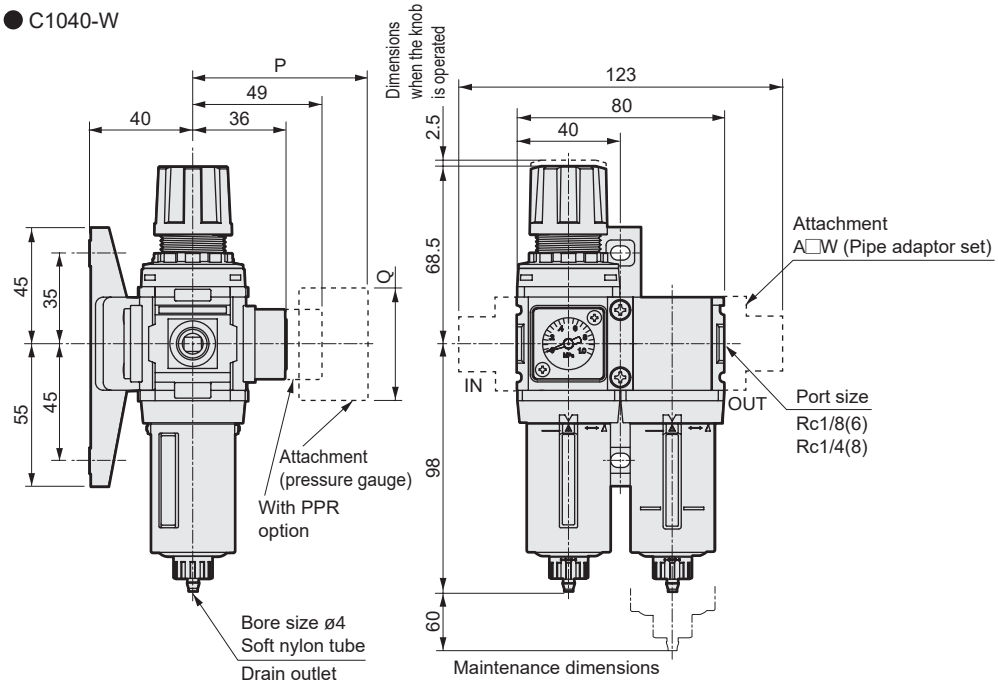
1: Pipe adaptor A400-20-W is assembled on both ends of C4040-20*-W. A20*W does not need to be selected for the pipe adaptor set.
*2: G threads and NPT threads are available for IN, OUT, gauge port and drain outlet (metal bowl with auto-drain). Attachments P and V are also included.
*3: Select options for the drainage, bowl material, element, differential pressure detection and regulator. When selecting options for several items, list options in order from the top.
*4: Refer to page 354 for the auto-drain usage conditions.
*5: When option code "F" is selected, the NO auto-drain is included with the filter/regulator and the NC auto-drain is included with the oil mist filter. When option code "F1" is selected, the NC auto-drain is included with the filter/regulator oil mist filter. For "FF" and "FF1", only the filter/regulator has a large discharge rate. The oil mist filter is normal NC auto-drain.
*6: Refer to page 108 for max. processing flow rate when option "Y" is selected.
*7: The pressure gauge's indication range is 0 to 0.4 MPa for the option "L".
*8: When option "T6" is selected, only "Blank" or "R2" can be selected for Ⓗ Pressure gauge (included). The digital pressure sensor PPX mounting port (Rc1/8) is left open.
*9: Installation position for assembled components

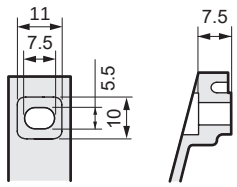
Code	Attachment Install positions	Compatible model
S or P	W+(S,P)+M	C1040-W to C8040-W ("P" excludes 1000 and 8000 Series)
V or K	W+M+(V,K)	C1040-W to C8040-W ("V" excludes 8000 Series and "K" excludes 1000 Series)

Note) Indicate "U"+"S", "P","V" and "K" when selecting an assembled component.
Use customized combination specifications sheet for any other combination.
*10: The joiner set is enclosed with the pipe adaptor set.
*11: The pressure gauge option (included) can be selected only when Ⓒ Port thread is Rc thread.
*12: Display unit options when selecting NPT threads: If Blank is selected, the pressure unit is psi and the temperature display unit is °F.
When G thread and Blank display unit option are selected, the pressure unit will be bar and the temperature display unit will be °C.
When NPT/G thread and "J1" display unit option are selected, the pressure unit will be MPa and the temperature display unit will be °C.

Dimensions CAD

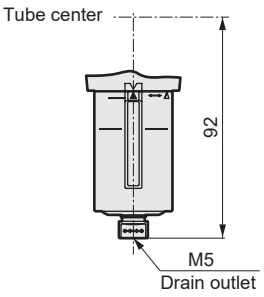
● C1040-W





Enlarged view of bracket section

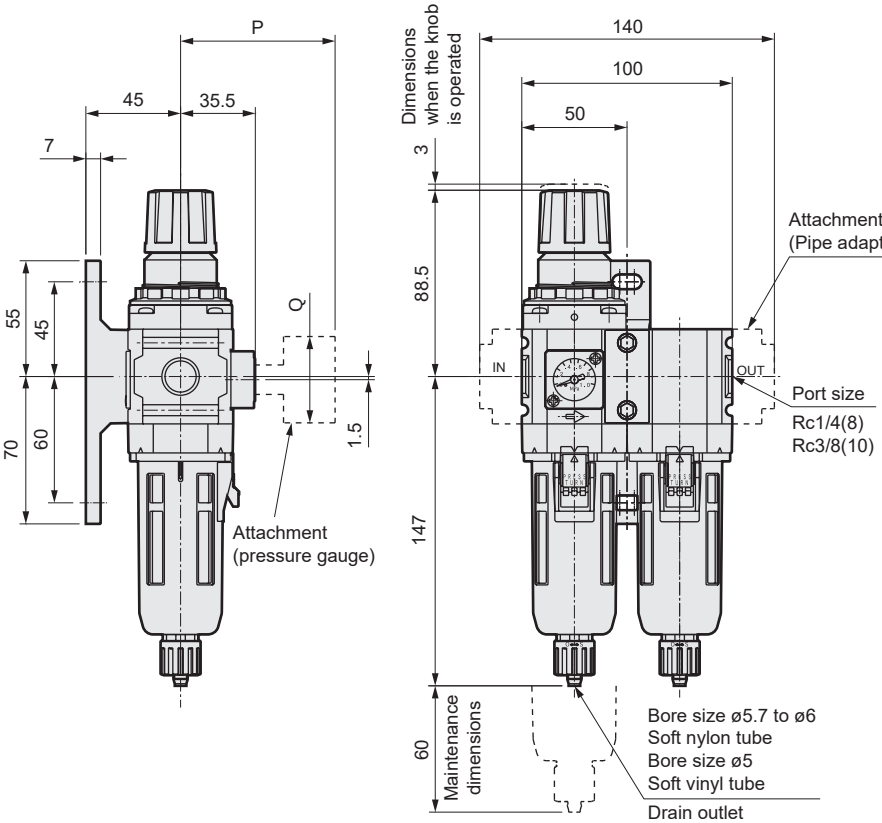
· Optional dimensions
With auto-drain (F1)



Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(74)	ø39
G49P	(73.5)	ø43.5
G59P	(76)	ø52
G40P	(75.5)	ø42.5
G52P	(86)	ø52.5
R2	(74)	□30

● C2040-W

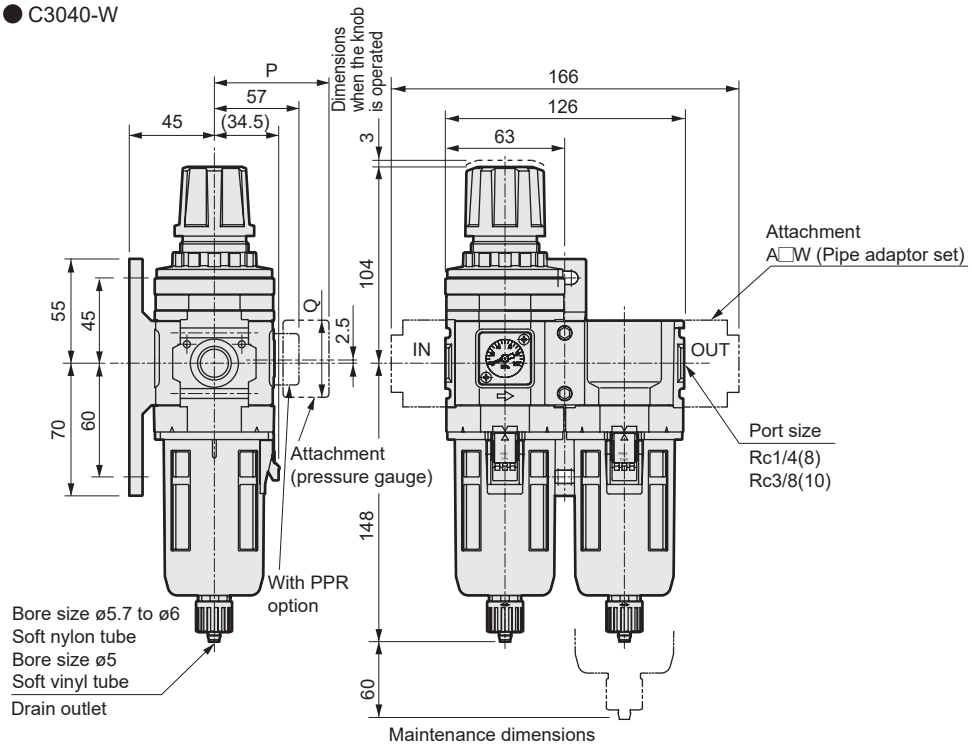


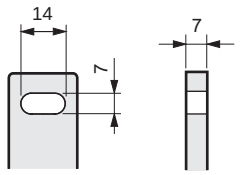
Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G40P	(75)	ø42.5
G52P	(85.5)	ø52.5
R2	(73)	□30

