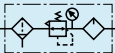




F.R.L. Combination Standard White Series
C1000/C2000/C2500-W
C3000/C4000/C6500/C8000-W Series

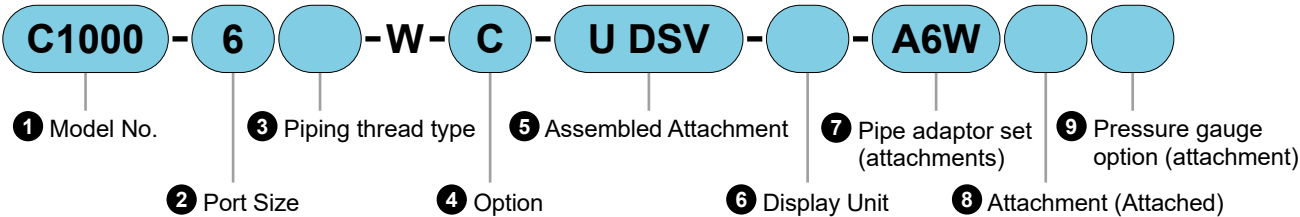
Space-saving type integrating Filter, Regulator, and Lubricator
● Port Size : 1/8 to 1

Circuit Diagram
Symbol



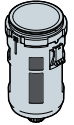
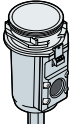
RoHS

Model No. Notation



		1 Model No.						
Code	Content	C1000	C2000	C2500	C3000	C4000	C6500	C8000
6	1/8	●						
8	1/4	●	●	●	●	●		
10	3/8		●	●	●	●		
15	1/2					●		
20	3/4					●	●	●
25	1						●	●

*1 : Pipe adapters with the C4000-20□-W are assembled on both ends of the A400-20□-W. There is no need to select "A20□W" for the piping adapter set.

Type	Code	Content	
Drain Discharge	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) (C2500 to C8000 Series)	
	F1	Filter/auto-drain with manual override (NC : No discharge when not pressurized)	
	FF	Filter/large auto-drain with manual override (NO : Exhaust when not pressurized) (C8000 Series)	
	FF1	Filter/large auto-drain with manual override (NC : No exhaust when not pressurized) (C8000 Series)	
Bowl Material	Blank	Polycarbonate Bowl	
	Z	Nylon Bowl	
	M	Metal bowl (C2500 to C8000 Series)	
	M1	Metal bowl with manual drain cock (C2000 to C8000 Series)	*3
	Blank	5 μm	
Element	Blank	0.3 μm (submicron) (C2500 to C8000 Series)	*4
	Y		

Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

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

Type	Code	Content	
Differential pressure detection	Blank	No Differential Pressure Detection Port	
	Q	With differential pressure detection port (Rc1/4) (C6500, C8000 Series)	
Pressure Range	Blank	0.05 to 0.85 MPa	
	L	0.05 to 0.35 MPa	*5
Relief	Blank	With Relief Mechanism	
	N	Non-relief Type	
Pressure Gauge	Blank	Standard Pressure Gauge (with G401-W)	
	T	No Pressure Gauge (Pressure Gauge Mounting Port (1/4) is sealed when assembled)	
	T8	For Attaching Pressure Gauge (Pressure Gauge Mounting Port (1/4) is vented when assembled)	
Flow Direction	Blank	Standard Flow (Left → Right)	
	X1	Reverse Flow (Right → Left)	

*1 : Select options for the drainage, bowl material, element, differential pressure detection and Regulators Items. When selecting options across multiple items, list them in order from the top.
*2 : For the auto-drain usage conditions, P. 540 .
*3 : When selecting option "M1", select the drain discharge option "C".
*4 : The max. processing flow rate when option "Y" is selected is P. 121 .
*5 : For option "L", the pressure gauge display range is 0 to 0.4 MPa.

F.R.L. Combination
Model No. Notation

* For a description of the options, see P. 28.

5 Assembled Attachment

For details, refer to P. 188 to P. 193, P. 204 to P. 211, P. 534 and P. 535.

Code		Content
Blank		No Assembled Attachment Type
U		Assembled Attachment Type
Assembly	D	Distributor (D101-W, D401-W, D801-W)
	S	Pressure Switch (P1100-W, 4100-W, 8100-W)
	P	Pressure Switch (P4000-W) (C2000 to C4000 Series)
	V	Residual Pressure Exhaust Valve (V1000-W, 3000-W) (C1000 to C4000 Series)
	K	With Lock Hole Residual Pressure Exhaust Valve (V3010-W, V6010-W) (C2000 to C8000 Series)

*1 : Installation position for assembled components

Code	Attachment Mounting Position	Applicable Model
D	F + (D) + R + L	C1000-W to C8000-W
S or P	F + R + (S, P) + L	C1000-W to C8000-W ("P" excludes 1000, 6000, 8000 Series)
V or K	F + R + L + (V, K)	C1000-W to C8000-W ("V" excludes 6000, 8000 Series, "K" excludes 1000 Series)

Indicate "U"+"D", "S", "P", "V" or "K" when selecting an assembled component. For combinations other than the above, please use the Custom Combination Specification Sheet.

6 Display Unit

Code	Content
Blank	MPa, °C Display (Rc Thread) psi, °F Display (NPT Thread) bar, °C Display (G Thread)
J1	MPa, °C Display (NPT Thread, G Thread)

*1 : When assembly option "P" or "S" is selected, the pressure switch display unit will be MPa regardless of the display unit option code.

7 Pipe adaptor set (attachments)

For details, see P. 536.

Code	Content	C1000	C2000	C2500	C3000	C4000	C6500	C8000
Blank	None Attached	●	●	●	●	●	●	●
A6□W	1/8 Piping Adapter Set	●						
A8□W	1/4 Piping Adapter Set	●	●	●	●	●		
A10□W	3/8 Piping Adapter Set	●	●	●	●	●		
A15□W	1/2 Piping Adapter Set		●	●	●	●		
A20□W	3/4 Piping Adapter Set					●	●	●
A25□W	1 Piping Adapter Set						●	●
A32□W	1 1/4 Piping Adapter Set						●	●

*1 : The piping adapter set comes with a joiner set.

*Adapter Thread Type

Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

8 Attachment (Attached)

Code	Content
Blank	None Attached
PW	Pressure Switch (P4000-W) + Joiner set (C2000 to C4000 Series)
VW	Residual pressure exhaust valve (V1000-W, V3000-W) + joiner set (C1000 to C4000 Series)

9 Pressure gauge option (attachment)

For details, see P. 545.

Code	Content
Blank	None Attached
G45P	G45D-8-P10 (L : G45D-8-P04)
G49P	G49D-8-P10 (L : G49D-8-P04)
G59P	G59D-8-P10 (L : G59D-8-P04)

Code	Content
G40P	G40D-8-P10 (L : G40D-8-P04)
G52P	G52D-8-P10 (L : G52D-8-P10)

*1 : The pressure gauge option (included) can be selected only when 3 Port thread is Rc thread.
*2 : C2000 Series is G59D-8-P10 (L : G59D-8-P04) cannot be selected.

Specifications

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. operating pressure MPa		1.0 *2						
Proof Pressure MPa		1.5						
Ambient/Fluid Temperatures °C		5 to 60						
Filtration Rating μm		5						
Set Pressure MPa		0.05 to 0.85 *2	0.05 to 0.85					
Min. drip flow rate (*1) L/min (ANR)		15	30	30	30	65	65	65
Relief		With Relief Mechanism						
Oil storage capacity cm³		20	85	85	85	170	170	170 (MA x 360)
Drain capacity cm³		12	25	45	45	80	80	80 (*3)
Recommended Oil		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 minimum dripping flow rate is the flow rate at which 5 drops of turbine oil drip per minute at a set pressure of 0.5 MPa.
- *2 : When using C1000-W Series "F1" with auto-drain, the min. working pressure is 0.2 MPa and max. operating pressure is 0.7 MPa. The max. operating flow rate is the max. operating flow rate table of F1000-W-F1 with auto-drain (P. 120). Please keep the operating flow rate below the maximum operating flow rate value.
- *3 : Up to 170 cm³ is stored with the manual drain cock only.
- *4 : In the case of auto drain "F" and "FF", the minimum operating pressure of the auto drain is 0.1 MPa. Until 0.1 MPa is reached, air is purged together with the initial drainage.
- *5 : In the case of auto drain "F1" and "FF1", the minimum operating pressure of the auto drain is 0.15 MPa.
- *6 : When element option "Y" is selected, the max. flow rate is the max. operating flow rate table (P. 121). Please keep the operating flow rate below the maximum operating flow rate value.
- *7 : C2000-W Series with "F1" (with auto-drain) must be used at equal to or less than the max. operating flow rate. (Max. flow rate is P. 120 Refer to F2000-W.)

Option Weight Table

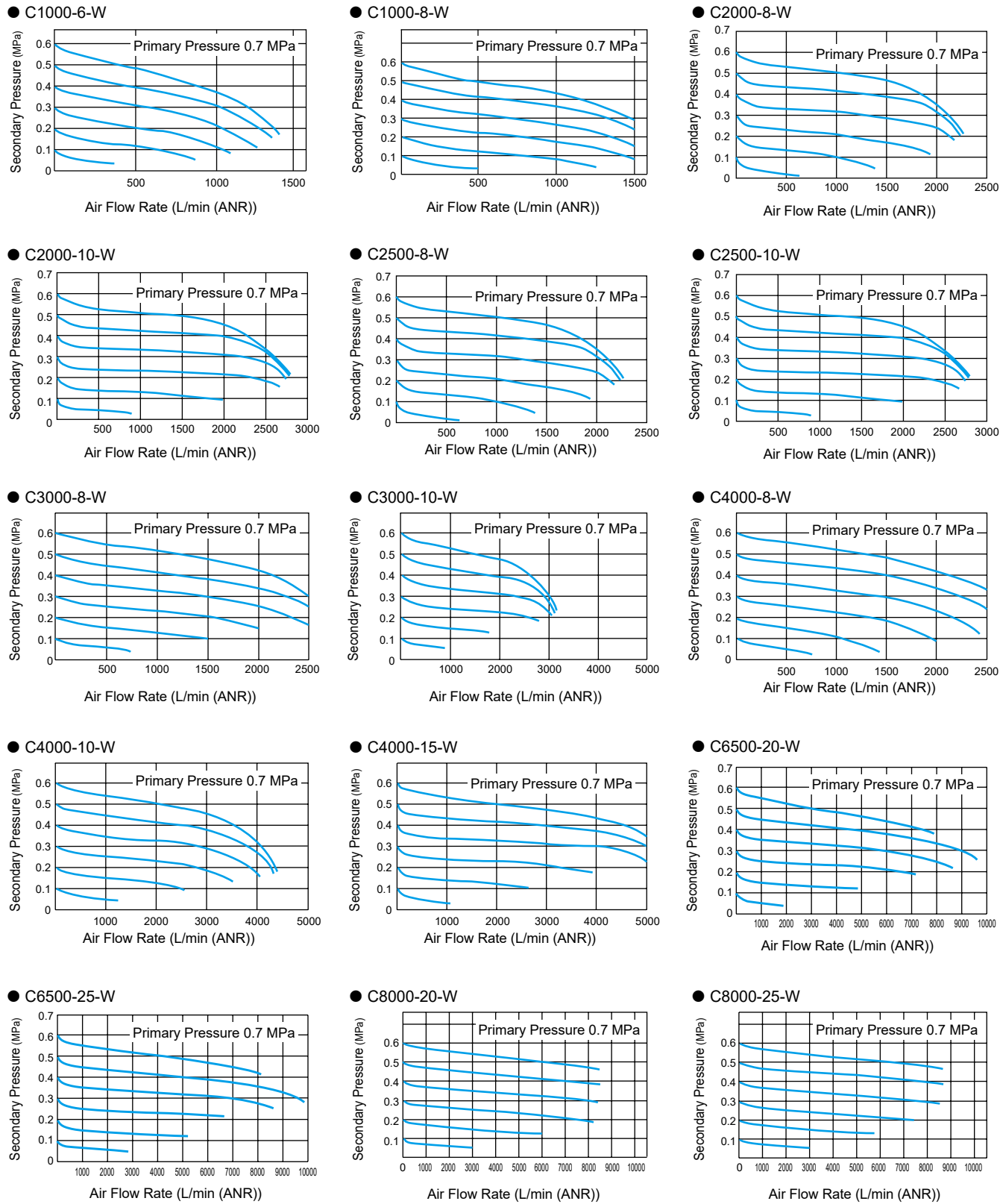
*Add to the weight of standard accessories.

Unit : kg

Code	Drain Discharge					Bowl Material		Pressure Gauge	Piping Adapter 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 Attachment					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

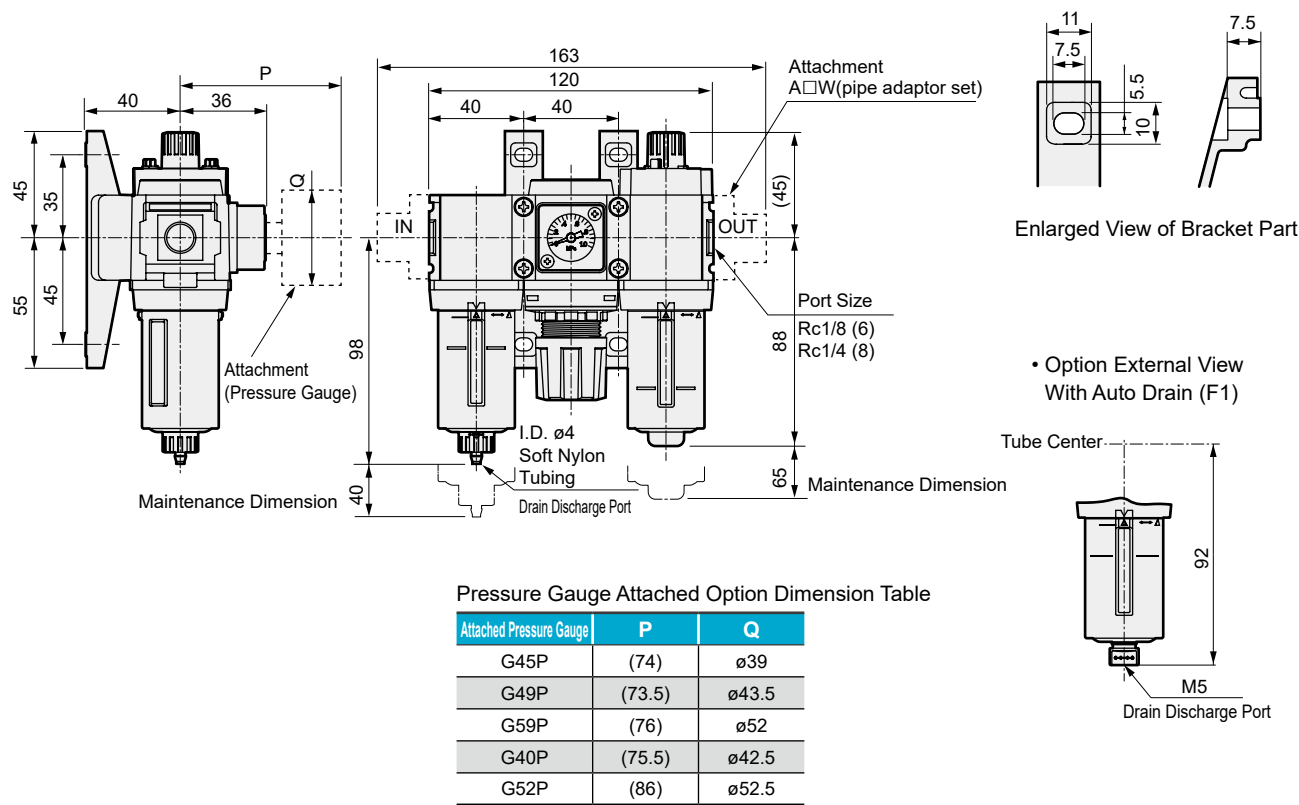
Flow Characteristics



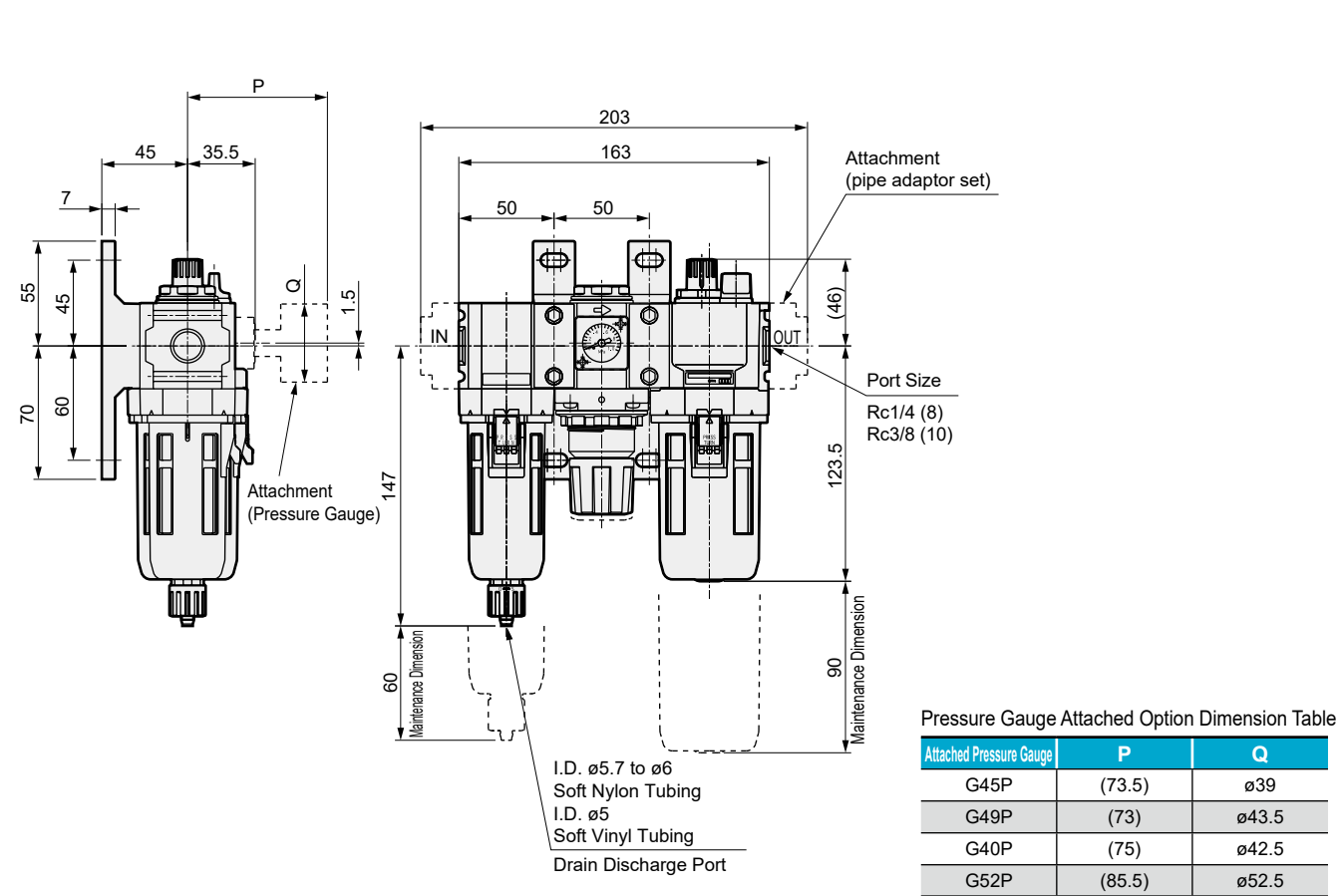
F.R.L. Combination

Dimensions

● C1000-W



● C2000-W

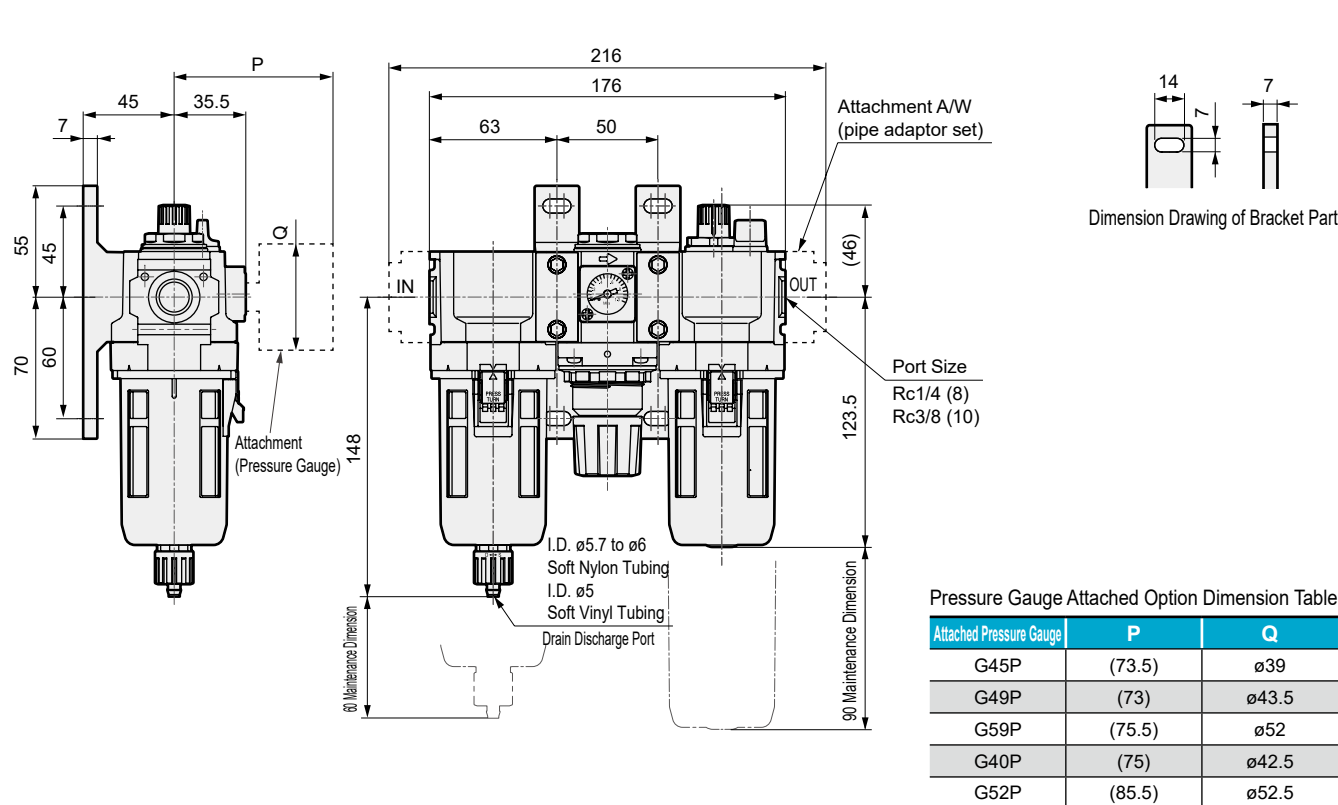


F.R.L. Combination

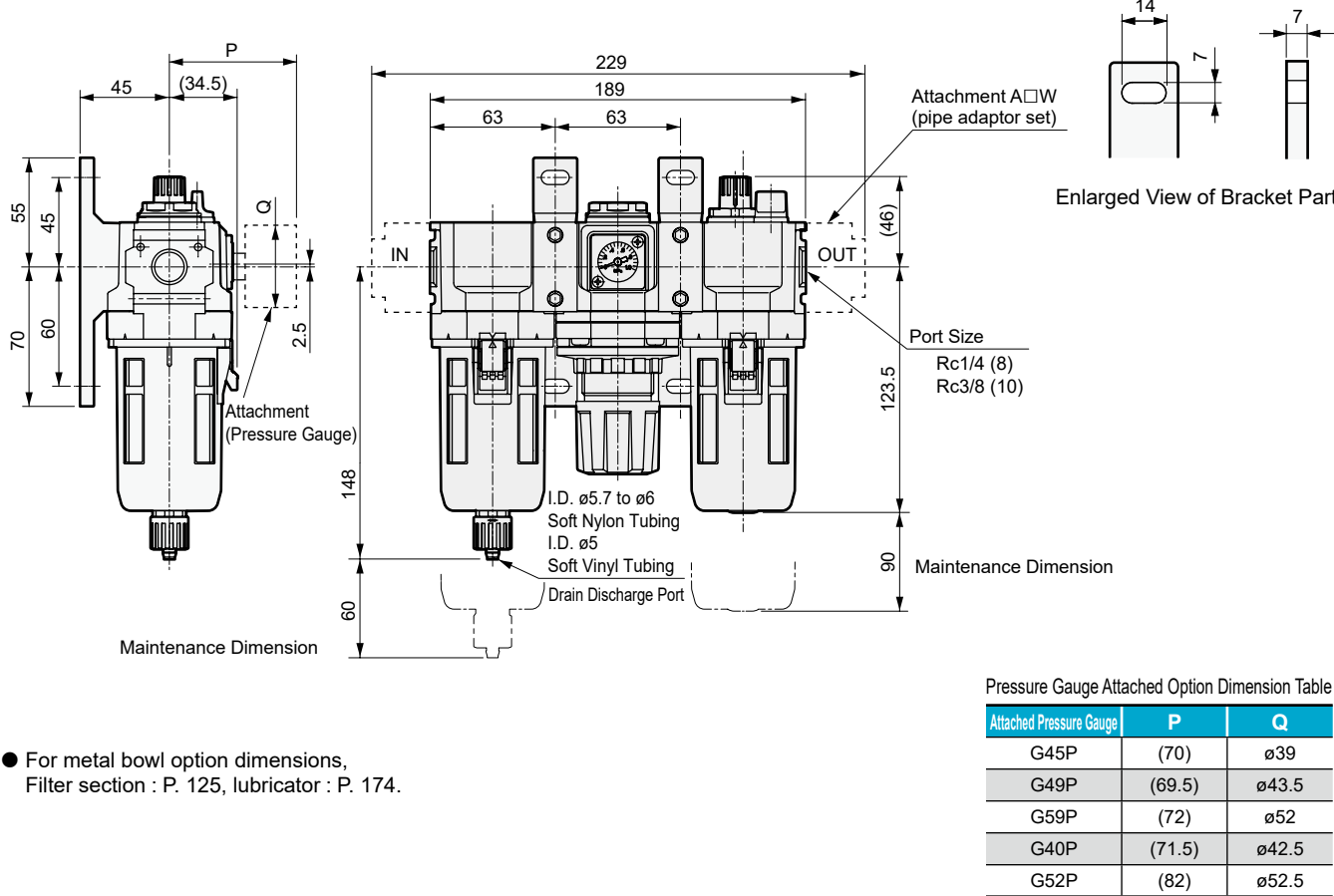
Dimensions

Dimensions

● C2500-W



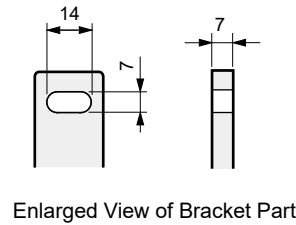
● C3000-W



● For metal bowl option dimensions,
Filter section : P. 125, lubricator : P. 174.

