



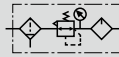
W.L. combination Standard White Series

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

Integrated filter, regulator and lubricator

● Port size: 1/8 to 1

JIS symbol



Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

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

- *1: The min. drip flow is that at which five drops of turbine oil drip per minute at the set pressure of 0.5 MPa.
 *2: When using C1010-W Series "F1" with auto-drain, the min. working pressure is 0.2 MPa and max. working pressure is 0.7 MPa. Refer to the max. working flow rate table (page 96) for F1000-W-F1 auto-drain for the max. working flow rate. Set the working flow rate to less than or equal to the max. working flow rate.
 *3: Up to 170 cm³ is stored with the manual drain cock only.
 *4: In the case of "F" or "FF" with auto-drain, the min. working pressure of auto-drain is 0.1 MPa. Air is purged with initial drain until pressure reaches 0.1 MPa.
 *5: In the case of "F1" or "FF1" with auto-drain, the min. working pressure of auto-drain is 0.15 MPa.
 *6: When element option "Y" is selected, refer to the max. working flow rate table (page 98) for the max. flow rate. Set the working flow rate to less than or equal to the max. working flow rate.
 *7: C2010-W Series with "F1" (with auto-drain) must be used at equal to or less than the max. working flow rate. (Refer to the F2000-W section on page 96 for max. flow rate.)

Option weight

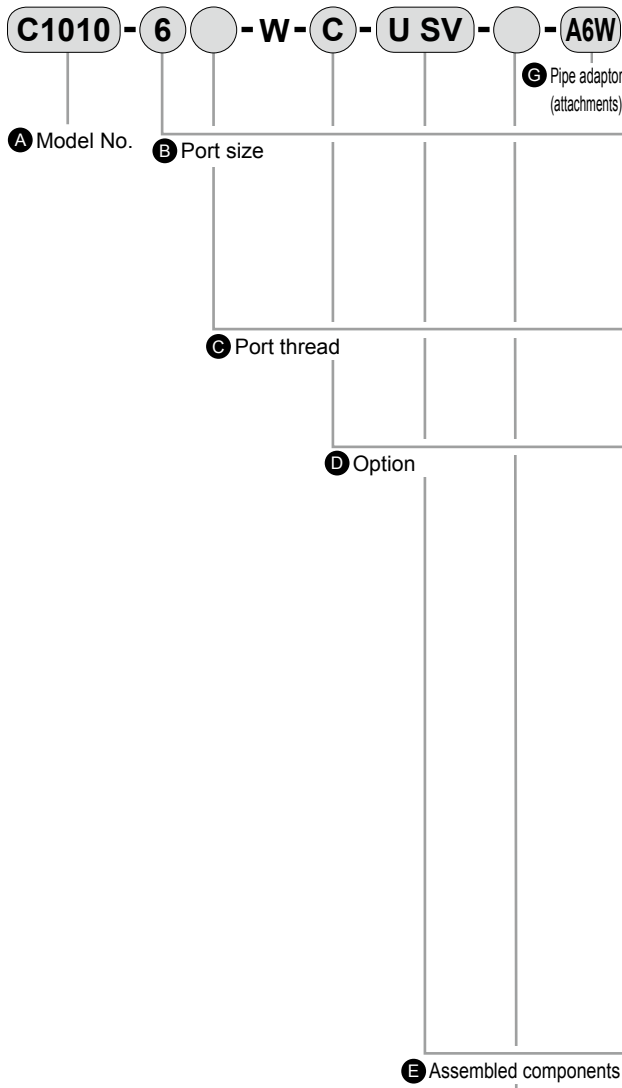
* Add to the weight of the standard accessories.

Unit: kg

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

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

How to order



* Refer to page 28 for the explanation of the option.