Dimensions CAD

● C3040-W





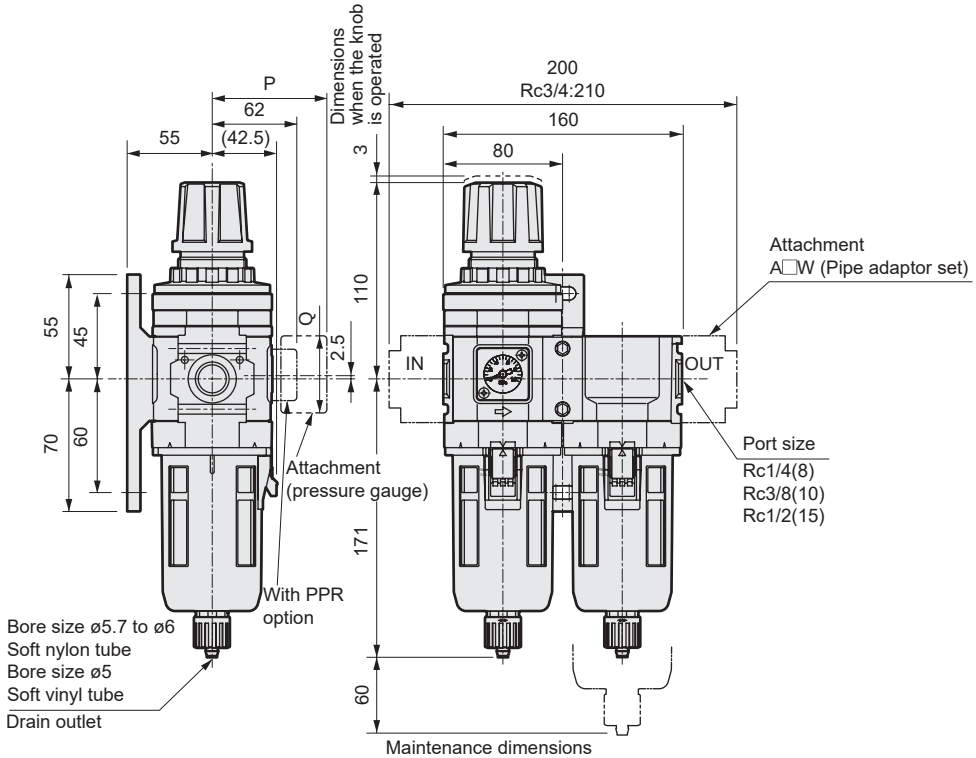
Enlarged view of bracket section

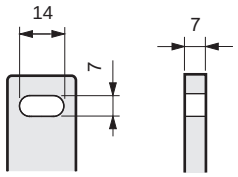
Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(70)	ø39
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G52P	(82)	ø52.5
R2	(69.5)	□30

● Refer to page 96 for the dimensions of the metal bowl option filter/ regulator and page 124 for the oil mist filter.

● C4040-W





Enlarged view of bracket section

Pressure gauge attached optional dimensions table

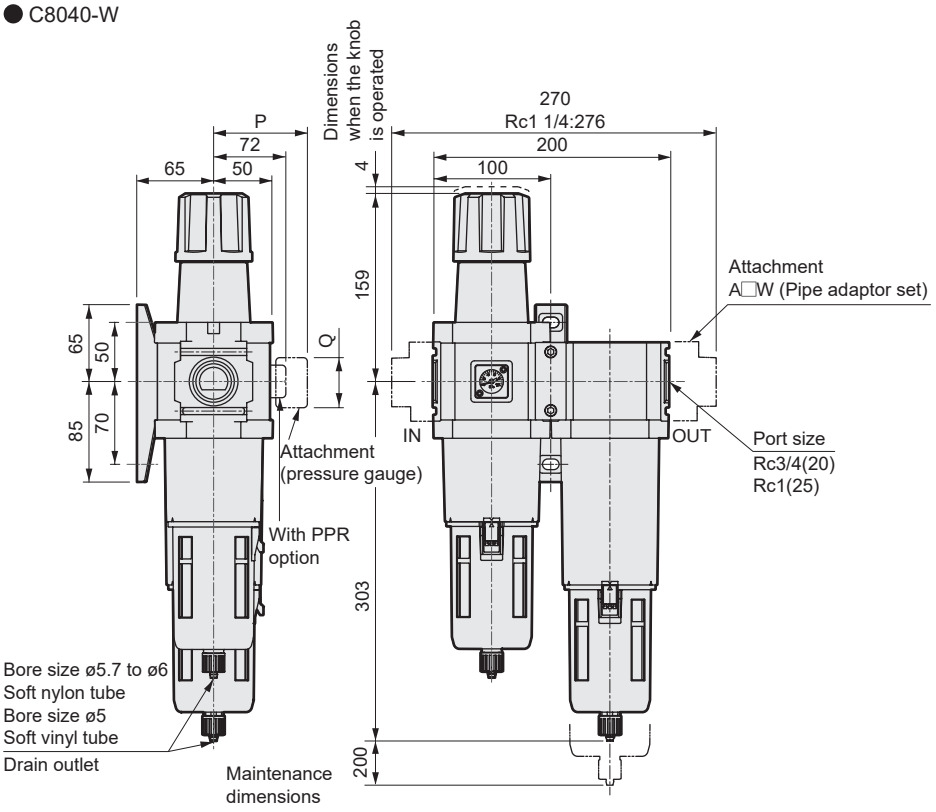
Pressure gauge	P	Q
G45P	(75)	ø39
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G52P	(86)	ø52.5
R2	(75)	□30

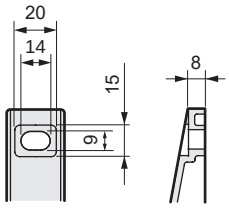
● Refer to page 96 for the dimensions of the metal bowl option filter/ regulator and page 124 for the oil mist filter.

W.M. Combination

Dimensions CAD

● C8040-W





Enlarged view of bracket section

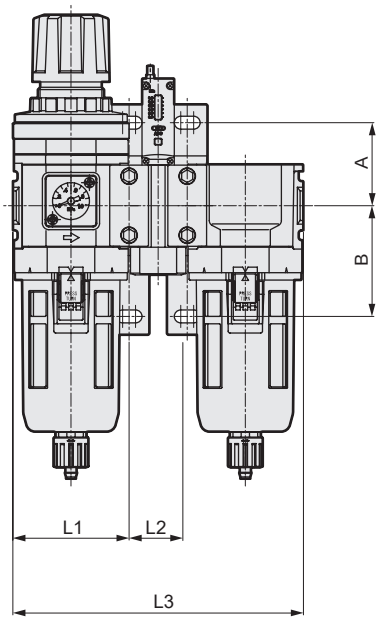
● Refer to page 96 for the dimensions of the metal bowl option filter/ regulator and page 124 for the oil mist filter.

Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(85)	ø39
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G52P	(98)	ø52.5
R2	(85)	□30

Option assembly dimensions

● C1040-W to C8040-W

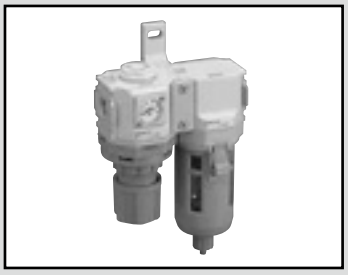


Model No.	A	B
C1040-W	35	45
C2040-W	45	60
C3040-W		
C4040-W		
C8040-W	50	70

Assembled option	S			P			V			K			SV			SK			PV			PK		
Model No.	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	-	-	-	-	-	-	-	-	-
C2040-W	50	31.5	131.5	50	80	180	50	63	163	50	63	163	50	81.5	194.5	50	81.5	194.5	50	130	243	50	130	243
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 *1	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-bracket mounting hole
L2: Spacing dimensions of the mounting hole from the first T-bracket to the second T-bracket
L3: Dimensions from the IN edge to the OUT edge

* Refer to page 346 for details on bracket mounting hole dimensions.
*1: The pipe adaptor is assembled on the OUT side.
As well, the pipe adaptor A400-20-W is assembled on both ends of C4040-20-W.



R.M. combination Standard White Series

C1050/C2050/C2550 C3050/C4050/C6050/C8050-W Series

Integrated regulator and oil mist filter

● Port size: 1/8 to 1

JIS symbol

RoHS CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item		C1050-W	C2050-W	C2550-W	C3050-W	C4050-W	C6050-W	C8050-W
Appearance								
Comps	Regulator	R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
	Oil mist filter	M1000-W	M2000-W	M3000-W	M3000-W	M4000-W	M6000-W	M8000-W
Working fluid		Compressed air						
Max. working pressure MPa		1.0 (≈150 psi, 10 bar) *3						
Proof pressure MPa		1.5 (≈220 psi, 15 bar)						
Ambient / fluid temperatures °C		5 (41°F) to 60 (140°F) *2						
Set pressure MPa		0.1 to 0.85 *3	0.1 (≈15 psi, 1 bar) to 0.85 (≈120 psi, 8.5 bar) *4					
Pressure relief		With relief mechanism						
Port size Rc,NPT,G		1/8,1/4 (3/8 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8,1/2 (3/4 uses an adaptor)	3/4,1 (1 1/4 uses an adaptor)	3/4,1 (1 1/4 uses an adaptor)
Weight kg		0.29	0.65	0.66	0.82	1.32	2.12	3.12
Secondary oil concentration		0.01 mg/m^3 or less (0.1 mg/m^3 or less after oil saturation)						
Max. flow rate (*1) m^3/min		0.15	0.25	0.36	0.36	0.825	1.27	2.6

*1: Max. flow rate is for the regulator set pressure 0.7 MPa.

*2: The ambient / fluid temperatures for “RN” or “RP” (pressure switch with display PPR is mounted) and “R2” (digital pressure sensor PPX is attached) is 5 to 50°C.

*3: When using C1050-W Series “F1” with auto-drain, the min. working pressure is 0.2 MPa and max. working pressure is 0.7 MPa. Refer to the max. working flow rate table (page 119) for M1000-W-F1 auto-drain for the max. working flow rate. Set the working flow rate to less than or equal to the max. working flow rate.

*4: The supply air pressure is 0.2 MPa and over with a min. set pressure of 0.15 MPa.

*5: Refer to page 116 for details on other oil mist filters.

