

Refrigerating type dryer
 Desiccant type dryer
 High polymer membrane dryer
 Air filter
 Auto. drain / others
 F.R.L. (Module unit)
 F.R.L. (Separate)
 Compact F.R.
 Precise regulator
 F.R.L. (Related products)
 Clean F.R.
 Electro pneumatic regulator
 Air booster
 Speed control valve
 Silencer
 Check valve / others
 Joint / tube
 Vacuum filter
 Vacuum regulator
 Suction plate
 Magnetic spring buffer
 Mechanical pressure SW
 Electronic pressure SW
 Contact / close contact conf. SW
 Air sensor
 Pressure SW for coolant
 Small flow sensor
 Small flow controller
 Flow sensor for air
 Flow sensor for water
 Total air system
 Total air system (Gamma)
 Ending



Filter and regulator

W1000/W3000/W4000/W8000 Series

New Series of 5 μ m elements for dust removal, and 0.3 μ m elements for tar removal
 Port size: 1/8 to 1

JIS symbol



Specifications

Descriptions	W1000	W3000	W4000	W8000
Appearance				
Working fluid	Compressed air			
Max. working pressure MPa	1.0 Note 2, 3, 4			
Withstanding pressure MPa	1.5 Note 2			
Ambient temperature range °C	5 to 60 Note 5			
Filtration rating μ m	5	5 or 0.3		
Set pressure range MPa	0.05 to 0.85 Note 2		0.05 to 0.85	
Relief	With relief mechanism			
Drain capacity cm ³	12	45	80	80 (Note 1)
Port size Rc, NPT, G	1/8, 1/4 (3/8 uses an adapter)	1/4, 3/8 (1/2 uses an adapter)	1/4, 3/8, 1/2 (3/4 uses an adapter)	3/4, 1 (1 1/4 uses an adapter)
Product weight kg	0.175	0.6	0.9	2.0
Standard accessories	Pressure gauge, bowl guard			

Note 1: Drainage accumulates up to 170 cm³ only with the manual drain cock.

Note 2: When "F1" with an automatic drain is selected for the W1000 series, minimum operating pressure is 0.2 MPa, maximum operation pressure is 0.7 MPa and the guaranteed pressure resistance is 1.05 MPa. Refer to the maximum processing flow table (page 318) for the F1000-F1 automatic drain for the maximum working flow.

The working flow must be less than the maximum working flow.

Note 3: Minimum operating pressure of automatic drain is 0.1MPa for " F " with automatic drain.

Air is purged with initial drainage until pressure reaches 0.1 MPa.

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

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

Ozone specifications (Ending 10)

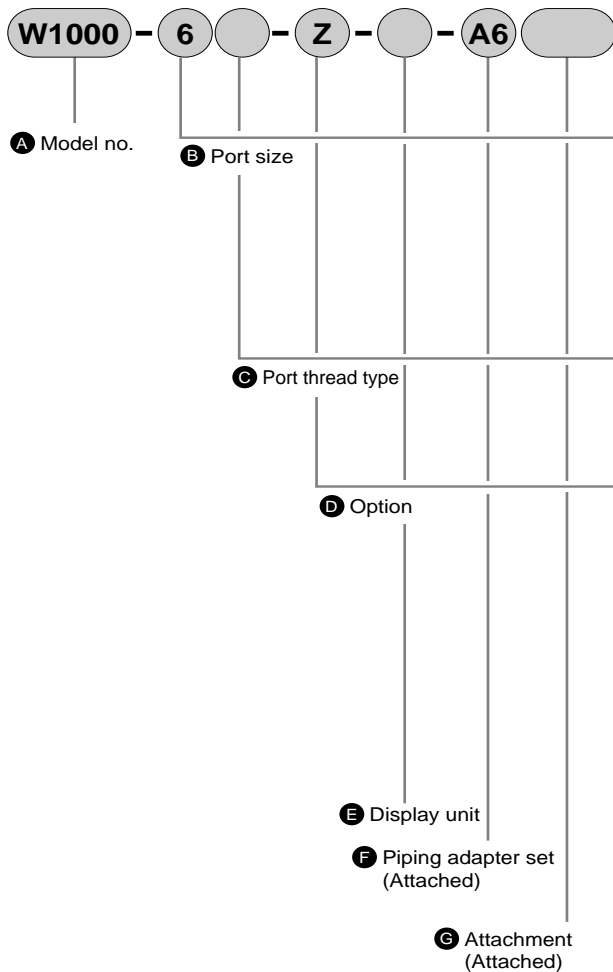
W*000 P11

Clean room specifications (Catalog No. CB-033SA)