		A Model No.				
		C1010	C2010	C3010	C4010	C8010
B Port size		Code	Content			
6	1/8	●				
8	1/4	●	●			
10	3/8		●	●		
15	1/2				●	
20	3/4				●	●
25	1					●
C Port thread		*2				
Blank	Rc thread	●	●	●	●	●
N	NPT thread	●	●	●	●	●
G	G thread	●	●	●	●	●
D Option		*3				
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)			●	●
	F1	Filter/auto-drain with manual override (NC: No exhaust when not pressurized)	●	●	●	●
	FF	Filter/large auto-drain with manual override (NO: Exhaust when not pressurized)				●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●
	Z	Nylon bowl	●	●	●	●
	M	Metal bowl			●	●
	M1	Metal bowl with manual drain cock *5			●	●
Element	Blank	5 μm	●	●	●	●
	Y	0.3 μm (submicron) *6			●	●
Pressure Range	Blank	0.05 to 0.85 MPa	●	●	●	●
	L	0.05 to 0.35 MPa *7	●	●	●	●
Pressure relief	Blank	With relief mechanism	●	●	●	●
	N	Non-relief	●	●	●	●
Pressure gauge	Blank	With standard pressure gauge (G401-W)	●	●	●	●
	T	No pressure gauge (gauge port (1/4) is assembled sealed)	●	●	●	●
	T8	Pressure gauge ready (gauge port (1/4) is left open)	●	●	●	●
Flow Direction	Blank	Standard flow (left → right)	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●
E Assembled components		Pages 148 to 159, 268 and 269				
Assembled component	Blank	Without assembled component	●	●	●	●
	U	Assembled component *8	●	●	●	●
	S	Pressure switch (P1100-W, 4100-W, 8100-W)	●	●	●	●
	P	Pressure switch (P4000-W)		●	●	●
	V	Shut-off valve (V1000-W, 3000-W)	●	●	●	●
	K	Shut-off valve with keyhole (V3010-W, V6010-W)		●	●	●
F Display unit						
Blank	MPa display, Rc thread	●	●	●	●	
J1	MPa display, NPT, G thread	●	●	●	●	
G Pipe adaptor set (attachments)		Page 271 *9				
Blank	Not attached	●	●	●	●	
A6*W	1/8 pipe adaptor set	●				
A8*W	1/4 pipe adaptor set	●	●	●		
A10*W	3/8 pipe adaptor set	●	●	●		
A15*W	1/2 pipe adaptor set		●	●	●	
A20*W	3/4 pipe adaptor set				●	
A25*W	1 pipe adaptor set				●	
A32*W	1 1/4 pipe adaptor set				●	
* Adaptor thread						
Blank	Rc thread	●	●	●	●	
N	NPT thread	●	●	●	●	
G	G thread	●	●	●	●	
H Pressure gauge option (attachments)		Page 289 *10				
Blank	Not 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)	●		●	●	
G40P	G40D-8-P10(L:G40D-8-P04)	●	●	●	●	
G52P	G52D-8-P10(L:G52D-8-P10)	●	●	●	●	

⚠ Precautions for model No. selection

- *1: Pipe adaptor A400-20*W is assembled on both ends of C4010-20*W. A20*W does not need to be selected for the pipe adaptor set.
- *2: G threads and NPT threads are available for IN, OUT, gauge port and drain outlet (metal bowl with auto-drain). Attachments P and V are also included.
- *3: Select options for the drainage, bowl material, element, and regulator. When selecting options for several items, list options in order from the top.
- *4: Refer to page 280 for the auto-drain usage conditions.
- *5: When selecting option "M1", select the drain discharge option "C".
- *6: Refer to page 98 for max. processing flow rate when option "Y" is selected.
- *7: The pressure gauge's indication range is 0 to 0.4 MPa for the option "L".
- *8: Installation position for assembled components

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

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

F.R.L

- F (Filtr)
- R (Reg)
- L (Lub)
- PresSW
- Shutoff
- SlowStart
- FimResistFR
- Oil-ProhR
- MedPresFR
- No Cu/ PTFE FRL
- Outdrs FR
- F.R.L (Related)
- CompFRL
- LgFRL
- PrecsR
- VacF/R
- Clean FR
- ElecPneuR
- AirBoost
- SpdContr
- Silncr
- CheckV/ other
- Jnt/tube
- AirUnt
- PrecsCompn
- Mech/ ElecPresSw
- ContactSW
- AirSens
- PresSW Cool
- AirFloSens/ Contr
- WaterRISens
- TotAirSys (Total Air)
- TotAirSys (Gamma)
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg etc
- Ending