Option weight

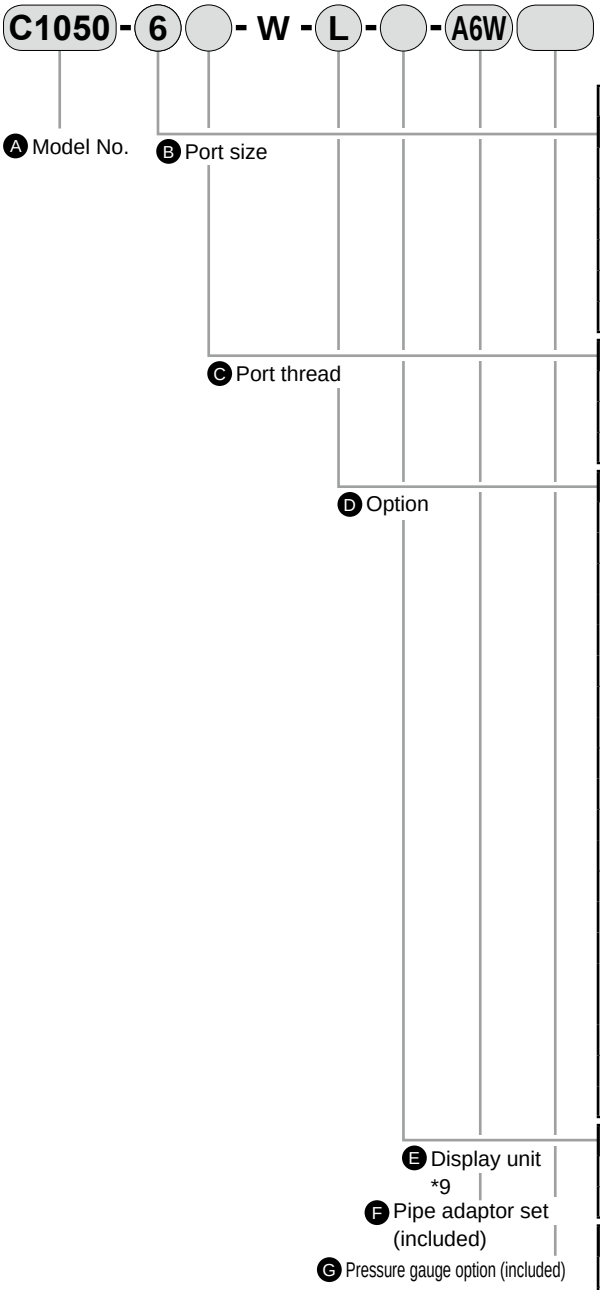
* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge				Bowl material		Pressure gauge		Pipe adaptor set			
	F	F1	FF	FF1	M	M1	T*	RN/RP	A6*W	A8*W	A10*W	A15*W
C1050		0.007					0	0.04	0.09	0.09	0.09	
C2050		0.02				0.1	0	0.04		0.16	0.16	0.16
C2550		0.02			0.1	0.1	0	0.04		0.16	0.16	0.16
C3050	0.02	0.02			0.1	0.1	0	0.04		0.16	0.16	0.16
C4050	0.02	0.02			0.1	0.1	0	0.04		0.16	0.16	0.16
C6050	0.02	0.02			0.1	0.1	0	0.04				
C8050	0.02	0.02	0.02	0.02	0.1	0.1	0	0.04				

Code	Pipe adaptor set			Pressure gauge					
	A20*W	A25*W	A32*W	G45P	G49P	G59P	G40P	G52P	R2
C1050				0.074	0.086	0.115	0.085	0.15	0.04
C2050				0.074	0.086		0.085	0.15	0.04
C2550				0.074	0.086	0.115	0.085	0.15	0.04
C3050				0.074	0.086	0.115	0.085	0.15	0.04
C4050	0.16			0.074	0.086	0.115	0.085	0.15	0.04
C6050	0.53	0.53	0.53	0.074	0.086	0.115	0.085	0.15	0.04
C8050	0.53	0.53	0.53	0.074	0.086	0.115	0.085	0.15	0.04

How to order



* Refer to page 30 for the explanation of the option.

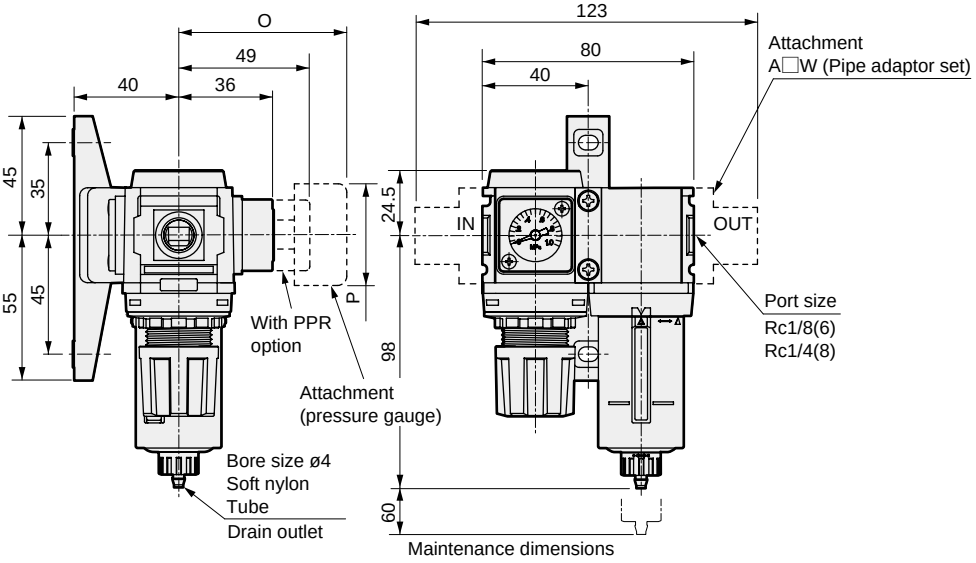
Code		Description	Ⓐ Model No. C1050	C2050	C2550	C3050	C4050	C6050	C8050
Ⓑ Port size									
6		1/8	●						
8		1/4	●	●	●	●	●		
10		3/8		●	●	●	●		
15		1/2					●		
20		3/4					●*1	●	●
25		1						●	●
Ⓒ Port thread									***2**
Blank		Rc thread	●	●	●	●	●	●	●
N		NPT thread	●	●	●	●	●	●	●
G		G thread	●	●	●	●	●	●	●
Ⓓ Option									***3**
Drain discharge *4	**Blank**	Filter with manual drain cock	●	●	●	●	●	●	●
	F1	Auto-drain, man OVRD (NC: no press→no exhaust)	●	●	●	●	●	●	●
Bowl material	**Blank**	Polycarbonate bowl	●	●	●	●	●	●	●
	Z	Nylon bowl	●	●	●	●	●	●	●
	M	Metal bowl			●	●	●	●	●
	M1	Metal bowl with manual drain cock		●	●	●	●	●	●
Diff press detect	**Blank**	Without differential pressure detection port	●	●	●	●	●	●	●
	Q	With differential pressure detection port (Rc 1/4)						●	●
Pressure range	**Blank**	0.1 to 0.85 MPa	●	●	●	●	●	●	●
	L	0.1 to 0.35 MPa *5	●	●	●	●	●	●	●
Pressure relief	**Blank**	With relief mechanism	●	●	●	●	●	●	●
	N	Non-relief	●	●	●	●	●	●	●
Pressure gauge	**Blank**	With standard pressure gauge (G401-W)	●	●	●	●	●	●	●
	T	No pressure gauge (gauge port (1/4) is assembled sealed)	●	●	●	●	●	●	●
	T8	Pressure gauge ready (gauge port (1/4) is left open)	●	●	●	●	●	●	●
	T6	Digital pressure sensor PPX included option *6	●	●	●	●	●	●	●
	RN	Pressure switch with display PPR mounted (NPN output 1 point)	●		●	●	●	●	●
	RP	Pressure switch with display PPR mounted (PNP output 1 point)	●		●	●	●	●	●
Flow direction	**Blank**	Standard flow (left → right)	●	●	●	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●	●	●	●
Ⓔ Display unit									
Blank		MPa display (Rc thread), psi display (NPT thread), bar display (G thread)	●	●	●	●	●	●	●
J1		MPa display (NPT, G thread)	●	●	●	●	●	●	●
Ⓕ Pipe adaptor set (included)									**Page 350 *7**
Blank		Not included	●	●	●	●	●	●	●
A6*W		1/8 pipe adaptor set	●						
A8*W		1/4 pipe adaptor set	●	●	●	●	●		
A10*W		3/8 pipe adaptor set	●	●	●	●	●		
A15*W		1/2 pipe adaptor set		●	●	●	●		
A20*W		3/4 pipe adaptor set					●	●	●
A25*W		1 pipe adaptor set						●	●
A32*W		1 1/4 pipe adaptor set						●	●
*** Adaptor thread**									
Blank		Rc thread	●	●	●	●	●	●	●
N		NPT thread	●	●	●	●	●	●	●
G		G thread	●	●	●	●	●	●	●
Ⓖ Pressure gauge option (included)									**Page 363 *8**
Blank		Not included	●	●	●	●	●	●	●
G45P		G45D-8-P10(L:G45D-8-P04)	●	●	●	●	●	●	●
G49P		G49D-8-P10(L:G49D-8-P04)	●	●	●	●	●	●	●
G59P		G59D-8-P10(L:G59D-8-P04)	●		●	●	●	●	●
G40P		G40D-8-P10(L:G40D-8-P04)	●	●	●	●	●	●	●
G52P		G52D-8-P10(L:G52D-8-P10)	●	●	●	●	●	●	●
R2 *6		Digital pressure sensor: PPX-R10N-6M	●	●	●	●	●	●	●

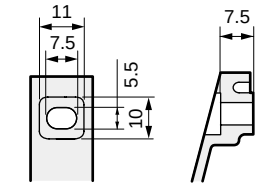
⚠ Precautions for model No. selection

1: Pipe adaptor A400-20-W is assembled on both ends of C4050-20*-W. A20*W does not need to be selected for the pipe adaptor set.
*2: G threads and NPT threads are available for IN, OUT, gauge port and drain outlet (metal bowl with auto-drain).
*3: Select options for the drainage, bowl material, element, differential pressure detection and regulator. When selecting options for several items, list options in order from the top.
*4: Refer to page 354 for the auto-drain usage conditions.
*5: The pressure gauge indication range of option "L" is 0 to 0.4 MPa.
*6: When option "T6" is selected, only "Blank" or "R2" can be selected for ⓗPressure gauge (included). The digital pressure sensor PPX mounting port (Rc1/8) is left open.
*7: The joiner set is enclosed with the pipe adaptor set.
*8: The pressure gauge option (included) can be selected only when Ⓒ Port thread is Rc thread.
*9: Display unit options when selecting NPT threads: If Blank is selected, the pressure unit is psi and the temperature display unit is °F.
When G thread and Blank display unit option are selected, the pressure unit will be bar and the temperature display unit will be °C.
When NPT/G thread and "J1" display unit option are selected, the pressure unit will be MPa and the temperature display unit will be °C.