● Dust generation preventing structure for use in cleanrooms

W*000 P7*

How to order



* Refer to page 244 for explanation of the option.

A Model no.			
W1000	W3000	W4000	W8000

Symbol	Descriptions	W1000	W3000	W4000	W8000
B Port size					
6	1/8	●			
8	1/4	●	●	●	
10	3/8		●	●	
15	1/2			●	
20	3/4				●
25	1				●
C Port thread type Note 1					
Blank	Rc thread	●	●	●	●
N	NPT thread	●	●	●	●
G	G thread	●	●	●	●
D Option Note 2					
Drainage	Blank	With manual drain cock	●	●	●
	F	Automatic drain with manual override (NO : exhaust w/o pressurized)		●	●
	F1	Automatic drain with manual override (NC : no exhaust w/o pressurized)	●	●	●
	FF	Automatic large drain with manual override (NO : exhaust w/o pressurized)			●
Note 3	FF1	Automatic large drain with manual override (NC : no exhaust w/o pressurized)			●
Bowl material	Blank	Polycarbonate bowl	●	●	●
	Z	Nylon bowl	●	●	●
	M	Metal bowl		●	●
Element	Blank	5 μm	●	●	●
	Y	0.3 μm (submicron) Note 4		●	●
Pressure range	Blank	0.05 to 0.85MPa	●	●	●
	L	0.05 to 0.35MPa	●	●	●
Relief	Blank	With relief mechanism	●	●	●
	N	Nonrelief type	●	●	●
Pressure gauge	Blank	With standard pressure gauge (G401)	●	●	●
	T	Without pressure gauge (Rc 1/4 gauge port is sealed)	●	●	●
	T8	Pressure gauge attached (pressure gauge port (Rc1/4) is assembled by open)	●	●	●
Flow direction	Blank	Standard flow (left to right)	●	●	●
	X1	Reverse flow (right to left)	●	●	●
E Display unit					
Blank	MPa display, Rc thread	●	●	●	●
J1	MPa display, NPT, G thread	●	●	●	●
F Piping adapter set (attached) Note 5 Pages 394 to 396					
Blank	Not attached	●	●	●	●
A6*	1/8 piping adapter set	●			
A8*	1/4 piping adapter set	●	●	●	
A10*	3/8 piping adapter set	●	●	●	
A15*	1/2 piping adapter set		●	●	
A20*	3/4 piping adapter set			●	●
A25*	1 piping adapter set				●
A32*	1 1/4 piping adapter set				●
*Adaptor screw type					
Blank	Rc thread	●	●	●	●
N	NPT thread	●	●	●	●
G	G thread	●	●	●	●
G Attachment (attached) Page 391, 687					
Blank	Not attached	●	●	●	●
B	C type bracket	●	●	●	●
B3 * Note 6	L type bracket	●	●	●	
G49P	G49D-8-P10 (L: G49D-8-P04)	●	●	●	●
G59P	G59D-8-P10 (L: G59D-8-P04)	●	●	●	●
G40P	G40D-8-P10 (L: G40D-8-P04)	●	●	●	●
G50P	G50D-8-P10 (L: G50D-8-P04)	●	●	●	●
G41P	G41D-8-P10 (L: G41D-8-P04)	●	●	●	●
G52P	G52D-8-P10 (L: G52D-8-P10)	●	●	●	●

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⚠ Note on model no. selection