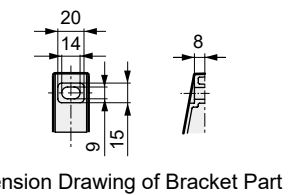
Dimensions

- [illegible]



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

- [illegible]



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

External Dimensions/Option Assembly External Dimensions

● C8000-W

Technical drawing showing the front, side, and bracket views of the C8000-W device, along with dimensions and a pressure gauge attachment table.

Front View Dimensions:

- Overall Width: 65
- Overall Height: 85
- Port Spacing: 52.5
- Port Diameter: $\phi 15$
- Attachment (Pressure Gauge)
- Maintenance Dimension: 60

Side View Dimensions:

- Overall Width: 300
- Overall Height: 228
- Port Spacing: 100
- Port Diameter: $\phi 15$
- Attachment (Piping Adapter Set)
- Port Size: Rc3/4 (20), Rc1 (25)
- Maintenance Dimension: 115
- Drain Discharge Port

Bracket Part Dimensions:

- Overall Width: 20
- Overall Height: 15
- Port Spacing: 14
- Port Diameter: $\phi 8$

Pressure Gauge Attached Option Dimension Table

Attached Pressure Gauge	P	Q
G45P	(85)	$\phi 39$
G49P	(84.5)	$\phi 43.5$
G59P	(87)	$\phi 52$
G40P	(86.5)	$\phi 42.5$
G52P	(98)	$\phi 52.5$

-
- Technical drawing of the 3000 series valve assembly showing dimensions L1, L2, and L3.

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

Assembly 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
Assembly 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	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	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	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	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	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	100	240	423
C6500-W	-	-	-	90	290	470	-	-	-	-	-	-	-	-	-	90	240	420	-	-	-	-	-	-	-	-	-
C8000-W	-	-	-	100	300	490	-	-	-	-	-	-	-	-	-	100	250	440	-	-	-	-	-	-	-	-	-

L1 : Dimension from IN side end face to the center of T-type bracket mounting hole
L2 : Pitch dimension of mounting holes from 1st to 2nd T-type bracket
L3 : Dimension from IN side end face to OUT side end face

* For detailed bracket mounting hole dimensions, P. 532.
*1. Piping adapter is assembled on the OUT side.
Also, C4000-20-W has piping adapter A400-20-W assembled on both ends.

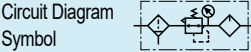
For maintenance parts, please visit the CKD Components Product Site (<https://www.ckd.co.jp/kiki/en/>) → "model No." → Maintenance Parts.



W.L. Combination Standard White Series
C1010/C2010/C3010/C4010/C8010-W Series

Filter Regulator and Lubricator Integrated.

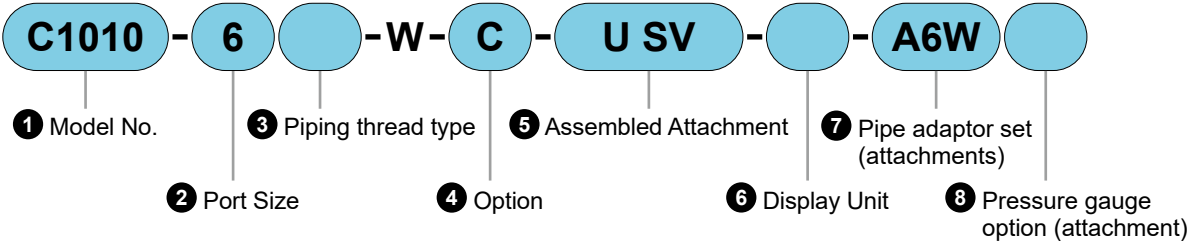
● Port Size : 1/8 to 1



W.L. Combination
Model No. Notation

* For a description of the options, P. 28.

Model No. Notation



2 Port Size		1 Model No.				
		C1010	C2010	C3010	C4010	C8010
Code	Content					
6	1/8	●				
8	1/4	●	●	●	●	
10	3/8		●	●	●	
15	1/2				●	
20	3/4				●	●
25	1					●

*1 : Pipe adapters with the C4010-20□-W are assembled on both ends of the A400-20□-W. There is no need to select "A20"W" for the piping adaptor set.

		4 Option	*1
Type	Code	Content	
Drain Discharge	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) (C3010 to C8010 Series)	
	F1	Filter/auto-drain with manual override (NC : No discharge when not pressurized)	
	FF	Filter/large auto-drain with manual override (NO : Exhaust when not pressurized) (C8010 Series)	
	FF1	Filter/large auto-drain with manual override (NC : No exhaust when not pressurized) (C8010 Series)	
Bowl Material	Blank	Polycarbonate Bowl	
	Z	Nylon Bowl	
	M	Metal bowl (C3010 to C8010 Series)	
	M1	Metal bowl with manual drain cock (C2010 to C8010 Series)	*3
Element	Blank	5 μm	
	Y	0.3 μm (submicron) (C3010 to C8010 Series)	*4

Type	Code	Content
Pressure Range	Blank	0.05 to 0.85 MPa
	L	0.05 to 0.35 MPa
Relief	Blank	With Relief Mechanism
	N	Non-relief Type
Pressure Gauge	Blank	Standard Pressure Gauge (with G401-W)
	T	No Pressure Gauge (Pressure Gauge Mounting Port (1/4) is sealed when assembled)
	T8	For Attaching Pressure Gauge (Pressure Gauge Mounting Port (1/4) is vented when assembled)
Flow Direction	Blank	Standard Flow (Left → Right)
	X1	Reverse Flow (Right → Left)

*1 : Select options for the drainage, bowl material, element, and Regulators Items. When selecting options across multiple items, list them in order from the top.
*2 : For the auto-drain usage conditions, P. 540.
*3 : When selectingoption "M1", select the drain discharge option "C".
*4 : The max. processing flow rate when option "Y" is selected is P. 121.
*5 : For option "L", the pressure gauge display range is 0 to 0.4 MPa.

5 Assembled Attachment

For details, refer to P. 188 to P. 193, P. 204 to P. 211, P. 534 and P. 535.

Code		Content
Blank		No Assembled Attachment Type
U		Assembled Attachment Type
Assembly	S	Pressure Switch (P1100-W, 4100-W, 8100-W)
	P	Pressure Switch (P4000-W) (C2010 to C4010 Series)
	V	Residual Pressure Exhaust Valve (V1000-W, 3000-W) (C1010 to C4010 Series)
	K	With Lock Hole Residual Pressure Exhaust Valve (V3010-W, V6010-W) (C2010 to C8010 Series)

*1 : Installation position for assembled components

Code	Attachment Mounting Position	Applicable 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, "K" excludes 1000 Series)

Indicate "U"+"S", "P", "V" and "K" when selecting an assembled component. For combinations other than the above, please use the Custom Combination Specification Sheet.

6 Display Unit

Code	Content
Blank	MPa, °C Display (Rc Thread) psi, °F Display (NPT Thread) bar, °C Display (G Thread)
J1	MPa, °C Display (NPT Thread, G Thread)

*1 : When assembly option "P" or "S" is selected, the pressure switch display unit will be MPa regardless of the display unit option code.

7 Pipe adaptor set (attachments)

For details, see P. 536.

		1 Model No.				
Code	Content	C1010	C2010	C3010	C4010	C8010
Blank	None Attached	●	●	●	●	●
A6□W	1/8 Piping Adapter Set	●				
A8□W	1/4 Piping Adapter Set	●	●	●	●	
A10□W	3/8 Piping Adapter Set	●	●	●	●	
A15□W	1/2 Piping Adapter Set		●	●	●	●
A20□W	3/4 Piping Adapter Set				●	●
A25□W	1 Piping Adapter Set					●
A32□W	1 1/4 Piping Adapter Set					●

*1 : The piping adapter set comes with a joiner set.

*Adapter Thread Type

Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

8 Pressure gauge option (attachment)

For details, see P. 545.

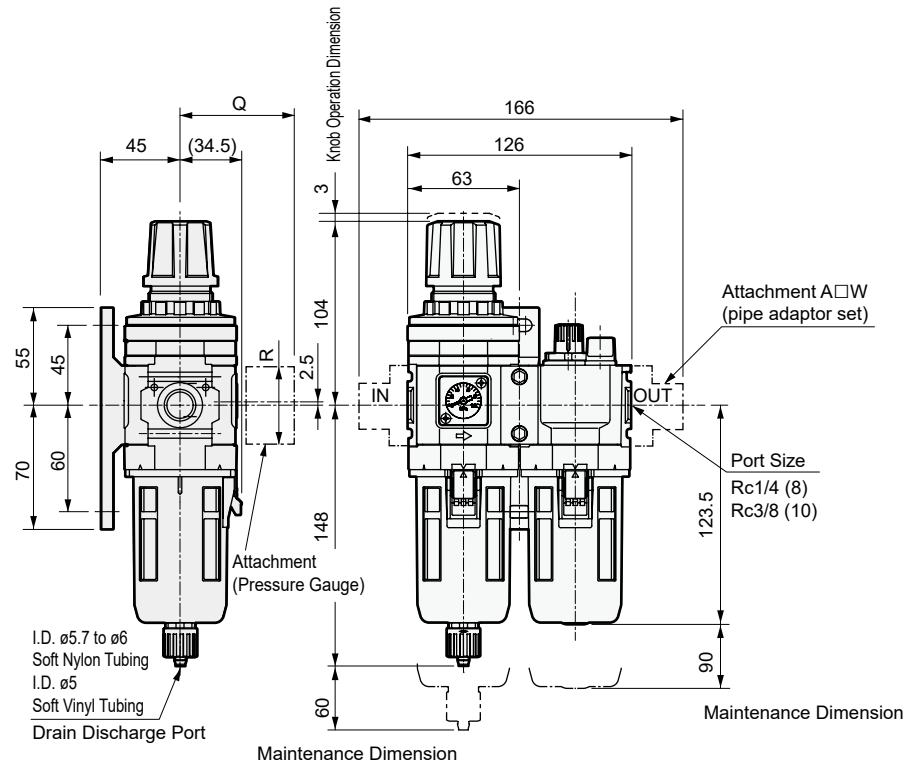
Code	Content
Blank	None Attached
G45P	G45D-8-P10 (L : G45D-8-P04)
G49P	G49D-8-P10 (L : G49D-8-P04)
G59P	G59D-8-P10 (L : G59D-8-P04)

Code	Content
G40P	G40D-8-P10 (L : G40D-8-P04)
G52P	G52D-8-P10 (L : G52D-8-P10)

*1 : The pressure gauge option (included) can be selected only when 2 Port thread is Rc thread.
*2 : C2010 Series is G59D-8-P10 (L : G59D-8-P04) cannot be selected.

Dimensions

● C3010-W

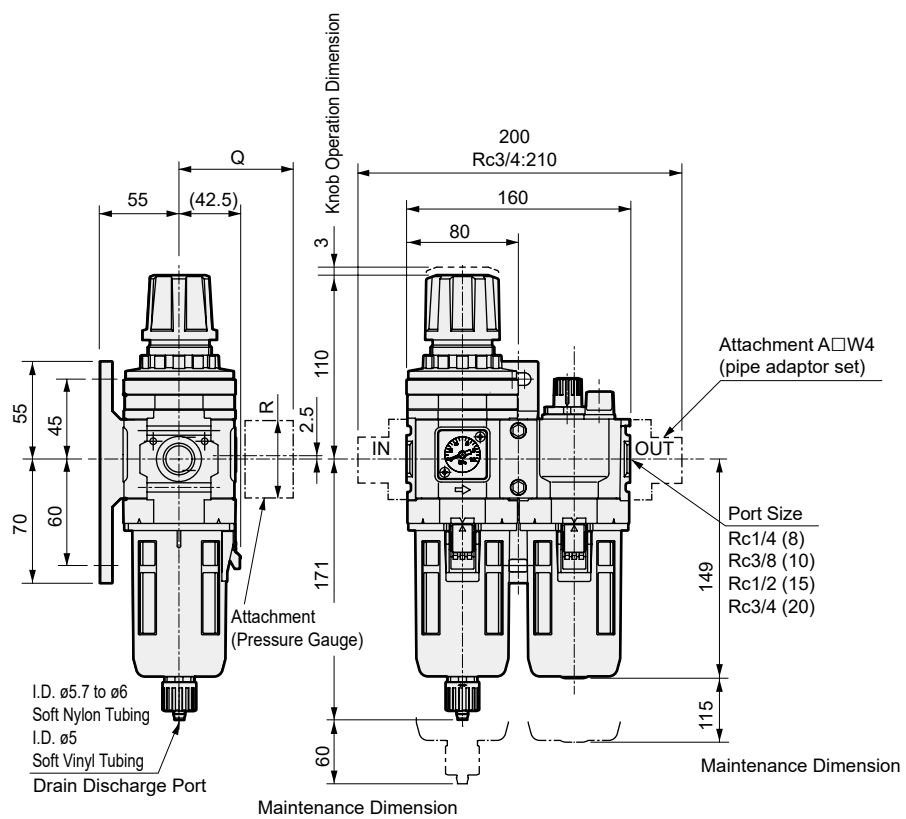


Pressure Gauge Attached Option Dimension Table

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

● For metal bowl option dimensions,
Filter Regulator section : P. 106 , lubricator : P. 174.

● C4010-W



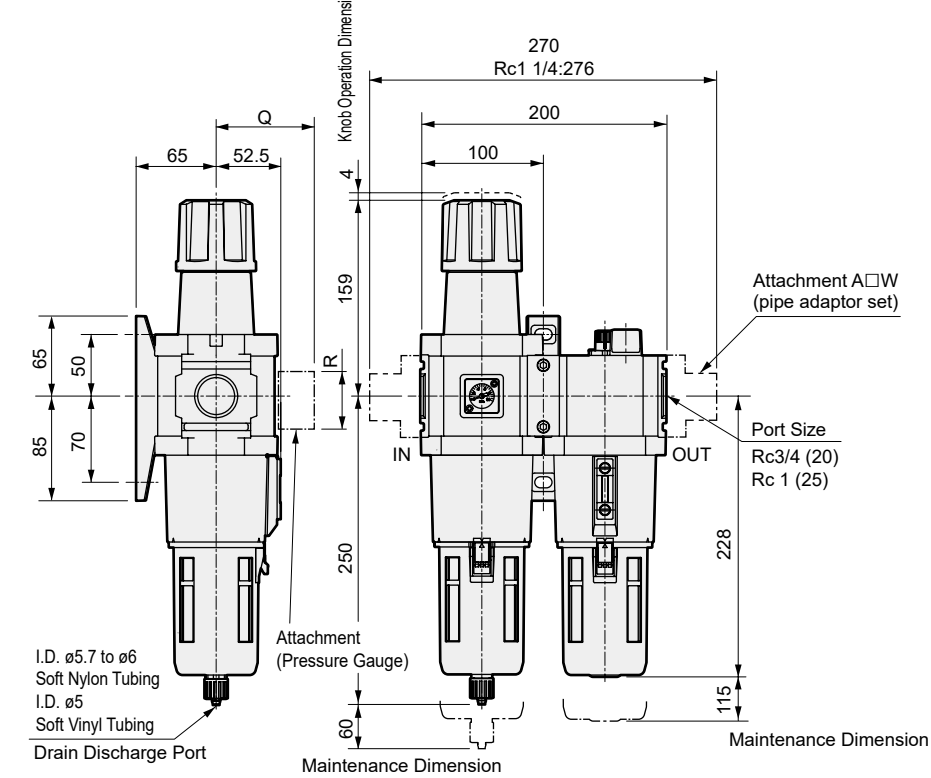
Pressure Gauge Attached Option Dimension Table

Attached 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 the filter/Regulators section for the optional dimensions
of the metal bowl : P. 106 , lubricator : P. 174.

Dimensions

● C8010-W



Pressure Gauge Attached Option Dimension Table

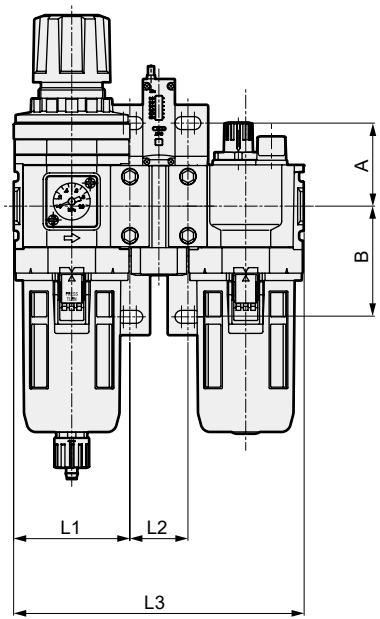
Attached Pressure Gauge	Q	R
G45P	(85)	ø39
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G52P	(98)	ø52.5

● For metal bowl option dimensions,
Filter Regulator section : P. 106 , lubricator : P. 174.

W.L. Combination

Option Assembly External Dimensions

● C1010-W to C8010-W



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

Assembly Option Model No.	S			P			V			K			SV			SK			PV			PK		
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
C1010-W	40	28	108	-	-	-	40	40	120	-	-	-	40	68	148	-	-	-	-	-	-	-	-	-
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 : Dimension from IN side end face to the center of T-type bracket mounting hole
L2 : Pitch dimension of mounting holes from 1st to 2nd T-type bracket
L3 : Dimension from IN side end face to OUT side end face

* For detailed bracket mounting hole dimensions, P. 532.
*1 : Piping adaptor is assembled on the OUT side. As well, the pipe adaptor A400-20-W is assembled on both ends of C4010-20-W.

For maintenance parts, please visit the CKD Components Product Site
(<https://www.ckd.co.jp/kiki/en/>) → "model No." → Maintenance Parts.

MEMO



F.R. Combination Standard White Series
C1020/C2020/C2520-W
C3020/C4020/C6020/C8020-W Series

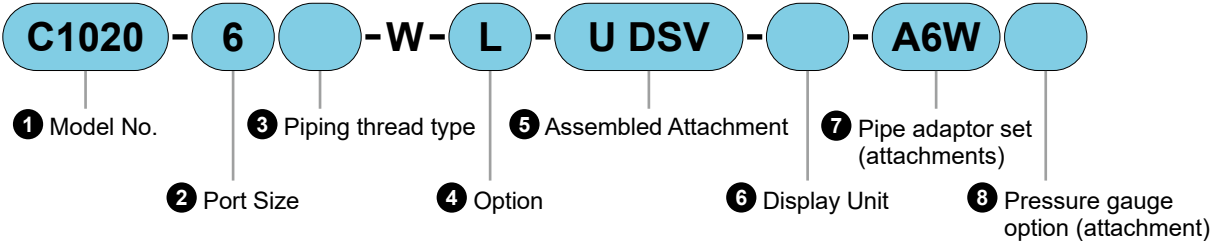
Filter and Regulator Integrated.

- Port Size : 1/8 to 1

Circuit Diagram
Symbol



Model No. Notation



		① Model No.						
		C1020	C2020	C2520	C3020	C4020	C6020	C8020
② Port Size	Code	Content						
	6	1/8	●					
	8	1/4	●	●	●	●		
	10	3/8		●	●	●		
	15	1/2				●		
	20	3/4				●	●	●
25	1					●	●	

*1 : Pipe adapters with the C4020-20 □-W are assembled on both ends of the A400-20 □-W. There is no need to select "A20□W" for the piping adapter set.

4 Option

Type	Code	Content
Drain Discharge	Blank	Filter with Manual Drain Cock
	F	Filter/auto-drain with manual override (NO : Exhaust when not pressurized) (C2520 to C8020 Series)
	F1	Filter/auto-drain with manual override (NC : No discharge when not pressurized)
	FF	Filter/large auto-drain with manual override (NO : Exhaust when not pressurized) (C8020 Series)
	FF1	Filter/large auto-drain with manual override (NC : No exhaust when not pressurized) (C8020 Series)
Bowl Material	Blank	Polycarbonate Bowl
	Z	Nylon Bowl
	M	Metal bowl (C2520 to C8020 Series)
	M1	Metal bowl with manual drain cock (C2020 to C8020 Series)
Element	Blank	5 μm
	Y	0.3 μm (submicron) (C2520 to C8020 Series) *3
Differential pressure detection	Blank	No Differential Pressure Detection Port
	Q	With differential pressure detection port (Rc1/4) (C6020, C8020 Series)

3 Piping thread type

Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

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

Type	Code	Content
Pressure Range	Blank	0.05 to 0.85 MPa
	L	0.05 to 0.35 MPa *4
Relief	Blank	With Relief Mechanism
	N	Non-relief Type
Pressure Gauge	Blank	Standard Pressure Gauge (with G401-W)
	T	No Pressure Gauge (Pressure Gauge Mounting Port (1/4) is sealed when assembled)
	T8	For Attaching Pressure Gauge (Pressure Gauge Mounting Port (1/4) is vented when assembled)
	T6	Digital pressure sensor PPX attachment option *5
	RN	Pressure switch with display, PPR assembled (NPN output 1 point) (C1020, C2520 to C8020 Series)
Flow Direction	Blank	Standard Flow (Left → Right)
	X1	IN/OUT Reverse Flow (Right → Left)

*1 : Select options for the drainage, bowl material, element, differential pressure detection and Regulators Items. When selecting options across multiple items, list them in order from the top.
*2 : For the auto-drain usage conditions, P. 540.
*3 : When option "Y" is selected, P. 121 .
*4 : For option "L", the pressure gauge display range is 0 to 0.4 MPa.
*5 : When option "T6" is selected, only "Blank" or "R2" can be selected for 8 pressure gauge option (attachment). Digital Pressure Sensor PPX mounting port (Rc1/8) is assembled in a vented state.

F.R. Combination

Model No. Notation

Food Manufacturing Process Compliant Specification (Catalog No. CC-1271AA)

- Uses food-grade lubricant usable in food manufacturing processes, and resin/rubber materials conforming to the Food Sanitation Act

C□20 - - FP□

5 Assembled Attachment

For details, see P. 188 to P. 193, P. 204 to P. 211, P. 534 and P. 535.

*2

Code		Content
Blank		No Assembled Attachment Type
U		Assembled Attachment Type
Assembly	D	Distributor (D101-W, D401-W, D801-W)
	S	Pressure Switch (P1100-W, 4100-W, 8100-W)
	P	Pressure switch (P4000-W) (C2020 to C4020 Series)
	V	Residual pressure exhaust valve (V1000-W, 3000-W) (C1020 to C4020 Series)
	V1	Residual Pressure Exhaust Valve (V1000-W, 3000-W) (C1020 to C4020 Series)
	SV1	Pressure switch (P1100-W, P4100-W), residual pressure exhaust valve (V1000-W, 3000-W) (C1020 to C4020 Series)
	K	Residual pressure exhaust valve with locking hole (V3010-W, V6010-W) (C2020 to C8020 Series)

*1 : Assembled components (V1, SV1) can be selected only with port size and drain discharge options. If selecting other options, it will be handled by custom combination.

*2 : Installation position for assembled components

Code	Attachment Mounting Position	Applicable Model
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 a reverse regulator)
SV1	(V1) + F + R + (S)	C1020-W to C4020-W ("R" is a reverse regulator)

Indicate "U"+"D", "S", "P", "V", "V1", "SV1" or "K" when selecting an assembled component. For combinations other than the above, please use the Custom Combination Specification Sheet.

6 Display Unit

Code	Content
Blank	MPa, °C Display (Rc Thread) psi, °F Display (NPT Thread) bar, °C Display (G Thread)
J1	MPa, °C Display (NPT Thread, G Thread)

*1 : Group When attached option "P" or "S" is selected or pressure gauge option "RN" or "RP" is selected, the pressure switch display unit will be MPa regardless of the display unit option code.

7 Pipe adaptor set (attachments)

For details, see P. 536.

		1 Model No.						
Code	Content	C1020	C2020	C2520	C3020	C4020	C6020	C8020
Blank	None Attached	●	●	●	●	●	●	●
A6□W	1/8 Piping Adapter Set	●						
A8□W	1/4 Piping Adapter Set	●	●	●	●	●		
A10□W	3/8 Piping Adapter Set	●	●	●	●	●		
A15□W	1/2 Piping Adapter Set		●	●	●	●		
A20□W	3/4 Piping Adapter Set					●	●	●
A25□W	1 Piping Adapter Set						●	●
A32□W	1 1/4 Piping Adapter Set						●	●

*1 : The piping adapter set comes with a joiner set.

* Adapter Thread Type

Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

8 Pressure gauge option (attachment)

For details, see P. 545.

Code	Content
Blank	None Attached
G45P	G45D-8-P10 (L : G45D-8-P04)
G49P	G49D-8-P10 (L : G49D-8-P04)
G59P	G59D-8-P10 (L : G59D-8-P04) *2

Code	Content
G40P	G40D-8-P10 (L : G40D-8-P04)
G52P	G52D-8-P10 (L : G52D-8-P10)
R2	Digital Pressure Sensor : PPX-R10N-6M

*1 : The pressure gauge option (included) can be selected only when 3 Port thread is Rc thread.
*2 : C2020 Series is G59D-8-P10 (L : G59D-8-P04) cannot be selected.