Dimensions CAD

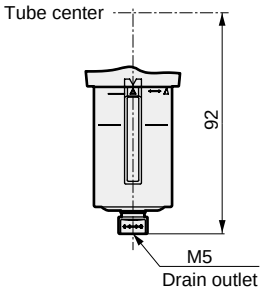
● C1050-W





Enlarged view of bracket section

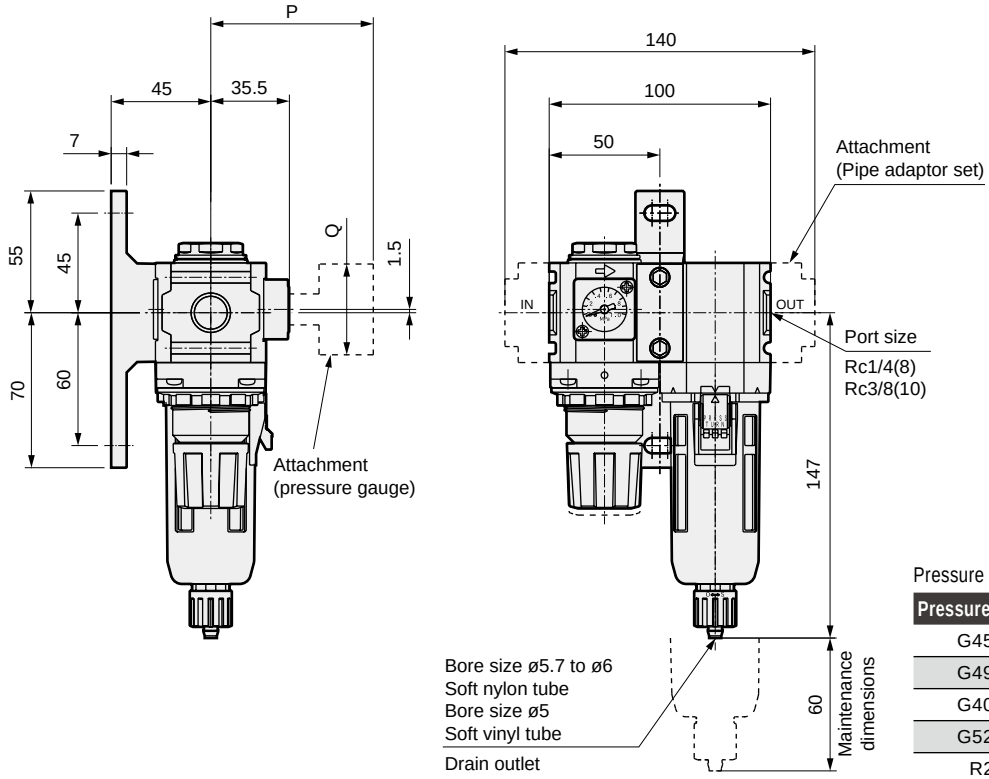
· Optional dimensions
With auto-drain (F1)



Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(74)	ø39
G49P	(73.5)	ø43.5
G59P	(76)	ø52
G40P	(75.5)	ø42.5
G52P	(86)	ø52.5
R2	(74)	□30

● C2050-W

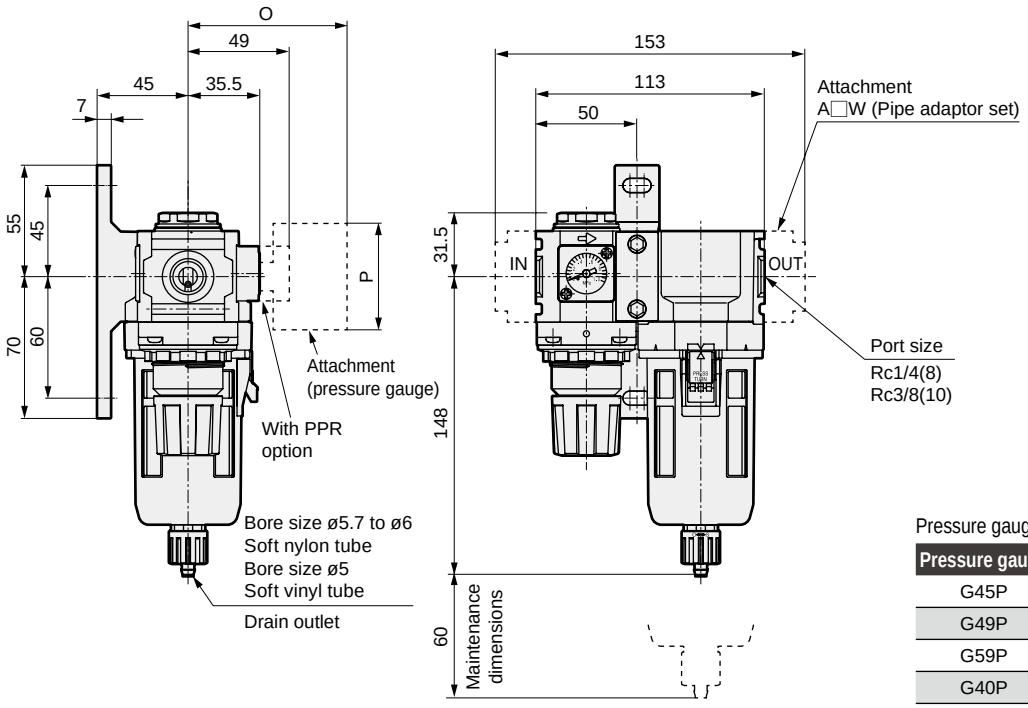


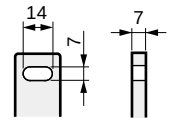
Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G40P	(75)	ø42.5
G52P	(85.5)	ø52.5
R2	(73)	□30

Dimensions CAD

● C2550-W



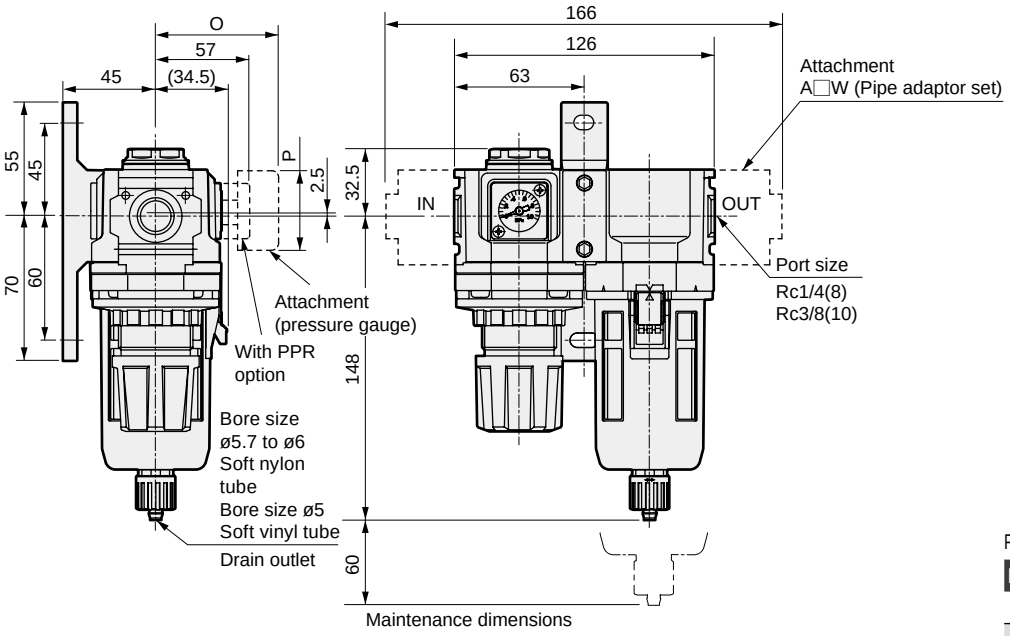


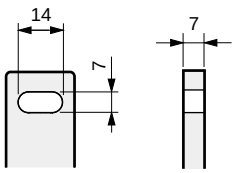
Dimensions of
bracket section

Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G59P	(75.5)	ø52
G40P	(75)	ø42.5
G52P	(85.5)	ø52.5
R2	(73)	□30

● C3050-W





Enlarged view of
bracket section

Pressure gauge attached optional dimensions table

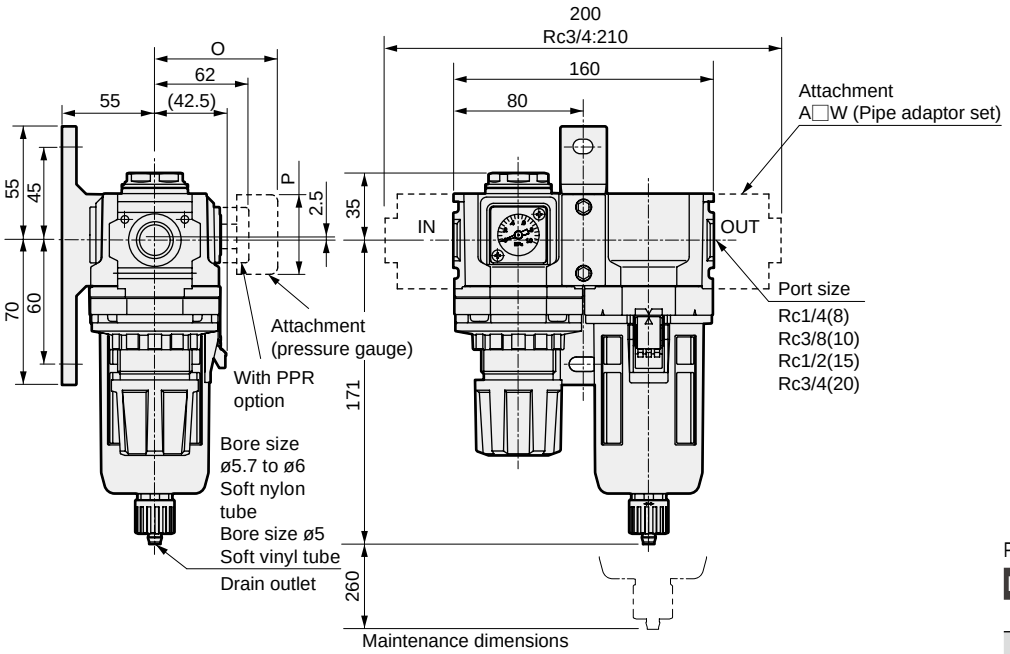
Pressure gauge	O	P
G45P	(70)	ø39
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G52P	(82)	ø52.5
R2	(69.5)	□30

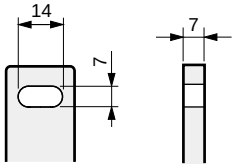
● Refer to page 124 for the optional dimensions of the metal bowl.