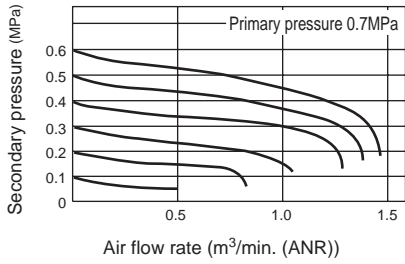
- Note 1: When G threads or NPT threads are selected, the IN, OUT, gauge port, and drainage discharge port (metal bowl automatic drain) are the target, as are attachments P and V.
- Note 2: Select options per drainage, bowl material, element, and regulator sections. When selecting options for several items, list options in order from the top.
- Note 3: Refer to page 246 for the automatic drain use conditions.
- Note 4: Refer to page 318 for maximum processing flow when option "Y" is selected.
- Note 5: The piping adapter set and C bracket cannot be used together.
- Note 6: Refer to Section (2. Regulator), in "⚠ PRECAUTIONS For Installation and Adjustment" (page 249) for details on mounting the L-type bracket.
- Note 7: If NPT is selected for the "C" piping thread type, a NPT pressure gauge is enclosed. If Rc or G thread is selected, an R thread pressure gauge is enclosed.

Standard Series
F.R.L. unit

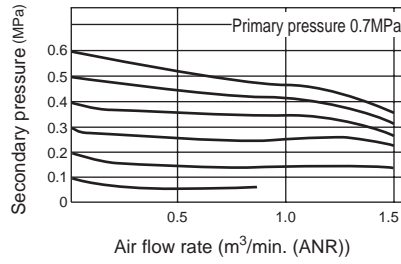
Filter/Regulator Series

Flow characteristics

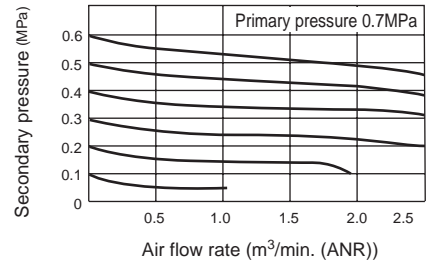
● W1000-6



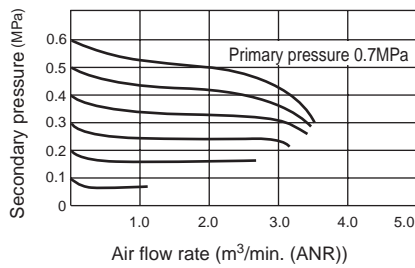
● W1000-8



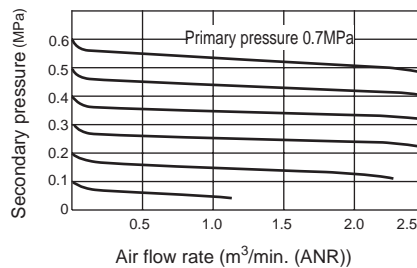
● W3000-8



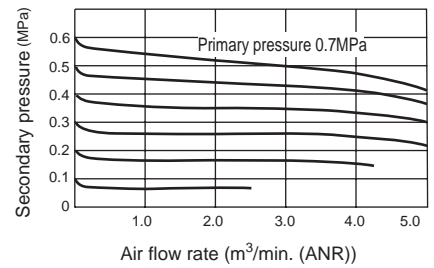
● W3000-10



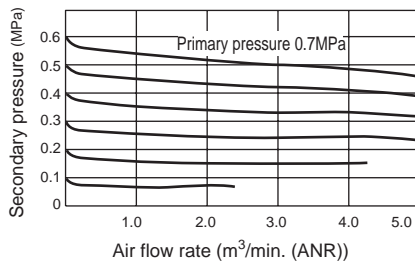
● W4000-8



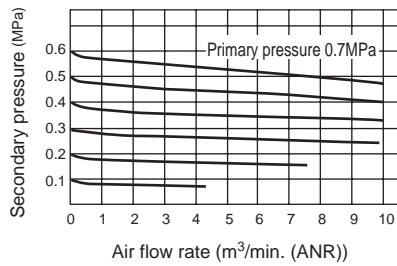
● W4000-10



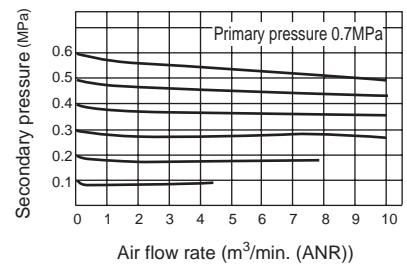
● W4000-15



● W8000-20

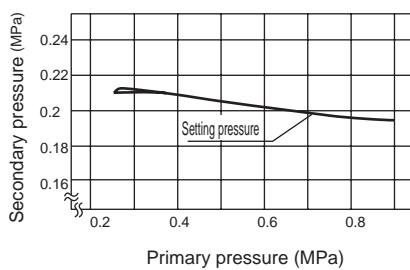


● W8000-25

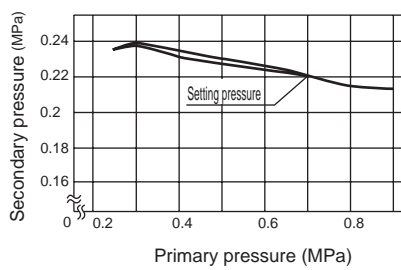


Pressure characteristics

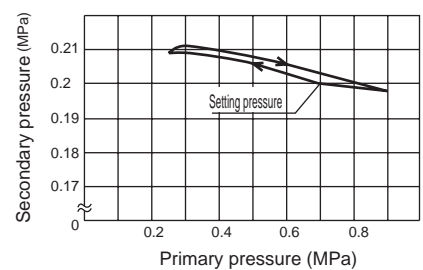
● W1000



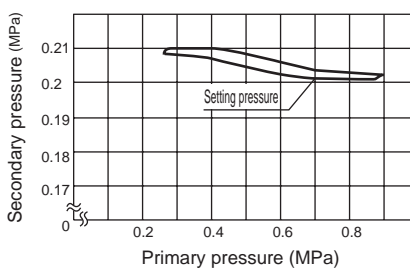
● W3000



● W4000



● W8000



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Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)
Ending

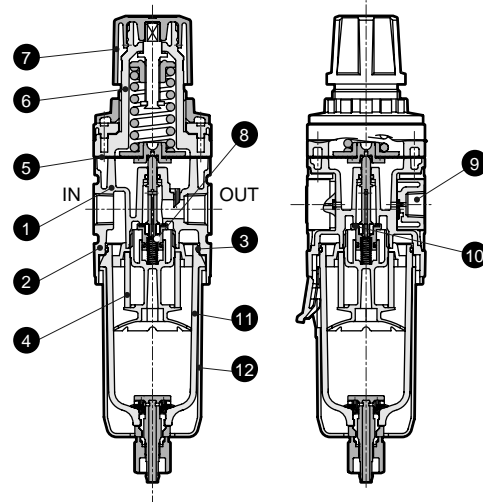
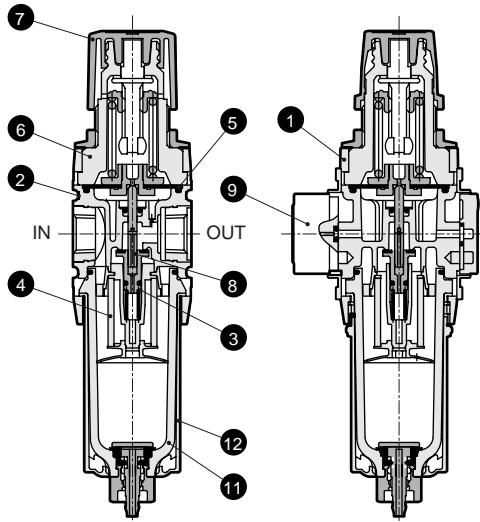
Filter/Regulator series