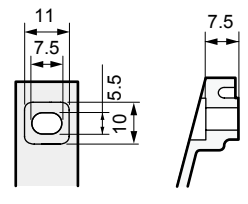
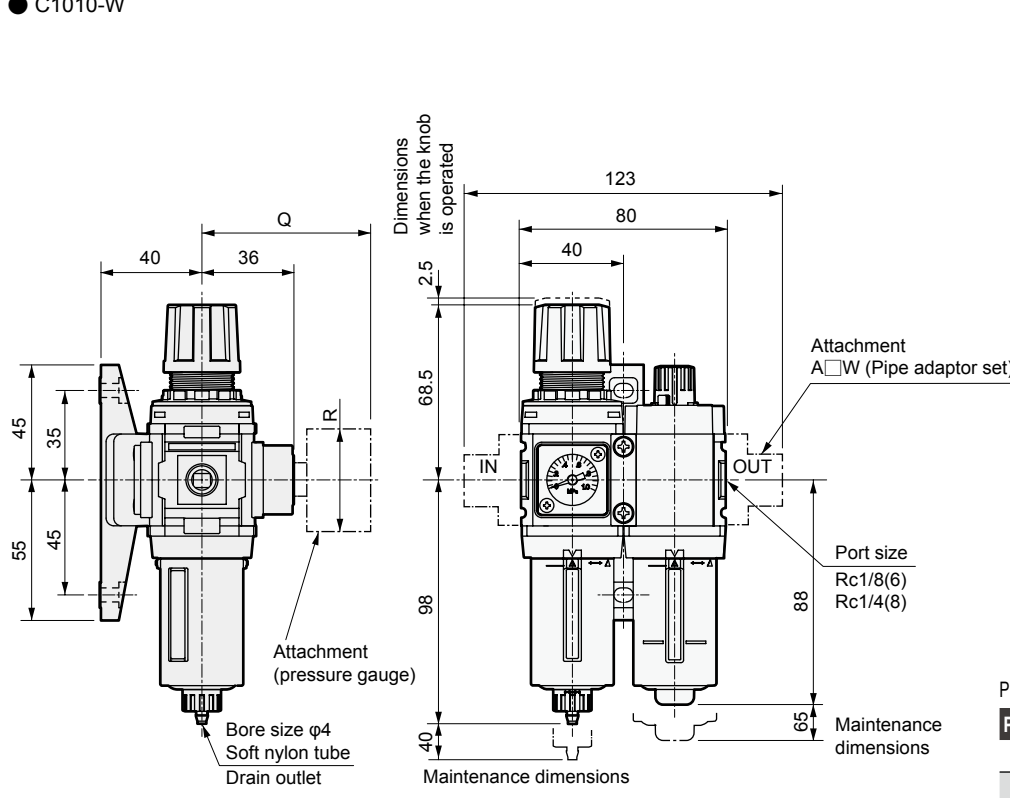
W.L. Combination



Dimensions

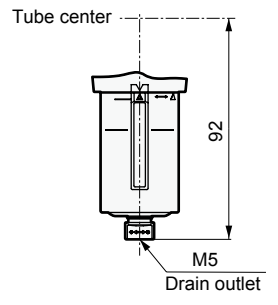
- F.R.L
- F (Filtr)
- R (Reg)
- L (Lub)
- PresSW
- Shutoff
- SlowStart
- FimResistFR
- Oil-ProhR
- MedPresFR
- No Cu/PTFE FRL
- Outdrs FR
- F.R.L (Related)
- CompFRL
- LgFRL
- PrecsR
- VacF/R
- Clean FR
- ElecPneuR
- AirBoost
- SpdContr
- Silncr
- CheckV/other
- Jnt/tube
- AirUnt
- PrecsCompn
- Mech/ElecPresSw
- ContactSW
- AirSens
- PresSW Cool
- AirFloSens/Contr
- WaterRtSens
- TotAirSys (Total Air)
- TotAirSys (Gamma)
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg etc
- Ending