R.M. Combination

Dimensions CAD

● C4050-W





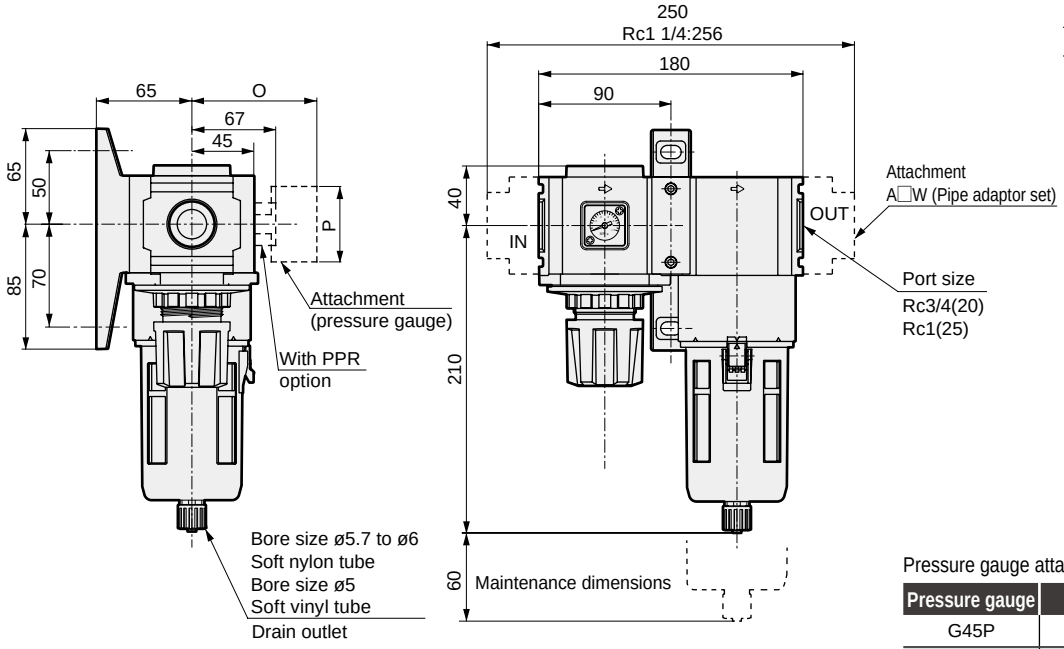
Enlarged view of bracket section

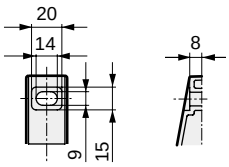
Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(75)	ø39
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G52P	(86)	ø52.5
R2	(75)	□30

● Refer to page 124 for the optional dimensions of the metal bowl.

● C6050-W





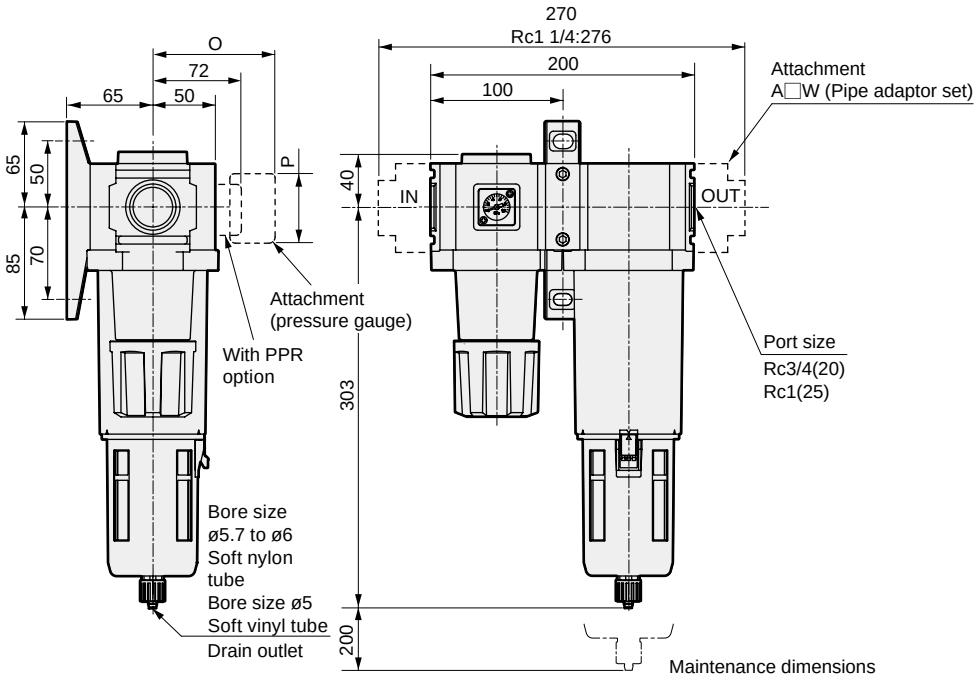
Enlarged view of bracket section

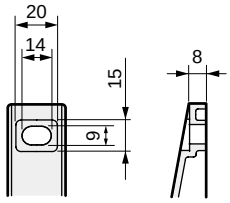
Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(80)	ø39
G49P	(79.5)	ø43.5
G59P	(82)	ø52
G40P	(81.5)	ø42.5
G52P	(93)	ø52.5
R2	(80)	□30

Dimensions

● C8050-W



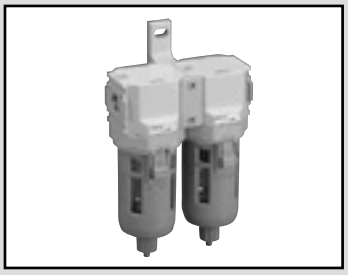


Enlarged view of bracket section

Pressure gauge attached optional dimensions table

Pressure gauge	O	P
G45P	(85)	ø39
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G52P	(98)	ø52.5
R2	(85)	□30

● Refer to page 124 for the optional dimensions of the metal bowl.



F.M. combination Standard White Series

C1060/C2060/C3060/ C4060/C6060/C8060-W Series

Filter and oil mist filter integrated.

● Port size: 1/8 to 1

JIS symbol

RoHS CAD

Specifications

Item		C1060-W	C2060-W	C3060-W	C4060-W	C6060-W	C8060-W
Appearance							
Comps	Filter	F1000-W	F2000-W	F3000-W	F4000-W	F6000-W	F8000-W
	Oil mist filter	M1000-W	M2000-W	M3000-W	M4000-W	M6000-W	M8000-W
Working fluid		Compressed air					
Max. working pressure MPa		1.0 (≈150 psi, 10 bar) *3, 4, 5					
Proof pressure MPa		1.5 (≈220 psi, 15 bar) *3					
Ambient / fluid temperatures °C		5 (41°F) to 60 (140°F)					
Port size Rc,NPT,G		1/8, 1/4 (3/8 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)
Weight kg		0.22	0.58	0.62	1.06	2.02	2.68
Secondary oil concentration		0.01 mg/m^3 or less (0.1 mg/m^3 or less after oil saturation)					
Max. flow rate (*1, *2) m^3/min		0.15 *3	0.25	0.36	0.825	1.27	2.6

*1: The max. flow is for a primary pressure of 0.7 MPa.

*2: When element option "Y" is selected, refer to page 108 for max. flow rate. The working flow must be less than the max. working flow.

*3: When "F1" with auto-drain is selected, the NC auto-drain is provided with both the filter and oil mist filter. The min. working pressure is 0.2 MPa, the max. working pressure is 0.7 MPa and the proof pressure is 1.05 MPa. For the max. working flow rate, refer to the max. working processing flow rate table of M1000-W-F1 with auto-drain (page 119). The working flow must be less than the max. working flow.

*4: In the case of "F" with auto-drain, the supply air pressure is 0.15 MPa or more. For the air filter auto-drain, air is purged with the initial drainage until pressure reaches 0.1 MPa.

*5: In the case of "F1" with auto-drain, the required supply air pressure is 0.15 MPa or more.

*6: Refer to page 116 for details on other oil mist filters.

Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge				Bowl material		Pipe adaptor set						
	F	F1	FF	FF1	M	M1	A6*W	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W
C1060		0.014					0.09	0.09	0.09				
C2060		0.04				0.2		0.16	0.16	0.16			
C3060	0.04	0.04			0.2	0.2		0.16	0.16	0.16			
C4060	0.04	0.04			0.2	0.2		0.16	0.16	0.16			
C6060	0.04	0.04			0.2	0.2					0.53	0.53	0.53
C8060	0.04	0.04	0.04	0.04	0.2	0.2					0.53	0.53	0.53

How to order

C1060 - 6 ○ - W - Z - ○ - A6W

- Ⓐ Model No.
- Ⓑ Port size
- Ⓒ Port thread
- Ⓓ Option
- Ⓔ Display unit
- Ⓕ Pipe adaptor set (included)

* Refer to page 30 for the explanation of the option.