Internal structure and parts list

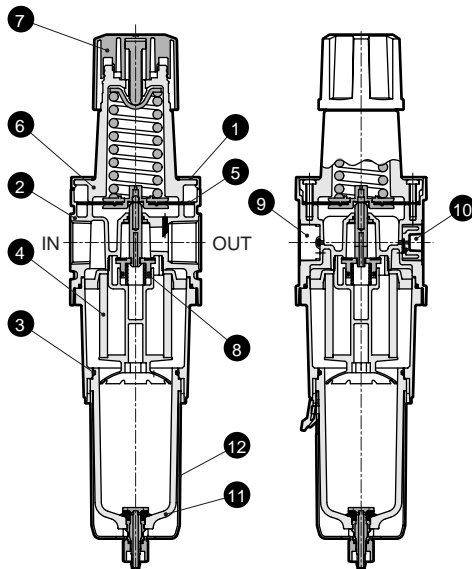
Internal structure and parts list

● W1000

● W3000 · W4000



● W8000



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No.	Parts name	Material			
		W1000	W3000	W4000	W8000
1	Palate cover	ABS resin			
2	Body	Polyamide resin, steel	Aluminium alloy die-casting		
3	O ring	Note 2	Special nitrile rubber		
4	Element	Note 1	Polypropylene		
5	Diaphragm assembly	Polyacetal resin Polypropylene	Zinc alloy die-casting, nitrile rubber		
6	Cover	Polyamide resin	PBT resin	Aluminium alloy die-casting	
7	Knob	Polyacetal resin			
8	Valve assembly	Brass, hydrogen nitrile rubber (polyacetal resin: W3000, W4000 only)			
9	Pressure gauge assembly	PBT resin, polyacetal resin, polycarbonate resin, nitrile rubber, brass, steel			
10	Gage plug assembly	-		Polyamide resin, nitrile rubber, steel	
	Blanking plug assembly	PBT resin, nitrile rubber, steel	-		
11	Bowl assembly	Polycarbonate resin, polyacetal resin, urethane resin			
12	Bowl guard	Polyamide resin	Polyamide resin		

Note 1: W1000 is element assembly.

Note 2: O-ring of W1000 is special shaped.