Specifications

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
Operating Fluid		Compressed Air						
Max. operating pressure MPa		1.0 *2						
Proof Pressure MPa		1.5						
Ambient/Fluid Temperatures °C		5 to 60						
Filtration Rating μm		5						
Set Pressure MPa		0.05 to 0.85 *2	0.05 to 0.85					
Relief		With Relief Mechanism						
Drain capacity cm³		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" "RP" (pressure switch with display PPR is mounted) and "R2" (Digital Pressure Sensors PPX is attached) are 5 to 50 °C.

*2: When using C1020 Series "F1" with auto-drain, the min. working pressure is 0.2 MPa and max. operating pressure is 0.7 MPa. The max. operating flow rate is the max. operating flow rate table of F1000-F1 with auto-drain (P. 120). Please keep the operating flow rate below the maximum operating flow rate value.

*3 : Up to 170cm³ is stored with the manual drain cock only.

*4 : In the case of auto drain "F" and "FF", the minimum operating pressure of the auto drain is 0.1 MPa. Until 0.1 MPa is reached, air is purged together with the initial drainage.

*5 : In the case of auto drain "F1" and "FF1", the minimum operating pressure of the auto drain is 0.15 MPa.

*6: When element option "Y" is selected, max. flow rate is: P. 121). Please keep the operating flow rate below the maximum operating flow rate value.

*7 : C2020-W Series with "F1" (with auto-drain) must be used at equal to or less than the max. operating flow rate. (Max. flow rate is P. 120 Refer to F2000-W.)

Option Weight Table

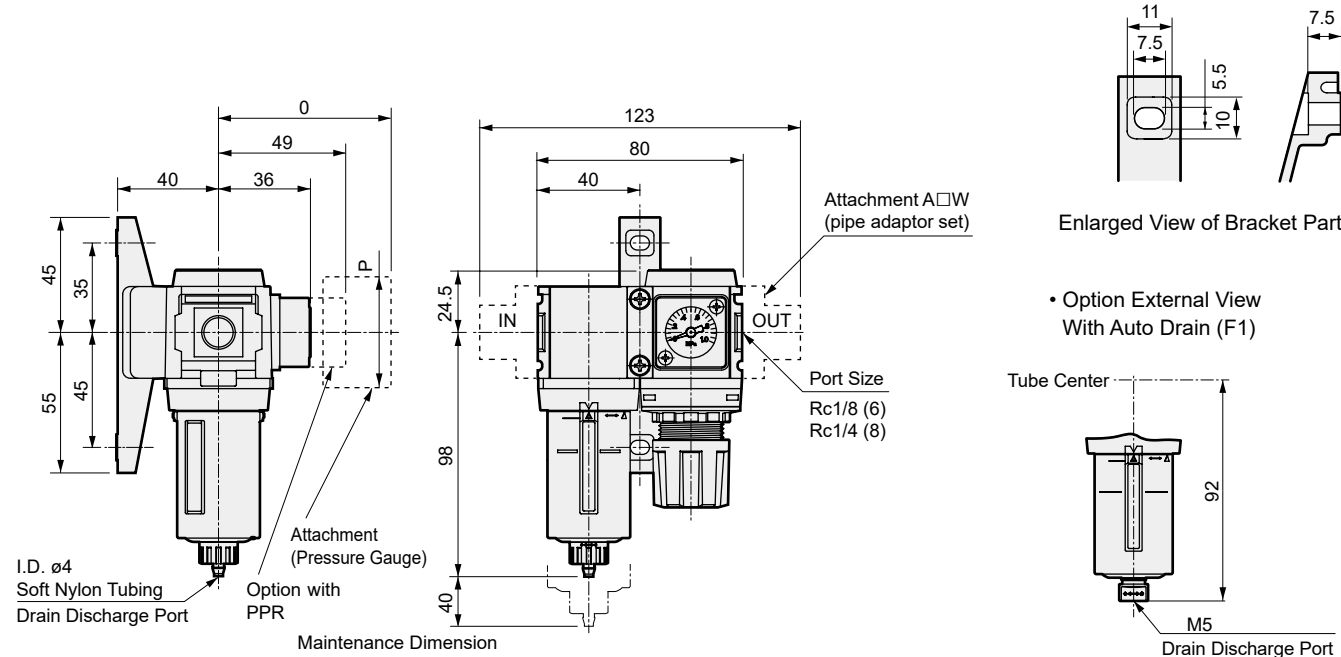
* Add to the weight of standard accessories. Unit : kg

Code	Drain Discharge				Bowl Material		Pressure Gauge		Piping Adapter 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 Attachment					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

Dimensions

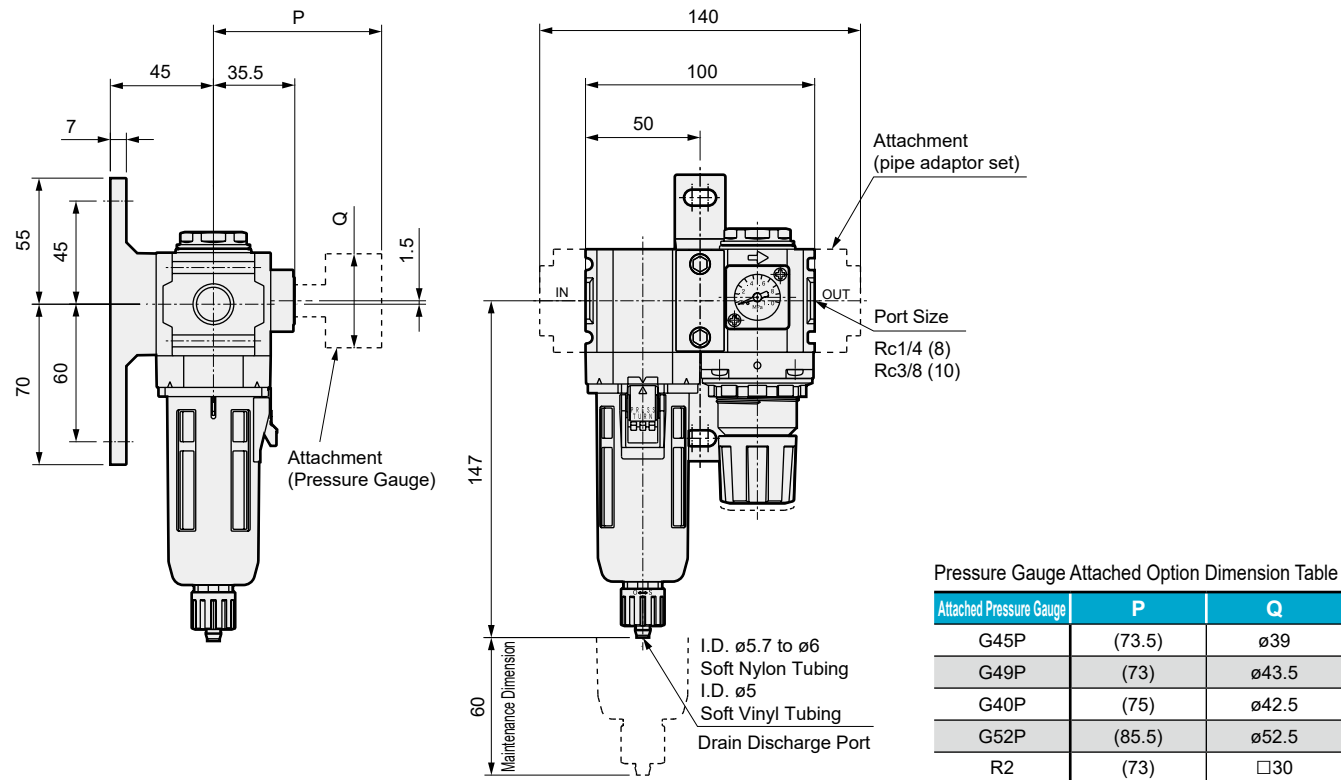
● C1020-W



Pressure Gauge Attached Option Dimension Table

Attached 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

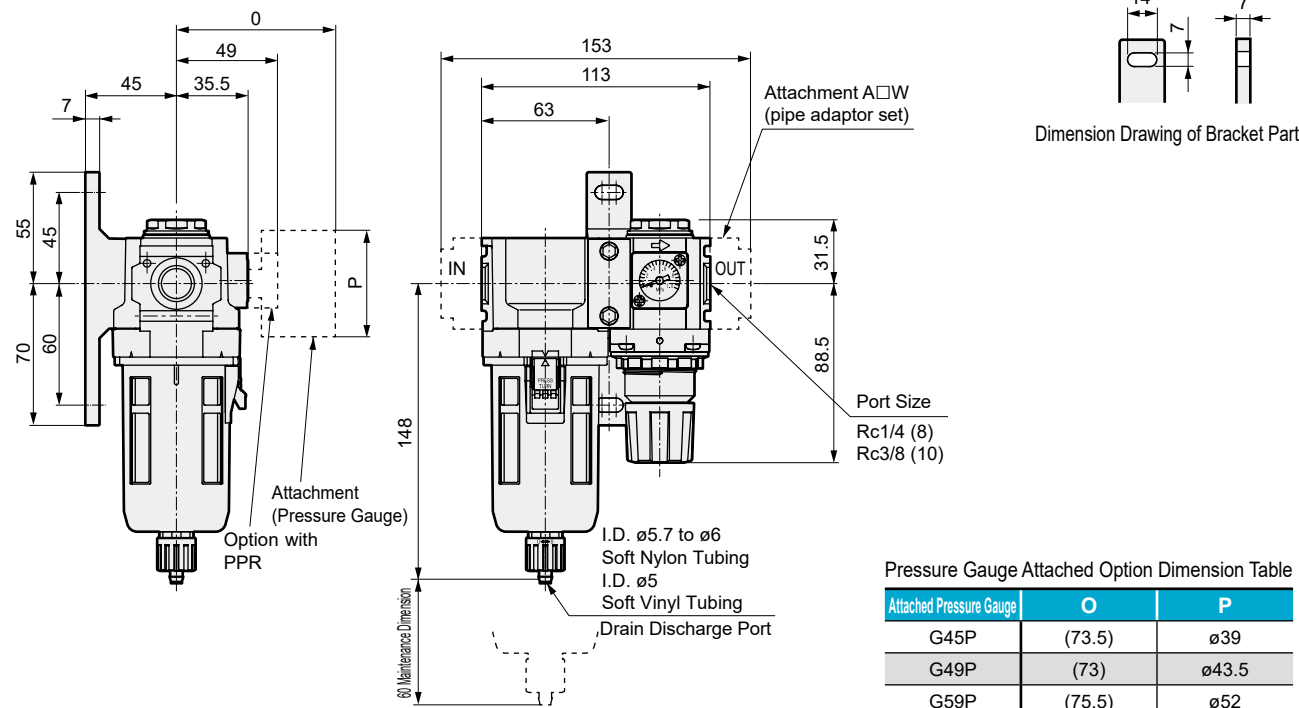


Pressure Gauge Attached Option Dimension Table

Attached 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

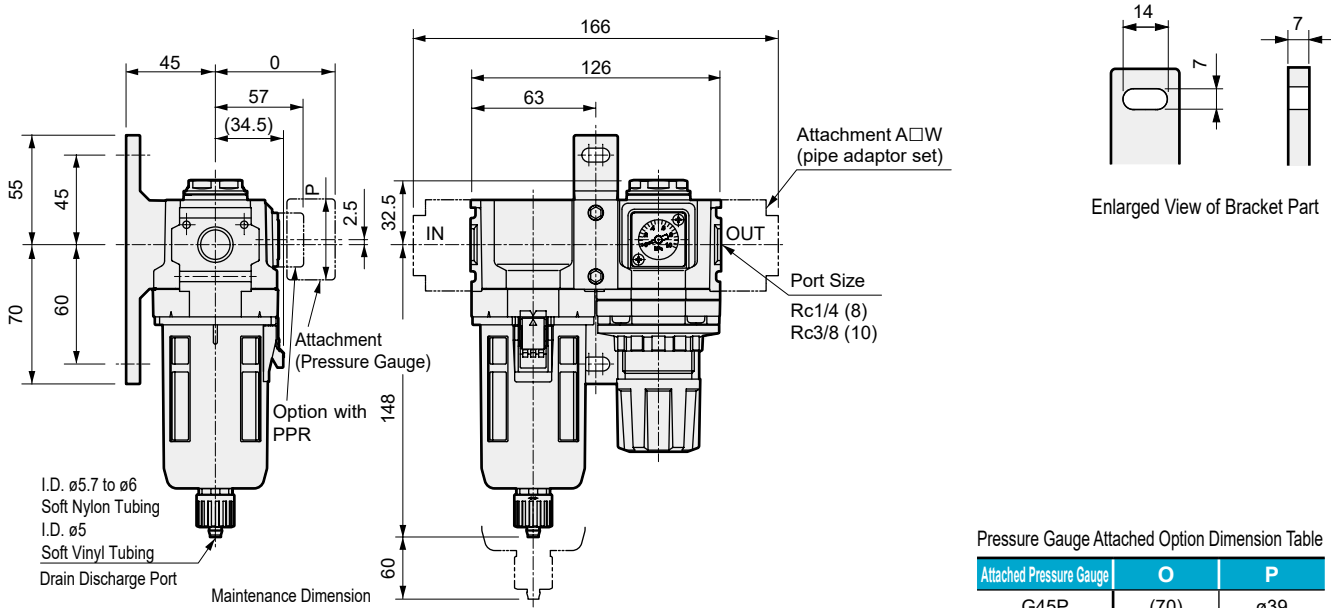
● C2520-W



Pressure Gauge Attached Option Dimension Table

Attached 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



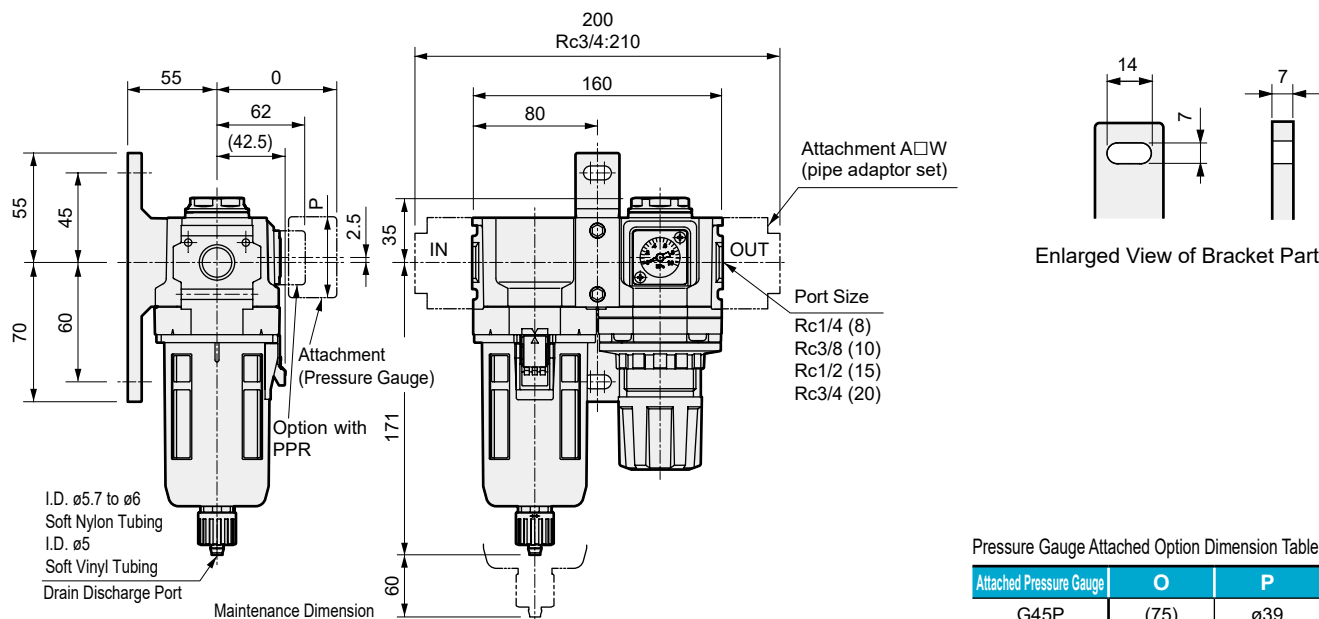
Pressure Gauge Attached Option Dimension Table

Attached 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

● For the optional dimensions of the metal bowl, see P. 125.

Dimensions

● C4020-W

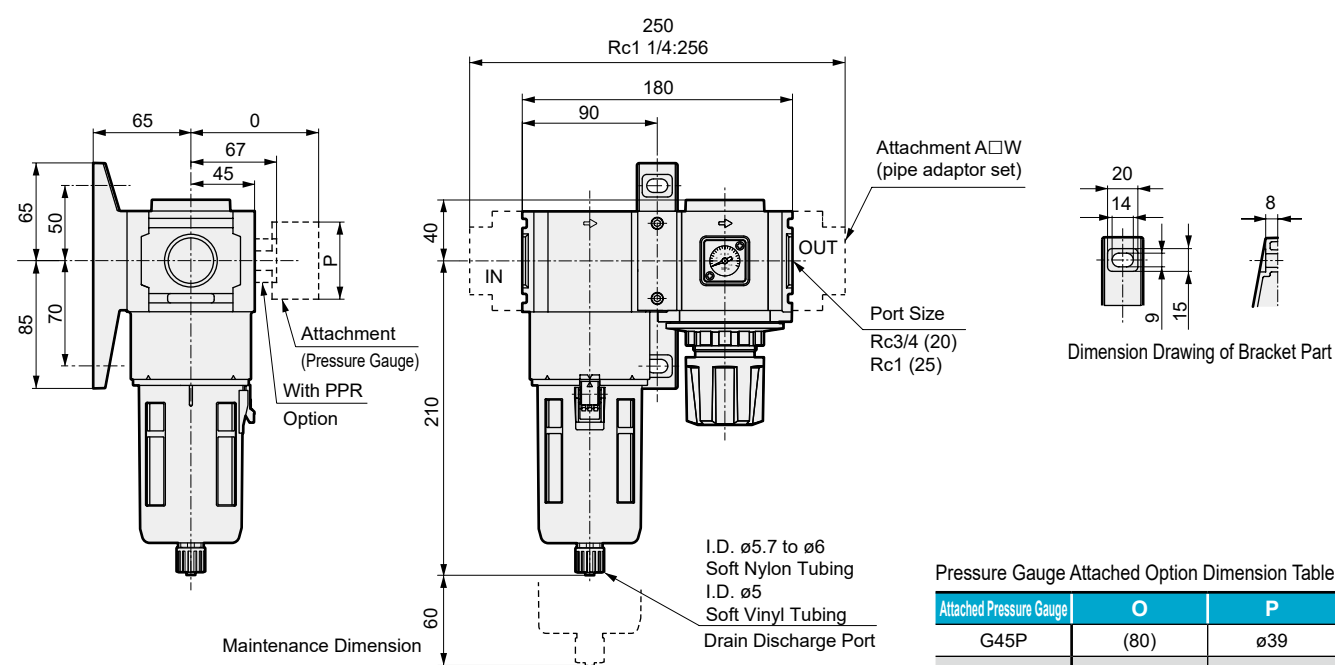


Pressure Gauge Attached Option Dimension Table

Attached 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

● For the optional dimensions of the metal bowl, see P. 125.

● C6020-W

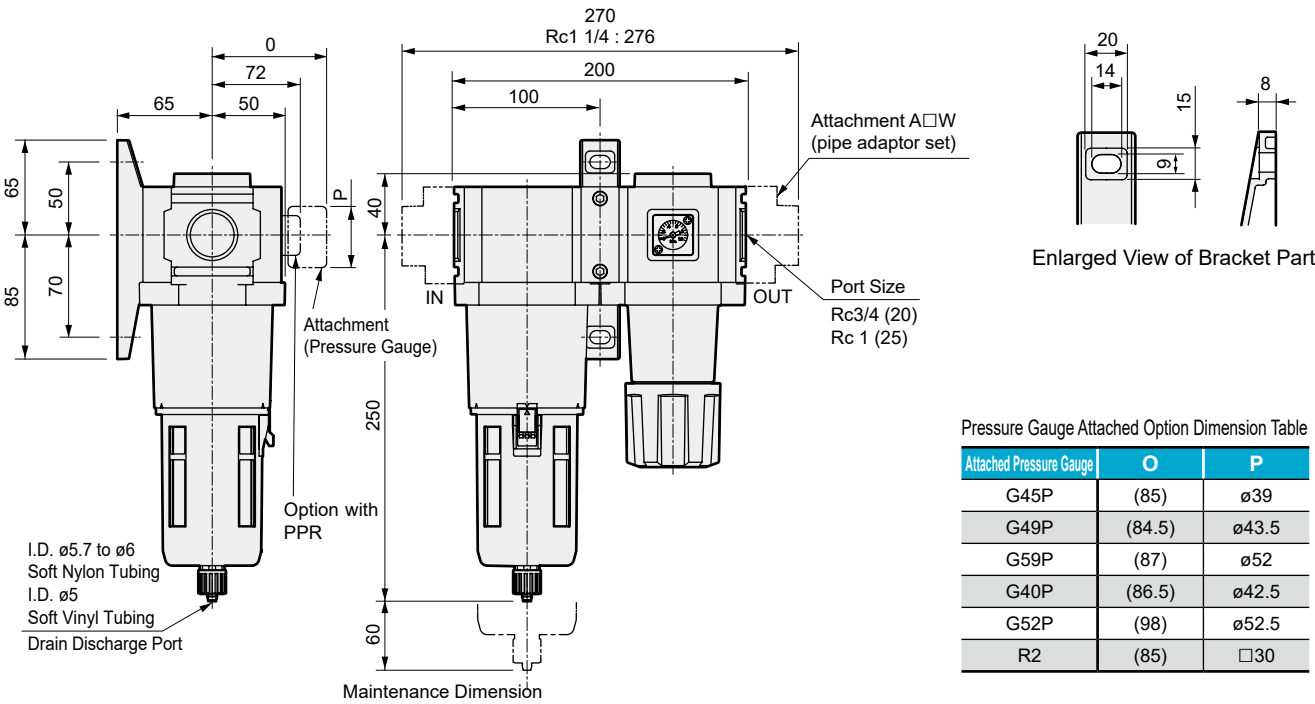


Pressure Gauge Attached Option Dimension Table

Attached 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



Pressure Gauge Attached Option Dimension Table

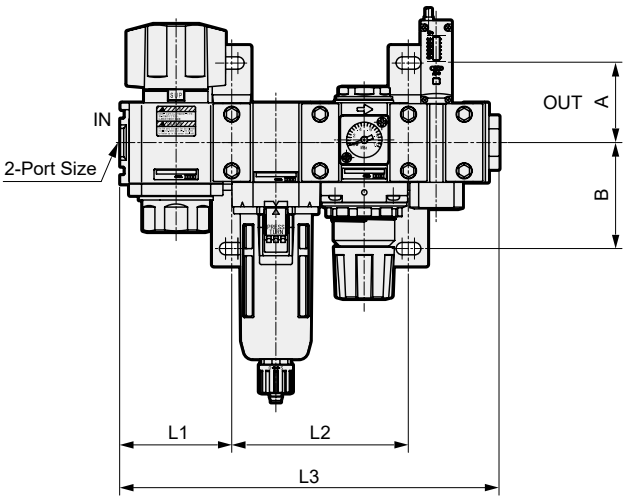
Attached Pressure Gauge	O	P
G45P	(85)	ø39
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G52P	(98)	ø52.5
R2	(85)	□30

● For the optional dimensions of the metal bowl, see P. 125.

Option Assembly External Dimensions

Option Assembly External Dimensions

● C1020-W to C8020-W



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

Assembly 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
Assembly 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	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 : Dimension from IN side end face to the center of T-type bracket mounting hole
L2 : Pitch dimension of mounting holes from 1st to 2nd T-type bracket
L3 : Dimension from IN side end face to OUT side end face

* For detailed bracket mounting hole dimensions, P. 532.
*1. Piping adapter is assembled on the OUT side.
Also, C4020-20-W has piping adapter A400-20-W assembled on both ends.

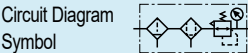
For maintenance parts, please visit the CKD Component Products Site
(<https://www.ckd.co.jp/kiki/en/>) → "model No." → Maintenance Parts.



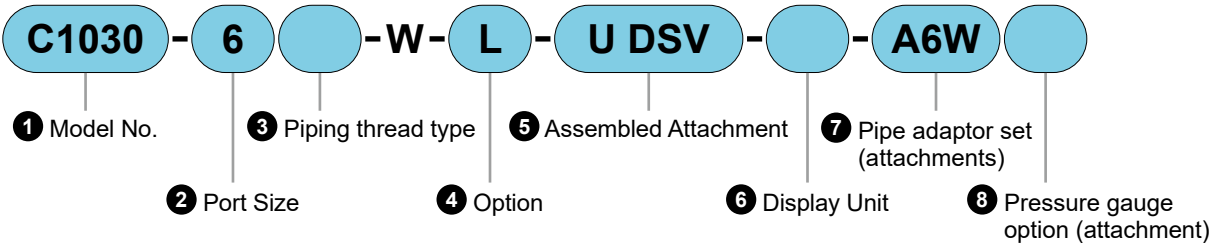
F.M.R. Combination/Standard White Series
C1030/C2030/C2530-W
C3030/C4030/C6030/C8030-W Series

Filter, Oil Mist Filter, and Regulator Integrated.

● Port Size : 1/8 to 1



Model No. Notation



		① Model No.						
Code	Content	C1030	C2030	C2530	C3030	C4030	C6030	C8030
6	1/8	●						
8	1/4	●	●	●	●	●		
10	3/8		●	●	●	●		
15	1/2					●		
20	3/4					●	●	●
25	1						●	●

*1 : Pipe adapters (A400-20□-W) are assembled on both ends of the C4030-20□-W. There is no need to select "A20□W" for the ⑦ piping adapter set.