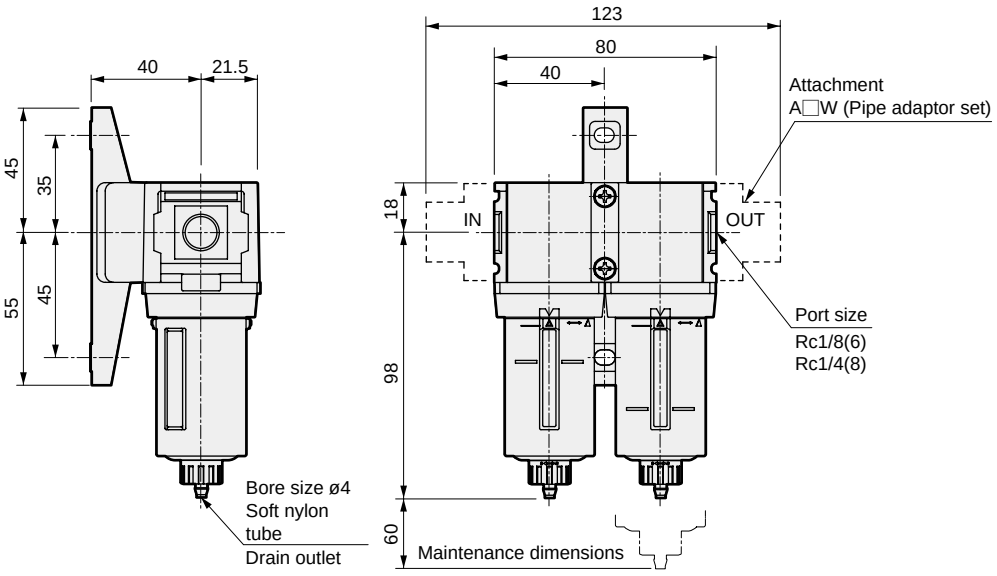
Code		Description	Ⓐ Model No. C1060	C2060	C3060	C4060	C6060	C8060
Ⓑ Port size								
6		1/8	●					
8		1/4	●	●	●	●		
10		3/8		●	●	●		
15		1/2				●		
20		3/4				●*1	●	●
25		1					●	●
Ⓒ Port thread								*2
Blank		Rc thread	●	●	●	●	●	●
N		NPT thread	●	●	●	●	●	●
G		G thread	●	●	●	●	●	●
Ⓓ Option								*3
Drain discharge *4, *5	**Blank**	With manual drain cock	●	●	●	●	●	●
	F	Auto-drain, man OVRD (NO: no press→Exhaust)			●	●	●	●
	F1	Auto-drain, man OVRD (NC: no press→no exhaust)	●	●	●	●	●	●
	FF	Large auto-drain, man OVRD (NO: no press→Exhaust)						●
	FF1	Large auto-drain, man OVRD (NC: no press→no exhaust)						●
Bowl material	**Blank**	Polycarbonate bowl	●	●	●	●	●	●
	Z	Nylon bowl	●	●	●	●	●	●
	M	Metal bowl			●	●	●	●
	M1	Metal bowl with manual drain cock		●	●	●	●	●
Element	**Blank**	5 µm	●	●	●	●	●	●
	Y	0.3 µm (submicron) *6			●	●	●	●
Diff press detect	**Blank**	Without differential pressure detection port	●	●	●	●	●	●
	Q	With differential pressure detection port (Rc 1/4)					●	●
Flow direction	**Blank**	Standard flow (left → right)	●	●	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●	●	●
Ⓔ Display unit								
Blank		MPa display (Rc thread), psi display (NPT thread), bar display (G thread)	●	●	●	●	●	●
J1		MPa display (NPT, G thread)	●	●	●	●	●	●
Ⓕ Pipe adaptor set (included)							Page 350	*7
Blank		Not included	●	●	●	●	●	●
A6*W		1/8 pipe adaptor set	●					
A8*W		1/4 pipe adaptor set	●	●	●	●		
A10*W		3/8 pipe adaptor set	●	●	●	●		
A15*W		1/2 pipe adaptor set		●	●	●		
A20*W		3/4 pipe adaptor set					●	●
A25*W		1 pipe adaptor set					●	●
A32*W		1 1/4 pipe adaptor set					●	●
*** Adaptor thread**								
Blank		Rc thread	●	●	●	●	●	●
N		NPT thread	●	●	●	●	●	●
G		G thread	●	●	●	●	●	●

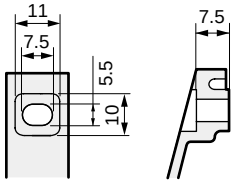
⚠ Precautions for model No. selection

1: Pipe adaptor A400-20-W is assembled on both ends of C4060-20*-W. A20*W does not need to be selected for the pipe adaptor set.
*2: G threads and NPT threads are available for IN, OUT and drain outlet (metal bowl with auto-drain).
*3: Select options for the drainage, bowl material, element and differential pressure detection. When selecting options for several items, list options in order from the top.
*4: Refer to page 354 for the auto-drain usage conditions.
*5: When option code “F” is selected, the NO auto-drain is supplied with the air filter and the NC auto-drain is supplied with the oil mist filter. When option code “F1” is selected, the NC auto-drain is included with the air filter and oil mist filter. For “FF” and “FF1”, only the filter has a large discharge rate. The oil mist filter is normal NC auto-drain.
*6: Refer to page 108 for max. processing flow rate when option “Y” is selected.
*7: The joiner set is enclosed with the pipe adaptor set.

Dimensions CAD

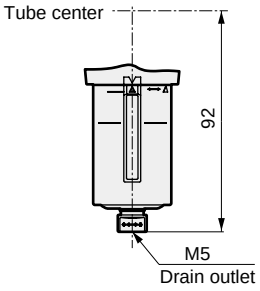
● C1060-W



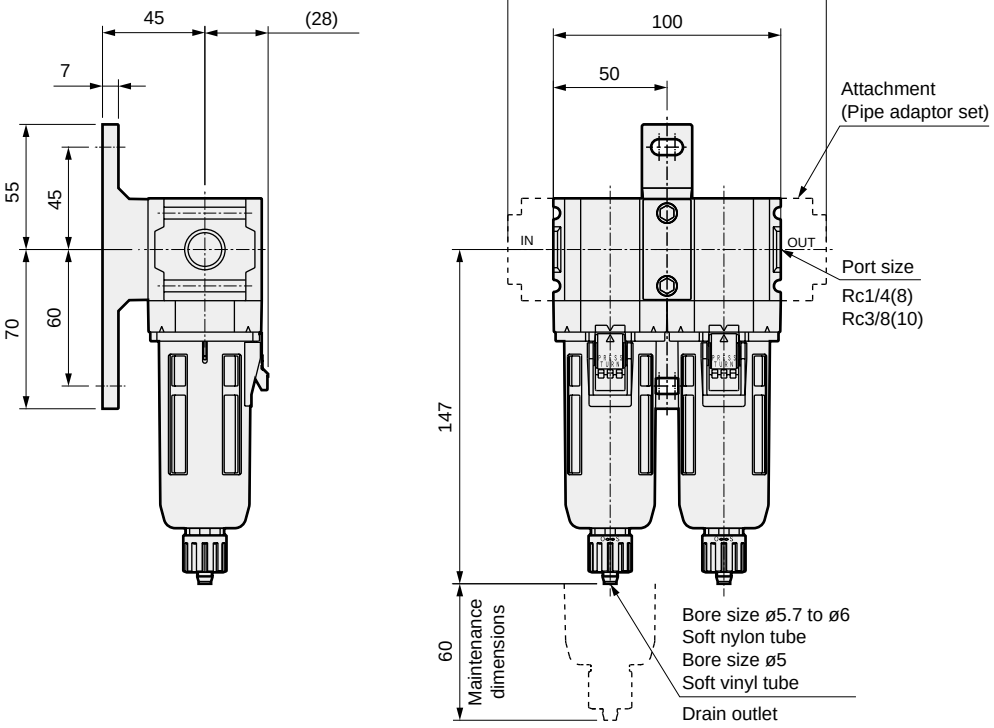


Enlarged view of bracket section

· Optional dimensions
With auto-drain (F1)

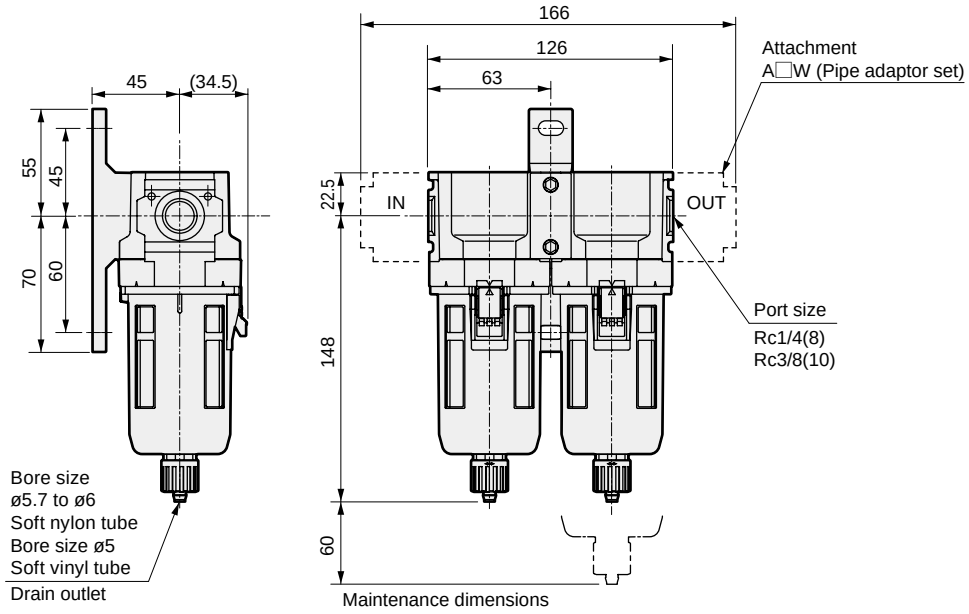


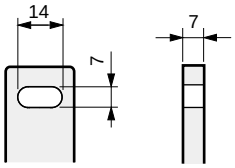
● C2060-W



Dimensions

● C3060-W

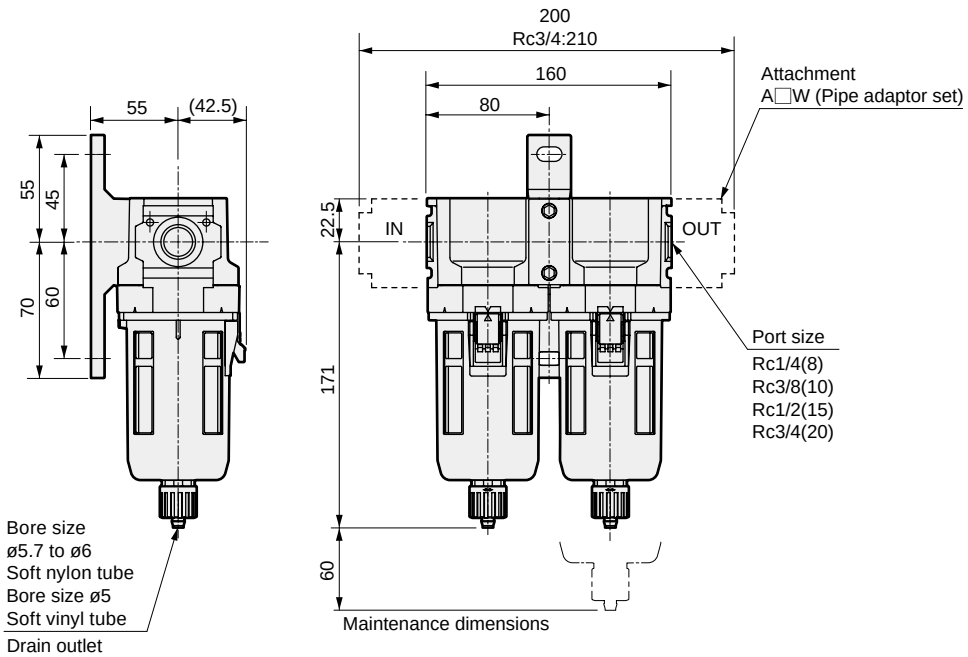


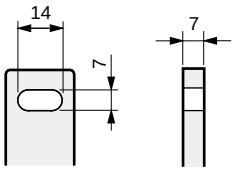


Enlarged view of bracket section

● Refer to page 113 for the dimensions of the metal bowl option filter and page 124 for the oil mist filter.