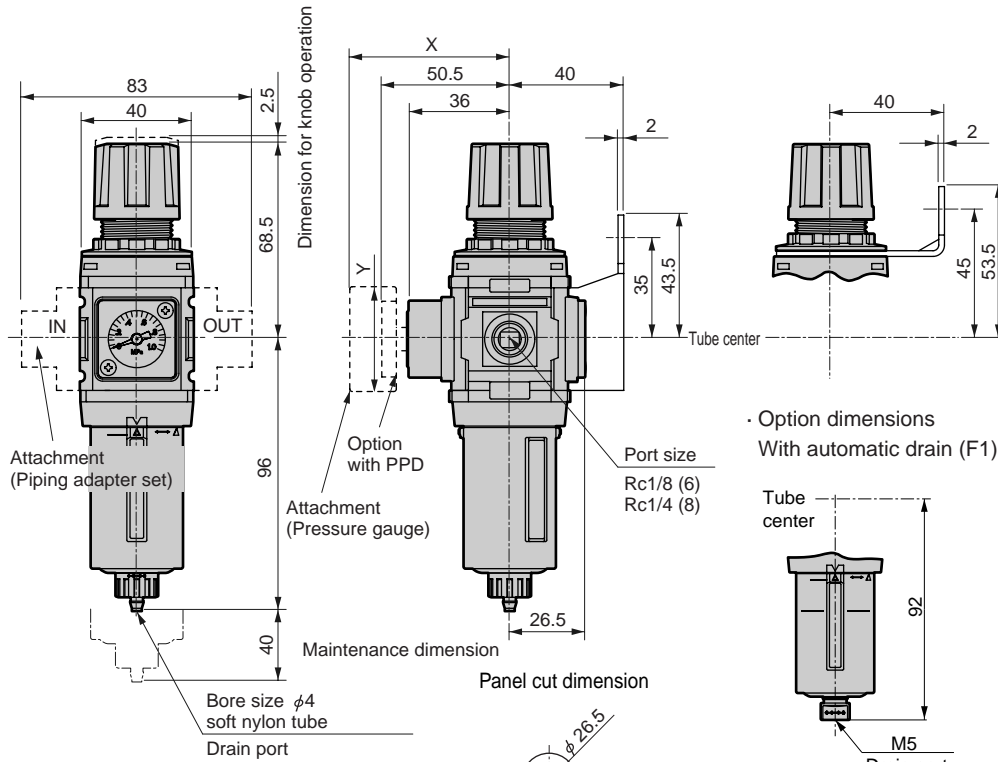
Standard Series
F.R.L. unit

Filter/Regulator Series

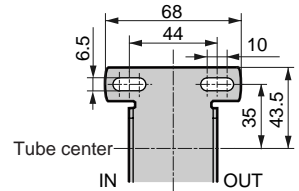
Dimensions



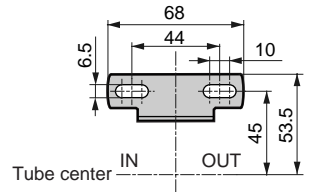
● W1000



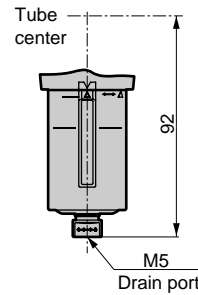
· Attachment
C type bracket (-B)
Part model no.: B120



L type bracket (-B3)
Part model no.: B130



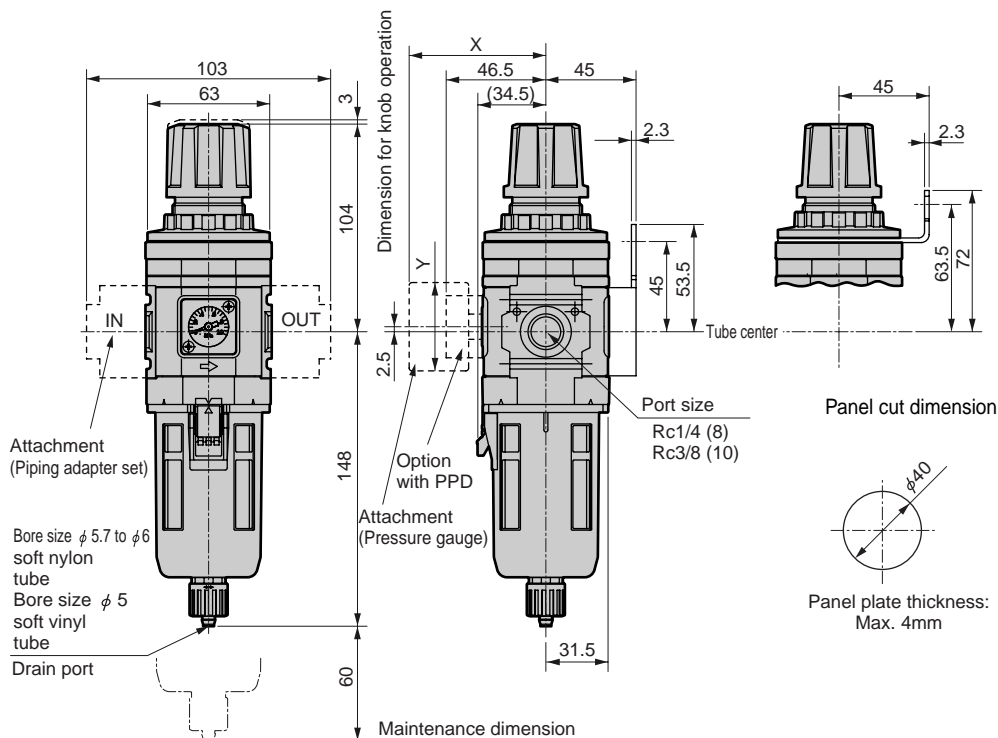
· Option dimensions
With automatic drain (F1)



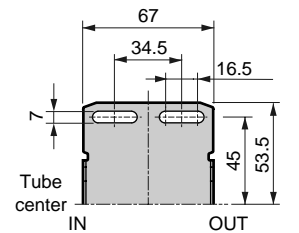
Pressure gauge attached optional dimensions table