④ Option			*1
Type	Code	Content	
Drain Discharge	Blank	With Manual Drain Cock	
	F	Auto Drain with Manual Override (NO Type : Exhaust when not pressurized) (C2530 to C8030 Series)	
	F1	Auto Drain with Manual Override (NC Type : No discharge when not pressurized)	
	FF	Large auto-drain with manual override (NO : Exhaust when not pressurized) (C8030 Series)	
	FF1	Large auto-drain with manual override (NC : No exhaust when not pressurized) (C8030 Series)	
Bowl Material	Blank	Polycarbonate Bowl	
	Z	Nylon Bowl	
	M	Metal bowl (C2530 to C8030 Series)	
	M1	Metal bowl with manual drain cock (C2030 to C8030 Series)	
Element	Blank	5 μm	
	Y	0.3 μm (submicron) (C2530 to C8030 Series)	*4
Differential pressure detection	Blank	No Differential Pressure Detection Port	
	Q	With differential pressure detection port (Rc1/4) (C6030, C8030 Series)	

Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

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

Type	Code	Content	
Pressure Range :	Blank	0.05 to 0.85 MPa	
	L	0.05 to 0.35 MPa	*5
Relief	Blank	With Relief Mechanism	
	N	Non-relief Type	
Pressure Gauge	Blank	Standard Pressure Gauge (with G401-W)	
	T	No Pressure Gauge (Pressure Gauge Mounting Port (1/4) is sealed when assembled)	
	T8	For Attaching Pressure Gauge (Pressure Gauge Mounting Port (1/4) is vented when assembled)	
	T6	Digital pressure sensor PPX attachment option	*6
	RN	Pressure switch with display, PPR assembled (NPN output 1 point) (C1030, C2530 to C8030 Series)	
Flow Direction	Blank	Standard Flow (Left → Right)	
	X1	Reverse Flow (Right → Left)	

*1 : Select options for the drainage, bowl material, element, differential pressure detection, and Regulators Items. When selecting options across multiple items, list them in order from the top.
*2 : For the auto-drain usage conditions, P. 540.
*3 : When option code "F" is selected, the NO auto-drain is attached for the Air Filters and the NC auto-drain is attached for the oil mist filter. For "FF", "FF1", only the filter regulator has large discharge volume, and the oil mist filter has standard NC type auto drain.
*4 : The max. processing flow rate when option "Y" is selected is P. 121.
*5 : For option "L", the pressure gauge display range is 0 to 0.4 MPa.
*6 : If option "T6" is selected, ③ Pressure Gauge Option (included) can only be selected as "Blank" or "R2". The digital pressure sensor PPX mounting port (Rc1/8) is assembled in a vented condition.

F.M.R. Combination

Model No. Notation

Food Manufacturing Process Compliant Specification (Catalog No. CC-1271AA)

• Uses food-grade lubricant usable in food manufacturing processes, and resin/rubber materials conforming to the Food Sanitation Act

C□030 - - FP□

*For a description of the options, see P. 28.

⑤ Assembled Attachment

For details, see P. 188 to P. 193, P. 204 to P. 211, P. 534 and P. 535.

Code		Content
Blank		No Assembled Attachment Type
U		Assembled Attachment Type
Assembly	D	Distributor (D101-W, D401-W, D801-W)
	S	Pressure switch (P1100-W, 4100-W, 8100-W)
	P	Pressure switch (P4000-W) (C2030 to C4030 Series)
	V	Residual pressure exhaust valve (V1000-W, V3000-W) (C1030 to C4030 Series)
	K	Residual pressure exhaust valve with locking hole (V3010-W, V6010-W) (C2030 to C8030 Series)

*1 : Installation position for assembled components

Code	Attachment Mounting Position	Applicable Model
D	F + M + (D) + R	C1030-W to C8030-W
S or P	F + M + R + (S, P)	C1030-W to C8030-W ("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)

Indicate "U"+"D", "S", "P", "V" and "K" when selecting an assembled component.
For combinations other than the above, please use the Custom Combination Specification Sheet.

⑥ Display Unit

Code	Content
Blank	MPa, °C Display (Rc Thread) psi, °F Display (NPT Thread) bar, °C Display (G Thread)
J1	MPa, °C Display (NPT Thread, G Thread)

*1 : When assembly option "P" or "S" is selected or pressure gauge option "RN" or "RP" is selected, the pressure switch display unit will be MPa regardless of the display unit option code.

⑦ Pipe adaptor set (attachments)

For details, see P. 536.

		① Model No.						
Code	Content	C1030	C2030	C2530	C3030	C4030	C6030	C8030
Blank	None Attached	●	●	●	●	●	●	●
A6□W	1/8 Piping Adapter Set	●						
A8□W	1/4 Piping Adapter Set	●	●	●	●	●		
A10□W	3/8 Piping Adapter Set	●	●	●	●	●		
A15□W	1/2 Piping Adapter Set		●	●	●	●		
A20□W	3/4 Piping Adapter Set					●	●	●
A25□W	1 Piping Adapter Set						●	●
A32□W	1 1/4 Piping Adapter Set						●	●

*1 : The piping adapter set comes with a joiner set.

*Adapter Thread Type

Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

⑧ Pressure gauge option (attachment)

For details, see P. 545.

Code	Content
Blank	None Attached
G45P	G45D-8-P10 (L : G45D-8-P04)
G49P	G49D-8-P10 (L : G49D-8-P04)
G59P	G59D-8-P10 (L : G59D-8-P04)

Code	Content
G40P	G40D-8-P10 (L : G40D-8-P04)
G52P	G52D-8-P10 (L : G52D-8-P10)
R2	Digital Pressure Sensor : PPX-R10N-6M

*1 : The pressure gauge option (included) can be selected only when ③ Port thread is Rc thread.
*2 : C2030 Series is G59D-8-P10 (L : G59D-8-P04) cannot be selected.

Specifications

Item		C1030-W	C2030-W	C2530-W	C3030-W	C4030-W	C6030-W	C8030-W
Appearance								
Components	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
Operating Fluid		Compressed Air						
Max. operating pressure MPa		1.0 *3						
Proof Pressure MPa		1.5						
Ambient/Fluid Temperatures °C		5 to 60						
Set Pressure MPa		0.05 to 0.85 *3	0.05 to 0.85					
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	0.40	0.98	1.02	1.10	1.86	3.19	4.45
Secondary side 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) L/min		150	250	360	360	825	1270	2600

*1 : Maximum flow rate is at primary pressure 0.7 MPa. In addition, the max. flow rate of element option "Y" is P. 121 .
*2 : Pressure switch with display PPR assembly "RN"The ambient/fluid temperature of "RP" and "R2" with Digital Pressure Sensors PPX 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. operating pressure is 0.7 MPa. Max. operating flow rate of M1000-W-F1 with auto-drain is shown in the max. operating flow rate table (P. 134).
*4 : For details on other oil mist filters, see P. 130.
*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 Table

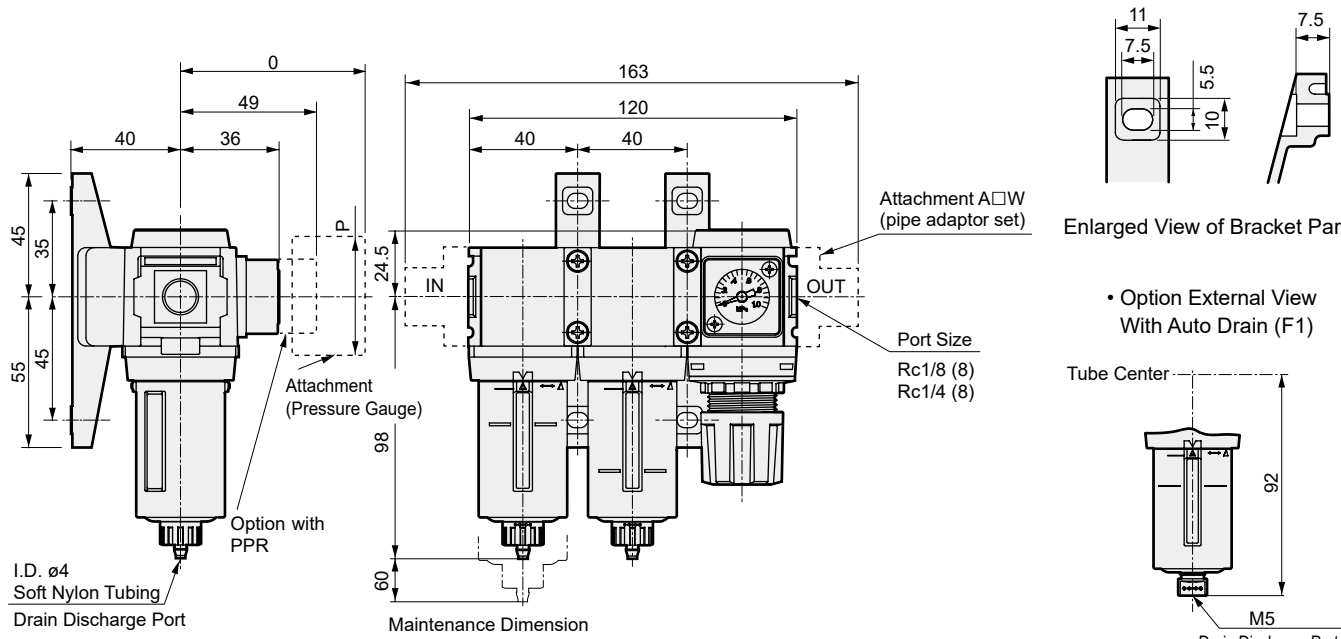
* Add to the weight of standard accessories.

Code	Drain Discharge				Bowl Material		Pressure Gauge		Piping Adapter 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 Attachment					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

Dimensions

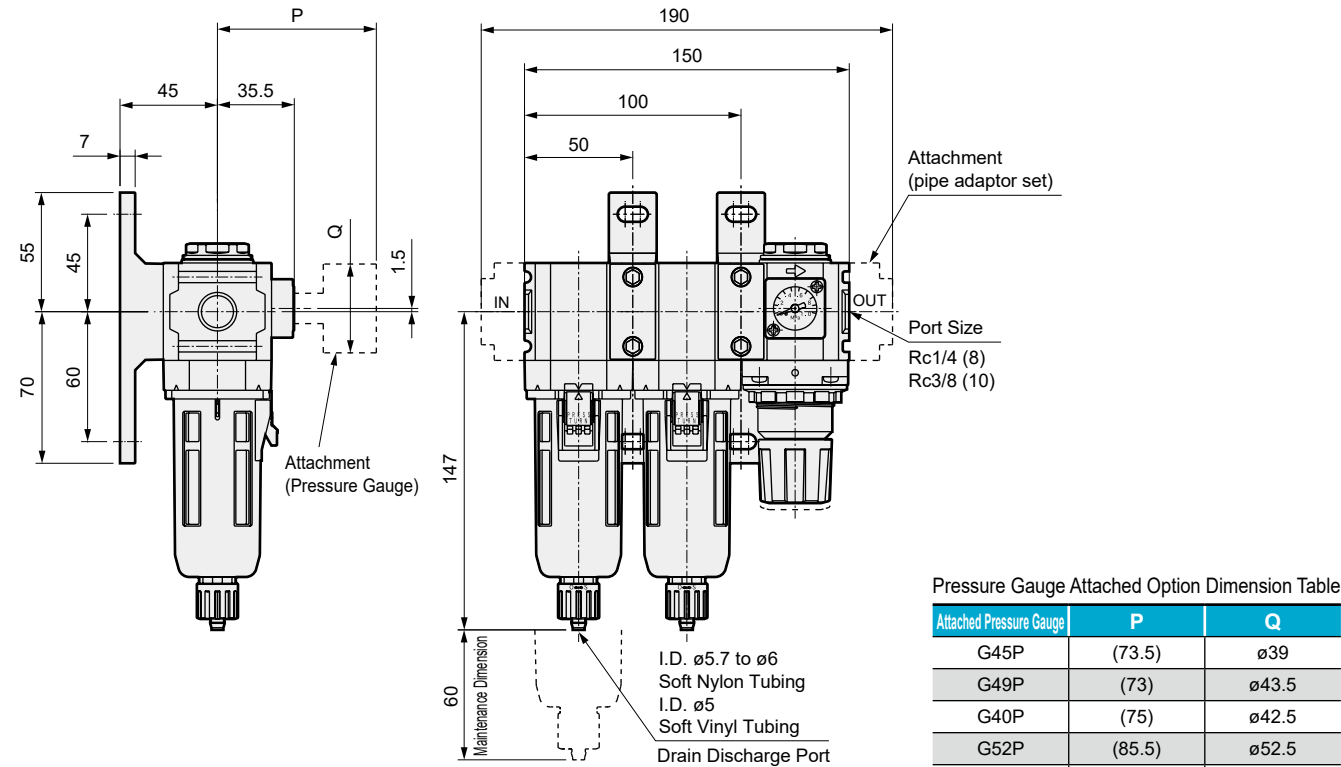
● C1030-W



Pressure Gauge Attached Option Dimension Table

Attached 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

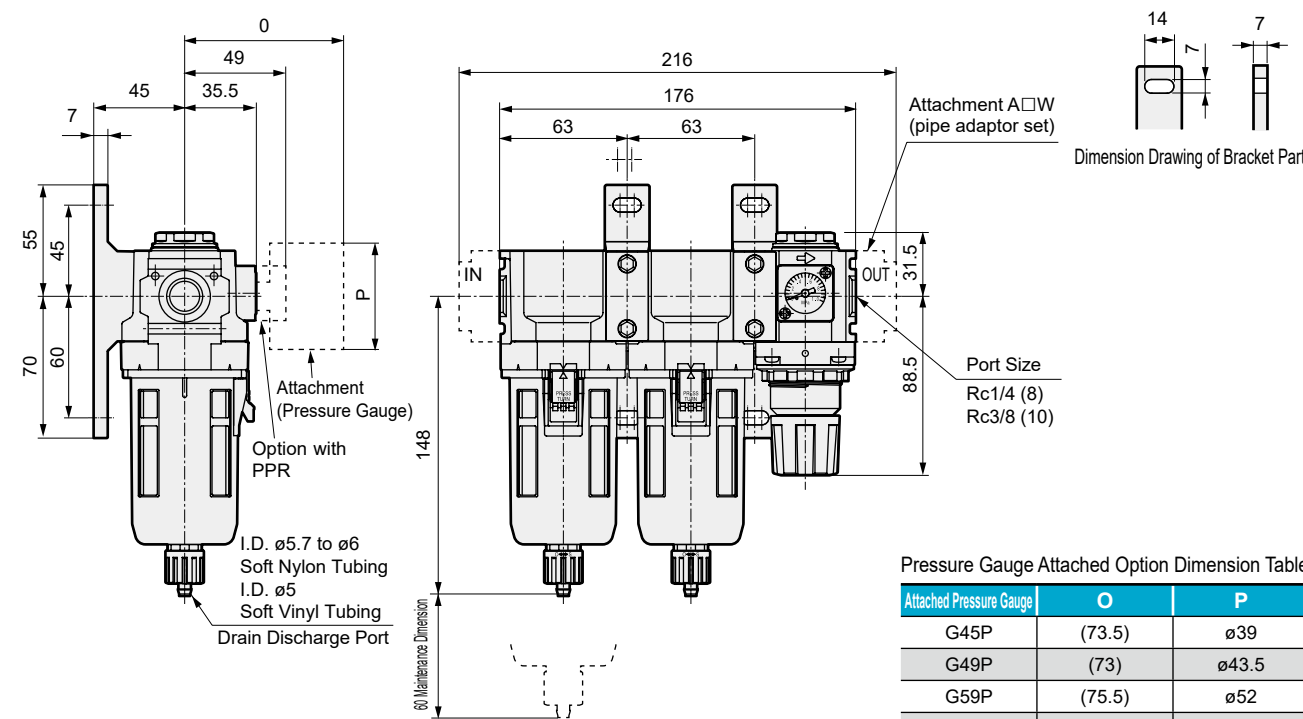


Pressure Gauge Attached Option Dimension Table

Attached 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

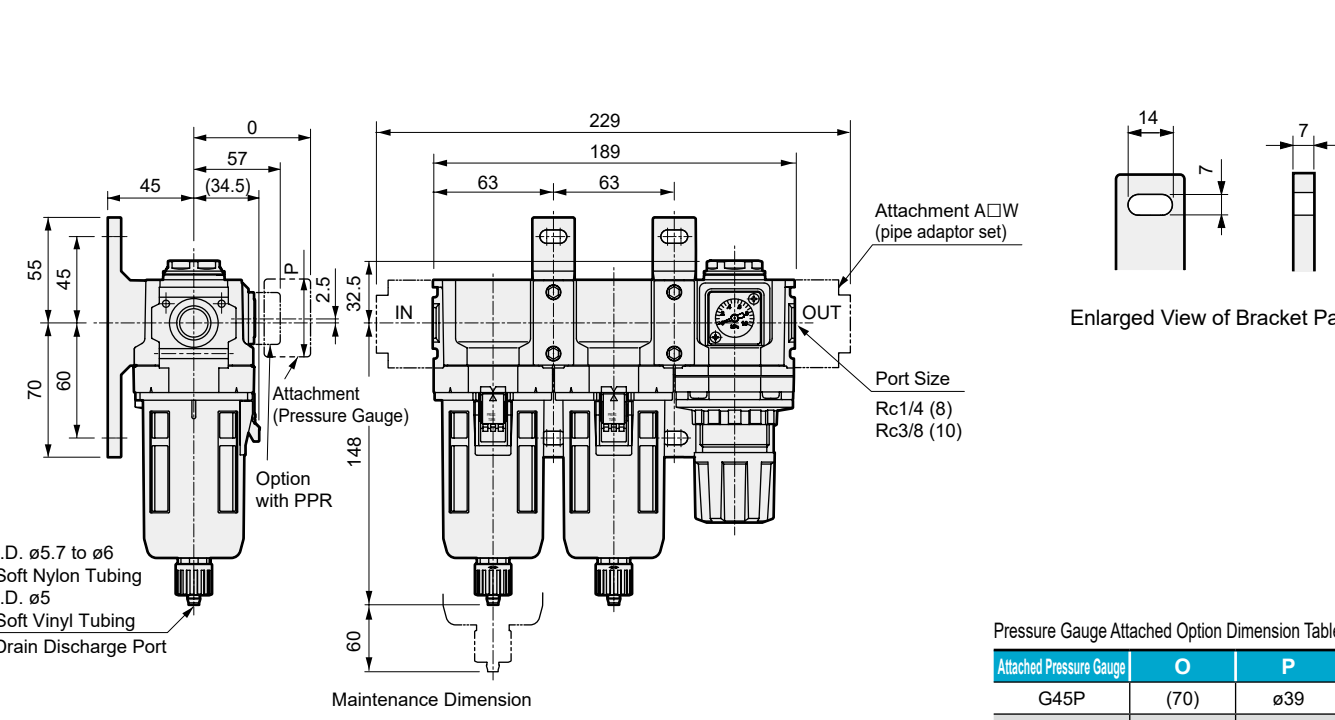
● C2530-W



Pressure Gauge Attached Option Dimension Table

Attached 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



Pressure Gauge Attached Option Dimension Table

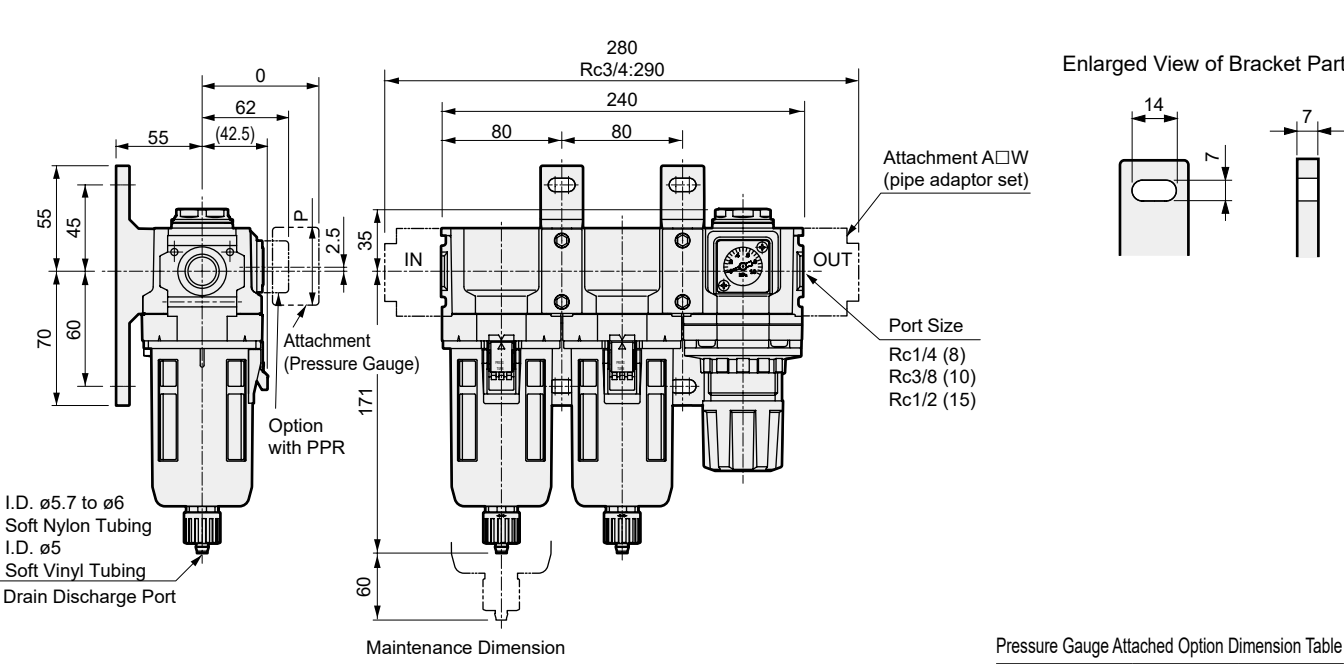
Attached Pressure Gauge	O	P
G45P	(70)	ø39
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G52P	(82)	ø52.5
R2	(69.5)	□30

● For metal bowl option dimensions,
Filter section : P. 125, Oil mist filter : P. 138.

Dimensions

Dimensions

● C4030-W

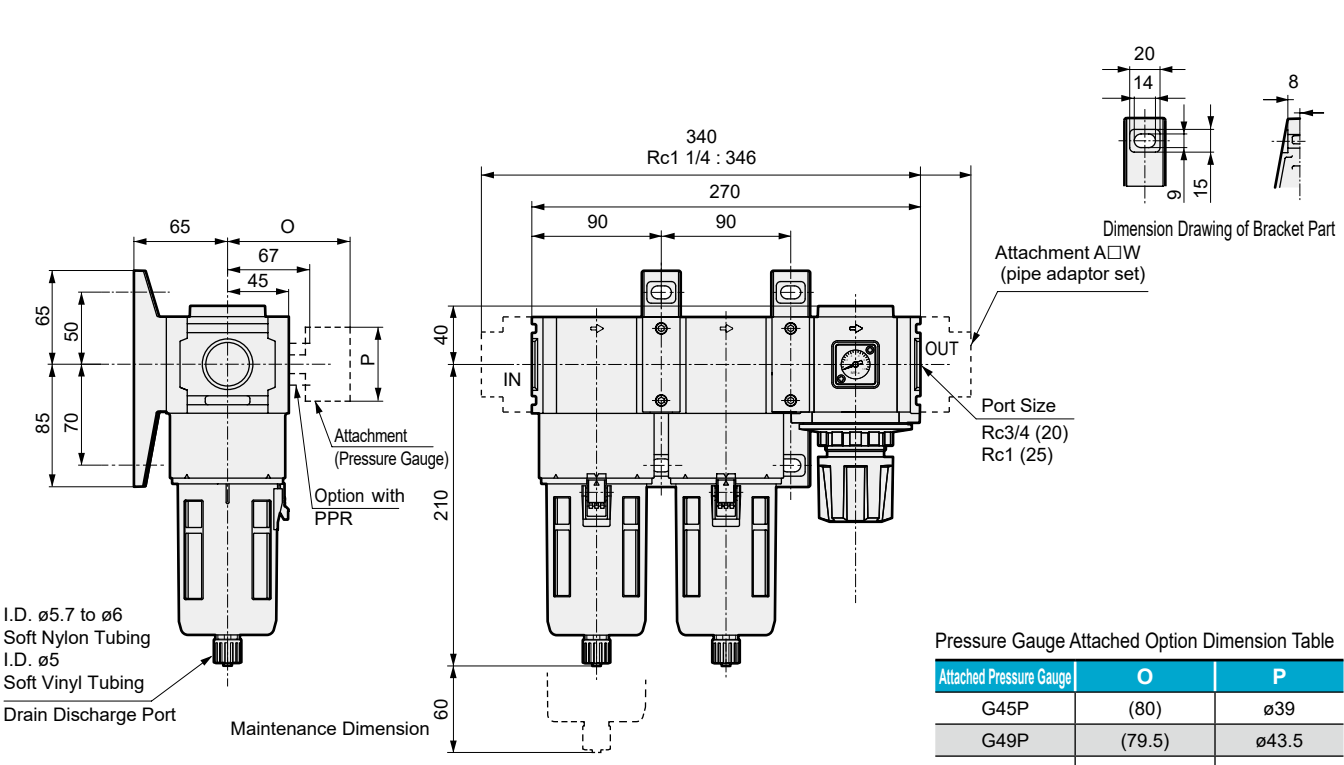


Pressure Gauge Attached Option Dimension Table

Attached 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

● For metal bowl option dimensions,
Filter section : P. 125, Oil mist filter : P. 138.