● C1010-W



Enlarged view of bracket section

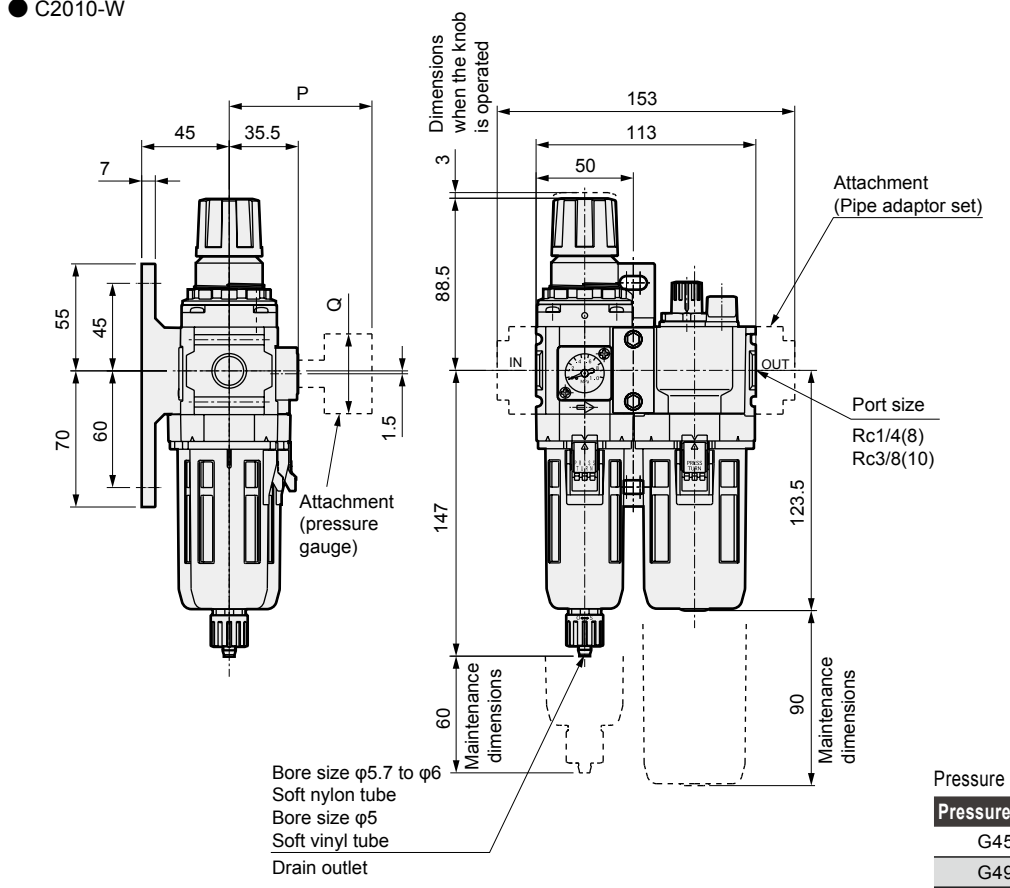
Optional dimensions With auto-drain (F1)



Pressure gauge attached optional dimensions table

Pressure gauge	Q	R
G45P	(74)	φ39
G49P	(73.5)	φ43.5
G59P	(76)	φ52
G40P	(75.5)	φ42.5
G52P	(86)	φ52.5