Attached pressure gauge	X	Y
G49P	(73.5)	φ 43.5
G59P	(76)	φ 52
G40P	(75.5)	φ 42.5
G50P	(75.5)	φ 52.5
G41P	(74)	φ 42
G52P	(86)	φ 52.5

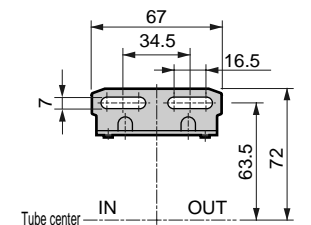
● W3000



· Attachment
C type bracket (-B)
Part model no.: B320



L type bracket (-B3)
Part model no.: B330



Pressure gauge attached optional dimensions table

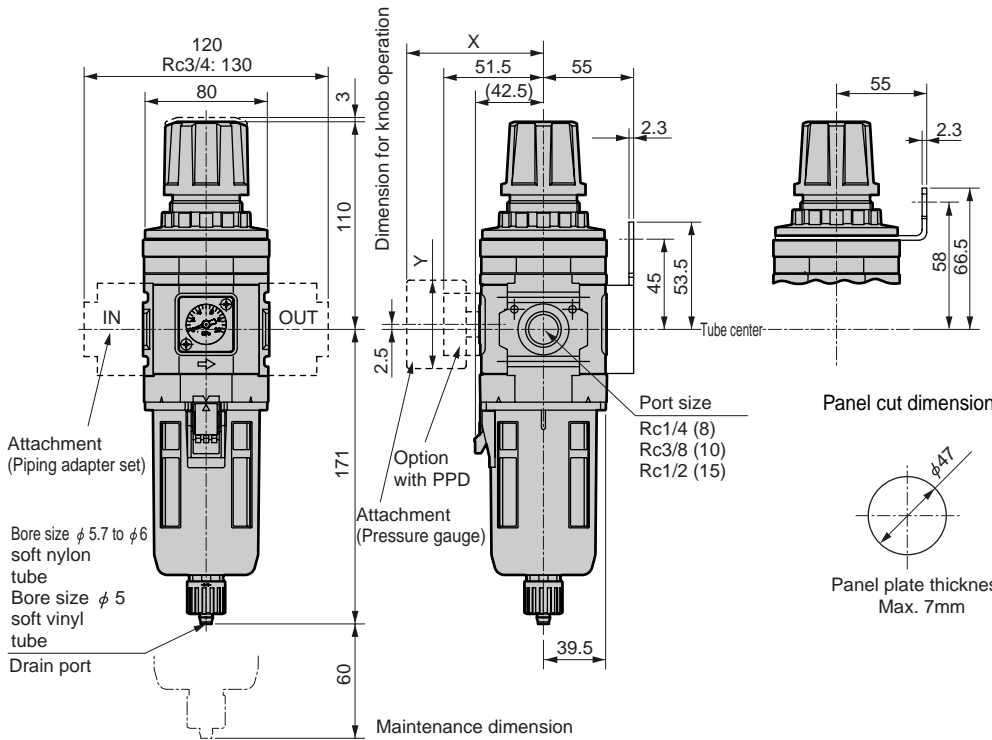
Attached pressure gauge	X	Y
G49P	(69.5)	φ 43.5
G59P	(72)	φ 52
G40P	(71.5)	φ 42.5
G50P	(71.5)	φ 52.5
G41P	(70)	φ 42
G52P	(82)	φ 52.5

● For the plastic bowl, the dimensions of the manual cock and the automatic drain are same.

Dimensions

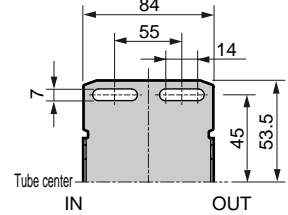


● W4000

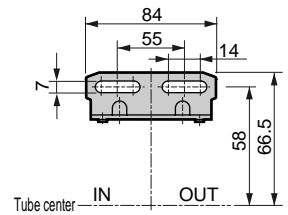


● For the plastic bowl, the dimensions of the manual cock and the automatic drain are same.