● C4060-W



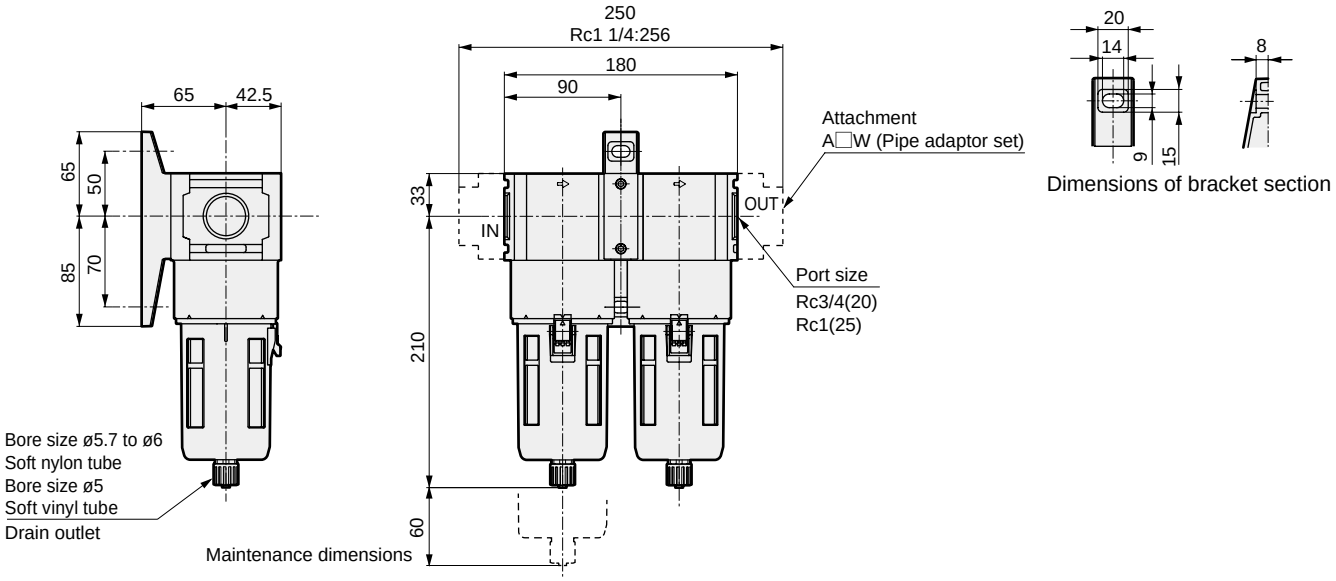


Enlarged view of bracket section

● Refer to page 113 for the dimensions of the metal bowl option filter and page 124 for the oil mist filter.

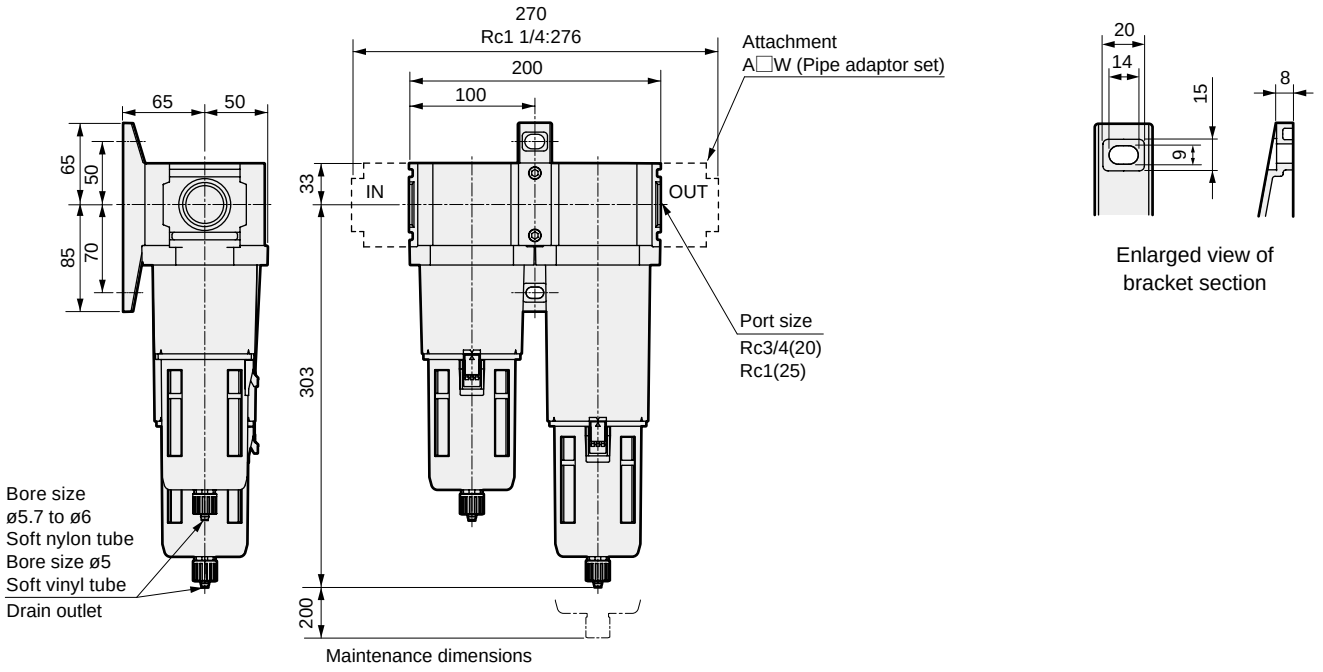
Dimensions CAD

● C6060-W



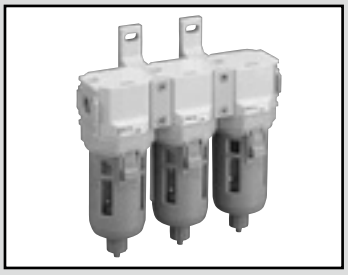
● Refer to page 113 for the dimensions of the metal bowl option filter and page 124 for the oil mist filter.

● C8060-W



● Refer to page 113 for the dimensions of the metal bowl option filter and page 124 for the oil mist filter.

MEMO

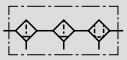


F.F.M. combination Standard White Series

C3070/C4070/C6070/C8070-W Series

5µm filter, 0.3µm filter and oil mist filter integrated.

● Port size: 1/4 to 1

JIS symbol 

RoHS CAD

Specifications

Item		C3070-W	C4070-W	C6070-W	C8070-W
Appearance					
Comps	Filter (5 µm)	F3000-W	F4000-W	F6000-W	F8000-W
	Filter (0.3 µm)	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 (≈150 psi, 10 bar) *2, 3			
Proof pressure	MPa	1.5 (≈220 psi, 15 bar)			
Ambient / fluid temperatures	°C	5 (41°F) to 60 (140°F)			
Port size	Rc,NPT,G	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)
Weight	kg	0.96	1.61	3.09	4.01
Secondary oil concentration		0.01 mg/m^3 or less (0.1 mg/m^3 or less after oil saturation)			
Max. flow rate (*1)	m^3/min	0.23	0.5	0.8	1.1

*1: The max. flow is for a primary pressure of 0.7 MPa.
*2: In the case of “F” with auto-drain, the supply air pressure is 0.15 MPa or more. For the air filter auto-drain, air is purged with the initial drainage until pressure reaches 0.1 MPa.
*3: In the case of “F1” with auto-drain, the required supply air pressure is 0.15 MPa or more.
*4: Refer to page 116 for details on other oil mist filters.

Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge				Bowl material		Pipe adaptor set					
	F	F1	FF	FF1	M	M1	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W
C3070	0.06	0.06			0.3	0.3	0.16	0.16	0.16			
C4070	0.06	0.06			0.3	0.3	0.16	0.16	0.16	0.16		
C6070	0.06	0.06			0.3	0.3				0.53	0.53	0.53
C8070	0.06	0.06	0.06	0.06	0.3	0.3				0.53	0.53	0.53

How to order

C3070 – 6 ○ - W - Z - ○ - A6W

- Ⓐ Model No.
- Ⓑ Port size
- Ⓒ Port thread
- Ⓓ Option
- Ⓔ Display unit
- Ⓕ Pipe adaptor set (included)

* Refer to page 30 for the explanation of the option.

Code		Description	Ⓐ Model No. C3070	C4070	C6070	C8070
Ⓑ Port size						
8		1/4	●	●		
10		3/8	●	●		
15		1/2		●		
20		3/4		●*1	●	●
25		1			●	●
Ⓒ Port thread						*2
Blank		Rc thread	●	●	●	●
N		NPT thread	●	●	●	●
G		G thread	●	●	●	●
Ⓓ Option						*3
Drain discharge *4, *5	**Blank**	With manual drain cock	●	●	●	●
	F	Auto-drain, man OVRD (NO: no press→Exhaust)	●	●	●	●
	F1	Auto-drain, man OVRD (NC: no press→no exhaust)	●	●	●	●
	FF	Large auto-drain, man OVRD (NO: no press→Exhaust)				●
	FF1	Large auto-drain, man OVRD (NC: no press→no exhaust)				●
Bowl material	**Blank**	Polycarbonate bowl	●	●	●	●
	Z	Nylon bowl	●	●	●	●
	M	Metal bowl	●	●	●	●
	M1	Metal bowl with manual drain cock	●	●	●	●
Diff press detect	**Blank**	Without differential pressure detection port	●	●	●	●
	Q	With differential pressure detection port (Rc 1/4)			●	●
Flow direction	**Blank**	Standard flow (left → right)	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●
Ⓔ Display unit						
Blank		MPa display (Rc thread), psi display (NPT thread), bar display (G thread)	●	●	●	●
J1		MPa display (NPT, G thread)	●	●	●	●
Ⓕ Pipe adaptor set (included)					Page 350	*6
Blank		Not included	●	●	●	●
A8*W		1/4 pipe adaptor set	●	●		
A10*W		3/8 pipe adaptor set	●	●		
A15*W		1/2 pipe adaptor set	●	●		
A20*W		3/4 pipe adaptor set		●	●	●
A25*W		1 pipe adaptor set			●	●
A32*W		1 1/4 pipe adaptor set			●	●
*** Adaptor thread**						
Blank		Rc thread	●	●	●	●
N		NPT thread	●	●	●	●
G		G thread	●	●	●	●

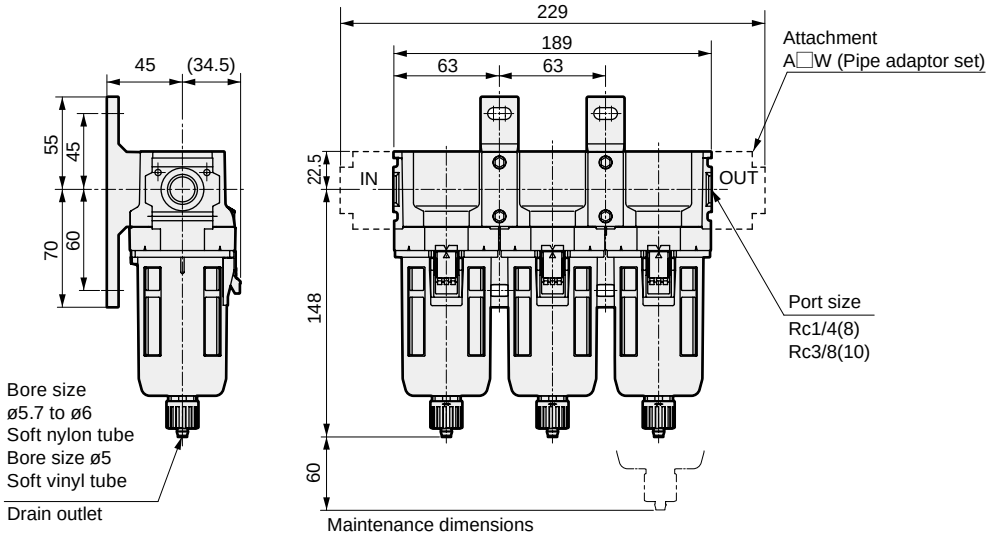
⚠ Precautions for model No. selection

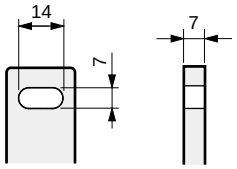
1: Pipe adaptor A400-20-W is assembled on both ends of C4070-20*-W. A20*W does not need to be selected for the pipe adaptor set.
*2: G threads and NPT threads are available for IN, OUT and drain outlet (metal bowl with auto-drain).
*3: Select options for the drainage, bowl material, element and differential pressure detection. When selecting options for several items, list options in order from the top.
*4: Refer to page 354 for the auto-drain usage conditions.
*5: When option code "F" is selected, the NO auto-drain is supplied with the air filter and the NC auto-drain is supplied with the oil mist filter. When option code "F1" is selected, the NC auto-drain is included with the air filter and oil mist filter. For "FF" and "FF1", only the filter has a large discharge rate. The oil mist filter is normal NC auto-drain.
*6: The joiner set is enclosed with the pipe adaptor set.

F.F.M. Combination

Dimensions CAD

● C3070-W

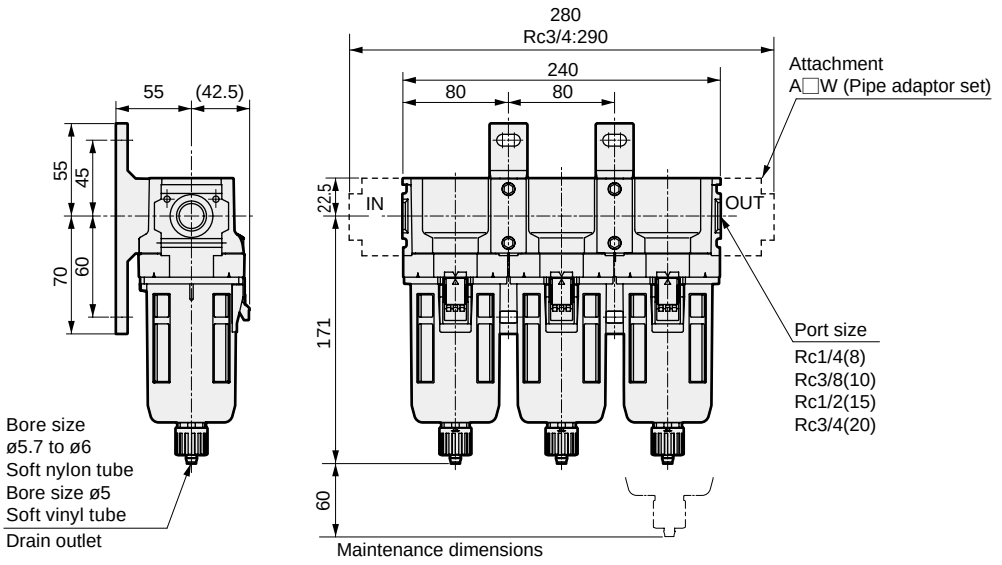


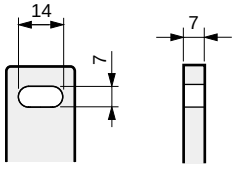


Enlarged view of bracket section

● Refer to page 113 for the dimensions of the metal bowl option filter and page 124 for the oil mist filter.

● C4070-W



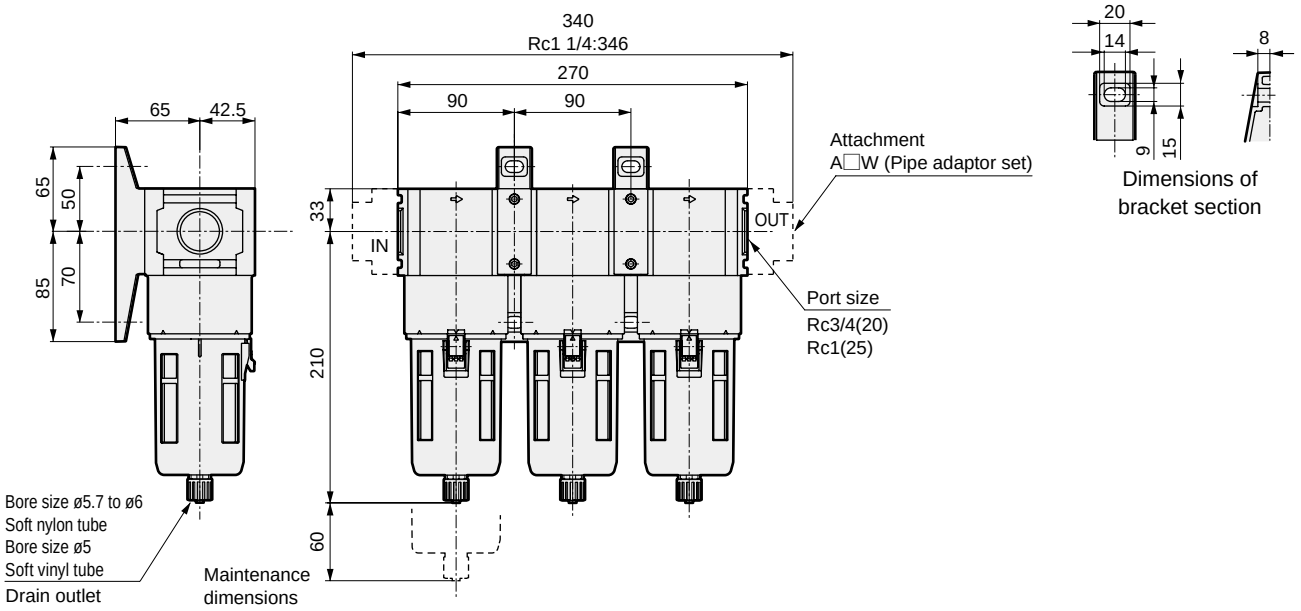


Enlarged view of bracket section

● Refer to page 113 for the dimensions of the metal bowl option filter and page 124 for the oil mist filter.

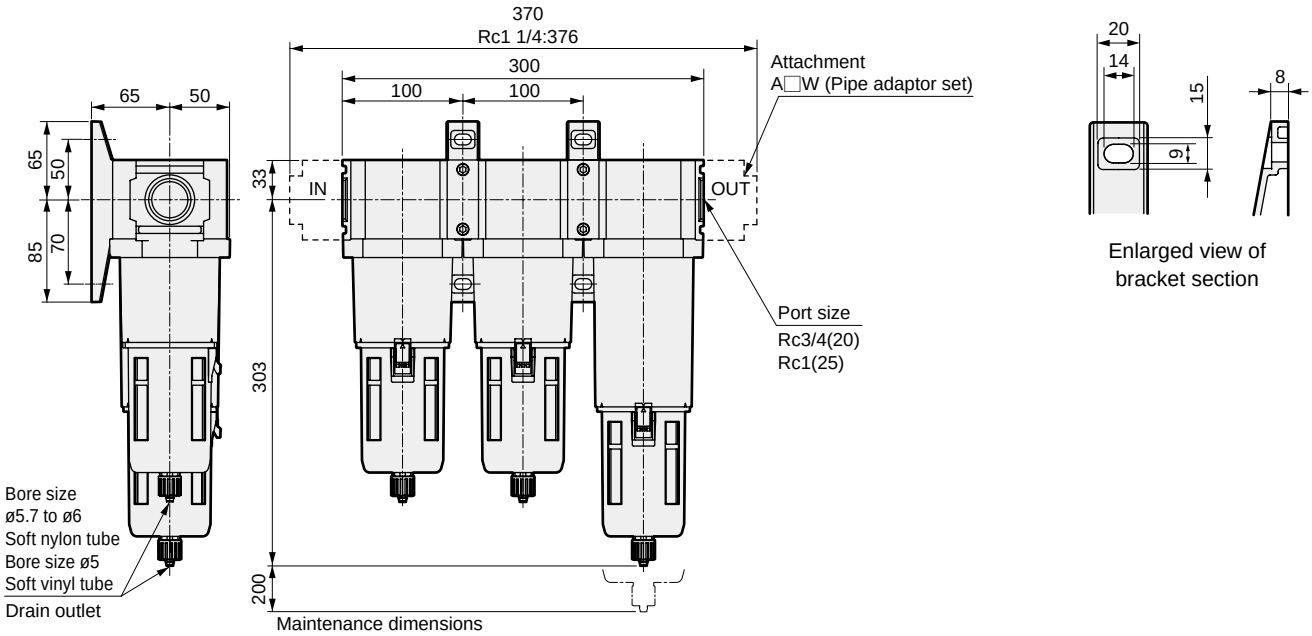
Dimensions

● C6070-W



● Refer to page 113 for the dimensions of the metal bowl option filter and page 124 for the oil mist filter.

● C8070-W



● Refer to page 113 for the dimensions of the metal bowl option filter and page 124 for the oil mist filter.