● C2010-W



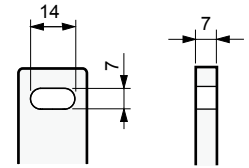
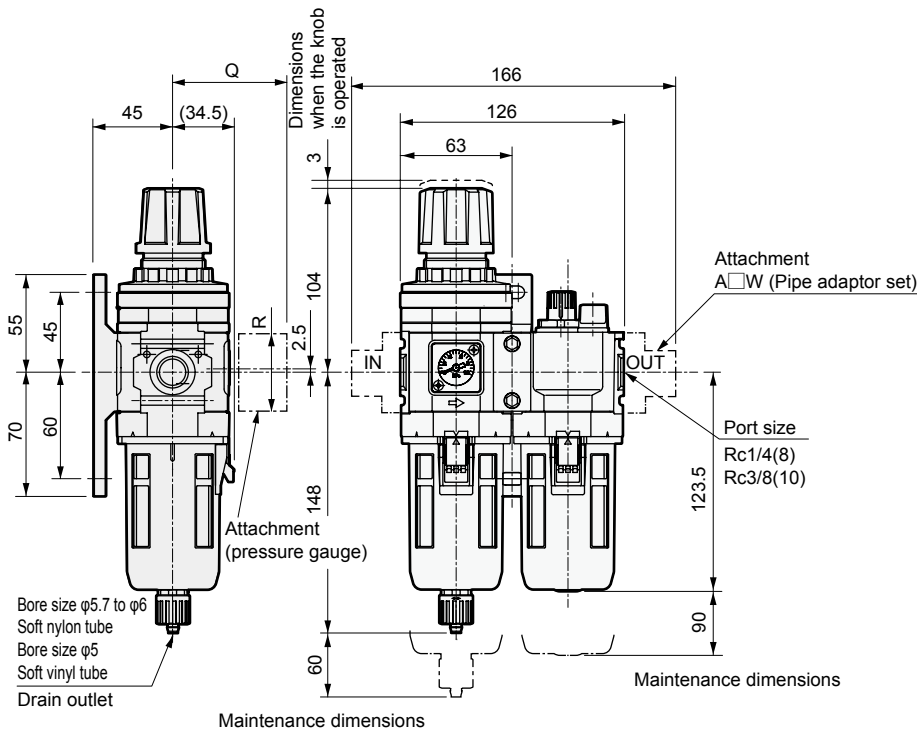
Pressure gauge attached optional dimensions table

Pressure gauge	P	Q
G45P	(73.5)	φ39
G49P	(73)	φ43.5
G40P	(75)	φ42.5
G52P	(85.5)	φ52.5

Dimensions



● C3010-W



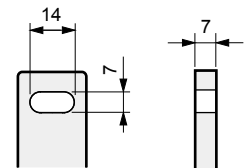
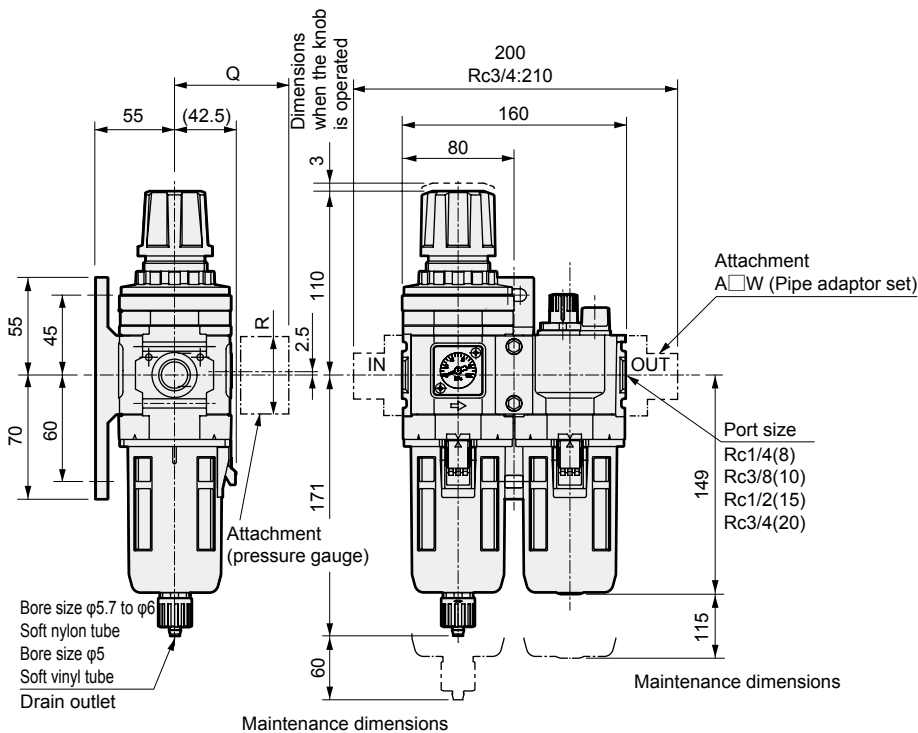
Enlarged view of bracket section