● C6030-W

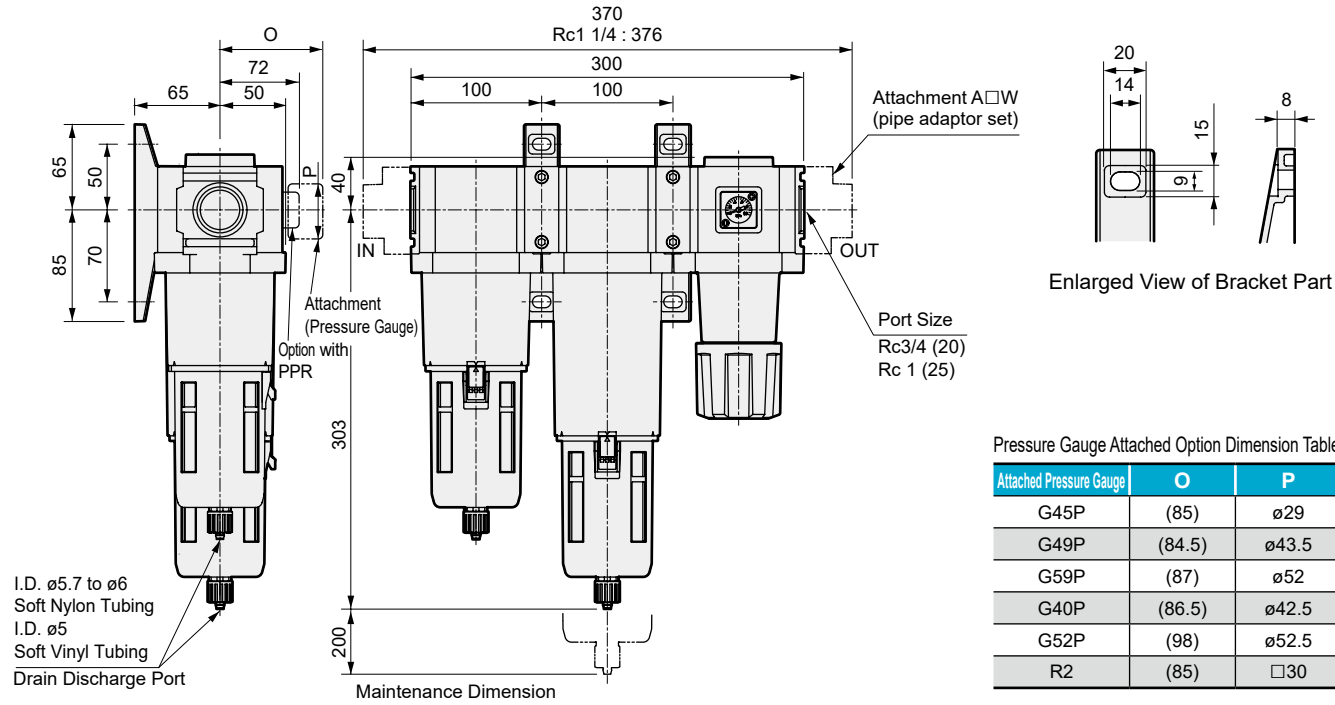


Pressure Gauge Attached Option Dimension Table

Attached 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



● For metal bowl option dimensions,
Filter section : P. 125, Oil mist filter : P. 138.

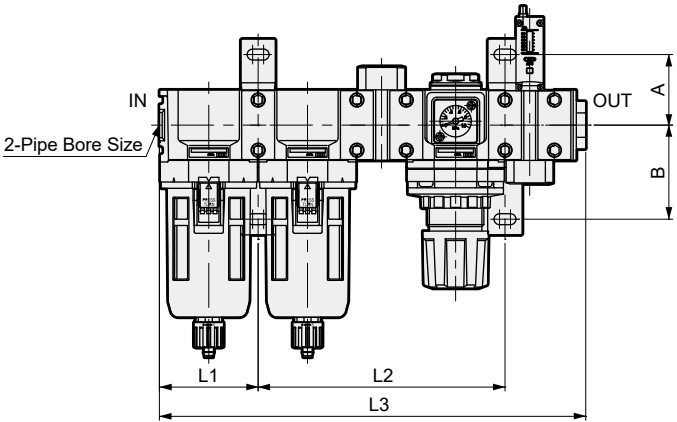
Pressure Gauge Attached Option Dimension Table

Attached 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

Option Assembly External Dimensions

Option Assembly External Dimensions

● C1030-W to C8030-W



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

Assembly 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
Assembly 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 : Dimension from IN side end face to the center of T-type bracket mounting hole
L2 : Pitch dimension of mounting holes from 1st to 2nd T-type bracket
L3 : Dimension from IN side end face to OUT side end face

* For detailed bracket mounting hole dimensions, P. 532.
*1. Piping adapter is assembled on the OUT side.
Also, C4030-20-W has piping adapter A400-20-W assembled on both ends.

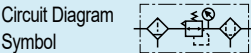
For maintenance parts, please visit the CKD Component Products Site
(<https://www.ckd.co.jp/kiki/en/>) → "model No." → Maintenance Parts.



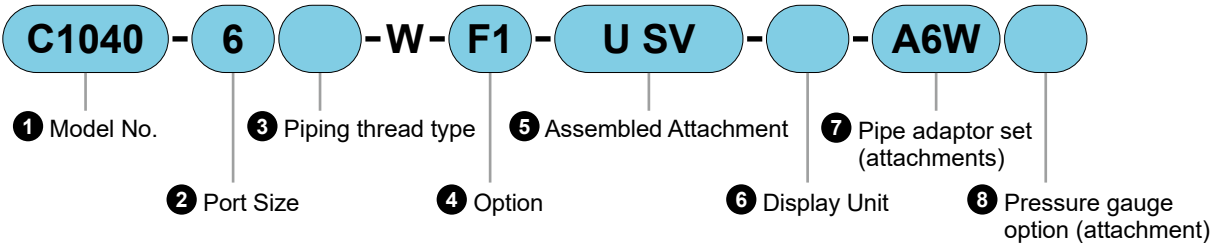
W.M. Combination Standard White Series
C1040/C2040/C3040/C4040/C8040-W Series

Filter Regulator and Oil Mist Filter Integrated.

● Port Size : 1/8 to 1



Model No. Notation



		1 Model No.					
		C1040	C2040	C3040	C4040	C8040	
2Port Size	Code	Content					
	6	1/8	●				
	8	1/4	●	●	●	●	
	10	3/8		●	●	●	
	15	1/2				●	
	20	3/4				●	●
	25	1					●

*1 : Pipe adapters with the C4040-20 □-W are assembled on both ends of the A400-20 □-W. There is no need to select "A20□W" for the piping adapter set.

2 Port Size			4 Option	
Type	Code	Content		
Drain Discharge	Blank	With Manual Drain Cock		
	F	Auto Drain with Manual Override (NO Type : Exhaust when not pressurized) (C3040 to C8040 Series)		
	F1	Auto Drain with Manual Override (NC Type : No discharge when not pressurized)		
	FF	Large auto-drain with manual override (NO : Exhaust when not pressurized) (C8040 Series)		
	FF1	Large auto-drain with manual override (NC : No exhaust when not pressurized) (C8040 Series)		
Bowl Material	Blank	Polycarbonate Bowl		
	Z	Nylon Bowl		
	M	Metal bowl (C3040 to C8040 Series)		
	M1	Metal bowl with manual drain cock (C2040 to C8040 Series)		
Element	Blank	5 μm		
	Y	0.3 μm (submicron) (C3040 to C8040 Series)		
Differential pressure detection	Blank	No Differential Pressure Detection Port		
	Q	With differential pressure detection port (Rc1/4) (C8040 Series)		
Pressure Range	Blank	0.1 to 0.85 MPa		
	L	0.1 to 0.35 MPa		

3 Piping thread type	
Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

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

Type	Code	Content
Relief	Blank	With Relief Mechanism
	N	Non-relief Type
Pressure Gauge	Blank	Standard Pressure Gauge (with G401-W)
	T	No Pressure Gauge (Pressure Gauge Mounting Port (1/4) is sealed when assembled)
	T8	For Attaching Pressure Gauge (Pressure Gauge Mounting Port (1/4) is vented when assembled)
	T6	Digital pressure sensor PPX attachment option
	RN	Pressure switch with display, PPR assembled (NPN output 1 point) (C1040, C3040 to C8040 Series)
	RP	Pressure switch with display, PPR assembled (PNP output 1 point) (C1040, C3040 to C8040 Series)
Flow Direction	Blank	Standard Flow (Left → Right)
	X1	Reverse Flow (Right → Left)

*1 : Select options for the drainage, bowl material, element, differential pressure detection, and Regulators Items. When selecting options across multiple items, list them in order from the top.
*2 : For the auto-drain usage conditions, P. 540 .
*3 : When option code "F" is selected, the NO auto-drain is included with the filter Regulators 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/Regulators oil mist filter. For "FF", "FF1", only the filter regulator has large discharge volume, and the oil mist filter has standard NC type auto drain.
*4 : The max. processing flow rate when option "Y" is P. 121.
*5 : For option "L", the pressure gauge display range is 0 to 0.4 MPa.
*6 : If option "T6" is selected, 3 Pressure Gauge Option (included) can only be selected as "Blank" or "R2". The digital pressure sensor PPX mounting port (Rc1/8) is assembled in a vented condition.

W.M. Combination
Model No. Notation

Food Manufacturing Process Compliant Specification (Catalog No. CC-1271AA)

● Uses food-grade lubricant usable in food manufacturing processes, and resin/rubber materials conforming to the Food Sanitation Act

C□040 - - FP□

* For a description of the options, see P. 28 .

5 Assembled Attachment

For details, see P. 188 to P. 193, P. 204 to P. 211, P. 534 and P. 535.

Code		Content
Blank		No Assembled Attachment Type
U		Assembled Attachment Type
Assembly	S	Pressure Switch (P1100-W, 4100-W, 8100-W)
	P	Pressure switch (P4000-W) (C2040 to C4040 Series)
	V	Residual pressure exhaust valve (V1000-W, 3000-W) (C1040 to C4040 Series)
	K	Residual pressure exhaust valve with locking hole (V3010-W, V6010-W) (C2040 to C8040 Series)

*1 : Installation position for assembled components

Code	Attachment Mounting Position	Applicable 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)

Indicate "U"+"S", "P", "V" and "K" when selecting an assembled component. For combinations other than the above, please use the Custom Combination Specification Sheet.

6 Display Unit

Code	Content
Blank	MPa, °C Display (Rc Thread) psi, °F Display (NPT Thread) bar, °C Display (G Thread)
J1	MPa, °C Display (NPT Thread, G Thread)

*1 : When assembly option "P" or "S" is selected or pressure gauge option "RN" or "RP" is selected, pressure switch display units are displayed with MPa regardless of the display unit option code.

7 Pipe adaptor set (attachments)

For details, see P. 536.

		1 Model No.				
Code	Content	C1040	C2040	C3040	C4040	C8040
Blank	None Attached	●	●	●	●	●
A6□W	1/8 Piping Adapter Set	●				
A8□W	1/4 Piping Adapter Set	●	●	●	●	
A10□W	3/8 Piping Adapter Set	●	●	●	●	
A15□W	1/2 Piping Adapter Set		●	●	●	
A20□W	3/4 Piping Adapter Set				●	●
A25□W	1 Piping Adapter Set					●
A32□W	1 1/4 Piping Adapter Set					●

*1 : The piping adapter set comes with a joiner set.

Adapter Thread Type	
Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

8 Pressure gauge option (attachment)

For details, see P. 545.

Code	Content
Blank	None Attached
G45P	G45D-8-P10 (L : G45D-8-P04)
G49P	G49D-8-P10 (L : G49D-8-P04)
G59P	G59D-8-P10 (L : G59D-8-P04)

Code	Content
G40P	G40D-8-P10 (L : G40D-8-P04)
G52P	G52D-8-P10 (L : G52D-8-P10)
R2	Digital Pressure Sensor : PPX-R10N-6M

*1 : The Pressure Gauge Option (included) can only be selected when 3 Pipe Thread Type is Rc thread.
*2 : C2040 Series is G59D-8-P10 (L : G59D-8-P04) cannot be selected.

Specifications

Item		C1040-W	C2040-W	C3040-W	C4040-W	C8040-W
Appearance						
Components	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
Operating Fluid		Compressed Air				
Max. operating pressure MPa		1.0 *3				
Proof Pressure MPa		1.5				
Ambient/Fluid Temperatures °C		5 to 60 *2				
Set Pressure MPa		0.1 to 0.85 *3	0.1 to 0.85 *5 *6			
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 Side Oil Concentration		0.01mg/m ³ or less (0.1mg/m ³ or less after oil saturation)				
Max. flow rate (*1) L/min		150	250	360	825	2600

*1 : Max. flow rate is for the Regulators set pressure 0.7 MPa. In addition, the max. flow rate of element option "Y" is : P. 121 .
*2 : Pressure switch with display PPR assembly "RN" The ambient/fluid temperatures for "RP" and "R2" with Digital Pressure Sensors PPX attached are 5 to 50 °C.
*3 : When using C1040-W Series "F1" with auto-drain, the min. working pressure is 0.2 MPa and max. operating pressure is 0.7 MPa. The max. operating flow rate is the max. operating flow rate table of F1000-W-F1 with auto-drain (P. 121). Please keep the operating flow rate below the maximum operating flow rate value.
*4 : For details on other oil mist filters, see P. 130.
*5 : In the case of auto drain "F", the supply air pressure is 0.2 MPa or more. The minimum setting pressure is 0.15 MPa. The filter regulator auto drain has a supply air pressure of 0.1 MPa. Until 0.1 MPa is reached, air is purged together with the initial drainage.
*6 : In the case of auto drain "F1", the supply air pressure is 0.2 MPa or more. The minimum setting pressure is 0.15 MPa.

Option Weight Table

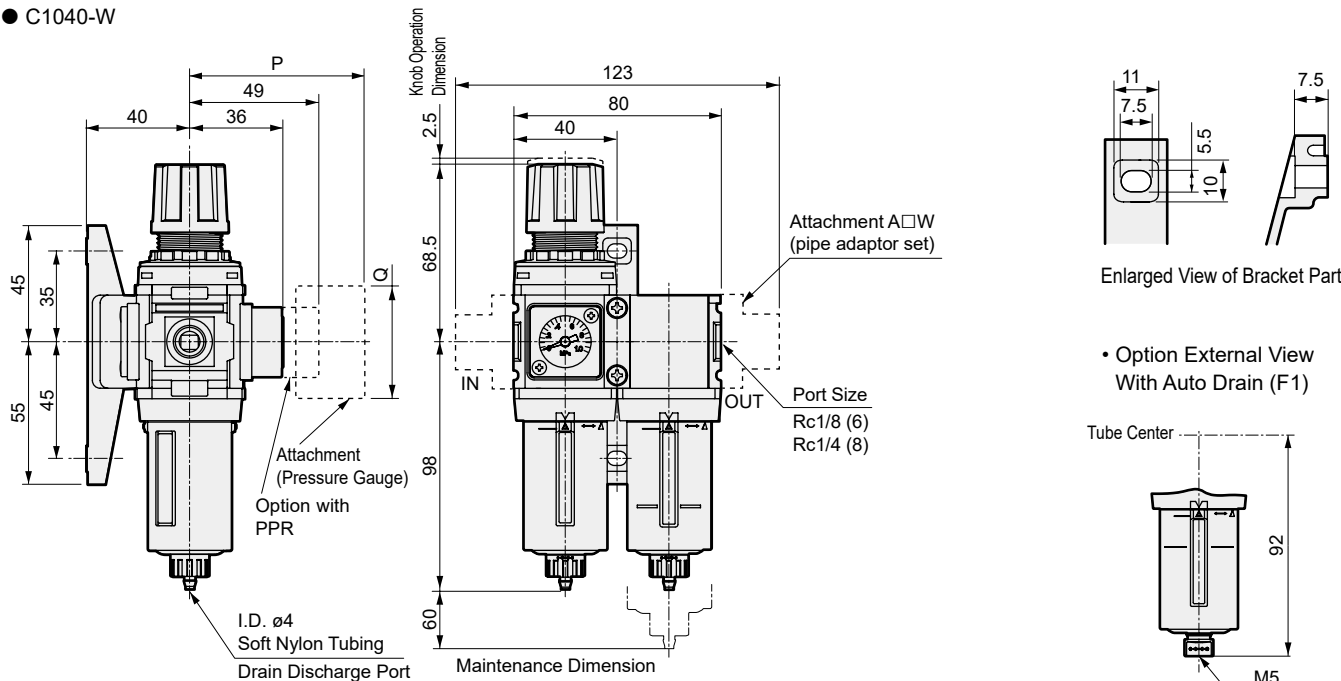
* Add to the weight of standard accessories. Unit : kg

Code	Drain Discharge				Bowl Material		Pressure Gauge		Piping Adapter 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	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 Attachment				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

Dimensions

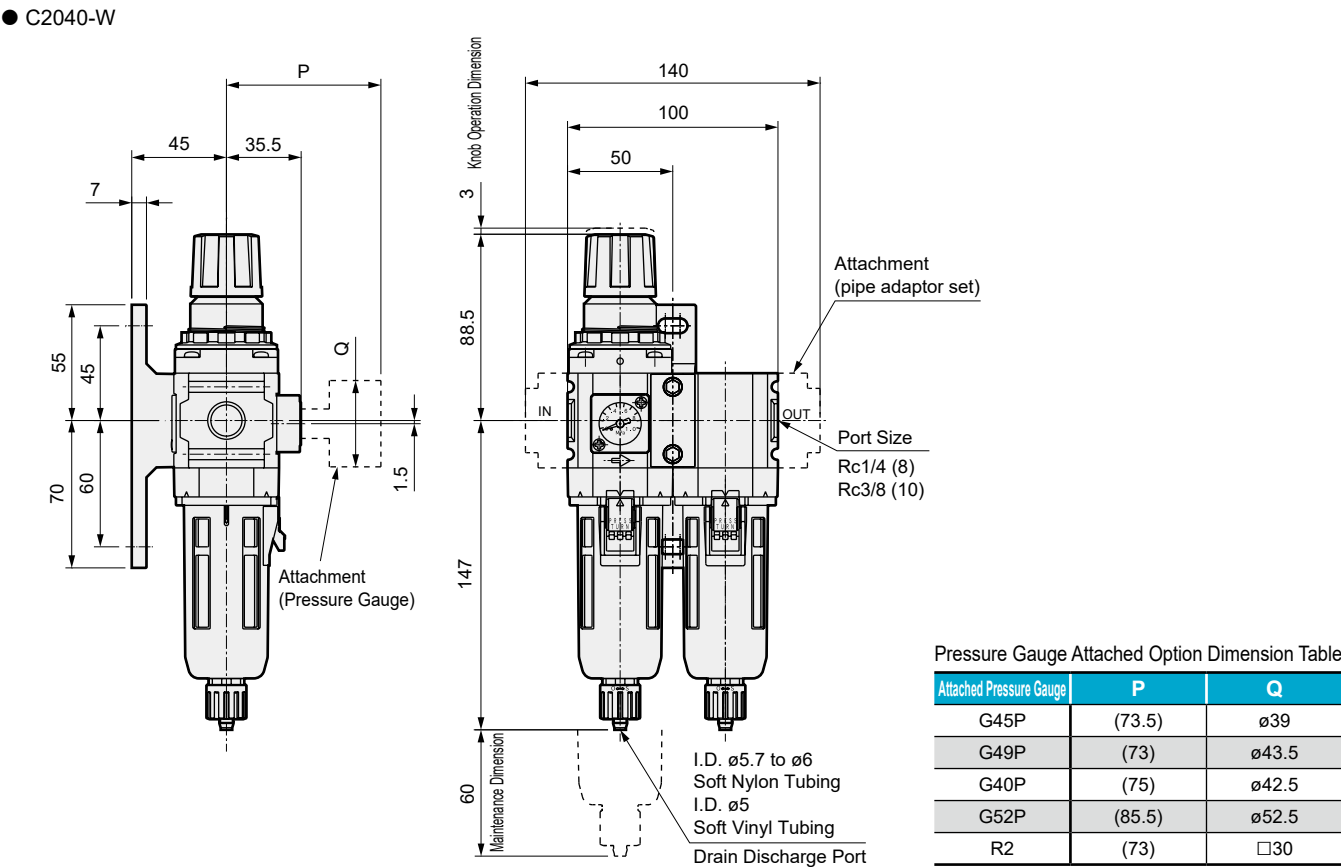
● C1040-W



Pressure Gauge Attached Option Dimension Table

Attached 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

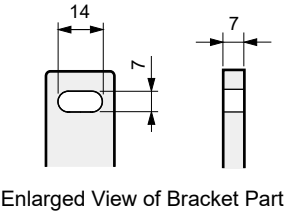
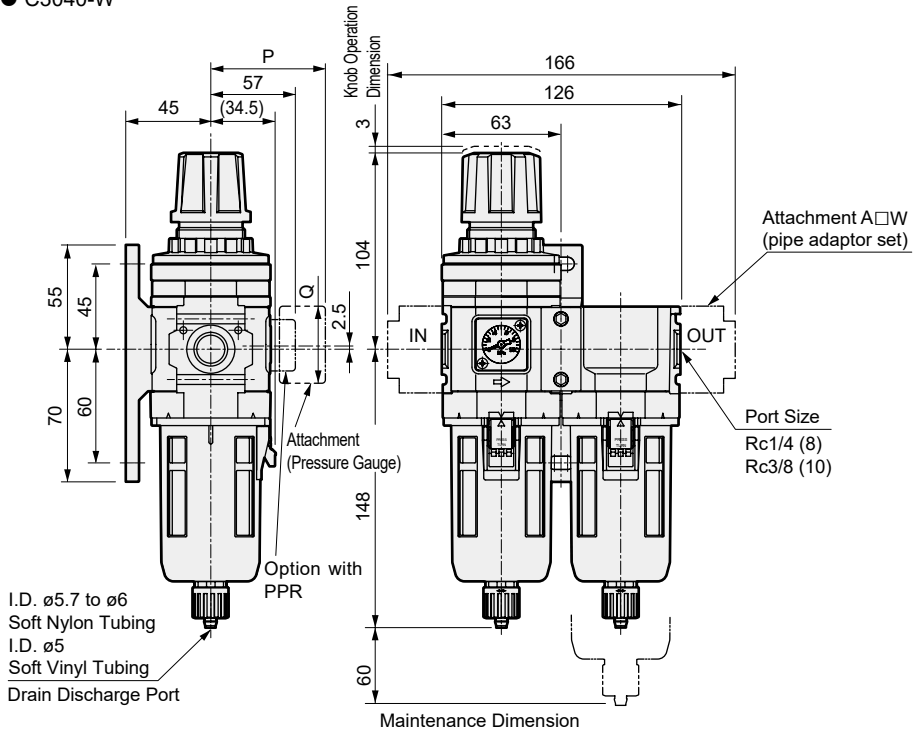


Pressure Gauge Attached Option Dimension Table

Attached 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

● C3040-W

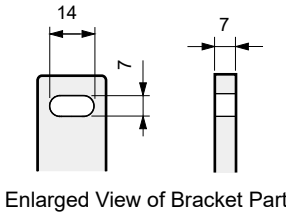
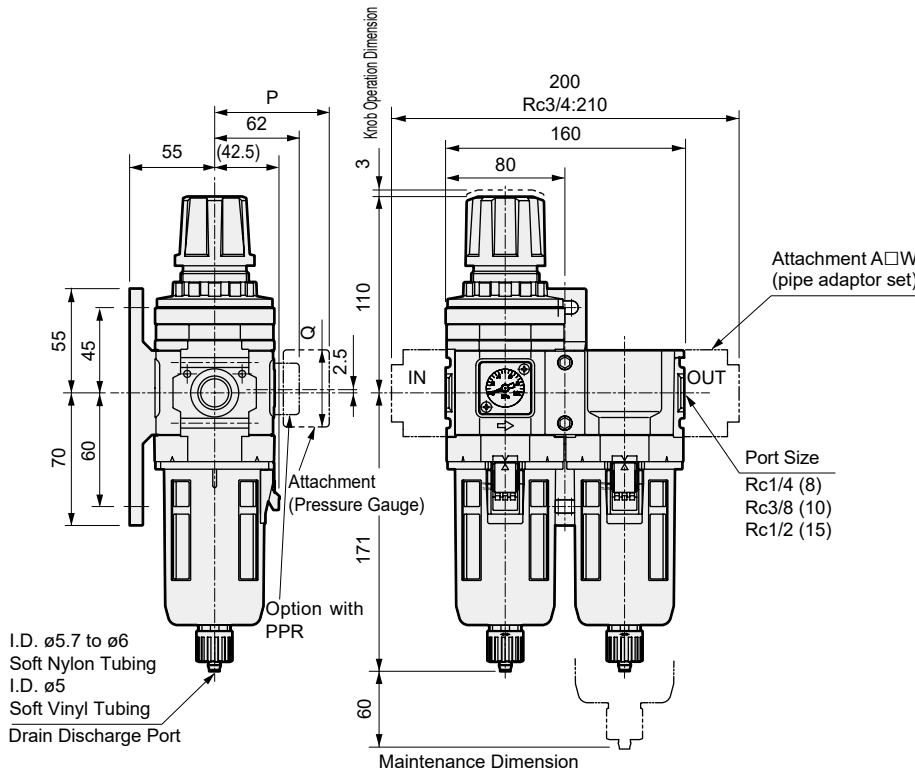


Pressure Gauge Attached Option Dimension Table

Attached 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

● For metal bowl option dimensions,
Filter Regulator section : P. 106 , Oil mist filter : P. 138.

● C4040-W



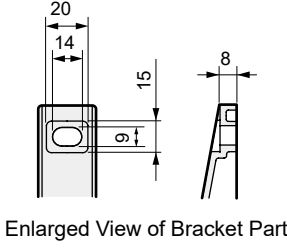
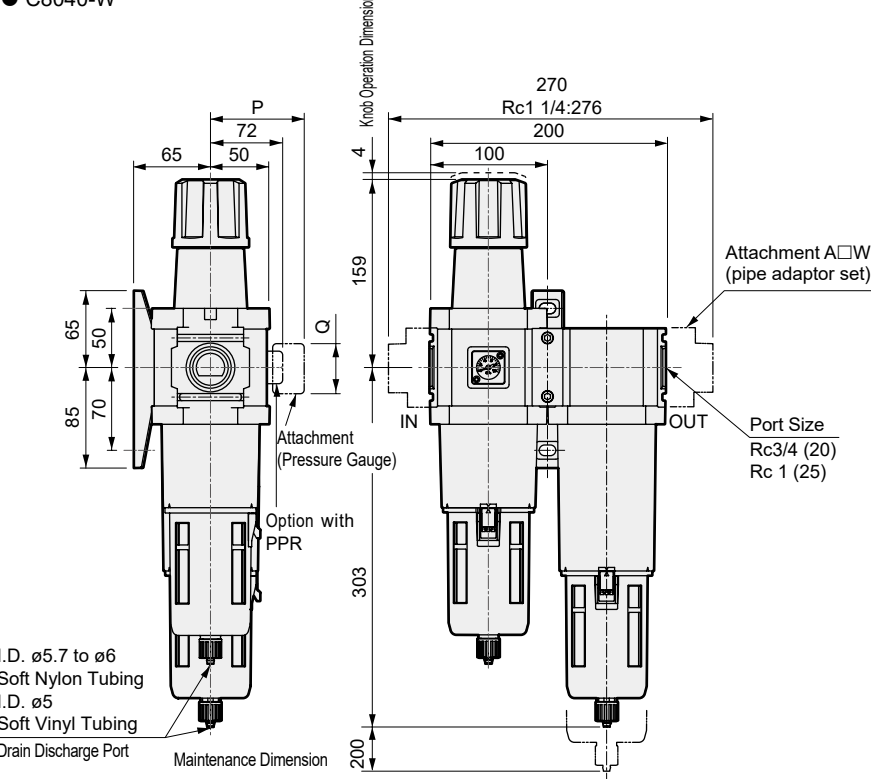
Pressure Gauge Attached Option Dimension Table

Attached 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

● For metal bowl option dimensions,
Filter Regulator section : P. 106 , Oil mist filter : P. 138.