Attachment
C type bracket (-B)
Part model no.: B420



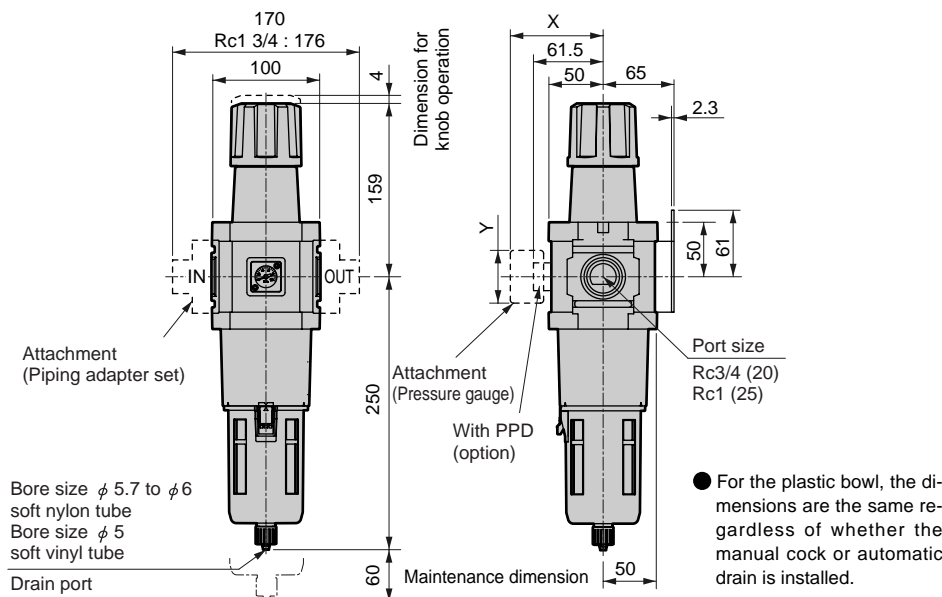
L type bracket (-B3)
Part model no.: B430



Pressure gauge attached optional dimensions table

Attached pressure gauge	X	Y
G49P	(74.5)	ϕ 43.5
G59P	(77)	ϕ 52
G40P	(76.5)	ϕ 42.5
G50P	(76.5)	ϕ 52.5
G41P	(75)	ϕ 42
G52P	(86)	ϕ 52.5

● W8000

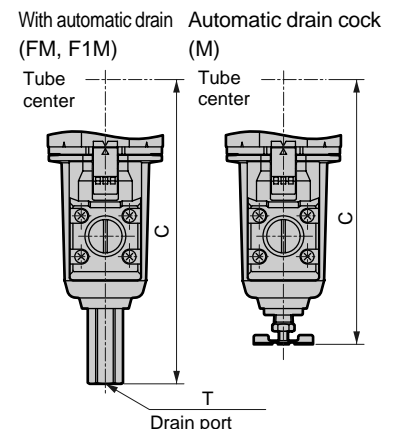


● For the plastic bowl, the dimensions are the same regardless of whether the manual cock or automatic drain is installed.

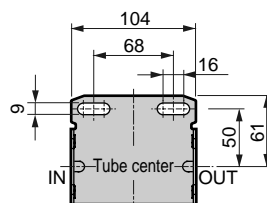
Optional dimensions



● Metal bowl (option) (W3000, 4000, 8000)



Attachment
C type bracket (-B)
Part model no.: B820



Pressure gauge attached optional dimensions table

Attached pressure gauge	X	Y
G49P	(84.5)	ϕ 43.5
G59P	(87)	ϕ 52
G40P	(86.5)	ϕ 42.5
G50P	(86.5)	ϕ 52.5
G41P	(85)	ϕ 42
G52P	(98)	ϕ 52.5

Dimensions

Model no.	With automatic drain		Manual cock
	C	T	
W3000	163.5	Rc1/4	143.5
W4000	187	Rc1/4	166.5
W8000	266	Rc1/4	245.5

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Standard Series
F.R.L. unit