Pressure gauge attached optional dimensions table

Pressure gauge	Q	R
G45P	(70)	φ39
G49P	(69.5)	φ43.5
G59P	(72)	φ52
G40P	(71.5)	φ42.5
G52P	(82)	φ52.5

● Refer to page 86 for the dimensions of the metal bowl option filter/regulator and page 146 for the lubricator.

● C4010-W



Enlarged view of bracket section

Pressure gauge attached optional dimensions table

Pressure gauge	Q	R
G45P	(75)	φ39
G49P	(74.5)	φ43.5
G59P	(77)	φ52
G40P	(76.5)	φ42.5
G52P	(86)	φ52.5

* Refer to page 86 for the dimensions of the metal bowl option filter/regulator and page 146 for the lubricator.

F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FmResistFR
Oil-ProhR
MedPresFR
No Cu/ PTFE FRL
Outdrs FR
F.R.L (Related)
CompFRL
LgFRL
PrescR
VacF/R
Clean FR
ElecPneuR
AirBoost
SpdContr
Silncr
CheckV/ other
Jnt/tube
AirUnt
PresCompn
Mech/ ElecPresSw
ContactSW
AirSens
PresSW Cool
AirFloSens/ Contr
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

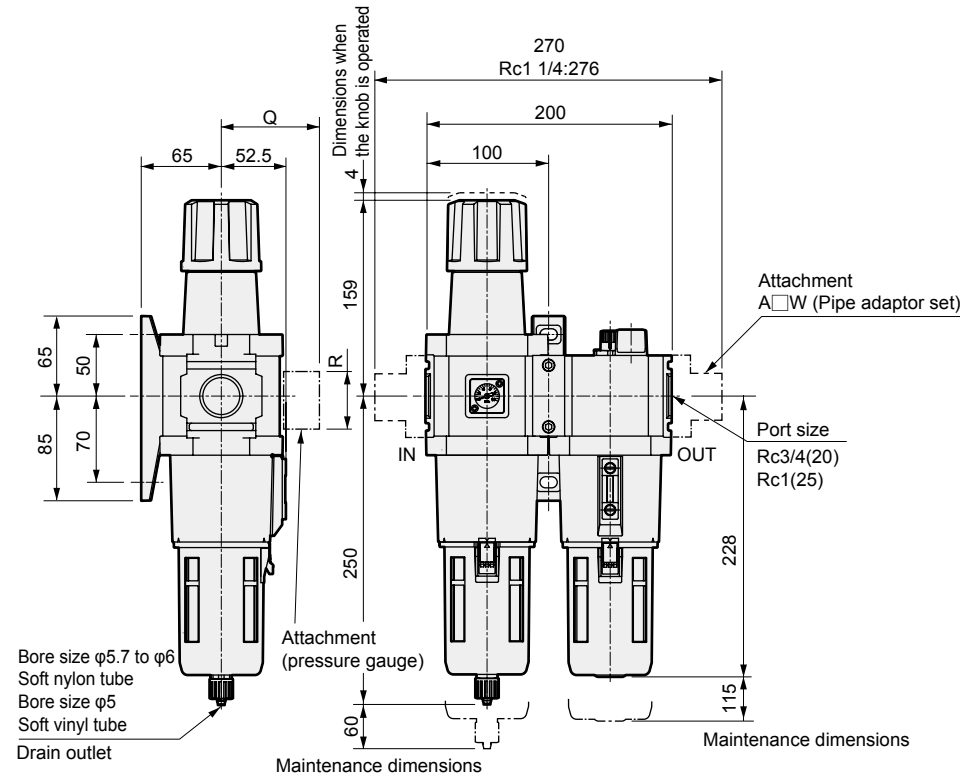
W.L. Combination



- F.R.L
- F (Filtr)
- R (Reg)
- L (Lub)
- PresSW
- Shutoff
- SlowStart
- FimResistFR
- Oil-ProhR
- MedPresFR
- No Cu/PTFE FRL
- Outdrs FR
- F.R.L (Related)
- CompFRL
- LgFRL
- PrecsR
- VacF/R
- Clean FR
- ElecPneuR
- AirBoost
- SpdContr
- Silncr
- CheckV/other
- Jnt/tube
- AirUnt
- PrecsCompn
- Mech/ElecPresSw
- ContactSW
- AirSens
- PresSW Cool
- AirFloSens/Contr
- WaterRtSens
- TotAirSys (Total Air)
- TotAirSys (Gamma)
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg etc
- Ending

Dimensions

● C8010-W



Pressure gauge attached optional dimensions table

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

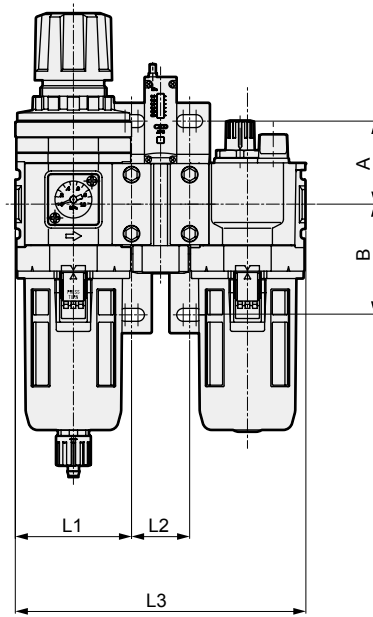