Dimensions

● C8040-W



Pressure Gauge Attached Option Dimension Table

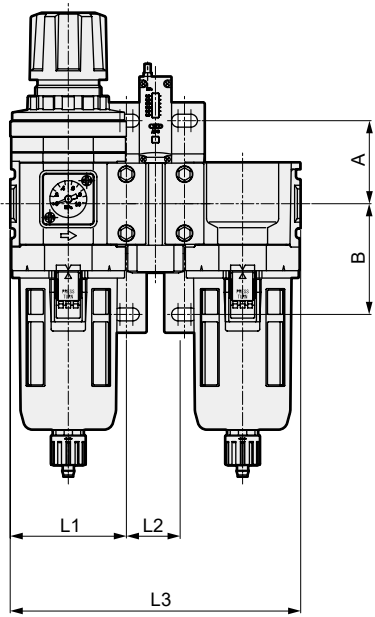
Attached Pressure Gauge	P	Q
G45P	(85)	ø39
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G52P	(98)	ø52.5
R2	(85)	□30

● For metal bowl option dimensions,
Filter Regulator section : P. 106 , Oil mist filter : P. 138.

W.M. Combination

Option Assembly External Dimensions

● C1040-W to C8040-W



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

Assembly Option Model No.	S			P			V			K			SV			SK			PV			PK		
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
C1040-W	40	28	108	-	-	-	40	40	120	-	-	-	40	68	148	-	-	-	-	-	-	-	-	-
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 : Dimension from IN side end face to the center of T-type bracket mounting hole

L2 : Pitch dimension of mounting holes from 1st to 2nd T-type bracket

L3 : Dimension from IN side end face to OUT side end face

* For detailed bracket mounting hole dimensions, see P. 532 .

*1. Piping adapter is assembled on the OUT side.

Also, C4040-20-W has piping adapter A400-20-W assembled on both ends.

For maintenance parts, please visit the CKD Component Products Site
(<https://www.ckd.co.jp/kiki/en/>) → "model No." → Maintenance Parts.

MEMO

F.R.L.

Filter
Regulator

Filter

Regulator

Lubricator

Drain
Separator

Mechanical
Pressure SW

Residual
Pressure
Exhaust Valve

Slow Start
Valve

Antibacterial/
Bacteria
Removing Filter

Ozone
FR

Siloxane/
OzoneRemover

Flame
Resistant FR

Oil-free
Regulator

Medium
Pressure FR

No copper/
PTFE/
Specification

Air Unit
Equipment

Adapter
Joiner

Pressure
Gauge

Compact
F.R.L.

Large
F.R.L.

Precision
Regulator

Clean
FR

Electro-
Pneumatic
Regulator

Air
Booster

Ending



R.M. Combination Standard White Series
**C1050/C2050/C2550
C3050/C4050/C6050/C8050-W Series**

Regulator and Oil Mist Filter Integrated.

● Port Size : 1/8 to 1

Circuit Diagram
Symbol



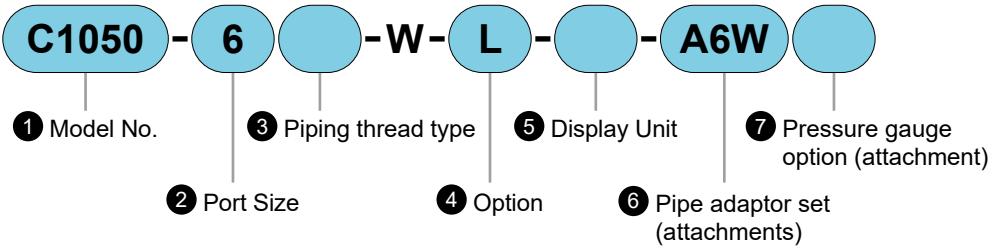
R.M. Combination
Model No. Notation

Food Manufacturing Process Compliant Specification (Catalog No. CC-1271AA)

- Uses food-grade lubricant usable in food manufacturing processes, and resin/rubber materials conforming to the Food Sanitation Act

C□050 - - FP□

Model No. Notation

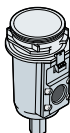


		1 Model No.						
		C1050	C2050	C2550	C3050	C4050	C6050	C8050
2 Port Size	Code	Content						
	6	1/8	●					
	8	1/4	●	●	●	●		
	10	3/8		●	●	●		
	15	1/2				●		
	20	3/4				●	●	●
	25	1					●	●

*1 : Pipe adapters with the C4050-20 □-W are assembled on both ends of the A400-20 □-W. There is no need to select "A20□W" for the piping adapter set.

4 Option

1

Type	Code	Content	
Drain Discharge	Blank	Filter with Manual Drain Cock	
	F1	Auto Drain with Manual Override (NC Type : No discharge when not pressurized)	
Bowl Material	Blank	Polycarbonate Bowl	
	Z	Nylon Bowl	
	M	Metal bowl (C2550 to C8050 Series)	
	M1	Metal bowl with manual drain cock (C2050 to C8050 Series)	
Differential pressure detection	Blank	No Differential Pressure Detection Port	
	Q	With differential pressure detection port (Rc1/4) (C6050, C8050 Series)	
Pressure Range	Blank	0.1 to 0.85 MPa	*3
	L	0.1 to 0.35 MPa	
Relief	Blank	With Relief Mechanism	
	N	Non-relief Type	

		Code	Content
		Blank	Rc Thread
		N	NPT thread
		G	G Thread

*1 : G threads and NPT threads are available for IN, OUT, gage port and drain outlet (metal bowl with auto-drain).

Type	Code	Content	
Pressure Gauge	Blank	Standard Pressure Gauge (with G401-W)	
	T	No Pressure Gauge (Pressure Gauge Mounting Port (1/4) is sealed when assembled)	
	T8	For Attaching Pressure Gauge (Pressure Gauge Mounting Port (1/4) is vented when assembled)	
	T6	Digital pressure sensor PPX attachment option *4	
	RN	Pressure switch with display, PPR assembled (NPN output 1 point) (C1050, C2550 to C8050 Series)	
	RP	Pressure switch with display, PPR assembled (PNP output 1 point) (C1050, C2550 to C8050 Series)	
Flow Direction	Blank	Standard Flow (Left → Right)	
	X1	Reverse Flow (Right → Left)	

*1 : Select options for the drainage, bowl material, element, differential pressure detection, and Regulators Items. When selecting options across multiple items, list them in order from the top.

*2 : Refer to P. 540 for the auto-drain usage conditions.

*3 : For option "L", the pressure gauge display range is 0 to 0.4 MPa.

*4 : If option "T6" is selected, 7 Pressure Gauge Option (included) can only be selected as "Blank" or "R2". The digital pressure sensor PPX mounting port (Rc1/8) is assembled in a vented condition.

* Refer to P. 28 for the description of the options.

5 Display Unit

Code	Content
Blank	MPa, °C Display (Rc Thread) psi, °F Display (NPT Thread) bar, °C Display (G Thread)
J1	MPa, °C Display (NPT Thread, G Thread)

*1 : When pressure gauge option "RN" or "RP" is selected, the pressure switch display unit will be MPa regardless of the display unit option code.

6 Pipe adaptor set (attachments)

For details, see P. 536.

		1 Model No.						
		C1050	C2050	C2550	C3050	C4050	C6050	C8050
	Pipe adaptor set (attachments)	Blank	None Attached	●	●	●	●	●
		A6□W	1/8 Piping Adapter Set	●				
		A8□W	1/4 Piping Adapter Set	●	●	●	●	
		A10□W	3/8 Piping Adapter Set	●	●	●	●	
		A15□W	1/2 Piping Adapter Set		●	●	●	
		A20□W	3/4 Piping Adapter Set				●	●
		A25□W	1 Piping Adapter Set					●
		A32□W	1 1/4 Piping Adapter Set					●

*1 : The piping adapter set comes with a joiner set.

*Adapter Thread Type

Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

7 Pressure gauge option (attachment)

For details, see P. 545.

Code	Content
Blank	None Attached
G45P	G45D-8-P10 (L : G45D-8-P04)
G49P	G49D-8-P10 (L : G49D-8-P04)
G59P	G59D-8-P10 (L : G59D-8-P04)

Code	Content
G40P	G40D-8-P10 (L : G40D-8-P04)
G52P	G52D-8-P10 (L : G52D-8-P10)
R2	Digital Pressure Sensor : PPX-R10N-6M

*1 : The Pressure Gauge Option (included) can only be selected when 3 Pipe Thread Type is Rc thread.

*2 : C2050 Series is G59D-8-P10 (L : G59D-8-P04) cannot be selected.

Specifications

Item		C1050-W	C2050-W	C2550-W	C3050-W	C4050-W	C6050-W	C8050-W
Appearance								
Components	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
Operating Fluid		Compressed Air						
Max. operating pressure MPa		1.0 *3						
Proof Pressure MPa		1.5						
Ambient/Fluid Temperatures °C		5 to 60 *2						
Set Pressure MPa		0.1 to 0.85 *3	0.1 to 0.85 *4					
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 Side Oil Concentration		0.01mg/m ³ or less (0.1mg/m ³ or less after oil saturation)						
Max. flow rate (*1) L/min		150	250	360	360	825	1270	2600

*1 : Maximum flow rate is when the regulator set pressure is 0.7 MPa.
*2 : The ambient/fluid temperatures for "RN" or "RP" (pressure switch with display PPR is mounted) and "R2" (Digital Pressure Sensors PPX is attached) are 5 to 50 °C.
*3 : When using C1050-W Series "F1" with auto-drain, the min. working pressure is 0.2 MPa and max. operating pressure is 0.7 MPa. Refer to the max. operating flow rate table (P.134) for M1000-W-F1 auto-drain for the max. operating flow rate. Please keep the operating flow rate below the maximum operating flow rate value.
*4 : In the case of auto drain "F1", the supply air pressure must be 0.2 MPa or more, and the minimum set pressure is 0.15 MPa.
*5 : Refer to P. 130 for details on other oil mist filters.

Option Weight Table

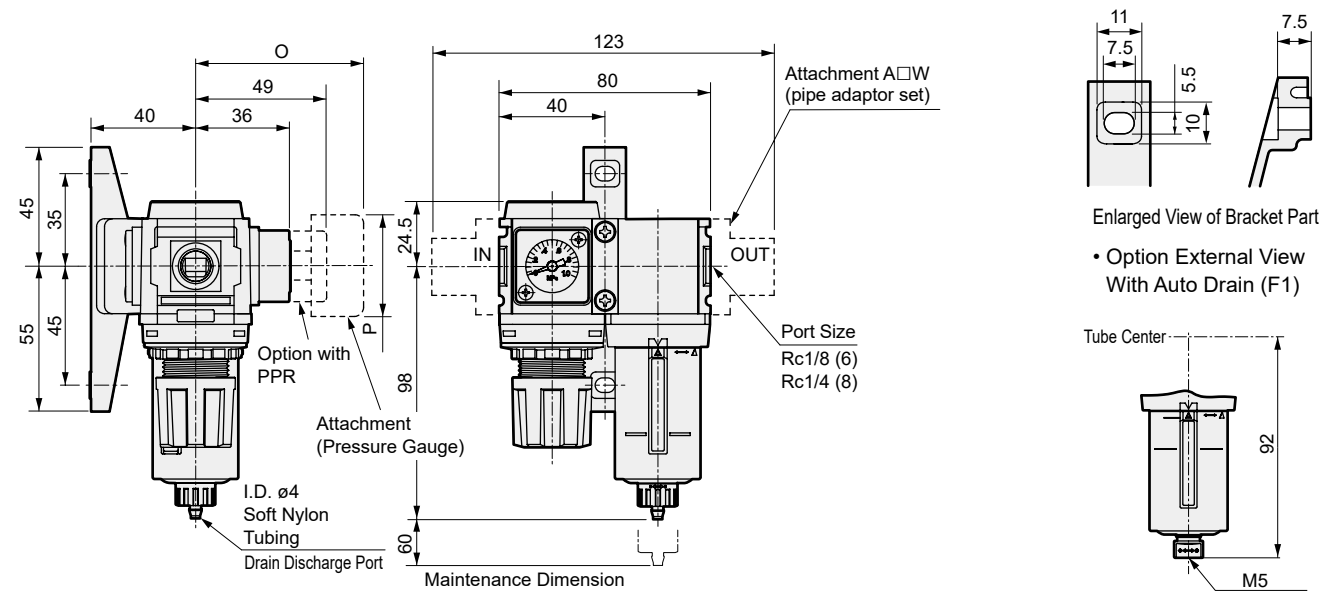
* Add to the weight of standard accessories. Unit : kg

Code	Drain Discharge				Bowl Material		Pressure Gauge		Piping Adapter 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	Piping Adapter Set			Pressure Gauge					
	A20□W	A25□W	A32□W	G45P	G49P	G59P	G40P	G52P	R2
C1020				0.074	0.086	0.115	0.085	0.15	0.04
C2020				0.074	0.086		0.085	0.15	0.04
C2520				0.074	0.086	0.115	0.085	0.15	0.04
C3020				0.074	0.086	0.115	0.085	0.15	0.04
C4020	0.16			0.074	0.086	0.115	0.085	0.15	0.04
C6020	0.53	0.53	0.53	0.074	0.086	0.115	0.085	0.15	0.04
C8020	0.53	0.53	0.53	0.074	0.086	0.115	0.085	0.15	0.04

Dimensions

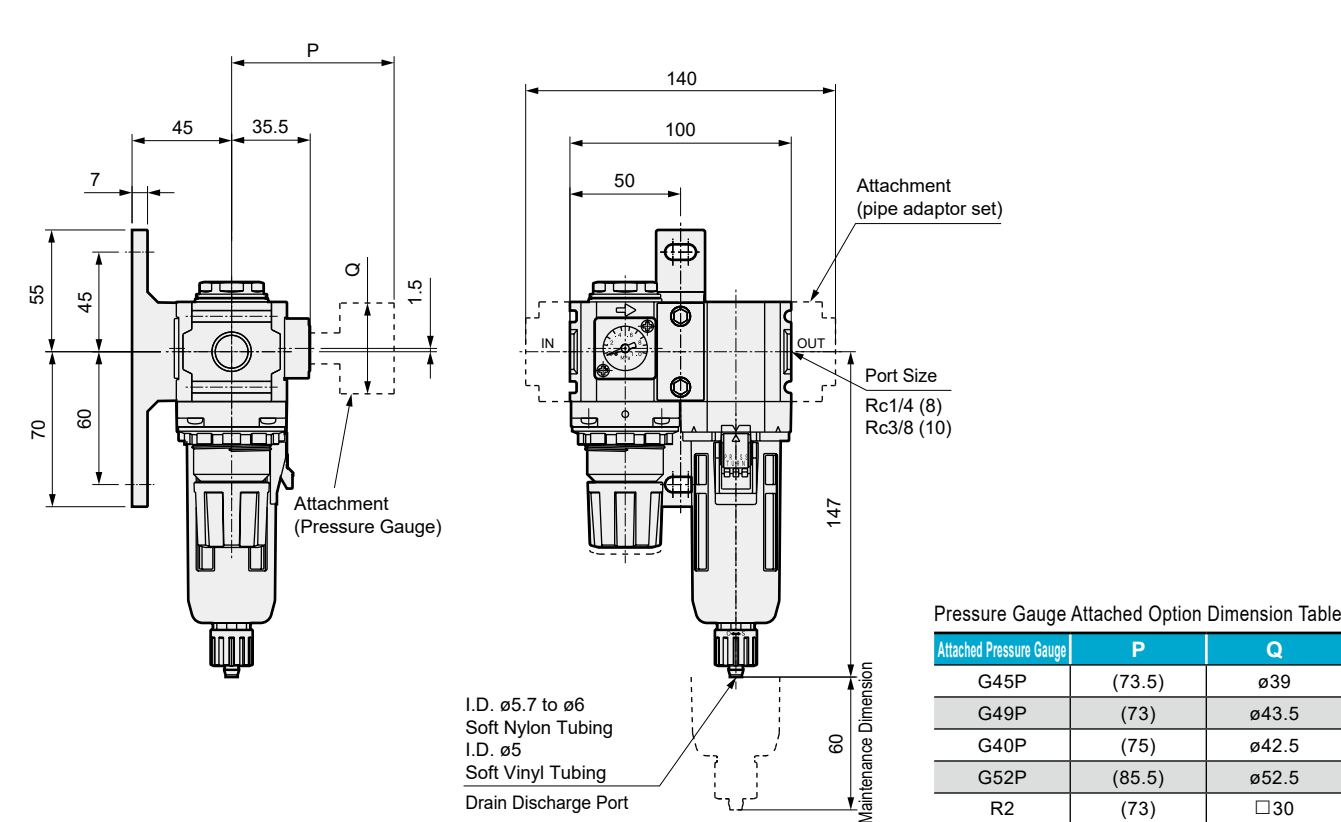
● C1050-W



Pressure Gauge Attached Option Dimension Table

Attached 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



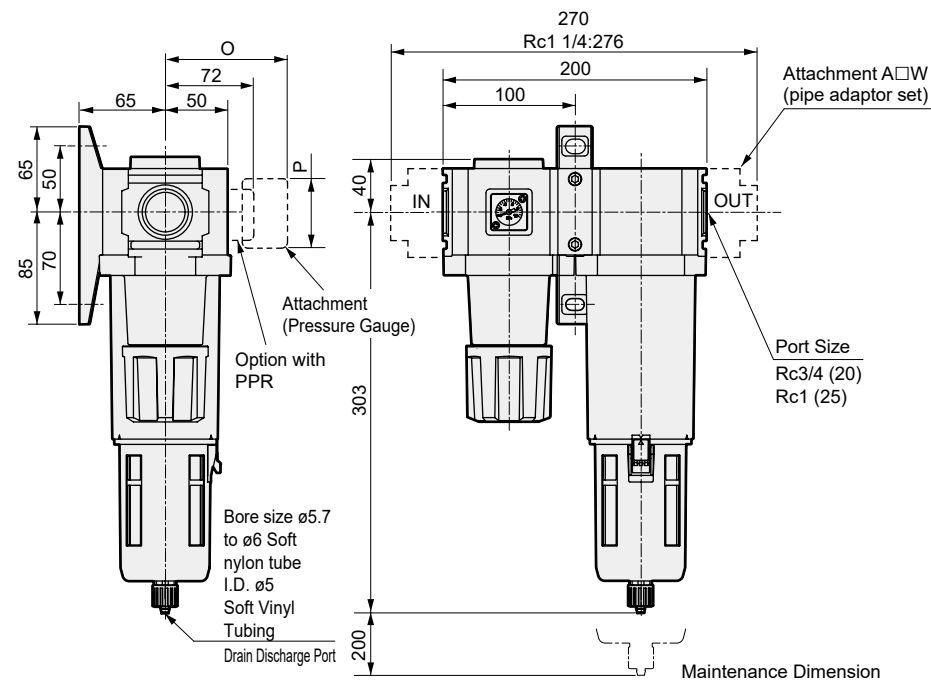
Pressure Gauge Attached Option Dimension Table

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

R.M. Combination

Dimensions

● C8050-W



● Refer to P. 138 for the optional dimensions of the metal bowl.

Pressure Gauge Attached Option Dimension Table

Attached 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

MEMO

For maintenance parts, please visit the CKD Component Products Site
(<https://www.ckd.co.jp/kiki/en/>) → "model No." → Maintenance Parts.



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

Circuit Diagram
Symbol



F.M. Combination
Model No. Notation

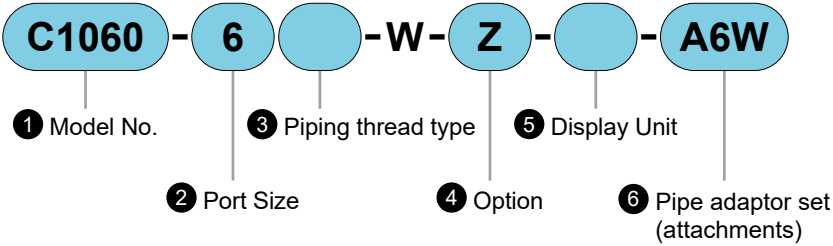
* Refer to P. 28 for the description of the options.

Food Manufacturing Process Compliant Specification (Catalog No. CC-1271AA)

- Uses food-grade lubricant usable in food manufacturing processes, and resin/rubber materials conforming to the Food Sanitation Act

C□060 - - FP□

Model No. Notation



			1 Model No.					
			C1060	C2060	C3060	C4060	C6060	C8060
2 Port Size	Code	Content						
	6	1/8	●					
	8	1/4	●	●	●	●		
	10	3/8		●	●	●		
	15	1/2				●		
	20	3/4				●	●	●
	25	1					●	●

*1 : Pipe adapters with the C4060-20 □-W are assembled on both ends of the A400-20 □-W. There is no need to select "A20□W" for the piping adapter set.

		Type	Code	Content
4 Option	Drain Discharge		Blank	With Manual Drain Cock
			F	Auto Drain with Manual Override (NO Type : Discharge when not pressurized) (C3060 to C8060 Series)
			F1	Auto Drain with Manual Override (NC Type : No discharge when not pressurized)
			FF	Large auto-drain with manual override (NO : Exhaust when not pressurized) (C8060 Series)
			FF1	Large auto-drain with manual override (NC : No exhaust when not pressurized) (C8060 Series)
	Bowl Material		Blank	Polycarbonate Bowl
			Z	Nylon Bowl
			M	Metal bowl (C3060 to C8060 Series)
			M1	Metal bowl with manual drain cock (C2060 to C8060 Series)

		Type	Code	Content
3 Piping thread type			Blank	Rc Thread
			N	NPT thread
			G	G Thread

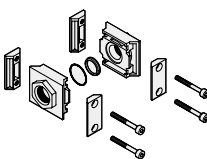
*1 : G threads and NPT threads are available for IN, OUT and drain outlet (metal bowl with auto-drain).

		Type	Code	Content
Element			Blank	5 μm
			Y	0.3 μm (submicron) (C3060 to C8060 Series)
Differential pressure detection			Blank	No Differential Pressure Detection Port
			Q	With differential pressure detection port (Rc1/4) (C6060, C8060 Series)
Flow Direction			Blank	Standard Flow (Left → Right)
			X1	Reverse Flow (Right → Left)

*1 : Select options for the drainage, bowl material, element and differential pressure detection Items. When selecting options across multiple items, list them in order from the top.
*2 : Refer to P. 540 for the auto-drain usage conditions.
*3 : When option code "F" is selected, the NO auto-drain is supplied with the Air Filters and the NC auto-drain is supplied with the oil mist filter. If option Code "F1" is selected, both air filter and oil mist filter have NC type auto drain." For "FF", "FF1", only the filter has large discharge volume, and the oil mist filter has standard NC type auto drain.
*4 : Refer to P. 121 for max. processing flow rate when option "Y" is selected.

		5 Display Unit
Code	Content	
		Blank
J1	MPa Display (NPT, G Thread)	

			1 Model No.					
6 Pipe adaptor set (attachments)			C1060	C2060	C3060	C4060	C6060	C8060
For details, see P. 536.								
Code	Content							
Blank	None Attached		●	●	●	●	●	●
A6□W	1/8 Piping Adapter Set		●					
A8□W	1/4 Piping Adapter Set		●	●	●	●		
A10□W	3/8 Piping Adapter Set		●	●	●	●		
A15□W	1/2 Piping Adapter Set			●	●	●		
A20□W	3/4 Piping Adapter Set						●	●
A25□W	1 Piping Adapter Set						●	●
A32□W	1 1/4 Piping Adapter Set						●	●



*1 : The piping adapter set comes with a joiner set.

		* Adapter Thread Type
Code	Content	
		Blank
Blank	Rc Thread	
N	NPT thread	
G	G Thread	

Specifications

Item		C1060-W	C2060-W	C3060-W	C4060-W	C6060-W	C8060-W
Appearance							
Components	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
Operating Fluid		Compressed Air					
Max. operating pressure MPa		1.0 *3, *4, *5					
Proof Pressure MPa		1.5 *3					
Ambient/Fluid Temperatures °C		5 to 60					
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 Side Oil Concentration		0.01mg/m ³ or less (0.1mg/m ³ or less after oil saturation)					
Max. flow rate (*1, *2) L/min		150 *3	250	360	825	1270	2600

*1 : Maximum flow rate is at primary pressure 0.7 MPa.
*2: Refer to P. 121 for the max. flow rate of element option "Y". Please keep the operating flow rate below the maximum operating flow rate value.
*3: When "F1" with auto-drain is selected, the NC auto-drain is included for both the filter and oil mist filter. The min. working pressure is 0.2 MPa, the max. operating pressure is 0.7 MPa and the proof pressure is 1.05 MPa. Refer to the max. operating flow rate table (P. 134) for M1000-W-F1 auto-drain for the max. operating flow rate. Please keep the operating flow rate below the maximum operating flow rate value.
*4 : In the case of "F" with auto-drain, the supply air pressure is 0.15 MPa or more. The air filter auto drain purges air together with initial drainage until the supply air pressure rises to 0.1 MPa.
*5 : In the case of auto drain "F1", a supply air pressure of 0.15 MPa or more is required.
*6: Refer to P. 130 for details on other oil mist filters.

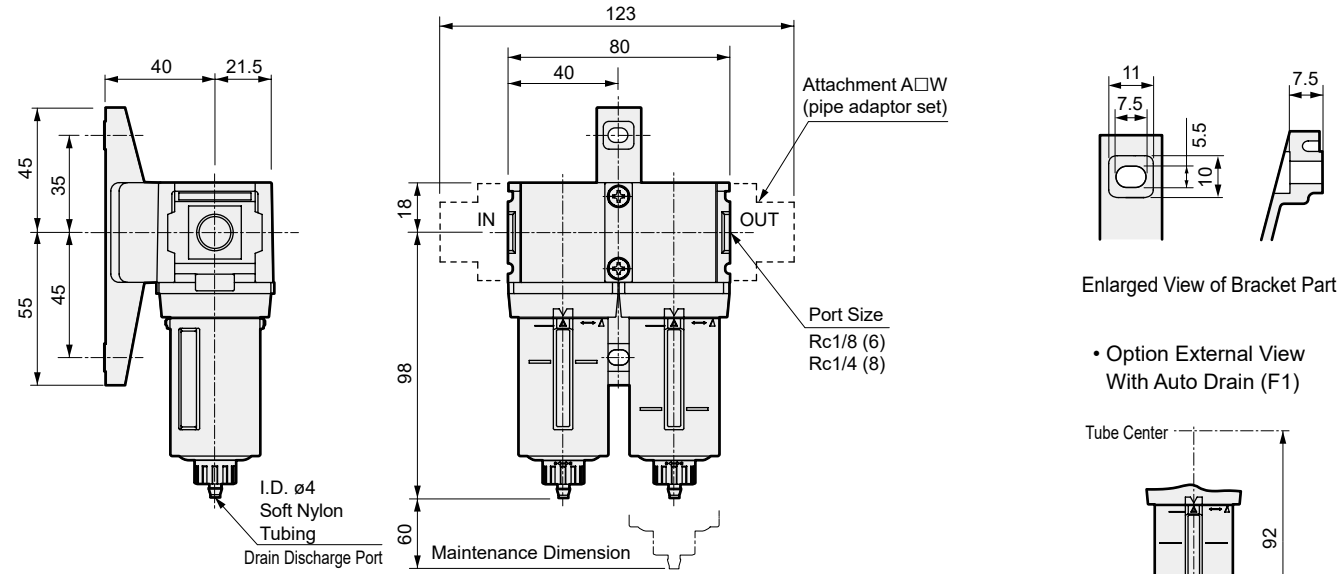
Option Weight Table

* Add to the weight of standard accessories. Unit : kg

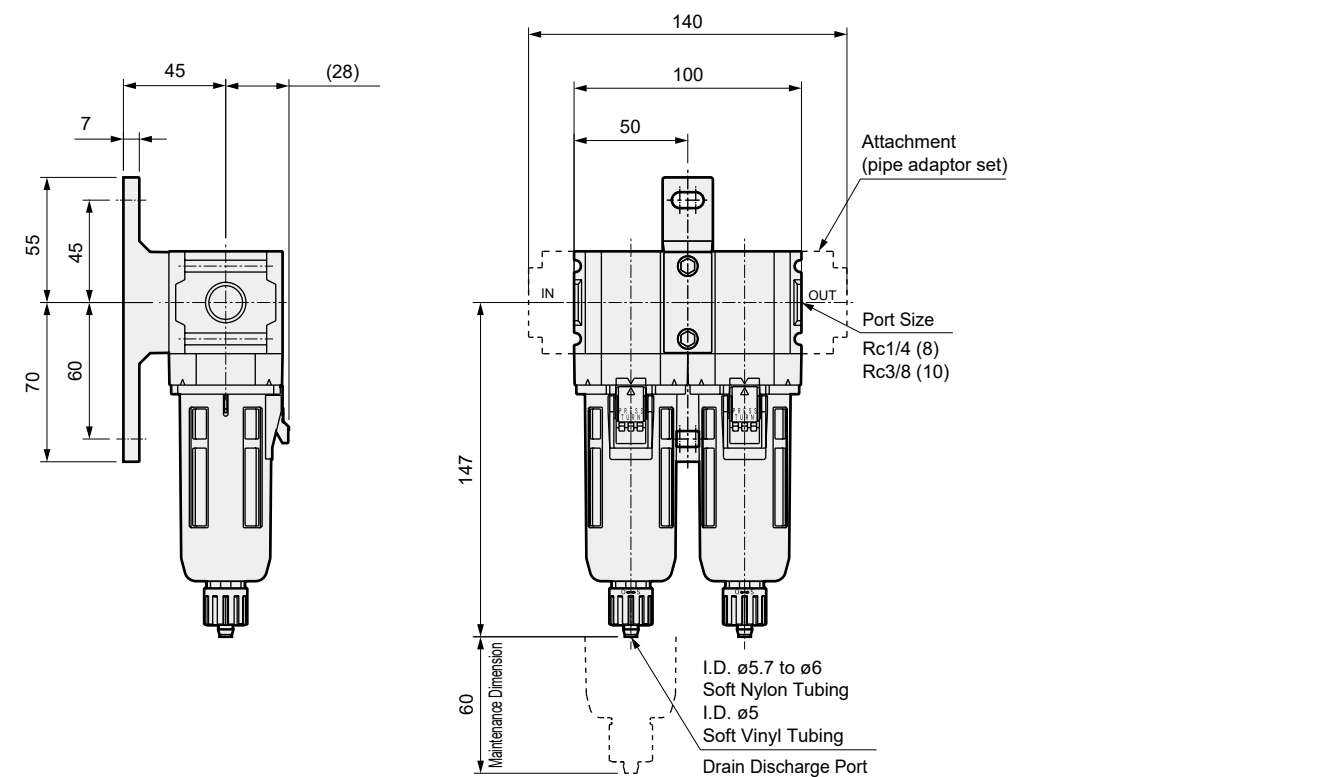
Code	Drain Discharge				Bowl Material		Piping Adapter Set						
	F	F1	FF	FF1	M	M1	A6□W	A8□W	A10□W	A15□W	A20□W	A25□W	A32□W
C1060		0.014					0.09	0.09	0.09				
C2060		0.04				0.2		0.16	0.16	0.16			
C3060	0.04	0.04			0.2	0.2		0.16	0.16	0.16			
C4060	0.04	0.04			0.2	0.2		0.16	0.16	0.16			
C6060	0.04	0.04			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

Dimensions

● C1060-W

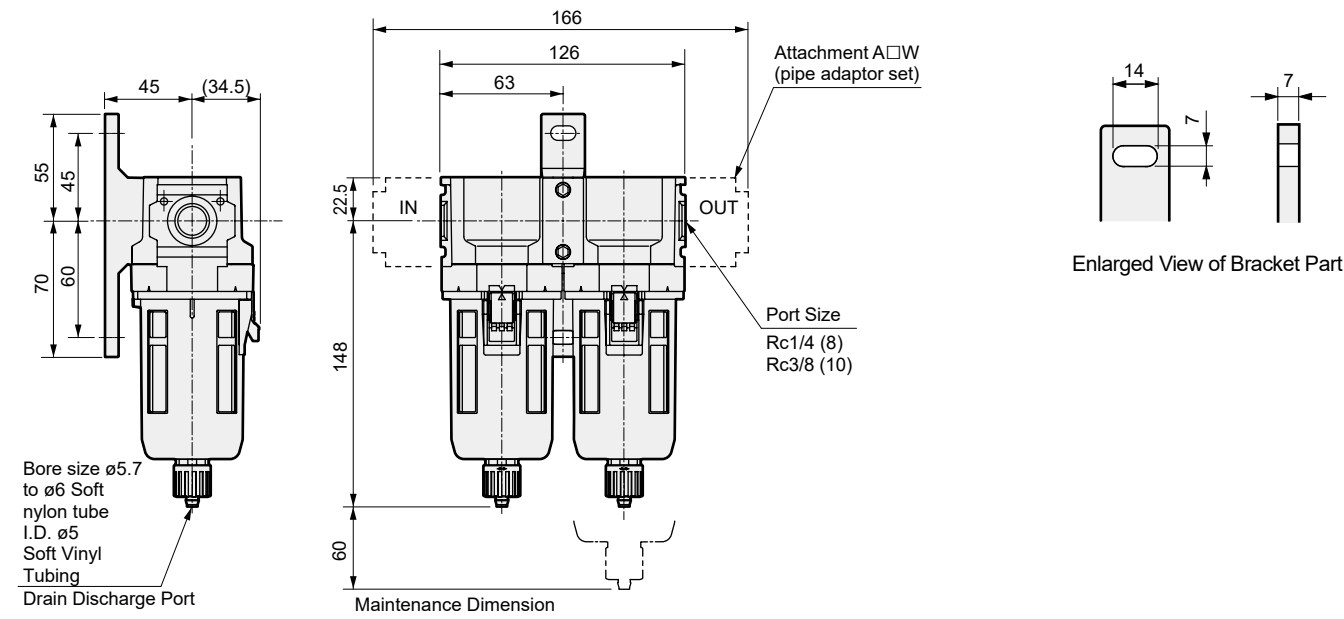


● C2060-W



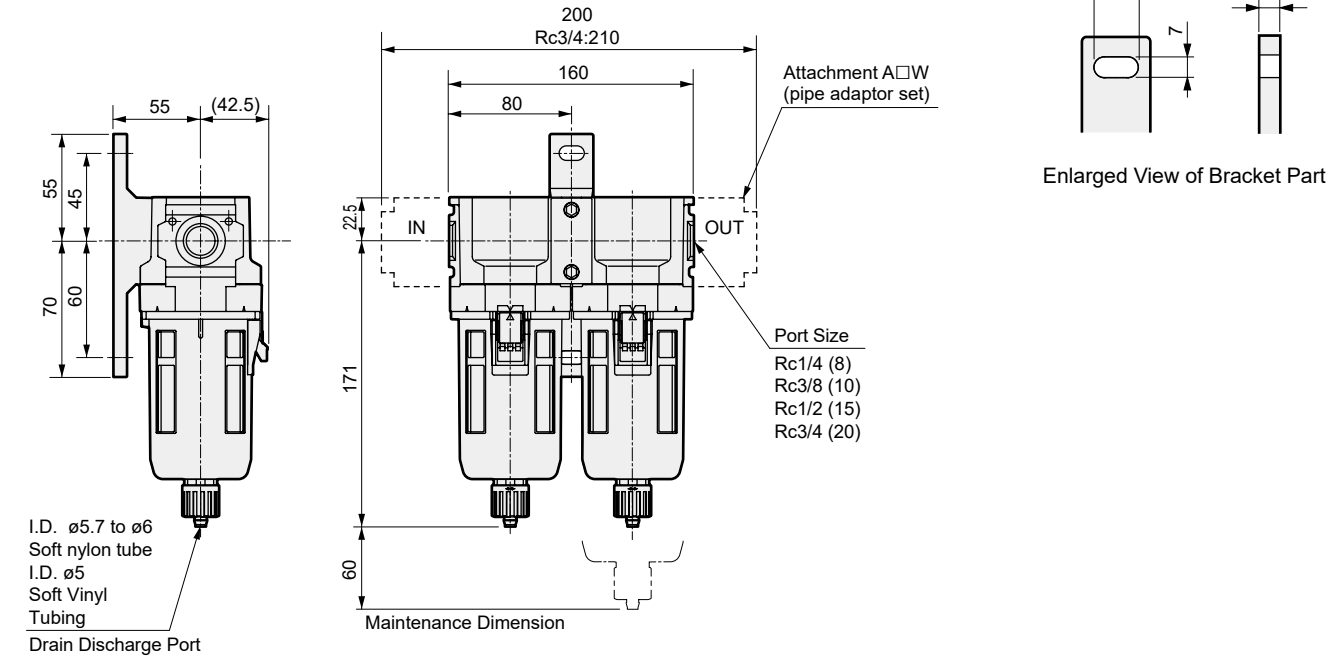
Dimensions

● C3060-W



● For metal bowl option dimensions,
Filter section : Oil mist filter on P. 125 : See P. 138.

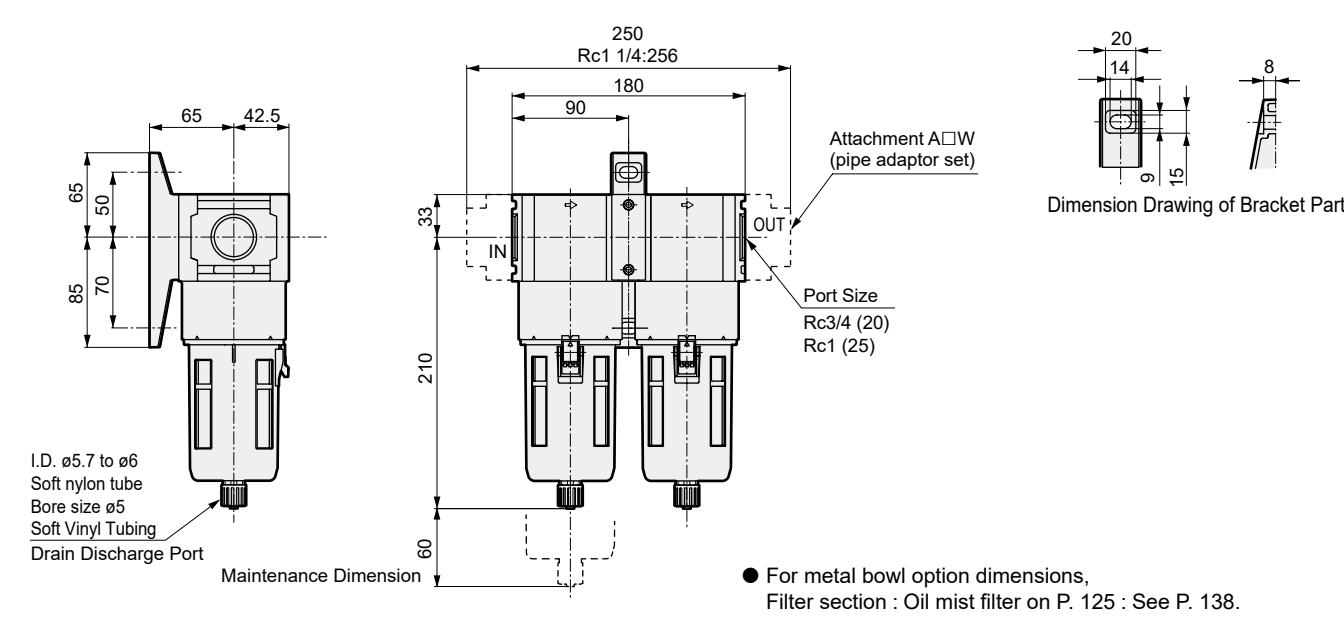
● C4060-W



● For metal bowl option dimensions,
Filter section : Oil mist filter on P. 125 : See P. 138.

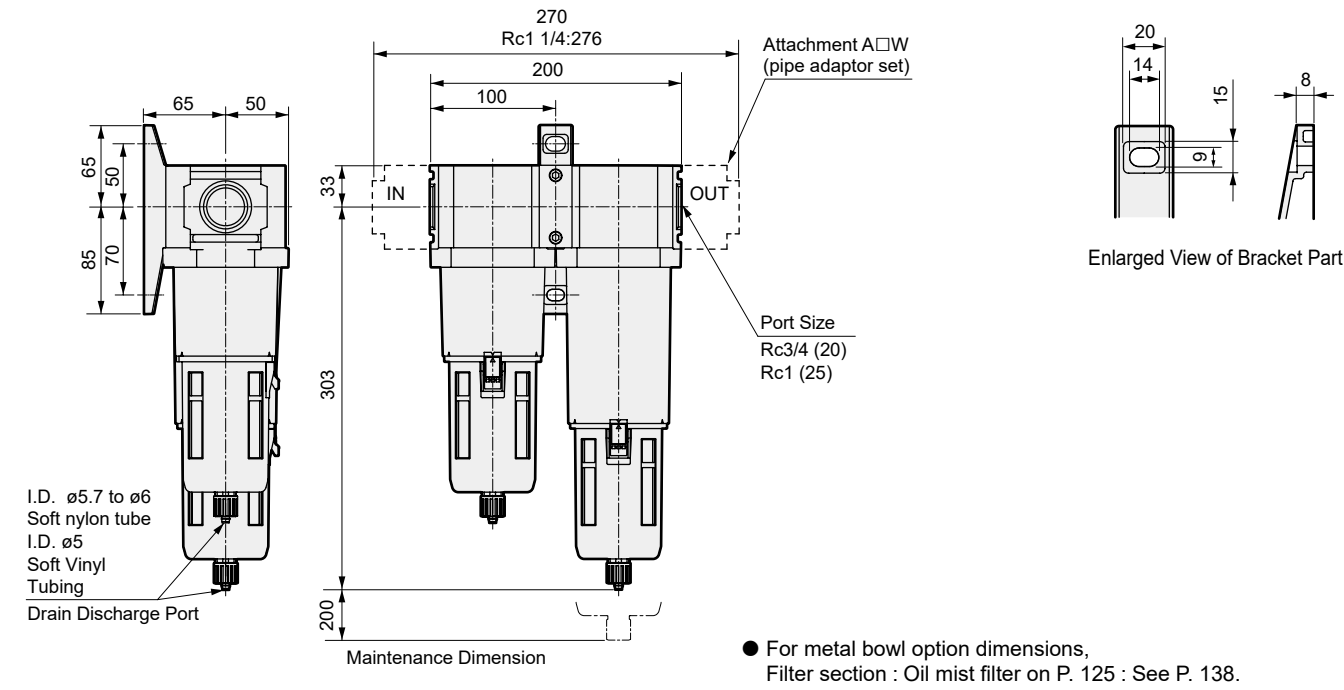
Dimensions

● C6060-W



● For metal bowl option dimensions,
Filter section : Oil mist filter on P. 125 : See P. 138.

● C8060-W



● For metal bowl option dimensions,
Filter section : Oil mist filter on P. 125 : See P. 138.

For maintenance parts, please visit the CKD Component Products Site
(<https://www.ckd.co.jp/kiki/en/>) → "model No." → Maintenance Parts.



F.F.M. Combination Standard White Series

C3070/C4070/C6070/C8070-W Series

Filter (5 µm), Filter (0.3 µm) and Oil Mist Filter Integrated.

● Port Size : 1/4 to 1

Circuit Diagram
Symbol



F.F.M. Combination

Model No. Notation

* Refer to P. 28 for the description of the options.

Model No. Notation



- 1 Model No.
- 2 Port Size
- 3 Piping thread type
- 4 Option
- 5 Display Unit
- 6 Pipe adaptor set (attachments)

		1 Model No.			
		C3070	C4070	C6070	C8070
2 Port Size					
Code	Content				
8	1/4	●	●		
10	3/8	●	●		
15	1/2		●		
20	3/4		●	●	●
25	1			●	●

*1 : Pipe adapters with the C4070-20□-W are assembled on both ends of the A400-20□-W model. There is no need to select piping adapter set "A20□W".

3 Piping thread type

Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

*1 : G threads and NPT threads are available for IN, OUT and drain outlet (metal bowl with auto-drain).

4 Option

Type	Code	Content
Drain Discharge	Blank	With manual drain cock, lubricator without manual cock
	F	Auto Drain with Manual Override (NO Type : Discharge when not pressurized)
	F1	Auto Drain with Manual Override (NC Type : No discharge when not pressurized)
	FF	Large auto-drain with manual override (NO : Exhaust when not pressurized) (C8070 Series)
	FF1	Large auto-drain with manual override (NC : No exhaust when not pressurized) (C8070 Series)
Bowl Material	Blank	Polycarbonate Bowl
	Z	Nylon Bowl
	M	Metal Bowl
	M1	Metal Bowl, with Manual Drain Cock

Type	Code	Content
Differential pressure detection	Blank	No Differential Pressure Detection Port
	Q	With differential pressure detection port (Rc1/4) (C6070, C8070 Series)
Flow Direction	Blank	Standard Flow (Left → Right)
	X1	Reverse Flow (Right → Left)

*1 : Select options for the drainage, bowl material and differential pressure detection items. When selecting options across multiple items, list them in order from the top.

*2 : Refer to P. 540 for the auto-drain usage conditions.

*3 : When option code "F" is selected, the NO auto-drain is supplied with the Air Filters and the NC auto-drain is supplied with the oil mist filter. If option Code "F1" is selected, both air filter and oil mist filter have NC type auto drain." For "FF", "FF1", only the filter has large discharge volume, and the oil mist filter has standard NC type auto drain.

5 Display Unit

Code	Content
Blank	MPa Display (Rc Thread), psi Display (NPT Thread), bar Display (G Thread)
J1	MPa Display (NPT, G Thread)

6 Pipe adaptor set (attachments)

For details, see P. 536.

		1 Model No.			
		C3070	C4070	C6070	C8070
Code	Content				
Blank	None Attached	●	●	●	●
A8□W	1/4 Piping Adapter Set	●	●		
A10□W	3/8 Piping Adapter Set	●	●		
A15□W	1/2 Piping Adapter Set	●	●		
A20□W	3/4 Piping Adapter Set		●	●	●
A25□W	1 Piping Adapter Set			●	●
A32□W	1 1/4 Piping Adapter Set			●	●

*1 : The piping adapter set comes with a joiner set.

* Adapter Thread Type

Code	Content
Blank	Rc Thread
N	NPT thread
G	G Thread

Specifications

Item		C3070-W	C4070-W	C6070-W	C8070-W
Appearance					
Components	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
Operating Fluid		Compressed Air			
Max. operating pressure MPa		1.0 *2, *3			
Proof Pressure MPa		1.5			
Ambient/Fluid Temperatures °C		5 to 60			
Port size	Rc, NPT, G	1/4, 3/8 (1/2 uses adapter)	1/4, 3/8, 1/2 (3/4 uses adapter)	3/4, 1 (1 1/4 uses adapter)	3/4, 1 (1 1/4 uses adapter)
Weight	kg	0.96	1.61	3.09	4.01
Secondary Side Oil Concentration		0.01mg/m ³ or less (0.1mg/m ³ or less after oil saturation)			
Max. flow rate (*1) L/min		230	500	800	1100

*1 : Maximum flow rate is at primary pressure 0.7 MPa.
*2 : In the case of "F" with auto-drain, the supply air pressure is 0.15 MPa or more. The air filter auto drain purges air together with initial drainage until the supply air pressure rises to 0.1 MPa.
*3 : In the case of auto drain "F1", a supply air pressure of 0.15 MPa or more is required.
***4 : Refer to P. 130 for details on other oil mist filters.**

Option Weight Table

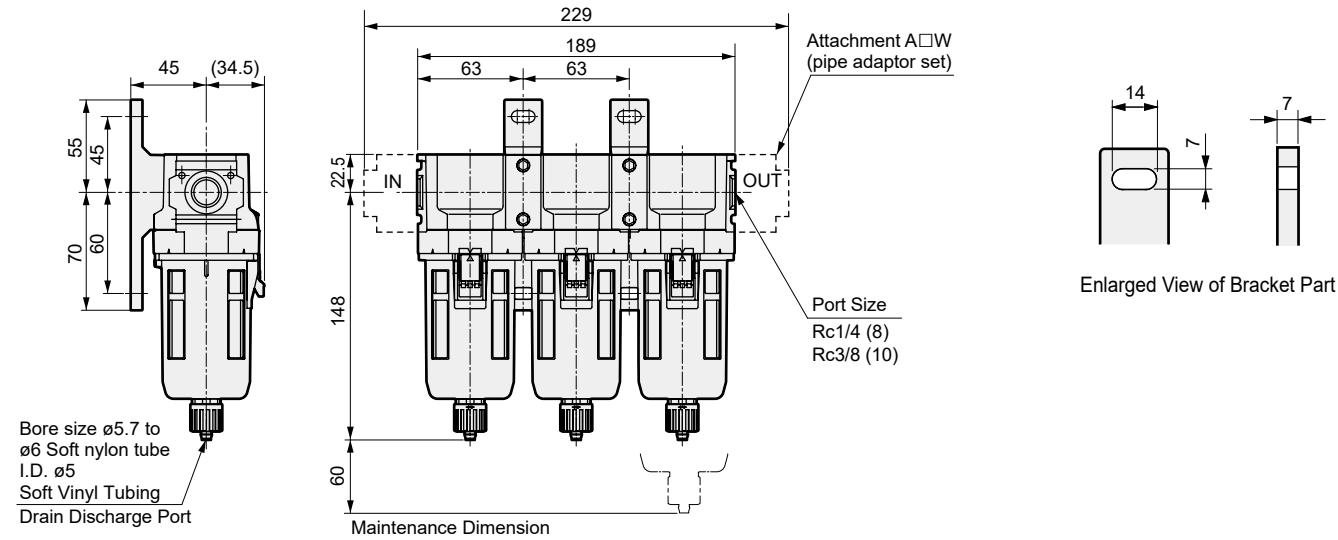
* Add to the weight of standard accessories.

Code	Drain Discharge				Bowl Material		Piping Adapter 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

Unit : kg

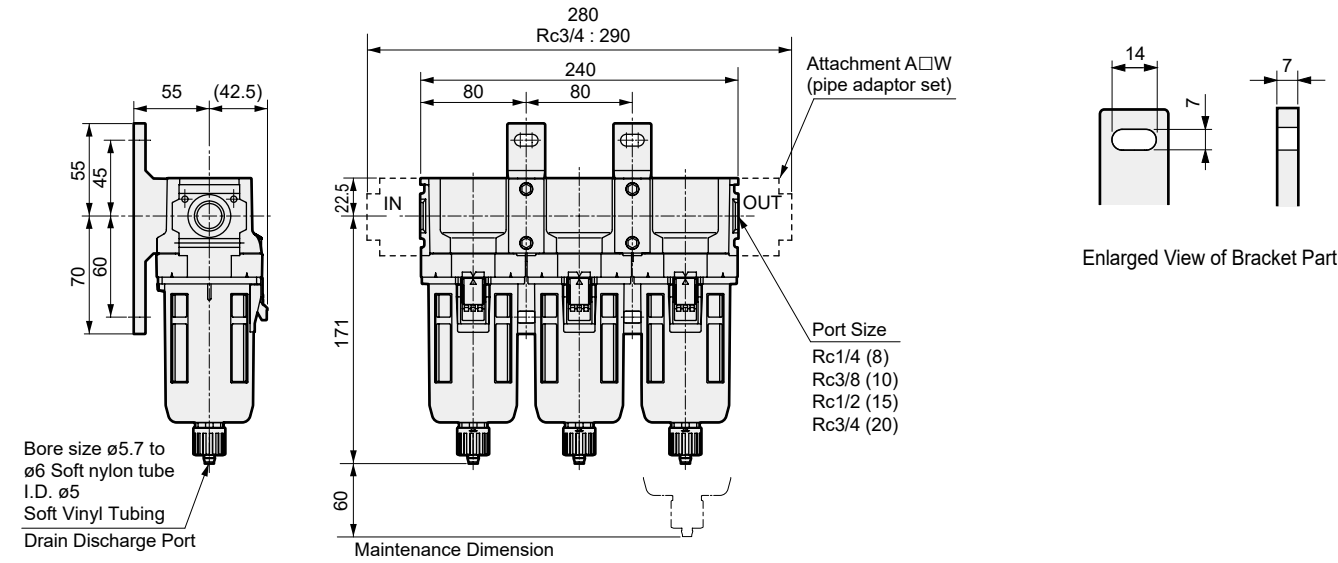
Dimensions

● C3070-W



● For metal bowl option dimensions,
Filter section : Oil mist filter on P. 125 : See P. 138.

● C4070-W

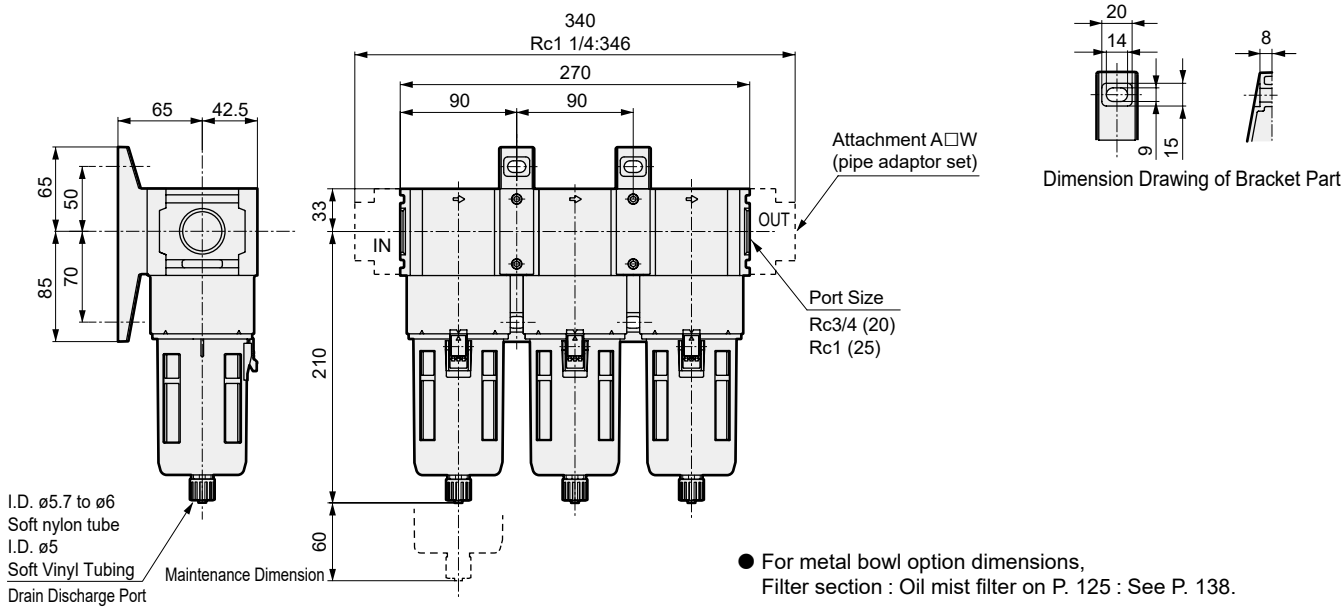


● For metal bowl option dimensions,
Filter section : Oil mist filter on P. 125 : See P. 138.

F.F.M. Combination

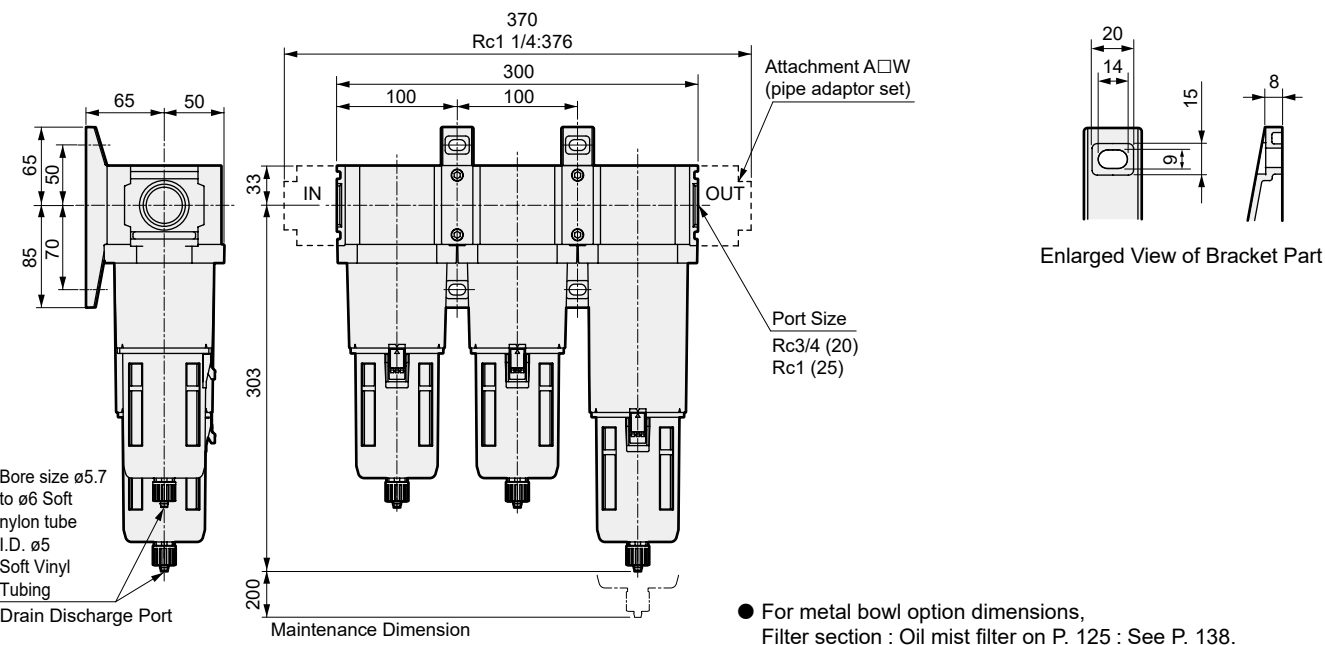
Dimensions

● C6070-W



● For metal bowl option dimensions,
Filter section : Oil mist filter on P. 125 : See P. 138.

● C8070-W



● For metal bowl option dimensions,
Filter section : Oil mist filter on P. 125 : See P. 138.

For maintenance parts, please visit the CKD Component Products Site
(<https://www.ckd.co.jp/kiki/en/>) → "model No." → Maintenance Parts.

MEMO

Air Preparation Components	
F.R.L.	
Filter	
Regulator	
Filter	
Regulator	
Lubricator	
Drain Separator	
Mechanical Pressure SW	
Residual Pressure Exhaust Valve	
Slow Start Valve	
Antibacterial/Bacteria Removing Filter	
Ozone FR	
Siloxane/OzoneRemover	
Flame Resistant FR	
Oil-free Regulator	
Medium Pressure FR	
No copper/PTFEV Specification	
Air Unit Equipment	
Adapter Joiner	
Pressure Gauge	
Compact F.R.L.	
Large F.R.L.	
Precision Regulator	
Clean FR	
Electro-Pneumatic Regulator	
Air Booster	
Ending	

Custom Combination Specification Sheet

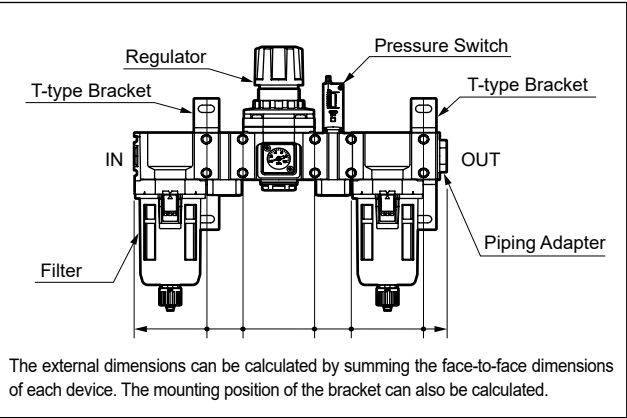
Overview

Custom Combination is a customer-oriented combination that responds to various combination needs of users. Please issue the following specification sheet and place your order.

How to Create a Custom Combination Specification Sheet

- ① Indicate the full model No. in the model No. field for the required part.
- ② Place a "○" to indicate the installation position, and designate "Up" or "Down" for the direction of the required part.
- ③ Indicate "○" in the bracket and joiner fields.

- Components Refer to each section in this catalog by configuration for "How to order", descriptions, etc.
- Combination is possible with products allowing modular connection (3000 and 4000 Series, etc.). In this case, use the specification sheet for the larger series and make a note in the blank.
- Only the FRL Standard White Series can be selected.
- If Air Unitscomponents (CXU) is included, use the CXU specifications.



C3000 Series Custom Combination Specification Sheet

Person in Charge _____ Quantity _____ Set _____
Slip No. _____ Delivery Date (Month/Day) _____
Date of Issue / /
Company _____
Contact Person _____
Order No. _____

● Model No. **C3000-UN-** -
Fluid Direction
Blank Left → Right
X1 Right → Left
Technical Confirmation No. _____

Please specify the flow direction of compressed air when viewed from the front. If there is Blank, do not enter anything.

★ For products marked with, please enter the up/down direction. For regulators, indicate the direction of the knob, and for others, indicate the direction of the port as Up/Down.

Indicate the installation position from the left when seen from the front.

Name	Face-to-Face Dimension	Model No.	Direction	Installation Position	Technical Usage Column
Piping Adapter	20	A400-UN-10-W			
Air Filter	63	F3000-8-W			
Filter Regulator	63	W3000-W			
		W3100-W			
Regulator ★	63	R3000-8-W	Up		
		R3100-W			
Oil Mist Filter	63	M3000-8-W			
Lubricator	63	L3000-W			
Distributor ★	31.5	D401-UN-00-8-W	Down		
Distributor	42	D300-W			
Pressure Switch	31.5	P4100-UN-8-W			
	80	P4000-W			
Residual Pressure Exhaust Valve	63	V3000-W			
		V3010-W			
L-type Piping Adapter ★	31.5	A401-UN-W			

1 pc. piping adapter. It is not a set of 2, so please enter where necessary.

List products shown aboveSample.

Use T-type brackets at regular intervals. Use T-type brackets for 3 stations or less with cantilever, and 5 stations or less with double support. Changes to brackets other than the listed T-type brackets are not allowed.

If using products with different options, bore sizes, etc., please enter them in this column.

We will perform technical confirmation at the factory through our sales department, and if OK, we will fill in the number.

Model numbers containing "UN" mean single units that do not include joiner sets, etc. However, the T-type bracket set and joiner set also include "UN", but, this is a model number dedicated to custom combinations.

When selecting pressure switch P4100-UN-W at the end of the combination, add a piping adapter (A400-UN-W, A401-UN-W) to that end. (Because there are no threads on the horizontal ports.) When installing the residual pressure exhaust valve V3000-W and residual pressure exhaust valve with locking hole V3010-W on the primary side of the Regulators and filter Regulators, select the container R3100-W and reverse filter/regulator W3100-W.

*1 : The distance from the piping center to the mounting surface is 45 mm.

Technical Confirmation No. :
Approved _____ Reviewed _____ Person in Charge _____

Technical Comments Column

Do not fill in. This is our confirmation seal column.

C1000 Series Custom Combination Specification Sheet

Person in Charge _____ Quantity _____ Set _____
Slip No. _____ Delivery Date (Month/Day) _____

Date of Issue / /
Company _____
Contact Person _____
Order No. _____

● Model No. **C1000-UN-** -
Fluid Direction
Blank Left → Right
X1 Right → Left
Technical Confirmation No. _____

★ For products marked with, please enter the up/down direction. For regulators, indicate the direction of the knob, and for others, indicate the direction of the port as Up/Down.

Indicate the installation position from the left when seen from the front.

Name	Face-to-Face Dimension	Model No.	Direction	Installation Position	Technical Usage Column
Piping Adapter	21.5	A100-UN- -W			
Air Filter	40	F1000- -W			
Filter Regulator	40	W1000- -W			
		W1100- -W			
Regulator ★	40	R1000- -W			
		R1100- -W			
Oil Mist Filter	40	M1000- -W			
Lubricator	40	L1000- -W			
Distributor ★	28	D101-UN-00- -W			
Pressure Switch	28	P1100-UN- -W			
Residual Pressure Exhaust Valve	40	V1000- -W			
L-type Piping Adapter ★	28	A101-UN- -W			
T-Bracket Set	*1	B110-UN-W			
Joiner Set		C1000-J100-UN-W			

Precautions

Model numbers containing "UN" mean single units that do not include joiner sets, etc. However, "UN" may also be indicated for the T type bracket set and joiner set. In this case, this is the model No. dedicated to customized combination.

When selecting pressure switch P1100-UN-W at the end of the combination, add a piping adapter (A100-UN-W, A101-UN-W) to that end. (Because there are no threads on the horizontal ports.) When installing the residual pressure exhaust valve V1000-W on the primary side of the regulator or filter regulator, select the reverse regulator R1100-W or reverse filter regulator W1100-W.

*1 : The distance from the piping center to the mounting surface is 40 mm.

Technical Confirmation No. :
Approved _____ Reviewed _____ Person in Charge _____

Technical Comments Column

C2000 Series Custom Combination Specification Sheet

Person in Charge
Slip No.

Quantity
Delivery Date (Month/Day)

Set

Date of Issue / /
Company
Contact Person
Order No.

● Model No. **C2000-UN-** -

Fluid Direction

Blank Left → Right

X1 Right → Left

Technical Confirmation No.

★For products marked with, please enter the up/down direction.
For regulators, indicate the direction of the knob, and for others, indicate the direction of the port as Up/Down.

Indicate the installation position from the left when seen from the front.

Name	Face-to-Face Dimension	Model No.	Direction	Installation Position								Technical Usage Column
Piping Adapter	20	A400-UN- -W										
Air Filter	50	F2000- -W										
	63	F3000- -W										
Filter Regulator	50	W2000- -W										
		W2100- -W										
Regulator ★	50	R2000- -W										
		R2100- -W										
Oil Mist Filter	50	M2000- -W										
	63	M3000- -W										
Lubricator	63	L3000- -W										
Distributor ★	31.5	D401-UN-00- -W										
Distributor	42	D300- -W										
Pressure Switch	31.5	P4100-UN- -W										
	80	P4000- -W										
Residual Pressure Exhaust Valve	63	V3000- -W										
		V3010- -W										
L-type Piping Adapter ★	31.5	A401-UN- -W										
T-Bracket Set *1		B310-UN-W										
Joiner Set		C4000-J400-UN-W										

Precautions

Model numbers containing "UN" mean single units that do not include joiner sets, etc. However, "UN" may also be indicated for the T type bracket set and joiner set. In this case, this is the model No. dedicated to customized combination.

When selecting pressure switch P4100-UN-W at the end of the combination, add a piping adapter (A400-UN-W, A401-UN-W) to that end. (Because there are no threads on the horizontal ports.)
When installing the residual pressure exhaust valve V3000-W and the residual pressure exhaust valve with lock hole V3010-W on the primary side of the regulator or filter regulator, select the reverse regulator R2100-W or reverse filter regulator W2100-W.

*1 : The distance from the piping center to the mounting surface is 45 mm.

Technical Confirmation No. :

Approved

Reviewed

Person in Charge

Technical Comments Column		

C3000 Series Custom Combination Specification Sheet

Person in Charge
Slip No.

Quantity
Delivery Date (Month/Day)

Set

Date of Issue / /
Company
Contact Person
Order No.

● Model No. **C3000-UN-** -

Fluid Direction

Blank Left → Right

X1 Right → Left

Technical Confirmation No.

★For products marked with, please enter the up/down direction.
For regulators, indicate the direction of the knob, and for others, indicate the direction of the port as Up/Down.

Indicate the installation position from the left when seen from the front.

Name	Face-to-Face Dimension	Model No.	Direction	Installation Position								Technical Usage Column
Piping Adapter	20	A400-UN- -W										
Air Filter	63	F3000- -W										
Filter Regulator	63	W3000- -W										
		W3100- -W										
Regulator ★	63	R3000- -W										
		R3100- -W										
Oil Mist Filter	63	M3000- -W										
Lubricator	63	L3000- -W										
Distributor ★	31.5	D401-UN-00- -W										
Distributor	42	D300- -W										
Pressure Switch	31.5	P4100-UN- -W										
	80	P4000- -W										
Residual Pressure Exhaust Valve	63	V3000- -W										
		V3010- -W										
L-type Piping Adapter ★	31.5	A401-UN- -W										
T-Bracket Set *1		B310-UN-W										
Joiner Set		C4000-J400-UN-W										

Precautions

Model numbers containing "UN" mean single units that do not include joiner sets, etc. However, "UN" may also be indicated for the T type bracket set and joiner set. In this case, this is the model No. dedicated to customized combination.

When selecting pressure switch P4100-UN-W at the end of the combination, add a piping adapter (A400-UN-W, A401-UN-W) to that end. (Because there are no threads on the horizontal ports.)
When installing the residual pressure exhaust valve V3000-W and residual pressure exhaust valve with key hole V3010-W on the primary side of the regulator or filter regulator, select the reverse regulator R3100-W or reverse filter regulator W3100-W.

*1 : The distance from the piping center to the mounting surface is 45 mm.

Technical Confirmation No. :

Approved

Reviewed

Person in Charge

Technical Comments Column		

C4000 Series Custom Combination Specification Sheet

Person in Charge
Slip No.

Quantity
Delivery Date (Month/Day)

Set

Date of Issue / /
Company
Contact Person
Order No.

● Model No. **C4000-UN-** -

*1 : 20mm for port sizes 8, 10 and 15,
and 25mm for 20.
*2 : The distance from the piping center to
the mounting surface is 55 mm.

Fluid Direction	
Blank	Left → Right
X1	Right → Left

Technical Confirmation No.

★For products marked with , please enter the up/down direction.
For regulators, indicate the direction of the knob, and for
others, indicate the direction of the port as Up/Down.

Indicate the installation position from
the left when seen from the front.

Name	Face-to-Face Dimension	Model No.	Direction	Installation Position								Technical Usage Column
Piping Adapter	*1	A400-UN- -W										
Air Filter	63	F3000- -W										
	80	F4000- -W										
Filter Regulator	63	W3000- -W										
		W3100- -W										
		W4000- -W										
	80	W4100- -W										
Regulator ★	63	R3000- -W										
		R3100- -W										
		R4000- -W										
	80	R4100- -W										
Oil Mist Filter	63	M3000- -W										
	80	M4000- -W										
Lubricator	63	L3000- -W										
	80	L4000- -W										
Distributor ★	31.5	D401-UN-00- -W										
Distributor	42	D300- -W										
Pressure Switch	31.5	P4100-UN- -W										
	80	P4000- -W										
Residual Pressure Exhaust Valve	63	V3000- -W										
		V3010- -W										
L-type Piping Adapter ★	31.5	A401-UN- -W										
T-Bracket Set	*2	B410-UN-W										
Joiner Set		C4000-J400-UN-W										

Precautions

Model numbers containing "UN" mean single units that do not include joiner sets, etc.
However, "UN" may also be indicated for the T type bracket set and joiner set. In this case, this
is the model No. dedicated to customized combination.

When selecting pressure switch P4100-UN-W at the end of the combination, add a piping adapter (A400-
UN-W, A401-UN-W) to that end. (Because there are no threads on the horizontal ports.)
When installing the residual pressure exhaust valve V3000-W and residual pressure exhaust valve with key
hole V3010-W on the primary side of the regulator or filter regulator, select the reverse regulator R4100-W
or reverse filter regulator W4100-W.

Technical Confirmation No. :

Approved	Reviewed	Person in Charge

Technical Comments Column		

C6000 Series Custom Combination Specification Sheet

Person in Charge
Slip No.

Quantity
Delivery Date (Month/Day)

Set

Date of Issue / /
Company
Contact Person
Order No.

● Model No. **C6000-UN-** -

Fluid Direction	
Blank	Left → Right
X1	Right → Left

Technical Confirmation No.

★For products marked with, please enter the up/down direction.
For regulators, indicate the direction of the knob, and for
others, indicate the direction of the port as Up/Down.

Indicate the installation position from
the left when seen from the front.

Name	Face-to-Face Dimension	Model No.	Direction	Installation Position								Technical Usage Column
Piping Adapter	*1	A800-UN- -W										
Air Filter	90	F6000- -W										
	100	F8000- -W										
Filter Regulator	100	W8000- -W										
		W8100- -W										
Regulator ★	90	R6000- -W										
		R6100- -W										
	100	R8000- -W										
		R8100- -W										
Oil Mist Filter	90	M6000- -W										
	100	M8000- -W										
Lubricator	100	L8000- -W										
Distributor ★	50	D801-UN-00- -W										
Pressure Switch	50	P8100-UN- -W										
Residual Pressure Exhaust Valve	90	V6010- -W										
L-type Piping Adapter ★	50	A801-UN- -W										
T-Bracket Set	*2	B810-UN-W										
Joiner Set		C8000-J800-UN-W										

Precautions

Model numbers containing "UN" mean single units that do not include joiner sets, etc.
However, "UN" may also be indicated for the T type bracket set and joiner set. In this case, this
is the model No. dedicated to customized combination.

When selecting pressure switch P8100-UN-W at the end of the combination, add a piping adapter (A800-
UN-W, A801-UN-W) to that end. (Because there are no threads on the horizontal ports.)
When installing the residual pressure exhaust valve with key hole V6010-W on the primary side of the
regulator or filter regulator, select the reverse regulator R6100-W, R8100-W, or reverse filter regulator
W8100-W.

*1 : Port size 20/25 is 35 mm, 32 is 38 mm.
*2 : The distance from the piping center to the mounting surface is 65 mm.

Technical Confirmation No. :

Approved	Reviewed	Person in Charge

Technical Comments Column		

C8000 Series Custom Combination Specification Sheet

Person in Charge

Slip No.

Quantity

Delivery Date (Month/Day)

Set

Date of Issue

/

/

Company

Contact Person

Order No.

MEMO

● Model No. C8000-UN- -

*1 : 35mm for port sizes 20 and 25, and 38mm for 32.
*2 : The distance from the piping center to the mounting surface is 65 mm.

Fluid Direction	
Blank	Left → Right
X1	Right → Left

Technical Confirmation No.

★For products marked with, please enter the up/down direction.

For regulators, indicate the direction of the knob, and for others, indicate the direction of the port as Up/Down.

Indicate the installation position from the left when seen from the front.

Name	Face-to-Face Dimension	Model No.	Direction	Installation Position								Technical Usage Column
Piping Adapter	*1	A800-UN- -W										
Air Filter	100	F8000- -W										
Filter Regulator	100	W8000- -W										
		W8100- -W										
Regulator ★	100	R8000- -W										
		R8100- -W										
Oil Mist Filter	100	M8000- -W										
Lubricator	100	L8000- -W										
Distributor ★	50	D801-UN-00- -W										
Pressure Switch	50	P8100-UN- -W										
Residual Pressure Exhaust Valve	90	V6010- -W										
L-type Piping Adapter ★	50	A801-UN- -W										
T-Bracket Set	*2	B810-UN-W										
Joiner Set		C8000-J800-UN-W										

Precautions

Model numbers containing "UN" mean single units that do not include joiner sets, etc. However, "UN" may also be indicated for the T type bracket set and joiner set. In this case, this is the model No. dedicated to customized combination.

When selecting pressure switch P8100-UN-W at the end of the combination, add a piping adapter (A800-UN-W, A801-UN-W) to that end. (Because there are no threads on the horizontal ports.)
When installing the residual pressure exhaust valve with locking hole V6010-W on the primary side of the Regulators and filter Regulators, select "R8100-W":[""]}} or reverse filter regulator W8100-W.

Technical Confirmation No. :

Approved	Reviewed	Person in Charge

Technical Comments Column		

Air Preparation Components

F.R.L.

Filter
Regulator

Filter

Regulator

Lubricator

Drain
Separator

Mechanical
Pressure SW

Residual
Pressure
Exhaust Valve

Slow Start
Valve

Antibacterial/
Bacteria
Removing Filter

Ozone
FR

Siloxane/
OzoneRemover

Flame
Resistant FR

Oil-free
Regulator

Medium
Pressure FR

No copper/
PTFE/
Specification

Air Unit
Equipment

Adapter
Joiner

Pressure
Gauge

Compact
F.R.L.

Large
F.R.L.

Precision
Regulator

Clean
FR

Electro-
Pneumatic
Regulator

Air
Booster

Ending

Air Preparation Components

F.R.L.

Filter
Regulator

Filter

Regulator

Lubricator

Drain
Separator

Mechanical
Pressure SW

Residual
Pressure
Exhaust Valve

Slow Start
Valve

Antibacterial/
Bacteria
Removing Filter

Ozone
FR

Siloxane/
OzoneRemover

Flame
Resistant FR

Oil-free
Regulator

Medium
Pressure FR

No copper/
PTFE/
Specification

Air Unit
Equipment

Adapter
Joiner

Pressure
Gauge

Compact
F.R.L.

Large
F.R.L.

Precision
Regulator

Clean
FR

Electro-
Pneumatic
Regulator

Air
Booster

Ending