● Refer to page 86 for the dimensions of the metal bowl option filter/regulator and page 146 for the lubricator.

W.L. Combination

Option assembly dimensions

Option assembly 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		

Assembled option Model No.	S			P			V			K			SV			SK			PV			PK		
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
C1010-W	40	28	108	-	-	-	40	40	120	-	-	-	40	68	148	-	-	-	-	-	-	-	-	-
C2010-W	50	31.5	144.5	50	80	193	50	63	176	50	63	176	50	94.5	207.5	50	94.5	207.5	50	143	256	50	143	256
C3010-W	63	31.5	157.5	63	80	206	63	63	189	63	63	189	63	94.5	220.5	63	94.5	220.5	63	143	269	63	143	269
C4010-W	80	31.5	191.5	80	80	240	80	80	223	80	80	223	80	111.5	271.5	80	111.5	271.5	80	160	303	80	160	303
C4010-20-W ^{*1}	100	31.5	231.5	100	80	280	100	80	263	100	80	263	100	111.5	294.5	100	111.5	294.5	100	160	343	100	160	343
C8010-W	100	50	250	-	-	-	-	-	-	100	100	290	-	-	-	100	150	340	-	-	-	-	-	-

L1: Dimensions from the IN edge to center of the T type bracket mounting hole

L2: Spacing dimensions of the mounting hole from the first T type bracket to the second T type bracket

L3: Dimensions from the IN edge to the OUT edge

* Refer to page 267 for details on bracket mounting hole dimensions.

*1: The pipe adaptor is assembled on the OUT side.

As well, the pipe adaptor A400-20-W is assembled on both ends of C4010-20-W.

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
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Outdrs FR
F.R.L (Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
SpdContr
Silncr
CheckV/ other
Jnt/tube
AirUnt
PrecsCompn
Mech/ ElecPresSW
ContactSW
AirSens
PresSW Cool
AirFloSens/ Contr
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending