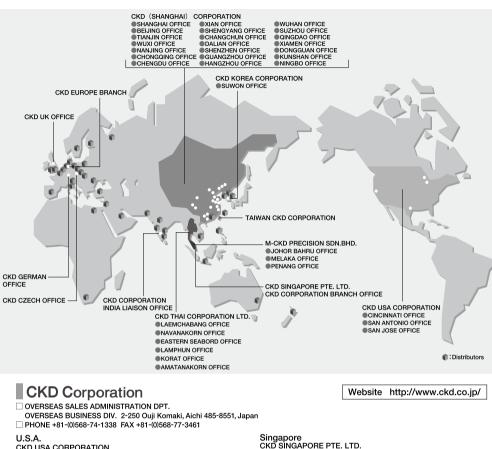
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CKD

Modular

Type

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Standard

White

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Now available in new white color

New Product

Modular Type FRL Standard White Series

MODULAR TYPE FRL STANDARD WHITE SERIES



CKD Corporation CC-962A 2

Enhanced Systems Using Full-Scale Modules

Systems are easily upgraded using unified key dimensions and a diverse range of options and variations.

* Indicates series model no. 1, 2, 3, 4, 5, 6, 7, 8. This page shows only the outline. Refer to contents later in this catalog for details.

	••••••	This page shows only the outline. Refer to contents later in this catalog for details.
Combination	Mounting bracket Page 152	
"C*000-W" FRL combination. Lubricator "L*000-W" Supplies oil mist to pneumatic lines.	■ T type bracket (B110-W) This bracket has two holes on the top and bottom to fix the device, together with the system upgrade, to	
	a wall. This brake cylinder has oilless specifications. The 3000-W Series and 4000-W Series are coupled using B410-W. Use B410-W in that case.	■ Joiner "C*000-J*00-W" Used as a fitting for system configuration. 3000-W Series and 4000-W series can be connected using J400-W. ■ C type bracket "B*20" This bracket fixes isolated parts just by fitting them in. ■ C type bracket "B*20" This bracket fixes parts using the panel mounting nut on the filter regulator or regulator.
	Pressure gauge Page 199 to 209	For air filter F*000-W/Filter regulator W*000-W/W*100-W
Air filter For air filter F*000-W/Filter regulator Element For air filter F*000-W/Filter regulator	MPB . 4	
	■ Standard built in pressure gauge "G401-W" Pressure gauge protrusions are eliminated while maintaining performance equivalent to JIS Class 3.	Pressure gauge with safety mark "G*0D" Pressure switch with digital display "PPD" The pressure's actual usage range is displayed with red and green zones making visible control easier. This unit functions as the pressure detector and display, the ON-OFF switch, and the switch's external output. * Can be assembled using gauge plug. * Integration is optional. Option "R1"
	Filter·Regulator	Distributor Page 153 Piping adaptor Page 155
Standard (5µm) element "blank" This long-life element filters out dirt and foreign particles, etc., from air. Doptional submicron 0.3µm element "Y" This dedicated element effectively separates tar and carbon. (Non-reusable)	Standard type "W*000-W" (Page 69) Reverse type "W*100-W" (Page 77) Space efficient F.R. combination.	One way branch type "D'01W" This distributor, which is installed facing either upward or downward, branches pneumatic pressure piping.
Bowl, bowl guard and drain discharge For air filter F*000-W, oil mist filter M*000-W, filter regulator W*000-W, W*100-W	Oil mist filter Page 103	The effective area of the the term of term
* A bowl guard is installed on the plastic bowl as a standard.	"M*000-W" "MX000-W" Effectively removes oil and oil mist from pneumatic lines.	branch is large. 4 way branch type "D300-W" The pipe branches in four directions. * For 3000-W/4000-W Series * For 3000-W/4000-W Series
	Shut-off valve Page 143 to 148	Bowl/bowl guard For lubricator L*000-W Pressure switch Page 137 to 142
Plastic bowl and bowl guard Plastic bowl and bowl guard Bowl Paterschoorated Nation Metal		Pneumatic line pressure is repeatedly and accurately checked.
Polycarbonate Nylon Metal Itelaweet Chemical resistance of the bowl. Manual drain cock Blank (standard) Z M M1 1000 Series. Automatic drain with manual override N0 type F FZ FM* FM1 The asterisk (*) indicates the manual cock with an Rc1/4 port.	"V*000-W" The pneumatic line is shut off and residual pressure is released. Maintenance work This is also used to prevent accidents from residual pressure during maintenance. V3010-W with lock out also available	 Plastic bowl and bowl guard Metal bowl Material: "Blank" for polycarbonate, option "Z" for standard nylon Option "C" for manual drain cock Material: Aluminum Option "M" A bowl guard is installed on the plastic Metal bowl not available for 1000 Series.

Check with CKD for other system upgrades.

Series variation

(Combination)

			Availa	able combin	ations			A	ailable opti	ons							Com	binatio	on of op	tions (L	***)							
Series		Model no.	F R	L	w	м	D	S	Р	V К			s	p \	ĸ		DP	DV	DK				אסר	sv	sĸ	pv	РК	Combination position
			Filter Regulator	Lubricator	Filter/ Regulator	Oil mist filter	Distributor	Pressur	e switch	Shut-off valve			3 1	「 `	, r		DF	DV	DK	030	DSK			·	SK		FK	
F.R.L. combination		C1000-W	F1000-W R1000-W	L1000-W			D101-W	P1100-W		V1000-W	0		0)	0		0		0			(D				
		C2000-W	F2000-W R2000-W	L3000-W			D401-W	P4100-W	P4000-W	V3000-W V3010-W	0		0 0				0	0	0	0	0	0	0 (С	0	0	0	1
1 . B. B.		C2500-W	F3000-W R2000-W	L3000-W			D401-W	P4100-W	P4000-W	V3000-W V3010-W	0		0 0				0	0	0	0	0	0	0 (2 C	0	0	0	
TE:-		C3000-W	F3000-W R3000-W	L3000-W			D401-W	P4100-W	P4000-W	V3000-W V3010-W	0		0 0) (C		0	0	0	0	0	0	0 (D	0	0	0	
A DECEMBER		C4000-W	F4000-W R4000-W	L4000-W			D401-W	P4100-W	P4000-W	V3000-W V3010-W	0		0 0				0	0	0	0	0	0	0 (D	0	0	0	
	Note 5	C4000-20-W	F4000-W R4000-W	L4000-W			D401-W	P4100-W	P4000-W	V3000-W V3010-W	0		0 0	D C			0	0	0	0	0	0	0 (C	0	0	0	
		C6500-W	F6000-W R6000-W	L8000-W			D801-W	P8100-W		V6010-W	0		0		C				0		0				0			
P.21		C8000-W	F8000-W R8000-W	L8000-W			D801-W	P8100-W		V6010-W	0		0		C				0		0				0			
 WL combination 		C1010-W		L1000-W	W1000-W			P1100-W		V1000-W			0	()													
		C2010-W		L3000-W	W2000-W			P4100-W		V3000-W V3010-W			0 0										(2	0	0	0	
		C3010-W		L3000-W	W3000-W			P4100-W	P4000-W	V3000-W V3010-W			0 (2	0	0	0	W SorP L VorK
100 100		C4010-W		L4000-W	W4000-W			P4100-W	P4000-W	V3000-W V3010-W			0 0)									0	0	0	
	Note 5	C4010-20-W			W4000-W			P4100-W	P4000-W	V3000-W V3010-W			0 0										(2	0	0	0	
P.29		C8010-W		L8000-W	W8000-W			P8100-W		V6010-W			0		C										0			
 FR combination 		C1020-W	F1000-W R1000-W				D101-W	P1100-W		V1000-W	•		•			•		0				_	(_	_		-
		C2020-W	F2000-W R2000-W				D401-W	P4100-W	P4000-W	V3000-W V3010-W	0	_	• •	$\frac{1}{2}$			0	0	0	0	0	<u> </u>	<u> </u>		0	<u> </u>	0	
		C2520-W	F3000-W R2000-W				D401-W	P4100-W	P4000-W	V3000-W V3010-W	0	_	-		-	· •		0	0	0	0	<u> </u>	<u> </u>		~	0	0	F D R SorPVorK
		C3020-W	F3000-W R3000-W				D401-W	P4100-W	P4000-W	V3000-W V3010-W	0	_	• (0	0	0		0	0	<u> </u>		~	0	0	
Dan 1 and		C4020-W	F4000-W R4000-W				D401-W	P4100-W	P4000-W	V3000-W V3010-W	0	_	•				0	0	0	0	0	0	~		-	0	0	Note 3
	Note 5	C4020-20-W	F4000-W R4000-W				D401-W	P4100-W	P4000-W		0	_	• •		-	-	0	0	0	0	~	0	0 (2	0	0	0	-
		C6020-W	F6000-W R6000-W				D801-W	P8100-W		V6010-W	0	-	•	_	C				0		0	_		_	0			-
P.35 FMR combination		C8020-W	F8000-W R8000-W				D801-W	P8100-W		V6010-W	0	-	•		C			-	0	_	0			_	0			The piping adapter can be assembled on models marked with a ●
FINE combination		C1030-W	F1000-W R1000-W			M1000-W	D101-W	P1100-W		V1000-W	0	-	•			•	0	0		0	~	_	0		~	_	0	-
2 D B		C2030-W	F2000-W R2000-W			M2000-W	D401-W	P4100-W	P4000-W	V3000-W V3010-W	0		•		~		0	0	0	0	0	0	~		~	0	0	
		C2530-W	F3000-W R2000-W			M3000-W	D401-W	P4100-W	P4000-W	V3000-W V3010-W	0	_	• •		-	_	0	0	0	0	0	0	-		-	0	0	F M D R Sor PV or K
type		C3030-W	F3000-W R3000-W			M3000-W	D401-W	P4100-W	P4000-W	V3000-W V3010-W	0						0	0	0	0	0	0	-		-	0	0	
		C4030-W	F4000-W R4000-W			M4000-W	D401-W	P4100-W	P4000-W	V3000-W V3010-W	0	-	•		~	· •	0	0	0	0	0	0			~	0	0	Note 3
	Note 5	C4030-20-W	F4000-W R4000-W F6000-W R6000-W			M4000-W M6000-W	D401-W D801-W	P4100-W P8100-W	P4000-W	V3000-W V3010-W V6010-W	0		• (0	0	0		0		0 (0	0	-
Z W W		C8030-W	F8000-W R8000-W			M8000-W		P8100-W		V6010-W	0			_					0		0	_		_				
P.41 • WM combination		C1040-W	F8000-W R8000-W		W1000-W		D601-W	P8100-W		V1000-W			<u> </u>	0							0							The piping adapter can be assembled on models marked with a
		C2040-W			W2000-W			P4100-W	P4000-W	V3000-W V3010-W		+	$\frac{1}{2}$	5 6	, 									5	0		0	-
		C3040-W			W3000-W			P4100-W	P4000-W	V3000-W V3010-W		-				· .								_		<u> </u>	0	
		C4040-W				M4000-W		P4100-W		V3000-W V3010-W		-	-	$\frac{1}{2}$	-	_								5	-	<u></u>	0	W SorP M VorK
	Note 5	C4040-20-W			W4000-W			P4100-W				-	-											5	~	0	0	
P47	Note 5	C8040-20-W			W8000-W			P8100-W	F 4000-VV	V6010-W		+	$\frac{1}{2}$	-									Ň	-	$\frac{1}{2}$	-		
RM combination		C1050-W	R1000-W			M1000-W		. 5100-44	1	1 10010-00	1		\sim L			<u> </u>	1								\sim			1
		C2050-W	R2000-W			M2000-W	-				1																	
12		C2550-W	R2000-W			M3000-W	1				1																	
Aller all		C3050-W	R3000-W			M3000-W	1		/																			
		C4050-W	R4000-W			M4000-W	-				1																	
	Note 5	C4050-20-W	R4000-W			M4000-W	1	/	-		1																	
		C6050-W	R6000-W			M6000-W	_																					
P.53		C8050-W	R8000-W		-	M8000-W							Two T-b															
 FM combination 		C1060-W	F1000-W			M1000-W	r —			/			Mountin															
IN I		C2060-W	F2000-W			M2000-W	1				Note		T-type b Howeve															s mounted on the end.
EAT -		C3060-W	F3000-W			M3000-W	1				Note																	nting position.
		C4060-W	F4000-W			M4000-W	1		/	-		e 5:	Piping a	daptor	set A40	0-20-W	can be i	nstalled	d on bo	th ends	of C40	*0-20-\						
	Note 5	C4060-20-W	F4000-W			M4000-W	1	/			N		The port Only up							he pipir	ig adapt	er,						
		C6060-W	F6000-W			M6000-W	1.				Note	e o:	Only up	ward dr	anching	y is availa	able for	opuon	υ.									
P.59		C8060-W	F8000-W			M8000-W	1				1																	
FFM combination		C3070-W	F3000-W (5µm) F3000-W (0.3µm)			M3000-W	ŕ			/	1																	
P.P.		C4070-W	F4000-W (5um)			M4000-W	1				1																	
1 1 1	Note 5	C4070-20-W	F4000-W (0.3µm) F4000-W (5µm) 54000 W (0.3µm)			M4000-W	1				1																	
		C6070-W	F4000-W (0.3µm) F6000-W (5µm) F6000-W (0.3µm)			M6000-W	1	/																				
P.65		C8070-W	F8000-W (0.3µm) F8000-W (5µm) F8000-W (0.3µm)			M8000-W	1																					
F.00 🛡 -		100010-44	rauuu-w (0.3μm)	1	1		\sim																					

Read to "Safety Precautions" before use.

1



(Filter · regulator)

								-
Corico	Model no.			Port	size			Daga
Series	wodel no.	1/8	1/4	3/8	1/2	3/4	1	Page
Filter•regulator	W1000-W	•						-
	W2000-W		Ŏ	•				-
	W3000-W		Ŏ	Ŏ				69
	W4000-W		Ĭ	•	•	-		- ~~
1 V	W8000-W					•	•	-
	W1100-W	•	•			— —	—	
● Reverse filter • regulator			-			-		-
Reverse filter · regulator	W2100-W		•	•		-		
-	W3100-W	_	•	•			 	77
L L	W4100-W			•	•	<u> </u>	<u> </u>	_
×.	W8100-W							
Filter)								
Series	Model no.				size			Page
		1/8	1/4	3/8	1/2	3/4	1	
Filter	F1000-W		•					
	F2000-W			•				
u	F3000-W							
	F4000-W							- 85
	F6000-W					•	•	-
	F8000-W	-				Ŏ	ě	-
● Air filter • medium pressure	FM3000-W	_	•					
● Air filter • medium pressure	FM4000-W				•		<u> </u>	-
			-	–	-	-		159
	FM6000-W	_				•	•	-
and a second sec	FM8000-W							
Oil mist filter)								
Series	Model no.				size			Page
		1/8	1/4	3/8	1/2	3/4	1	
Oil mist filter	M1000-W		•					
	M2000-W							
	M3000-W							
iek.	M4000-W			•			1	- 95
	M6000-W		-		-	•	•	-
	M8000-W	_				Š	ě	-
	MX1000-W	•	•	1		— —	— —	
High performance oil mist filter								-
High performance oil mist filter	MX3000-W	_	•	•				
B III III III III III III III III III I	MX4000-W					<u> </u>	<u> </u>	103
	MX6000-W						•	_
T	MX8000-W							
Oil mist filter for medium pressure	MM3000-W							
	MM4000-W							105
1	MM6000-W			İ		•		165
	MM8000-W					•	•	
Regulator)			•	•				•
	Medalara			Port	size			Der
Series	Model no.	1/8	1/4	3/8	1/2	3/4	1	Page
Regulator	R1000-W	•	•					
	R2000-W	┥_━		•		+	<u> </u>	-1
1 3	R3000-W		-	-		+	<u> </u>	-1
a res			•				───	113
The st	R4000-W					<u> </u>	<u> </u>	-
	R6000-W					•		1
	R8000-W							
Reverse regulator	R1100-W	•						
	R2100-W		•					1
Reverse regulator	R3100-W	1	O			1	1	1
	R4100-W	1	Ŏ	Ŏ	•	1	1	121
	R6100-W	1			-			1

Regulator for medium pressure

(Lubricator)

Series		Model no.			Port	size			Dogo
Selles		woder no.	1/8	1/4	3/8	1/2	3/4	1	Page
≗ ● Lubricator	4	L1000-W		•					
La		L3000-W							100
dular	180	L4000-W							129
WO		L8000-W							1
CKD									

•

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R6100-W

R8100-W

RM3000-W

RM4000-W

13

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171

•

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Series variation

(Other related components)

Series	Model no.							P	ort siz	e							Page
Series	woder no.	ø4	ø6	ø8	ø10	ø12	1/16	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	Fage
Automatic drain	DT3000/4000-W									•	•						213
Air pressure switch	P4000-W								٠	•	•						137
	P*100-W																139
	APS-W																210
Shut-off valve	V1000-W							٠	•								143
	V3000-W													1			143
Shut-off valve with key hole	V3010-W								•								146
(OSHA compliant)	V6010-W											•	•				146
Slow start valve	V3301-W								٠	•	•						140
	V3321-W									•							149
Thin pressure gauge	G401																199
Pressure gauge with safety sign	G40D/50D							٠	٠					1			200
Pressure gauge with limit gauge	G45D							٠									201
	G41D																202
General purpose pressure gauge	G49D•59D							٠	٠								203
Pressure gauge for panel mount	G53D							٠	٠								205
Pressure gauge with switch	G52D								٠								207

(Attachments)

Series	Model no.	Applicable model	Page
 T type bracket 	B110-W	1000 Series	
	B310-W	2000/3000 Series	152
	B410-W	4000 Series	152
	B810-W	6000/8000 Series	
C type bracket	B120	1000 Series	
	B220	2000 Series	
	B320	3000 Series	152
	B420	4000 Series	152
	B620	6000 Series	
	B820	8000 Series	
L type bracket	B130	1000 Series	
	B230	2000 Series	450
	B330	3000 Series	
	B430	4000/6000 Series	
 Joiner 	C1000-J100-W	1000 Series	
	C1000-J100-W	2000/3000/4000 Series	152
	C8000-J800-W	6000/8000 Series	
 Distributor 	D101-W	1000 Series	
	D401-W	2000/3000/4000 Series	150
	D801-W	6000/8000 Series	153
	D300-W	2000/3000/4000 Series	
Piping adaptor	A100-W	1000 Series	
	A400-W	2000/3000/4000 Series	155
	A800-W	6000/8000 Series	1
L type piping adapter	A101-W	1000 Series	
	A401-W	2000/3000/4000 Series	156
	A801-W	6000/8000 Series	

Series			Port	size			Maximum flow rate m³/min. (A	NR)	Mode	el no.
Cenes	1/8	1/4	3/8	1/2	3/4	1		10	Manual drain	Automatic drain
	•	•	•	•	•	•	0.45		C1000-6-W	-
FRL Combination		•					0.63		C1000-8-W	-
			•				1.2		C2000-8-W	C2000-8-W-F1
		•	•				1.7		C2000-10-W	C2000-10-W-F1
N 0 20-							1.28		C3000-8-W	C3000-8-W-F
THE PARTY							1.75		C3000-10-W	C3000-10-W-F
							2.4		C4000-10-W	C4000-10-W-F
							3.0		C4000-15-W	C4000-15-W-F
							7.0		C8000-20-W	C8000-20-W-F
							7.5	5	C8000-25-W	C8000-25-W-F

*Flow rate when supplied pressure is 0.7MPa, set pressure 0.5MPa, pressure drop 0.1MPa.

	•	•	•	•	•	•	0.46	F1000-6-W	-
Air filter		٠					0.61	F1000-8-W	-
			•				1.3	F2000-8-W	F2000-8-W-F1, Note 1
		•	•				1.7	F2000-10-W	F2000-10-W-F1, Note 1
							1.23	F3000-8-W	F3000-8-W-F
							1.5	F3000-10-W	F3000-10-W-F
							2.14	F4000-10-W	F4000-10-W-F
-							3.0	F4000-15-W	F4000-15-W-F
							6.4	F8000-20-W	F8000-20-W-F
							6.8	F8000-25-W	F8000-25-W-F

*Flow rate when supplied pressure is 0.7MPa and pressure drop is 0.02MPa. Note 1: Refer to the max. flow rate on page 13. for automatic drain "F1"

	•	•	•	•	•	•	0.15 (0.01µm)	M1000-6-W	-
Oil mist filter		•					0.15 (0.01µm)	M1000-8-W	-
			•				0.25 (0.01µm)	M2000-8-W	M2000-8-W-F1
		•	•				0.25 (0.01µm)	M2000-10-W	M2000-10-W-F1
							0.36 (0.01µm)	M3000-8-W	M3000-8-W-F1
							0.36 (0.01µm)	M3000-10-W	M3000-10-W-F1
							0.825 (0.01µm)	M4000-10-W	M4000-10-W-F1
							0.825 (0.01µm)	M4000-15-W	M4000-15-W-F1
							2.6 (0.01µm)	M8000-20-W	M8000-20-W-F1
							2.6 (0.01µm)	M8000-25-W	M8000-25-W-F1

*This is the flow at supply pressure 0.7MPa pressure drop 0.01MPa.

Note: By combining a piping adapter with the 4000, 8000 Series, the port size can be increased by 1 size. Contact CKD for details. (available up to Rc3/4 for 4000 series , Rc1 1/4 for 8000 series)

Series			Port	size			Maximum flow rate m³/min. (ANR)	Mode	el no.
Genes	1/8	1/4	3/8	1/2	3/4	1	0.1 1.0 10	Manual drain	Automatic drain
Filter	•	•	•	•	•	•	0.83	W1000-6-W	-
Regulator		•					1.15	W1000-8-W	-
			•				1.5	W2000-8-W	W2000-8-W-F1, Note 1
		•	•				2.0	W2000-10-W	W2000-10-W-F1, Note 1
							2.15	W3000-8-W	W3000-8-W-F
							2.43	W3000-10-W	W3000-10-W-F
191							4.35	W4000-10-W	W4000-10-W-F
							4.75	W4000-15-W	W4000-15-W-F
Ψ							10.0	W8000-20-W	W8000-20-W-F
							10.0	W8000-25-W	W8000-25-W-F

*Flow rate when supplied pressure is 0.7MPa, set pressure 0.5MPa, and pressure drop is 0.1MPa. Note 1: Refer to the max. flow rate on Page 13. for automatic drain "F1"

Series			Port	size			Maximum flow rate m ³ /min. (ANR)	Model no.
- Oches	1/8	1/4	3/8	1/2	3/4	1	0.1 1.0 10	With standard pressure gauge
Regulator	•	•	•	•			0.77	R1000-6-W
Regulator		•	•		•	•	1.35	R1000-8-W
			•				1.75	R2000-8-W
A AND							2.5	R2000-10-W
E							2.6	R3000-10-W
							4.4	R4000-10-W
							5.0	R4000-15-W
							14.0	R8000-20-W
							11.0	R8000-25-W

*Flow rate when supplied pressure is 0.7MPa, set pressure 0.5MPa, and pressure drop is 0.1MPa.

Series			Port	size			Maximum flow rate m³/min. (ANR)	Model no.
Genes	1/8	1/4	3/8	1/2	3/4	1	0.1 1.0 10	Standard
Lubricator	•	•	•	•	•	•	0.55	L1000-6-W
		•	•				0.7	L1000-8-W
							1.1	L3000-8-W
							2.25	L3000-10-W
- []							1.7	L4000-10-W
							2.7	L4000-15-W
							6.3	L8000-20-W
							10.0	L8000-25-W

*Flow rate when supplied pressure is 0.5MPa and Pressure drop is 0.03MPa.

It's NEW CONCEPT

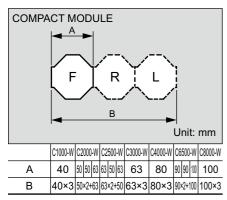
Pursuing high performance in all aspects, functionality, operability, serviceability, and safety.

[Filter for compressed air, regulator, filter, other components]

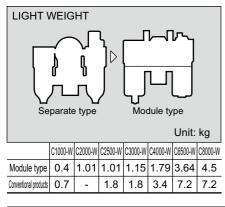
FUNCTIONAL FEATURES

Compact module

F.R.L. main dimensions (width and depth) are integrated into a compact module. Accurate assembly dimensions are obtained with simple calculation.



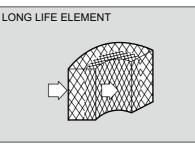
● Lighter by 50% from conventional models. Hybrid material (aluminum die cast with resin cover) provides strength and cuts weight 50% over the conventional type. (C4000 comparison)



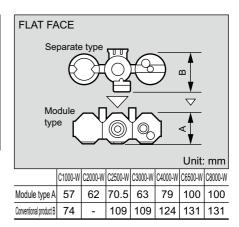
CKD

Long service life element

This element incorporates CKD's original chemical fiber structure (patent pending), which has a rough surface and gradually becomes finer toward the inside. Clogging is greatly reduced and element life greatly extended. There is nor risk of rusting.



• Embedded pressure gauge for space saving The conventional protruding pressure gauge wasted space on the front, and posed risks to users. Neat design and safety are realized by embedding the pressure gauge into the body.



 Mechanism to prevent oil dripping during primary side pressure drop
 Reduces dripping of oil discharge of shut-off valve.

Corrosion resistant, safe bowl guard Appropriate for piping in limited space or complicated piping.

Gauge plug

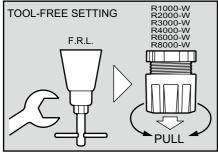
The gauge plug is sealed even without a pipe plug. (Refer to page 209 when using screw-in type pressure gauge)



OPERATIVE FEATURES

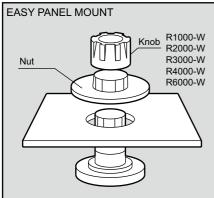
Tool free pressure control

No tools required to adjust pressure. The knob is locked with a single push, The knob is locked with a single push, and is easily operated when setting pressure.



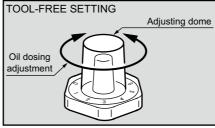
● Easy to accommodate with panel mount When the panel mounting nut is loosened, the nut acts as a jack and enables the knob to be removed easily. Fix the nut to mount in the panel. The L-type bracket is also installed similarly to the nut.

(The body can be fixed securely without play with the L-type bracket) *Excluding 8000 Series

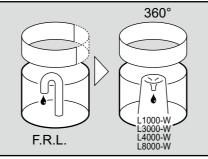


Note: Install the nut before installing the knob. (With the R2000-W, the nut is removed without removing the knob.) ● Oil drip adjustment knob with lock Easy tool free oil dosing adjustment. A stopper is provided in the opening direction to function as a lock, and increase safety. The number on the dial are used as a guide after adjusting dripping.

* Keep the oil dosing adjustment below 0.5N·m



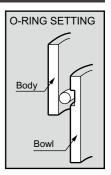
Double plastic structure A double plastic structure is used so oil dripping is confirmed from 360°.



• Easy removal integrated filter element The integrated bowl and bowl guard are easily attached and removed by operating the latch. (No latch for 1000-W series)

Mount and remove the bowl and bowl guard after checking that pressure is not being applied.

● O ring fall out prevention An O ring slot is provided on the bowl to prevent O ring from falling out during bowl attachment and removal for a safe and accurate seal



Easy to use filter element

The integrated element is removed by turning the baffle 45° to the left. (1000-W Series only)



Description of options

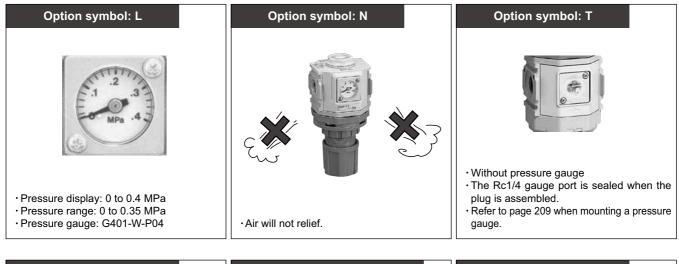
Combination lists of drainage and bowl material of filter (Don how to order)

Applicable cories	Bowl material		Manual drain cock	Automatic drain with manual cock Large automatic drain with manual cock					
Applicable series				NO type	NC type	NO type	NC type		
1000-W Series	Plastic bowl	Polycarbonate	⊖ (Blank)	×	O (Symbol: F1)	×	×		
		Nylon	◯ (Symbol: Z)	×	O (Symbol: F1Z)	×	×		
	Metal bowl	Aluminum	×	×	×	×	×		
2-W Series	Plastic bowl	Polycarbonate	⊖ (Blank)	◯ (Symbol: F)	O (Symbol: F1)	×	×		
3000-W Series 4000-W Series		Nylon	◯ (Symbol: Z)	○ (Symbol: FZ)	O (Symbol: F1Z)	×	×		
6000-W Series	Metal bowl	Aluminum	○ (Symbol: M/M1)	O (Symbol: F1/FM1)	O (Symbol: F1M/F1M1)	×	×		
8000-W Series	Plastic bowl	Polycarbonate	⊖ (Blank)	◯ (Symbol: F)	O (Symbol: F1)	◯ (Symbol: FF)	○ (Symbol: FF1)		
		Nylon	◯ (Symbol: Z)	○ (Symbol: FZ)	O (Symbol: F1Z)	○ (Symbol: FFZ)	○ (Symbol: FF1Z)		
	Metal bowl	Aluminum	○ (Symbol: M/M1)	O (Symbol: F1/FM1)	O (Symbol: F1M/F1M1)	○ (Symbol: F1)	(Symbol FF1M/FF1M1)		
Features				In a nonpressurized state,	Air is not purged	Drainage is automatically	Air is not purged during		
				such as at night, the valve	during initial	discharged when discharge	initial pressurization when		
			-	opens and drainage is	pressurization.	performance is high and	discharge performance is		
				discharged automatically.		the unit is not pressurized.	high.		

Combination lists of drainage and bowl material of lubricator (Don how to order)

Applicable series	Bowl ma	aterial	No manual cock	With manual cock	
1000-W Series	Plastic bowl	Polycarbonate	⊖ (Blank)	◯ (Symbol: C)	
		Nylon	◯ (Symbol: Z)	○ (Symbol: CZ)	
	Metal bowl	Aluminum	×	×	
2000-W Series 2500-W Series	Plastic bowl	Polycarbonate	◯ (Blank)	◯ (Symbol: C)	
3000-W Series 4000-W Series		Nylon	◯ (Symbol: Z)	O (Symbol: CZ)	
6000-W Series 8000-W Series	Metal bowl	Aluminum	◯ (Symbol: M)	○ (Symbol: CM/CM1)	

Description of pressure range, pressure gauge and flow direction option symbol (Don how to order)



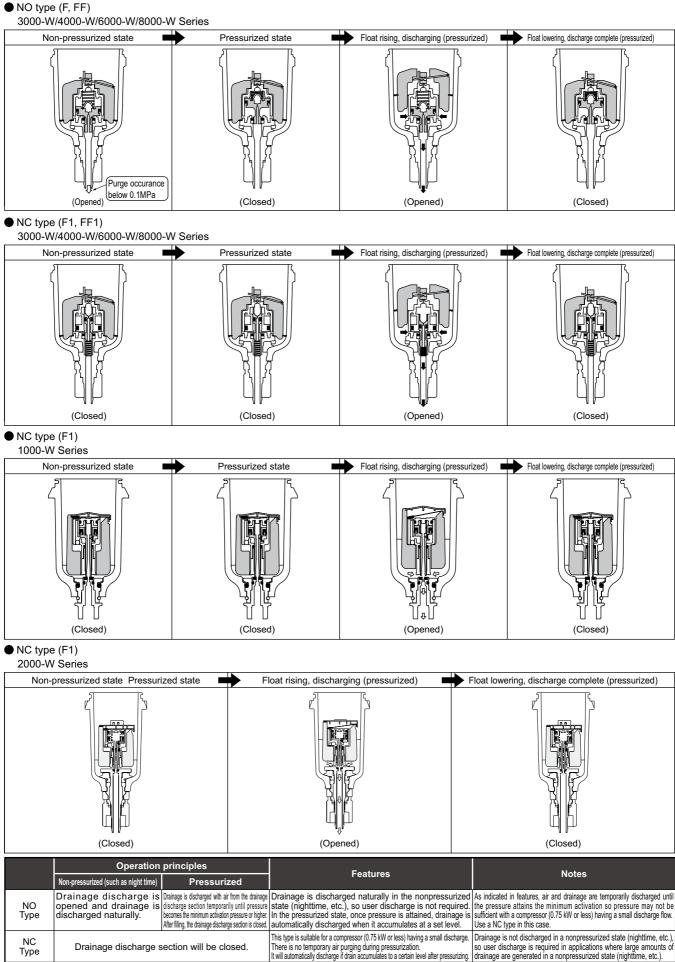
Option symbol: T8/T6 Option symbol: R1/R2 (note) **Option symbol: X1** R1 R2 OUT IN · Pressure gauge not included · Pressure switch with display PPD assembled because round pressure gauge is attached. · Digital pressure sensor PPX included. Refer to "Pneumatic, Vacuum and Auxiliary · Pressure gauge mounting port is open. · Refer to page 209 when mounting a pressure Components (Catalog No. CB-024SA)" for The right side will be IN with the pressure gauge facing forward. details) gauge.

(Note) Option symbol "R1" is not available for C*000-W, C*010-W Series.

Principles of float type automatic drain

Principles of float type automatic drain

Type



drainage are generated in a nonpressurized state (nighttime, etc.).



Safety precautions

Always read this section before starting use.

When designing and manufacturing a device using CKD products, the manufacturer is obligated to check that device safety mechanism, pneumatic control circuit, or water control circuit and the system operated by electrical control that controls the devices is secured.

It is important to select, use, handle, and maintain the product appropriately to ensure that the CKD product is used safely. Be sure to observe the description given under DANGER, WARNING and CAUTION to assure safety of the equipment. Check that device safety is ensured, and manufacture a safe device.



1 This product is designed and manufactured as a general industrial machine part.

It must be handled by an operator having sufficient knowledge and experience in handling.

2 Use this product in accordance of specifications.

This product must be used within its stated specifications. It must not be modified or machined.

This product is intended for use as a general-purpose industrial device or part. It is not intended for use outdoors or for use under the following conditions or environment.

(Note that this product can be used when CKD is consulted prior to use and the customer consents to CKD product specifications. The customer must provide safety measures to avoid risks in the event of problems.)

Use for special applications requiring safety including nuclear energy, railroad, aviation, ship, vehicle, medical equipment, equipment or applications coming into contact with beverage or food, amusement equipment, emergency shutoff circuits, press machine, brake circuits, or for safeguard.

② Use for applications where life or assets could be adversely affected, and special safety measures are required.

3 Observe corporate standards, regulations, etc., related to the safety of device design and control, etc.

ISO 4414, JIS B 8370 (pneumatic system rules)

JFPS2008 (Principles for pneumatic cylinder selection and use)

Including High Pressure Gas Maintenance Law, Occupational Safety and Sanitation Laws, other safety rules, body standards and regulations, etc.

I Do not handle, pipe, or remove devices before confirming safety.

- Inspect and service the machine and devices after confirming safety of the entire system related to this product.
- 2 Note that there may be hot or charged sections even after operation is stopped.
- When inspecting or servicing the device, turn off the energy source (air supply or water supply), and turn off power to the facility. Discharge any compressed air from the system, and pay enough attention to possible water leakage and leakage of electricity.
- When starting or restarting a machine or device that incorporates pneumatic components, make sure that the system safety, such as pop-out prevention measures are secured.
- 5 Observe warnings ad cautions on the pages below to prevent accidents.

The safety cautions are ranked as "DANGER", "WARNING" and "CAUTION" in this section.

DANGER: When a dangerous situation may occur if handling is mistaken leading to fatal or serious injuries, or when there is a high degree of emergency to a warning.

WARNING: When a dangerous situation may occur if handling is mistaken leading to fatal or serious injuries.

CAUTION: When a dangerous situation may occur if handling is mistaken leading to minor injuries or physical damage.

Even items described under CAUTION may cause serious results. In any case, important information that must be observed is explained.

Disclaimer

1 Term of warranty

"Warranty Period" is one (1) year from the first delivery to the customer.

2 Scope of warranty

In case any defect attributable to CKD is found during the Warranty Period, CKD shall, at its own discretion, repair the defect or replace the relevant product in whole or in part, according to its own judgement.

- This Limited Warranty will not apply to:
- (1) Product abuse/misuse contrary to conditions/environment recommended in its catalogs/specifications
- (2) Failure caused by other than the delivered product
- (3) Use other than original design purposes.
- (4) Third-party repair/modification
- (5) Failure caused by reason that is unforeseeable with technology put into practical use at the time of delivery (6) Failure attributable to force majeure.

In no event shall CKD be liable for business interruptions, loss of profits, personal injury, costs of delay or for any other special, indirect, incidental or consequential losses, costs or damages.

3 Compatibility confirmation

In no event shall CKD be liable for merchantability or fitness for a particular purpose, notwithstanding any disclosure to CKD of the use to which the product is to be put.

11



Pneumatic components (F.R.L. unit (modular design))

Safety precautions

Always read this section before starting use.

Refer to "Pneumatic, Vacuum and Auxiliary Components (Catalog No. CB-024SA)" precautions for pneumatic components in general.

Specific precautions: F.R.L. (modular design)

Design & Selection

1. Common

A WARNING

- This product is for industrial use only. It must not be used in components or circuits for medical equipment or components that involve human lives.
- Air filter, lubricator plastic bowl, lubricator's drip window, and pressure gauge lens

Material is polycarbonate. It cannot be used in environments containing synthetic oil, organic solvents, chemicals, coolant, screw locking agent, leak detection solutions, or hot water, etc., or where these substances may come in contact with them. Refer to page 18 for details on bowl chemical resistance.

■ Piping load torque

Check that the piping load or torque is not applied to the body or piping sections.

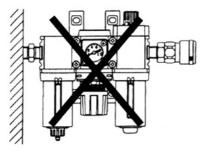
Series	Series 1000-W		3000-W	4000-W	6000-W	8000-W
Max. torque N∙m	15	15	50	50	100	100

With the 1000-W Series, application of a torque of 30 N·m or more on piping could damage piping. Use within the specified torque, even when using the piping adapter.

Avoid piping similar to the following example.

Avoid piping fixed with a single support, as this can result in excessive force and lead to damage.

With the 1000-W Series, application of a torque of 30 $N \cdot m$ or more on piping could damage piping. Use within the specified torque, even when using the piping adapter.



WARNING

■ Large drainage

Install the air dryer and drain separator before the air filter.

Hot and humid air or large drainage from the comp could shorten the device life or result in corrosion.

Ultra dry air

Rubber parts for the regulator could deteriorate quickly, so use of a fluorine rubber valve assembly is recommended. Consult with CKD if necessary.

- Water lubricated compressor circuits Take measures to prevent chlorine-based substances from entering the compressed air.
- Use the automatic drain under the working conditions below.

Otherwise, malfunctioning may occur.

- N.O. type automatic drain (exhaust without pressurized): F, FF
- Use a compressor with a capacity of 0.75 kW {90l/min [ANR]} or more.
- Set the working pressure to 0.1 MPa or more. (Initially generated drainage and air are purged until pressure reaches 0.1 MPa.)

N.C. type automatic drain (exhaust without pressurized): F1, FF1.

- Can be used with compressor with 0.75kw or less.
- Set the working pressure to 0.15 MPa or more.
- 1000-W, 2000-W Series NC automatic drain
- Set the working flow to less than the maximum working flow.
- In places with high vibration, such as where the compressor is installed, air could leak from the drain port when the float vibrates. Avoid this use.
- Do not let the drain overflow as it may lead to malfunctioning.

2. Regulator, filter with regulator

A WARNING

Install a safety device where an output pressure exceeding the regulator's set pressure value could result in damage or faulty operation of secondary side devices.

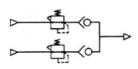
The regulator cannot process residual pressure (remove secondary pressure) when primary pressure is released.

Use a regulator with a check valve when residual pressure must be processed.

In some cases, the regulator cannot be used for secondary side sealing circuits or balance circuits.

CAUTION

- Set the regulator's secondary pressure to 85% or less that of the primary side. The pressure could drop further.
- When using regulators in parallel as shown below, do not use the OUT side as a closed circuit. If a closed circuit is required, set a check valve at the regulator's OUT side.



3. Lubricator

WARNING

■Lubricator

Consult with CKD for using lubrication with an air motor or bearings. Also consult with CKD when using this unit at a high frequency such as in a press machine.

CAUTION

If the working air rate is low for the lubricator, oil may not drip.

Check the minimum air rate required for dripping oil.

4. Pressure switch

CAUTION

When using the compact pressure switch PPD or digital pressure sensor PPX, avoid using as a set with the lubricator. The switch is not a drip-proof structure, so operation could be disabled if the lubricating oil comes in contact with it.

5. Shut-off valve

WARNING

Precautions for shut-off valve

● The EXH port is dedicated for installation of the silencer. Tighten with a torque of 3 N·m or less -- as far as is tightened manually.

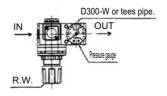
Avoid piping that applies piping load or torque, etc., to the EXH port.

 If exhaust is incomplete because of air quality, manually discharge air by operating the knob (turn and raise).

6. Pressure gauge

CAUTION

When using this unit for a large flow, etc., install a pressure gauge as shown below so that secondary pressure is measured accurately.



■Regarding G45D

- The chemical resistance of the lens is shown below.
- Avoid using products in an atmosphere where chemicals are contained in compressed air, the atmosphere, or where they could adhere to parts.
- Use in this state could lead to bowl damage and accidents.

Chemical resistance of lens

Types of chemicals	Categories of chemicals	Main products containing the chemical	Example of general usage	Lens
Inorganic chemicals	Acid	Hydrochloric acid, sulfuric acid, hydrofluoric acid Phosphoric acid, chrome acid, etc.	Acid washings from metals, acidic degreasing solutions, skin treatment solutions	×
	Aromatic hydrocarbon	Benzene, toluene Xylene, ethyl benzene, styrene	Contained in paint thinner (benzene, toluene, xylene)	×
	Alcohol	Methanol, ethanol, cyclohexanol, benzyl alcohol	Anti-freeze, eakage detection agent	×
	Phenol	Carbolic acid, cresol Nafthol, etc.	Antiseptic solution.	×
Organic	Ketone	Acetone, methyl ethyl ketone, cyclohexanone, acetophenone, etc.		×
chemicals	Carboxylic acid	Formic acid, acetic acid, butyl acid acrylic acid, oxalic acid Phtalic acid, etc.	Dyes; oxalic acid for aluminum processing; phthalic acid for paint base and leak-detection agents e (dowel pin) from rear	×
	Oxo acid	Glycocholic acid, lactic acid, malic acid, citric acid, tartarate		×
	Amine	Methylamine, diethylamine, ethylamine, aniline, acetoacetanilide, etc.	Brake oil additive	×

×: Do not use (Lens will be damaged)

Specific precautions

Installation & Adjustment

1. Common

- Avoid installing this product where it is subject to direct UV rays.
- ■Flush and wash pipes to be used.

Dirt or foreign materials in piping will lower product performance.

Check that foreign materials do not enter when tightening pipes or joints.

When screwing in piping or joints, check that swarf from piping threads or sealing agent does not get inside. Dirt or foreign materials in piping will lower product performance.

- ■How to use the F.R.L. correctly
 - 1. Set the regulator pressure setting to increase. After setting pressure, lock the handle. Check primary pressure carefully before setting pressure.
 - 2. Check the arrow indicating the air inlet before connection. Reverse connection causes malfunctions.
 - 3. Install the air filter and lubricator vertically with the case facing downward. Failure to do so could lead to disconnection or malfunction.
 - 4. Use of the automatic drain where vibration is present could cause faults and malfunctions.

Pipe the automatic drain in the following conditions. Otherwise, malfunctioning may occur.

Use an inner diameter of 5.7 or more and piping of 5 m or less for the drainage section.

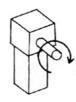
Do not pipe in a manner which will apply lateral load to the bowl.

Fix the hexagon side of the cock before screwing the joint, etc., into the Rc1/4 female screw.

■ Piping screw-in torque

Make sure that excessive torque is not applied on the body and piping when piping.

Series	1000-W	2000-W	3000-W	4000-W	6000-W	8000-W
Max. torque N∙m	15	30	30	30	70	70



■ Drain piping

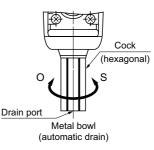
Confirm that the drain cock is closed before inserting the tube. The drain piping for the plastic bowl has a barbed nipple, and can be directly installed. However, confirm that the drain cock is closed before inserting the tube.

■ Drain cock tightening torque

 The max. tightening torque of the drain cock for the plastic bowl is as follows.
 1000 Series: 0.1N·m
 Others: 0.5N·m

•Others: 0.5N•m

- Drain piping of metal bowl with automatic drain
- Fix the cock's hexagonal face before screwing the joint, etc., into the drain port's female threads. When using the metal bowl with automatic drain, if the drain is piped with a tightening joint, manual operation is not possible.

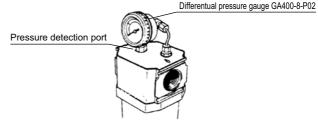


■ Drain with pressure detection port

Pressure detection port is available as an option for F6000-W·M6000-W·MX6000-W·F8000-W· M8000-W·MX8000-W.

The life of the filter element or oil mist filter mantle assembly is visually checked by assembling the differential pressure gauge GA400-8-P02 into the pressure detection port.

When selecting option Q and X1 simultaneously for F6000-W and M6000-W and mounting differential pressure gauge GA400, raise the gauge with piping material so that it does not interfere.



Check high and low-pressure port positions for the differential pressure installation port, and install correctly.

2. Regulator, filter with regulator

CAUTION

Regulator, filter regulator

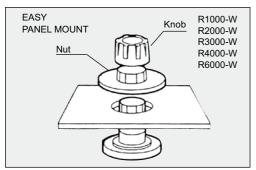
- Lightly tighten (0.6 N·m or less) mounting screws for embedded pressure gauge G401-W-OP, G401-W, and gauge plug.
- When installing the pressure gauge with a safety mark on the gauge plug, or when installing a general screw-in pressure gauge, tighten with a torque of 15N·m or less.
- Do not move or swing the product holding the adjustment knob on the regulator.
- Do not apply pressure exceeding the pressure gauge's full scale, This will cause the pressure gauge to break. (Pay extra caution when using 0.2 and 0.4 MPa pressure gauges)

Panel mounting the regulator

When the panel mounting nut is loosened, the nut acts as a jack and enables the knob to be removed easily. Fix the nut to mount in the panel. The L-type bracket is also installed similarly to the nut.

(The body can be fixed securely without play with the L-type bracket)

* Excluding 8000 Series

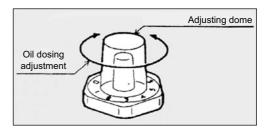


Note: Install the nut before installing the knob. (With the R2000-W, the nut is removed without removing the knob.)

3. Lubricator

Adjustment of lubricator oil drippage

Adjust the oil rate by turning the adjusting dome with bare hands. When closing the dome, tighten with a torque of 0.5 N·m or less. The numbers (scale) on the dial are a guide used after adjustment, and do not indicate the oil drip.



4. Pressure switch

CAUTION

How to mount pressure switch (PPD)

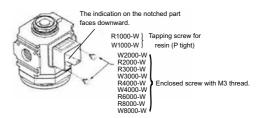
- Separate the body from the base.
- Attach an O ring.

* Refer to the outline drawings for the direct installation type (PPD-****-1F-1) (PPD-****-1F-2) on the left, and attach the O ring to the O ring groove with a clean finger.
Install the base

Install the base with the two enclosed screws (M3).

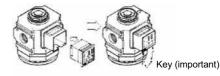
* Carefully install at the designated position in the designated direction while taking care not to dislocate the O ring.

* Do not tighten one screw completely at once, and instead tighten the two screws so that they are balanced. (Tightening torque $0.5 \pm 0.1 \text{ N} \cdot \text{m}$)



This completes installing the main unit.

Confirm no dirt or foreign matter is on the base, and then insert the body. Make sure that the body does not catch on the base. Then, insert the two keys. While pressing the body exterior against the base, set the heads of the keys so that they face each other, then insert them so that they are completely stored in the recesses on the base.



Note: Install both keys. Check that two keys are installed before pressurizing.

Note: When changing the position or orientation of the PPD which has been installed once, install using the new keys, O rings and installing screws enclosed with the option kit.

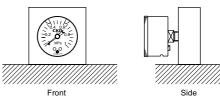
Specific precautions

Installation & Adjustment

5. Pressure gauge

■ Pressure gauge

Repeated and sudden increases and decreases in pressure and pressure pulsation must be avoided because it could adversely affect pressure gauge life. Either ease pressure fluctuation in the circuit or consult with CKD so that a pressure gauge with a cushioning screw can be prepared. Applying pressure exceeding the pressure range could damage the pressure gauge. Install vertically so the scale can be seen right from the front. (Refer to drawing below) Installation on other position will result in an unstable movement of the indicator and lower accuracy.



During Use & Maintenance

1. Common

A WARNING

Regularly, once or more in six months, check the air filter and lubricator's plastic bowl for cracks, damage, and other deterioration.

Cracks, damage or other deterioration could result in breakage, so if found, replace with a new bowl or with a metal bowl.

- Check the air filter, lubricator plastic bowl, and lubricator drip window periodically for contamination.
 - If parts are heavily contaminated or if transparency has dropped, replace with a new bowl or drip window.
 - Use a diluted neutral household detergent to wash parts, and then rinse well with clean water. Use of other agents could result in breakage.

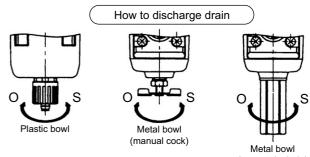
Removin filter, lubricator bowl

Before removing the bowl, the compressed air, discharge pressure in the bowl completely, and confirm that no residual pressure remains.

CAUTION

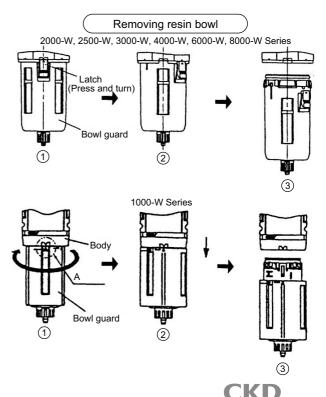
- Check the oil drip rate once a day. If the oil drip is faulty, problems could occur in the unit being lubricated.
- Do not branch the air into lubricating air and oilfree air with a distributor. The lubricator oil could reverse flow.
- Clogged filter element will lower performance. Regularly inspect, clean, and replace the element.
- Do not disassemble or modify the product.

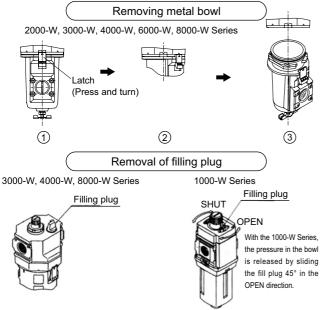
Read instructions and precautions enclosed with the product before starting use or maintenance.



(automatic drain)

- Drainage is started when the cock is turned to the O side, and the discharge is stopped when the cock is turned in the S direction. Tighten in the S direction with your hands.
- When the automatic drain is provided, drainage is discharged automatically when it accumulates. Drainage is also discharged manually.





- Close the fill plug after lubricating.
- Do not remove the bowl without removing the filling plug while the bowl is pressurized. (L3000-W to L8000-W)
- Never remove the bowl with the filling plug set to the SHUT side of the 1000-W Series (while the bowl is pressurized). (L1000-W)

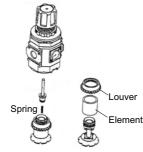
2. Filter · regulator

CAUTION

■ Element for W1000-W to W8000-W

Inspect the valve assembly when it is removed during maintenance.

Do not lose internal parts when removing the coil.





A WARNING

Drain so that air filter drainage does not accumulate beyond the maximum.

Components could malfunction if drainage flows into the secondary side.



Metal bowl

The resin bowl must not be filled more than the "drain upper limit" or "max. level" stamped on the bowl guard.

Metal bowl (M1)

Submicron 0.3µm element

Washing will not restore performance. If the pressure drops to 0.07 MPa, replace the filter with a new one. (Excluding 1000, 2000 Series)

■Oil mist filter

The service lif of the mantle (element) is 1 year (6000 hours) or when pressure drops to 0.1 MPa (Except for the X type,) Replace the mantle when life is reached. (Do not touch the urethane foam layer during replacement.)

- Replace the element before the differential pressure indicator becomes all read if it has an differential pressure indicator.
- Mount with zero of the pressure gauge scale facing vertically downward.

4. Regulator, filter with regulator

CAUTION

- Pull the pressure adjustment knob and release the lock before setting the regulator pressure. The regulator could be damaged if the pressure is set without unlock.
- Working or piping conditions could cause pulsation. We recommend changing working conditions or piping by means such as lowering primary pressure if pulsation occurs.

5. Lubricator

WARNING

■Use Class 1 turbine oil (nonadditive) ISO VG32 for the lubricator.

Use of other oil will result in damage or malfunction.

Removing the lubricator's filling plug To prevent the filling plug from popping out, loosen the filling plug by one turn, and then completely depressurize the bowl before removing the filling plug. Wipe away any dirt around the fill plug that could scatter.

CAUTION

- Periodically replenish oil in the lubricator bowl so that it does not drop below the lower limit.
- When lubricating the L1000-W, pressure in the bowl is released by turning the fill plug. Refer to the section on usage and maintenance], above, for details on using the fill plug. (Lubrication can be carried out while the pipes are pressurized) Check that there is no pressure in the bowl, remove the bowl and bowl guard, and then directly lubricate to the bowl. Refer to the previous page for details on removing the bowl.
- When lubricating the L3000-W to L8000-W, loosen the fill plug slightly to release pressure in the bowl, then remove the fill plug. Refer to the section on usage and maintenance, above, for details on using the fill plug. (By removing the filling plug, lubrication can be carried out while the pipes are pressurized.) Oil can also be supplied from the filling plug hole, and the bowl can be directly lubricated by removing the bowl and bowl guard. Refer to the previous page for details on removing the bowl. With the L8000-W, oil is supplied to the spacer by lubricating from the fill plug hole.

6. Pressure gauge

- Check that no impact or vibration is applied directly to the product.
- Limit marks will not completely contact each other. There may be a clearance of 1 scale.

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Specific precautions

Specific precautions: F.R.L. components

Chemical resistance of plastic parts

WARNING

- The chemical resistance of plastic parts are shown below.
- Avoid using products in an atmosphere where chemicals are contained in compressed air, the atmosphere, or where they could adhere to parts.
- Use in this state could lead to bowl damage and accidents.
- Avoid using these types of chemicals or in an atmosphere containing these chemicals.
- A metal bowl is available if these chemicals must be used.

Chemical resistance of plastic bowl and body Use a metal bowl in an atmosphere containing the following chemicals. Check whether the testing solutions, sealing agents and adhesives contain the following chemicals.

Types of chemicals	Categories of chemicals	Main products containing the chemical	Example of general usage	Polycarbonate bowl	Nylon bowl	Nylon body
	Acid	Hydrochloride, sulfuric acid, fluorine, phosphoric acid, chromic acid, etc.	Acid washings from metals, acidic degreasing solutions, skin treatment solutions	×	×	×
Inorganic chemicals	Alkaline	Alkalies such as caustic soda, caustic potash, calcium hydroxide, ammonium water, or sodium carbonate	Alkaline degreasing of metals Water-based coolant, leakage detection agent	×	0	0
	Inorganic salts	Alkalies such as caustic soda, caustic potash, calcium hydroxide, ammonium water, or sodium carbonate		×	0	0
	Aromatic hydrocarbon	Benzene, toluene, xylene, ethyl benzene, styrene, etc.	Contained in paint thinner (benzene, toluene, xylene)	×	×	×
	Chlorinated aliphatic hydrocarbons	Methyl chloride, ethylene chloride, methylene chloride, acetylene chloride, chloroform, trichylene, perchloro ethylene, carbon tetrachloride		×	0	0
	Chlorinated aliphatic Chlorobenzene, dichlorobenzene, benzene hexachloride Chlorinated aro		Chlorinated aromatic	×	0	0
	Petroleum compounds	Solvent naphtha, gasoline, kerosene		×	0	0
	Alcohol	Methanol, ethanol, cyclohexanol, benzyl alcohol	Anti-freeze Leakage detection agent	×	×	×
	Phenol	Carbolic acid, cresold, naphthol, etc.	Antiseptic solution.	×	×	×
	Ether	Methyl ether, methyl ethyl ether, ethyl ether	Brake oil additive	×	0	0
Organic chemicals	Ketone	Acetone, methyl ethyl ketone, cyclohexanone, acetophenone, etc.		×	×	×
	Carboxylic acid	Formic acid, acetic acid, butyl acid, acrylic acid, oxalic acid, phthalic acid, etc.	Dyes; oxalic acid for aluminum processing; phthalic acid for paint base and leak-detection agents e (dowel pin) from rear	×	×	×
	Ester	Dimethyl phthalate (DMP), diethyl phthalate (DEP), dibutyl phthalale (DBP), dioctyl phthalate (DOP)	Used as an additive for lubricant, synthetic and rust proof oil. Used as a plasticizer for resins.	×	0	0
	Oxo acid	Glycocholic acid, lactic acid, malic acid, citric acid, tartarate		×	×	×
	Nitro compounds	Nitromethane, nitroethane, nitroethylene, nitrobenzene, etc.		×	0	0
	Amine	Methylamine, diethylamine, ethylamine, aniline, acetoacetanilide, etc.	Brake oil additive	×	×	×
	Nitrile	Acetonitrile, acrylonitrile, benznitrile, aceloylidyne nitrile, etc.	Raw material for nitryl rubber	×	0	0

○: Permissible ×: Not permissible (plastic will be damaged)

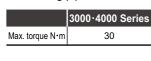
Precautions for each model

Automatic drain DT3000 · DT4000 · W Series

Installation & Adjustment

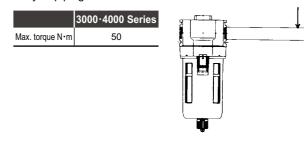
CAUTION

Piping screw-in torque Do not apply excessive torque to the body and piping when connecting pipes.





Piping, load torque Make sure that piping load or torque is not applied on the body or piping.

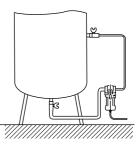


During Use & Maintenance

CAUTION

- Do not use this product where it may be subject to direct sunlight and direct UV rays.
- The bowl is made of polycarbonate, so avoid using this product with the following chemicals or in an atmosphere containing chemicals on page 18. A metal bowl is available if these chemicals must be used.
- Use a household-grade neutral detergent to clean the bowl, then rinse with water.
- ■Use an inner diameter of ø5.7 to ø6.0 or more and piping of 5 m or less for the drainage section.
- Apply compressor over 0.75kW (flow over 90/min) (NO type automatic drain only)
- Do not let in large amount of drain beyond its capacity. Sudden entry of large amount of drain may result in malfunctioning.
- Service life may shorten drastically in a environment where large amount of foreign materials enter. Please conduct maintenance and replace bowl assembly regularly.
- The bowl assembly is an consumable. Replace it regulary according to conditions and usage.
- Mount and remove the bowl and bowl guard after checking that pressure is not being applied.
- Avoid hot air as the life of components will be shortened, and corrosion could occur.

- If the drain discharger is installed at a place higher than the tank's drainage discharge port because of installation restrictions, the drainage can be discharged in the following manner.
- (1) Let the air bleed by opening the petcock slightly.
- (2) Remove the pit cock as shown below, and provide equalizer piping in the tank.



Repeated sudden increase and decrease of the pressure will cause the drainage discharger's life to drop. Gradually change the pressure in the circuit.

Precautions for mounting and removing bowl and bowl guard

CAUTION

- Residual pressure exhaust
 - Release residual pressure from the manual cock at the bottom. When using the metal bowl, release pressure from the petcock on the side.

Release the pressure applied in the bowl, and confirm that there is no pressure.

■Attatching and removing

 After confirming that the residual pressure has been released, press down the latch and turn it to lift up the bowl and bowl guard.

Modular type

Standard white series

Components for air preparation/F.R.L. unit

Components for air preparation/F.R.L. ur	nit
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CKD



F.R.L. combination standard white series C1000/C2000/C2500-W C3000/C4000/C6500/C8000-W Series

Space-saving with integrated filter, regulator, and lubricator

Port size: 1/8 to 1





Specifications

Desc	riptions	C1000-W	C2000-W	C2500-W	C3000-W	C4000-W	C6500-W	C8000-W	
Exterior									
	Air filter	F1000-W	F2000-W	F3000-W	F3000-W	F4000-W	F6000-W	F8000-W	
Components	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 flu	uid	Compressed air							
Max. working	g pressure MPa	1							
Withstanding	g pressure MPa	1.5							
Ambient tempe	erature range °C	5 to 60							
Filtration ra	ating µm	5							
Set pressure	e range MPa	0.05 to 0.85 Note 5 0.05 to 0.85							
Minimum drip flow	(Note 1) m ³ /min (ANR)	0.015	0.03	0.03	0.03	0.065	0.065	0.065	
Relief			With relief mechanism						
Oil capacit	ty cm ³	20	85	85	85	170	170	170 (MAX360)	
Drain capa	acity cm ³	12	25	45	45	80	80	80 (Note 2)	
Applicable oil			Turk	oine oil Class 1 IS	SO VG32 (spindle	e oil can not be u	sed)		
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)	
Product we	eight kg	0.4	1.01	1.01	1.15	1.79	3.64	4.5	
Proded as standard				Pressure	gauge, bracket, b	owl guard			

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

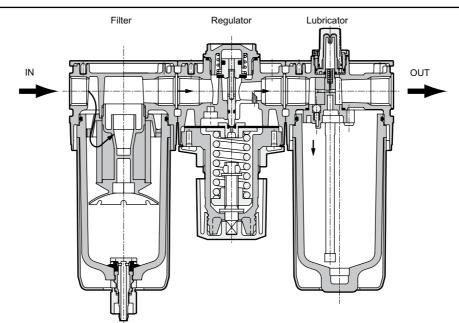
Note 2: Drainage accumulates up to 170 cm³ only with the manual drain cock.

Note 3: The automatic drain's minimum operating pressure for "F" or "FF" with an automatic drain is 0.1 MPa. Initially generated drainage and air are purged until pressure reaches 0.1 MPa. Note 4: The automatic drains minimum operating pressure for "F1" or "FF1" with an automatic drain is 0.15 MPa.

Note 5: When using C1000-W series "F1" with an automatic drain, the minimum operating pressure is 0.2 MPa and maximum operation pressure is 0.7 MPa.

Refer to the maximum working flow table (page 85) for F1000-W-F1 with an automatic drain for details on maximum working flow. Set the working flow to less than the maximum working flow. Note 6: When element option "Y" is selected, refer to the maximum working flow table (page 87) for maximum flow. Set the working flow to less than the maximum working flow. Note 7: C2000-W Series with an automatic drain "F1" must be used below maximum flow rate. (Refer to page 85 F2000-W for weight.)

Internal structure



How to order

F.R.L. Combination

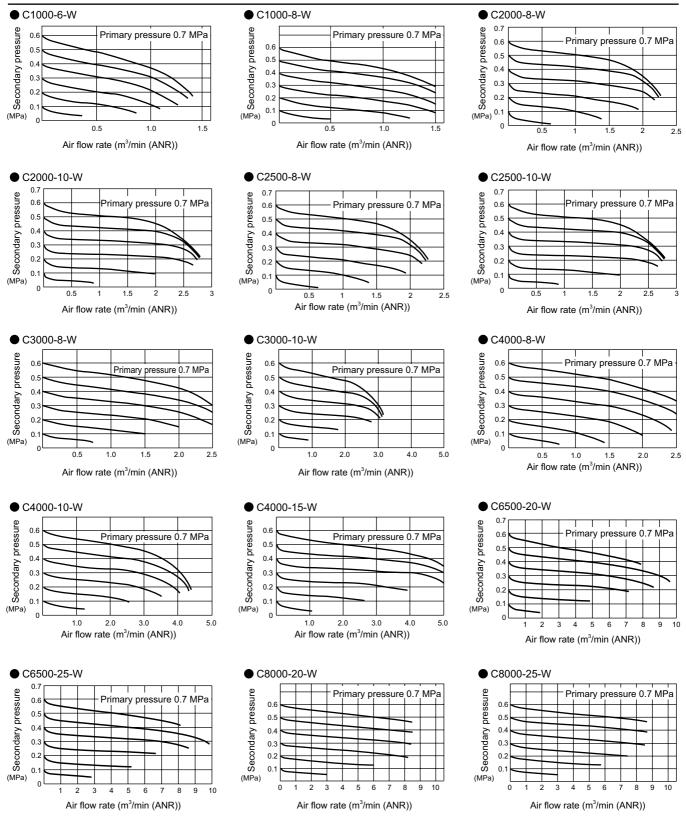
How to order

Refer to	p page 9 for an	explana	tion of the options.		84.0			N	-1- 4
(C1000)-(6)()-W-(C)-(UDSV)-()-(A(6W)))(W			A C 1	M0 C 2	C 2	no. C 3	С	ote 1 C C
				1 0 0	0	2 5 0	0	0	6 8 5 0
		Symbo		ŏ	0 0	ŏ	0 0	0 0	0 0 0 0
Model no.		B Poi 6	1/8						
Note 2		8	1/4	\bullet	\bullet	\bullet	•	•	
		10 15	3/8 1/2		•	•	-	•	
		20	3/4					Attent	• •
		25	1						• •
Port thread type		_	rt thread type					Ν	lote 2
		Blank N	Rc thread NPT thread	•	•			-	
		G	G thread	•	•	•	•	•	••
		Ор	tion					N	lote 3
Option		2 E	k Filter with manual drain cock, lubricator without manual drain cock	•	•	•	•	•	• •
			Lubricator with manual cock Filter with automatic drain (N0 type: exhaust without pressurization)	•	•	-		-	
		Drain discharge H H H		•	•	•	•	•	• •
		ië FF							
		E Blan							
		material R R		•	•	•	•	-	
		ĭ ₩ M				•	•	•	• •
		M Bowl			•	•	•	•	
		Element A	-	•					
		Blan	· · · · · · · · · · · · · · · · · · ·	•	•	•	•	•	••
Assembly attachment		P and a determinant							• •
		Pressure range range	k 0.05 to 0.85MPa 0.05 to 0.35MPa Note 7	•	•	•		•	
		ja JaBlan		•	•	•	•	•	
Displayed unit		Relief z Blau	Non-relief type	•	ullet	ullet	\bullet	•	• •
		ang Blan		•	•	•	•	•	\bullet
		Pressure gauge BL A	Without pressure gauge (gauge port (Rc1/4) assembled sealed) Pressure gauge attachable (gauge port (Rc1/4) assembled open)	-				-	
🕒 Pipir	ng adaptor			•	•	•	•	•	••
set (included)	E Se X1	Reverse flow (right to left)	•	\bullet	\bullet	•	•	• •
A Cautions for model No. selection		E As: Blank	sembly attachment Page	s 1	37 t	io 1	48,	153	, 154
		U	Without assembly attachment With assembly attachment Note 8	•	•	•	•	-	
Note 1: Piping adaptor A400-20*-W is assembled on both ends of C4000-20*-W. Piping adaptor set "A20*W" does not			Distributor (D101-W, D401-W, D801-W)	\bullet	\bullet	\bullet	\bullet	•	• •
need to be specified.		ssembled	Pressure switch (P1100-W, 4100-W, 8100-W)	•	•	•	•	•	• •
Note 2: G threads and NPT threads are available for IN, OUT,		Rem Sem	Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W)	•	-	-	-	-	
gauge port and drain discharge port (metal bowl with automatic drain). Attachment P, V will be subject to this		A K			•	\bullet		•	• •
as well.		🕞 Dis	played unit						
Note 3: Select options for each drainage discharge, bowl material, element, differential pressure detection, and		Blank	MPa display, Rc thread	•	•	•	•	•	
regulator items. When selecting options for several		J1	MPa display, NPT, G thread		15		- 15	7.01	ote 9
items, list options in order from the top.		Blank	ing adaptor set (included) Pa Not attached	iges •	\bullet				
Note 4: Refer to page 12 for working conditions of the automatic drain.		A6*W	1/8 piping adaptor set	•					
Note 5: Have a choice drain discharge option "C" or "F" and		A8*W	1/4 piping adaptor set	•	•	•		•	
"F1" for option "M1".		A10*W A15*W			•	•		•	
Note 6: Refer to page 87 for max. flow rate of option "Y". Note 7: Pressure gauge display range will be 0 to 0.4 MPa for		A20*W			-	_		- 1	• •
option "L".		A25*W							• •
Note 8: Mounting location for assembly attachments		A32*W	1 1/4 piping adaptor set tor thread type						• •
Symbol Attachment mounting position Applicable model		Blank			•	•	•	•	• •
D F+ (D) +R+L C1000-W to C8000-W		Ν	NPT thread	•	\bullet	\bullet		•	• •
S or F+R+ (S, P) +L C1000-W to C8000-W ("P" excludes 1000, 6000,		G	G thread	•	•	•	•	•	• •
P 8000 Series)	Attachment	H Att Blank	achment Not attached						• •
V C1000-W to C8000-W		PW	Pressure switch (P4000-W) +joiner set		•	•	•	•	
or K F+R+L+ (V, K) ("V" excludes 6000, 8000 Series. "K" excludes 1000 Series)		vw	Shut-off valve (V1000-W, V3000-W) +joiner set	\bullet	\bullet	\bullet	\bullet	•	
Note) Indicate "U" + "D", "S", "P", "V", and "K" when selecting	Pressure gauge		essure gauge option (attached)		No	ote	10 p	bage	ə 198
an assembly attachment.	Pressure gauge option (attached)	Blank	Not attached	•		•		•	\bullet
Use custom combinations specifications for any other	option (attaonou)	G45P G49P	G45D-8-P10 (L: G45D-8-P04) G49D-8-P10 (L: G49D-8-P04)	•	•	•	•	-	••
combination. Note 9: A joiner set is attached with the piping adapter set.		G59P	G59D-8-P10 (L: G59D-8-P04)	•		•		•	• •
Note 10: If NPT is selected for the "C" piping thread type, a		G40P	G40D-8-P10 (L: G40D-8-P04)	•	\bullet	•	•	•	••
NPT pressure gauge is enclosed. If Rc or G thread is selected, an R thread pressure gauge is enclosed		G50P G41P	G50D-8-P10 (L: G50D-8-P04) G41D-8-P10 (L: G41D-8-P04)	•	•	•	•	•	••
selected, an R thread pressure gauge is enclosed.		G52P	G52D-8-P10 (L: G52D-8-P10)	•	•	•	-	-	••

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CKD

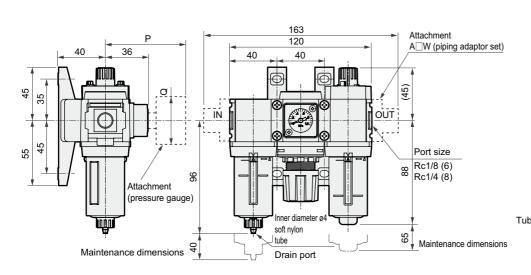
Flow characteristics



MEMO

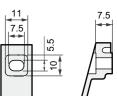
Dimensions CAD

• C1000-W



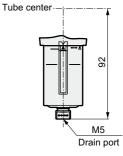
Option dimensions with pressure gauge attached

Attached pressure gauge	Р	Q
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

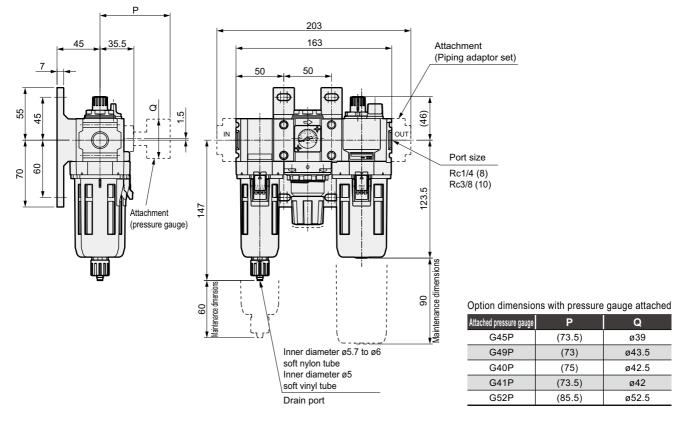


Drawing of bracket section

Option dimensions
 With automatic drain (F1)



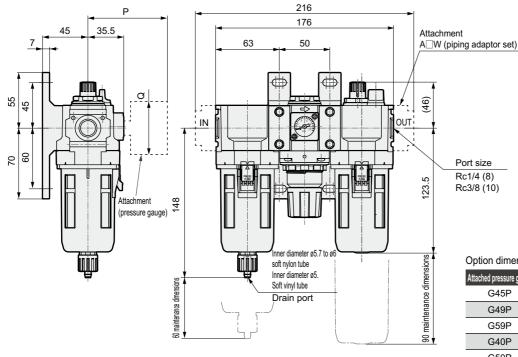
• C2000-W

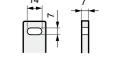


Dimensions

• C2500-W

Dimensions CAD

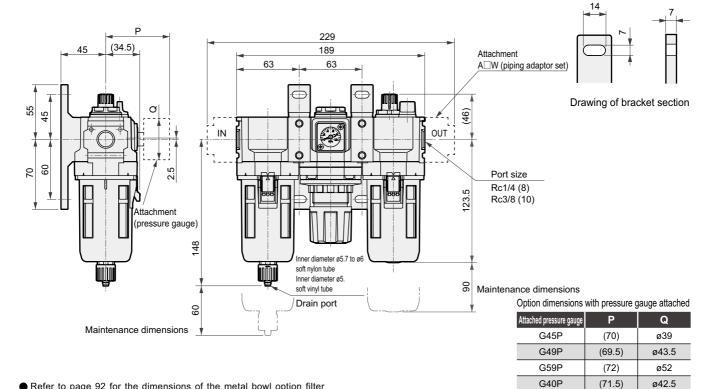




Drawing of bracket section

Option dimensions with pressure gauge attached							
Attached pressure gauge	Р	Q					
G45P	(73.5)	ø39					
G49P	(73)	ø43.5					
G59P	(75.5)	ø52					
G40P	(75)	ø42.5					
G50P	(75)	ø52.5					
G41P	(73.5)	ø42					
G52P	(85.5)	ø52.5					

• C3000-W



 Refer to page 92 for the dimensions of the metal bowl option filter section and page 135 for the lubricator section.

(71.5)

(70)

(82)

ø52.5

ø42

ø52.5

26

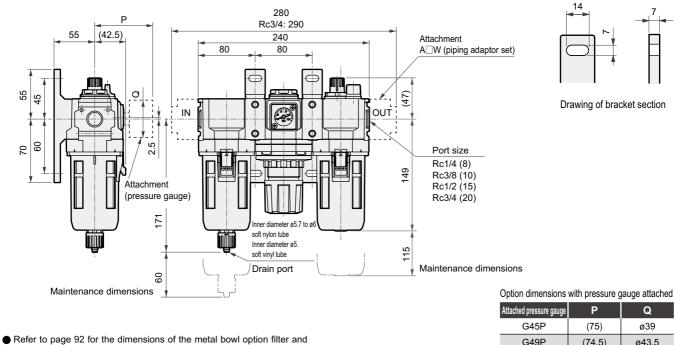
G50P

G41P

G52P

Dimensions CAD

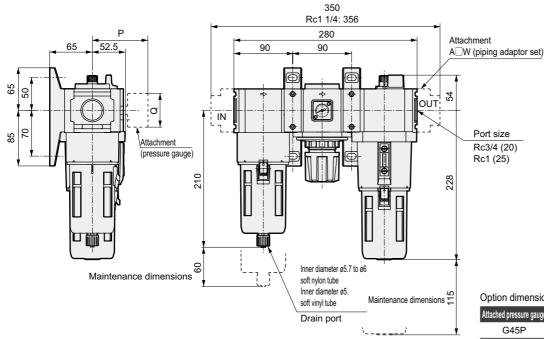
• C4000-W

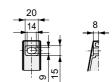


page 135 for the lubricator.

Attached pressure gauge	Р	Q
G45P	(75)	ø39
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G50P	(76.5)	ø52.5
G41P	(75)	ø42
G52P	(86)	ø52.5

• C6500-W



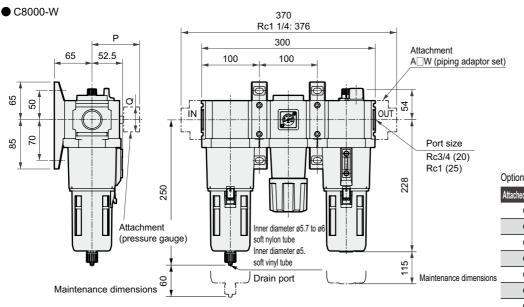


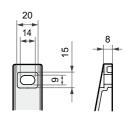
Drawing of bracket section

Option dimensions with pressure gauge attached

Attached pressure gauge	Р	Q
G45P	(80)	ø39
G49P	(79.5)	ø43.5
G59P	(82)	ø52
G40P	(81.5)	ø42.5
G50P	(81.5)	ø52.5
G41P	(80)	ø42
G52P	(93)	ø52.5

Dimensions with options





Drawing of bracket section

Option dimensions with pressure gauge attached

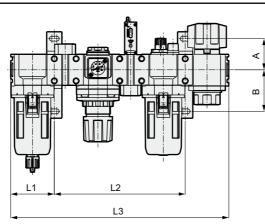
	Attached pressure gauge	Р	Q
	G45P	(85)	ø39
	G49P	(84.5)	ø43.5
	G59P	(87)	ø52
	G40P	(86.5)	ø42.5
5	G50P	(86.5)	ø52.5
	G41P	(85)	ø42
	G52P	(98)	ø52.5

 Refer to page 92 for the dimensions of the metal bowl option filter and page 135 for the lubricator.

Dimensions with options

• C1000-W to C8000-W

Dimensions CAD



Model no.	Α	В
C1000-W	35	45
C2000-W		
C2500-W	45	60
C3000-W		60
C4000-W		
C6050-W	50	70
C8000-W	50	70

Assembled options	_	D		_	S			Р		_	v			к		_	DS		_	DP		_	DV		_	DK	
Model no.	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 Note 1	100	111.5	311.5	100	111.5	311.5	100	160	360	100	160	343	100	160	343	100	143	343	100	191.5	391.5	100	191.5	374.5	100	191.5	374.5
C6500-W	90	140	330	90	140	330	-	-	-	-	-	-	90	190	370	90	190	380	-	-	-	-	-	-	90	240	420
C8000-W	100	150	350	100	150	350	-	-	-	-	-	-	100	200	390	100	200	400	-	-	-	-	-	-	100	250	440
Assembled options		DSV	'		DSK			DPV			DPK			SV			SK			P۷			ΡK				
Model no.	L1	L2	L3																								
C1000-W	40	136	216	-	-	-	-	-	-	-	-	-	40	100	188	-	-	-	-	-	-	-	-	-			
C2000-W	50	176	289	50	176	289	50	224.5	337.5	50	224.5	337.5	50	144.5	257.5	50	144.5	257.5	50	193	306	50	193	306			
C2500-W	63	176	302	63	176	302	63	224.5	350.5	63	224.5	350.5	63	144.5	270.5	63	144.5	270.5	63	193	319	63	193	319			
C3000-W	63	189	315	63	189	315	63	237.5	363.5	63	237.5	363.5	63	157.5	283.5	63	157.5	283.5	63	206	332	63	206	332			
C4000-W	80	223	366	80	223	366	80	271.5	414.5	80	271.5	414.5	80	191.5	334.5	80	191.5	334.5	80	240	383	80	240	383			
C4000-20-W Note 1	100	223	406	100	223	406	100	271.5	454.5	100	271.5	454.5	100	191.5	374.5	100	191.5	374.5	100	240	423	100	240	423			
C6500-W	-	-	-	90	290	470	-	-	-	-	-	-	-	-	-	90	240	420	-	-	-	-	-	-			

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

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

L3: Dimensions from the IN edge to the OUT edge

*Refer to the general catalog for the detailed dimentions of the mounting hole of the bracket. Note 1. The piping adapter is assembled on the OUT side.

Piping adaptor A400-20-W is assembled on both ends of C4000-20-W.



F.R.L. combination standard white series C1010/C2010/C3010/C4010/C8010-W Series

Integrated filter, regulator and lubricator. Port size: 1/8 to 1





Specifications

Specifications									
Descriptions	C1010-W	C2010-W	C3010-W	C4010-W	C8010-W				
Exterior									
Components 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						
Withstanding pressure MPa			1.5						
Ambient temperature range °C			5 to 60						
Filtration rating µm			5						
Set pressure range MPa	. ,		0.05 t	o 0.85					
Minimum drip flow (Note 1) m ³ /min (ANR)	0.015	0.03	0.03	0.065	0.065				
Relief			With relief mechanism						
Oil capacity cm ³	20	85	85	170	170 (MAX360)				
Drain capacity cm ³	12	25	45	80	80 Note 2				
Applicable oil		Turbine oil Class	s 1 ISO VG32 (spindle o	oil not permitted)					
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)				
Product weight kg	0.31	0.77	0.97	1.45	3.57				
Standard accessories		Pressure gauge, bracket, bowl guard							

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

Note 2: Drainage accumulates up to 170 cm³ only with the manual drain cock.

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

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

Note 5: When using C1010-W Series "F1" with an automatic drain, the minimum operating pressure is 0.2 MPa and maximum operation pressure is 0.7 MPa. Refer to the maximum working flow table (page 85) for F1000-W-F1 with an automatic drain for details on maximum working flow. Set the working flow below the maximum working flow.

Note 6: When element option "Y" is selected, refer to the maximum working flow table (page 87) for maximum flow. Set the working flow to less than the maximum working flow.

Note 7: C2010-W Series with an automatic drain "F1" must be used below maximum flow rate. (Refer to page 85 F2000-W for weight.)

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CKD

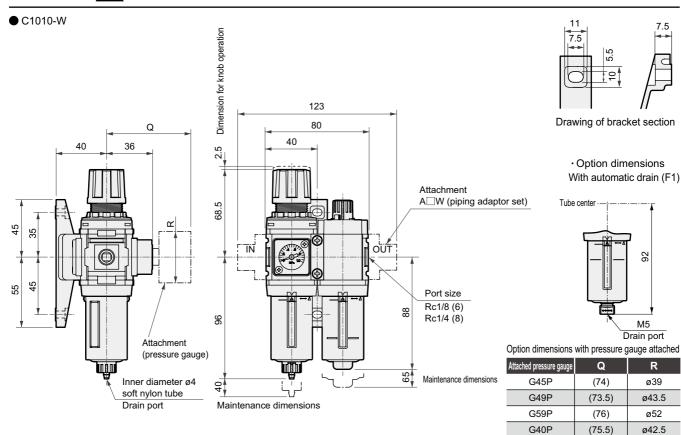
W.L. Combination

How to order

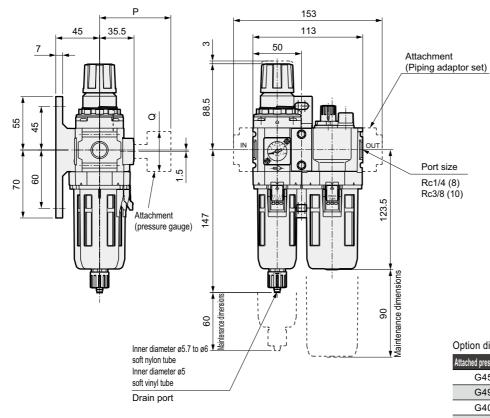
	er			* Re	fer top page 9 for an explanation			ode	
<u> 21010)-(6</u>	3)W-(C)-(U) of	the options.	C	C 2 0 1	C 3 0	C 4
		G Piping adap	otor set	- H Press	sure gauge option (attached)	0	0	0	0
		(included)		nbol	Descriptions	6	o	1 0	1 0
Madalina			B Por		Descriptions				
Model no.	Port size		_	3	1/8				
				3	1/4	•	•	•	•
				0	3/8	-	•	•	•
			1	5	1/2				•
				0	3/4				Note
				5	1				-
				t thread					No
	C Port thread type			t thread ank	Rc thread				NO
	-			N	NPT thread				
				3	G thread			-	
				-	o thead		-		
	D Optio	n	D Opt				-	-	No
	- child			Blank	Filter with manual drain cock, lubricator without manual drain cock		•		•
				C	Lubricator with manual cock		•		•
			Drainage	F	Filter with automatic drain (NO type: exhaust without pressurization)	_	-		•
				F1	Filter with automatic drain (NC type: exhaust with pressurization)				•
			Note 4	FF	Filter with automatic large automatic drain (NO type: exhaust without pressurized)				
			<u> </u>	FF1	Filter with automatic large drain (NC type: no exhaust without pressurization)				
				Blank	Polycarbonate bowl	•	•	\bullet	•
			Bowl	Z	Nylon bowl	•	•	\bullet	•
			material	м	Metal bowl				•
				M1	Metal bowl with manual drain cock Note 5		•	\bullet	•
			Element	Blank	5µm	•	•	\bullet	•
				Y	0.3µm (submicron) Note 6			\bullet	•
			Pressure	Blank	0.05 to 0.85MPa		•	•	•
			Range	L	0.05 to 0.35MPa Note 7		•	\bullet	•
			Relief	Blank	With relief mechanism		•	\bullet	•
				N	Non-relief type	•	٠	•	•
			Pressure	Blank	Standard pressure gauge (G401-W)		٠	\bullet	•
				т	Without pressure gauge (gauge port (Rc1/4) assembled sealed)		•	\bullet	•
			gauge	Т8	Pressure gauge attachable (gauge port (Rc1/4) assembled open)	\bullet	\bullet	\bullet	\bullet
			1	D 1.1					
			Flow	Blank	Standard flow (left to right)		•		•
			Direction	X1	Standard flow (left to right) Reverse flow (right to left)	•	•	•	•
			Direction	X1		● ● 37 to	● ● 0 <u>14</u>	● ● 8, <u>1</u> 5	• • 53,
		Assembly attachment	Direction E Ass	X1	Reverse flow (right to left)	● ● 37 to	• • •14	● ● 8, 15	• • 53,
			Direction	X1 embly a	Reverse flow (right to left) attachment Page 1	•	• • • •	• • 8, 15 •	• 53, •
		Displayed unit	Direction Black	X1 embly a ank	Reverse flow (right to left) attachment Page 1 Without assembly attachment	•	 • • • • • • • • • 	• 8, 1: •	• • • • •
Caution		Displayed unit	Direction Black	X1 embly a ank J	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment type Note 8	•	•	•	•
Caution	s for model No. s	Displayed unit	Direction Black	X1 embly a ank J S	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment type Note 8 Pressure switch (P1100-W, 4100-W, 8100-W)	•	•	•	•
e 1: Piping ada	s for model No. s	Displayed unit election	Direction E Ass Bla	X1 embly a ank J S P	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment type Note 8 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W)		•	•	•
e 1: Piping ada C4010-20*-	s for model No. s	Displayed unit election	Direction C Ass Bla U performed Bla U D D D D D D D D D D D D D	X1 embly a ank J S P V K	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment Assembly attachment type Note 8 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W)		• • • •	• • • •	• • • •
e 1: Piping ada C4010-20*- selected.	s for model No. s aptor A400-20*-W is assem -W. Piping adaptor set "A20*V	Displayed unit election bled on both ends of V" does not need to be	Direction C Ass Bla Direction C Directi	X1 embly a ank J S P V K	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment type Note 8 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P1100-W, 4100-W) Shut-off valve (V1000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W)		• • • •	• • • •	• • • •
e 1: Piping ada C4010-20*- selected. e 2: G threads a	s for model No. s aptor A400-20*-W is assem -W. Piping adaptor set "A20*V and NPT threads are availab	Displayed unit Displayed unit election bled on both ends of V" does not need to be le for IN, OUT, gauge	Direction C Ass Bla Direction C Directi	X1 embly a ank J S P V K olayed u	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment type Note 8 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P1100-W, 4100-W, 8100-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) Init MPa display, Rc thread		• • • •	• • • •	• • • •
e 1: Piping ada C4010-20*- selected. e 2: G threads a port and dra	s for model No. s aptor A400-20*-W is assem -W. Piping adaptor set "A20*V and NPT threads are availab ain discharge port (metal bow	Displayed unit Displayed unit election bled on both ends of V" does not need to be le for IN, OUT, gauge I with automatic drain).	Direction Ass Bla Bla Bla SS Bla Bla J	X1 embly a ank J S P V K blayed u ank 1	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment type Assembly attachment type Note 8 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) Imit MPa display, Rc thread MPa display, NPT, G thread				
e 1: Piping ada C4010-20*- selected. e 2: G threads a port and dra Attachment	s for model No. s aptor A400-20*-W is assem -W. Piping adaptor set "A20*V and NPT threads are availab ain discharge port (metal bow t P, V will be subject to this as	Displayed unit Displayed unit election bled on both ends of V" does not need to be le for IN, OUT, gauge I with automatic drain). well.	Direction C Ass Bla Direction Bla Bla Bla G Pipi	X1 embly a ank J S P V K olayed u ank 1 ng adap	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment type Assembly attachment type Note 8 Pressure switch (P1100-W, 4100-W) 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) Imit MPa display, Rc thread MPa display, NPT, G thread Page	 • /ul>	 • /ul>		
e 1: Piping ada C4010-20*- selected. e 2: G threads a port and dra Attachment e 3: Select opt	s for model No. s aptor A400-20*-W is assem -W. Piping adaptor set "A20*V and NPT threads are availab ain discharge port (metal bow	Displayed unit Displayed unit election bled on both ends of V" does not need to be ble for IN, OUT, gauge I with automatic drain). well. aterial, element, and	Direction C Ass Bla U Page SSV F Dis Bla J G Pipi Bla	X1 embly a ank J S P V K olayed u ank 1 ng adap ank	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment type Assembly attachment type Note 8 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) Imit MPa display, Rc thread MPa display, NPT, G thread otor set (included) Page Not attached Page	 • •<			
e 1: Piping ada C4010-20*- selected. e 2: G threads a port and dra Attachment e 3: Select opt regulator so	s for model No. s aptor A400-20*-W is assem -W. Piping adaptor set "A20*V and NPT threads are availab ain discharge port (metal bow t P, V will be subject to this as tions per drainage, bowl m	Displayed unit Displayed unit election bled on both ends of V" does not need to be ble for IN, OUT, gauge I with automatic drain). well. aterial, element, and	Direction Ass Bla U Page Se V P Dis Bla J C Pipi Bla A6	X1 embly a ank J S P V K olayed u ank 1 ng adap ank *W	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment Assembly attachment type Note 8 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) Imit MPa display, Rc thread MPa display, NPT, G thread Mot attached 1/8 piping adaptor set	 • /ul>	 • /ul>		 • /ul>
e 1: Piping ada C4010-20*- selected. e 2: G threads a port and dra Attachment e 3: Select opt regulator s list options e 4: Refer to pa	s for model No. s aptor A400-20*-W is assem -W. Piping adaptor set "A20*V and NPT threads are availab ain discharge port (metal bow t P, V will be subject to this as tions per drainage, bowl m ections. When selecting opti in order from the top. uge 12 for working conditions of	Displayed unit election bled on both ends of V" does not need to be le for IN, OUT, gauge I with automatic drain). well. aterial, element, and ons for several items, of the automatic drain.	Direction C Ass Bla U Page Sev F Dis Bla J C Pipi Bla A6 A8	X1 embly a ank J S P V K olayed u ank 1 ng adap ank *W	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment Assembly attachment type Note 8 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) Image: the second	 • •<	 • /ul>		 • /ul>
 a 1: Piping ada C4010-20*- selected. b 2: G threads a port and dra Attachment b 3: Select opt regulator sulist options c 4: Refer to paie c Have a choose 	s for model No. s aptor A400-20*-W is assem -W. Piping adaptor set "A20*V and NPT threads are availat ain discharge port (metal bow t P, V will be subject to this as tions per drainage, bowl m tections. When selecting opti in order from the top. age 12 for working conditions of oice drain discharge option "	Displayed unit election bled on both ends of V" does not need to be le for IN, OUT, gauge I with automatic drain). well. aterial, element, and ons for several items, of the automatic drain.	Direction C Ass Bla U Page SS V P Dis Bla SS V C Pipi Bla A6 A8 A10	X1 embly a ank J S P V K olayed u ank 1 ng adap ank *W *W	Reverse flow (right to left) attachment Page 1 Without assembly attachment Assembly attachment Assembly attachment type Note 8 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) Imit MPa display, Rc thread MPa display, NPT, G thread MPa display, NPT, G thread Page Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set	 • •<	 • /ul>	 • •<	 • /ul>
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e 1: Piping ada C4010-20*- selected. e 2: G threads a port and dra Attachment e 3: Select opt regulator sa list options e 4: Refer to pate e 5: Have a chor option "M1" e 6: Refer to pate e 7: Pressure g "L". e 8: Mounting Ic S or P V or K V or K ote: Indicate "U assembly a Use custo combination e 9: A joiner set	s for model No. s aptor A400-20*-W is assem -W. Piping adaptor set "A20*V and NPT threads are availab ain discharge port (metal bow t P, V will be subject to this as tions per drainage, bowl m tections. When selecting opti in order from the top. Ige 12 for working conditions of oice drain discharge option " age 87 for max. flow rate of op lauge display range will be 0 be cation for assembly attachment W+ (S, P) +L C W+L+ (V, K) ", "S", "P", "V", and " attachment. om combinations specific. n.	Displayed unit Displayed unit election bled on both ends of V" does not need to be vell, des not need to be vell, out, gauge vell, aterial, element, and ons for several items, of the automatic drain. C" or "F" and "F1" for tion "Y". to 0.4 MPa for option ents Applicable model 1010-W to C8010-W "excludes 8000 Series." K" when selecting an ations for any other lapter set.	Direction	X1 embly a ank J S P V K olayed u ank 1 ng adap ank *W *W 5*W 5*W 5*W 5*W 2*W for thre ank 5 S Sure ga ank 5 P	Reverse flow (right to left)attachmentPage 1Without assembly attachmentAssembly attachment typeNote 8Pressure switch (P1100-W, 4100-W, 8100-W)Pressure switch (P4000-W)Shut-off valve (V1000-W, V3000-W)Shut-off valve (V1000-W, V3000-W)Shut-off valve with key hole (V3010-W, V6010-W)InitMPa display, Rc threadMPa display, Rc threadMPa display, NPT, G threadotor set (included)PageNot attached1/8 piping adaptor set1/4 piping adaptor set3/8 piping adaptor set1/2 piping adaptor set3/4 piping adaptor set1 1/4 piping adaptor setat typeRc threadNPT threadG threadauge option (attached)Not attachedG49D-8-P10 (L: G45D-8-P04)G59D-8-P10 (L: G40D-8-P04)G40D-8-P10 (L: G40D-8-P04)	• • • •	 • /ul>		
 e 1: Piping ada C4010-20*- selected. e 2: G threads a port and dra Attachment e 3: Select opt regulator sa list options e 4: Refer to pa e 5: Have a chc option "M1" e 6: Refer to pa e 7: Pressure g "L". e 8: Mounting Ic S or P V or K V or K v ote: Indicate "U assembly a Use custo combination e 9: A joiner set e 10: If NPT is 	s for model No. s aptor A400-20*-W is assem -W. Piping adaptor set "A20"V and NPT threads are available ain discharge port (metal bow t P, V will be subject to this as tions per drainage, bowl m sections. When selecting opti in order from the top. Ige 12 for working conditions of oice drain discharge option " ". Ige 87 for max. flow rate of op lauge display range will be 0 be cation for assembly attachment W+ (S, P) +L C W+L+ (V, K) C W+L+ (V, K) 	Displayed unit Election Displayed unit election bled on both ends of v" does not need to be le for IN, OUT, gauge l with automatic drain). well. aterial, element, and ons for several items, of the automatic drain. C" or "F" and "F1" for tion "Y". to 0.4 MPa for option ents Applicable model 1010-W to C8010-W "excludes 8000 Series) 1010-W to C8010-W " excludes 8000 Series) K" when selecting an ations for any other lapter set. g thread type, a NPT	Direction	X1 embly a ank J S P V K olayed u ank 1 ng ada; ank *W *W *W *W *W *W *W *W *W *W *W *W *W	Reverse flow (right to left)IttachmentPage 1Without assembly attachmentAssembly attachment typeNote 8Pressure switch (P1100-W, 4100-W, 8100-W)Pressure switch (P4000-W)Shut-off valve (V1000-W, V3000-W)Shut-off valve (V1000-W, V3000-W)Shut-off valve with key hole (V3010-W, V6010-W)InitMPa display, Rc threadMPa display, Rc threadMPa display, NPT, G threadotor set (included)PageNot attached1/8 piping adaptor set1/4 piping adaptor set3/8 piping adaptor set1/2 piping adaptor set1 piping adaptor set1 1/4 piping adaptor setat typeRc threadNPT threadG threadauge option (attached)Not attachedG49D-8-P10 (L: G45D-8-P04)G59D-8-P10 (L: G59D-8-P04)	• • • •	 • /ul>		

W.L. Combination

Dimensions CAD



• C2010-W



Option dimensions with pressure gauge attached

7.5

R

ø39

ø43.5

ø52

ø42.5

ø52.5

ø42

ø52.5

(75.5)

(74)

(86)

G50P

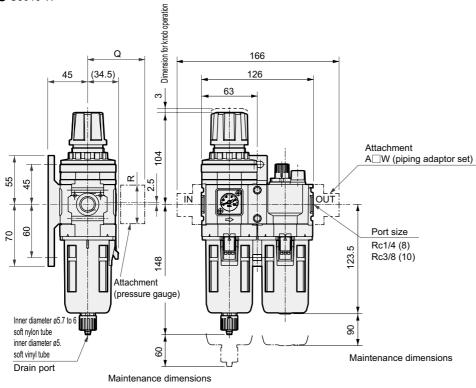
G41P

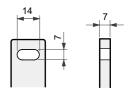
G52P

Attached pressure gauge	Р	Q
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G40P	(75)	ø42.5
G41P	(73.5)	ø42
G52P	(85.5)	ø52.5

Dimensions







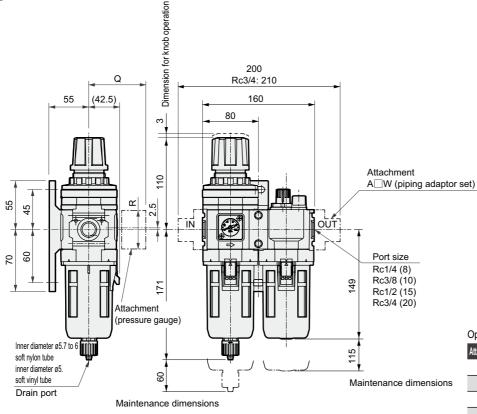
Drawing of bracket section

Option dimensions with	pressure gauge attached
------------------------	-------------------------

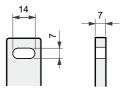
Attached pressure gauge	Q	R
G45P	(70)	ø39
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G50P	(71.5)	ø52.5
G41P	(70)	ø42
G52P	(82)	ø52.5

 Refer to page 75 for the dimensions of the metal bowl option filter/ regulator and page 135 for the lubricator.





* Refer to page 75 for the dimensions of the metal bowl option filter/ regulator and page 135 for the lubricator.



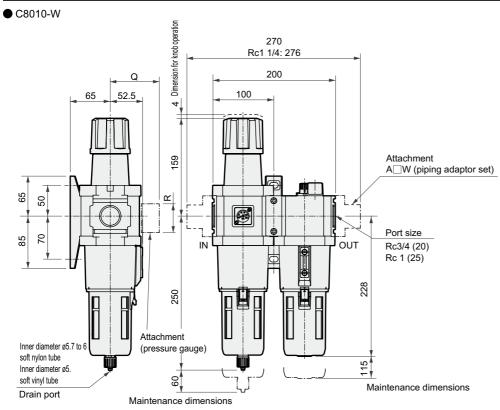
Drawing of bracket section

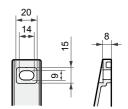
Option dimensions with pressure gauge attached						
Attached pressure gauge	Q	R				
G45P	(75)	ø39				

G45P	(75)	ø39				
G49P	(74.5)	ø43.5				
G59P	(77)	ø52				
G40P	(76.5)	ø42.5				
G50P	(76.5)	ø52.5				
G41P	(75)	ø42				
G52P	(86)	ø52.5				
СКД						

W.L. Combination

Dimensions CAD





Drawing of bracket section

Option dimensions with pressure gauge attached							
Attached pressure gauge	Q	R					
G45P	(85)	ø39					
G49P	(84.5)	ø43.5					
G59P	(87)	ø52					
G40P	(86.5)	ø42.5					
G50P	(86.5)	ø52.5					
G41P	(85)	ø42					
G52P	(98)	ø52.5					

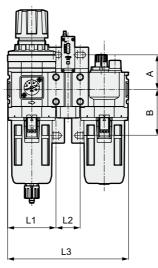
 Refer to page 75 for the dimensions of the metal bowl option filter/ regulator and page 135 for the lubricator.

W.L. Combination

Dimensions with options

Dimensions with options

• C1010-W to C8010-W



Model no.	Α	В				
C1010-W	35	45				
C2010-W						
C3010-W	45	60				
C4010-W						
C8010-W	50	70				

Assembled options S		S	S		Р		V		K		SV			SK			PV			PK				
Model no.	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
C1010-W	40	28	108	-	-	-	40	40	120	-	-	-	40	68	148	-	-	-	-	-	-	-	-	-
C2010-W	50	31.5	144.5	50	80	193	50	63	176	50	63	176	50	94.5	207.5	50	94.5	207.5	50	143	256	50	143	256
C3010-W	63	31.5	157.5	63	80	206	63	63	189	63	63	189	63	94.5	220.5	63	94.5	220.5	63	143	269	63	143	269
C4010-W	80	31.5	191.5	80	80	240	80	80	223	80	80	223	80	111.5	271.5	80	111.5	271.5	80	160	303	80	160	303
C4010-20-W Note 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 *Refer to the general catalog for the detailed dimentions of the mounting hole L2: Spacing dimensions of the mounting hole from the first T-type bracket of the bracket.

to the second T-type bracket

L3: Dimensions from the IN edge to the OUT edge

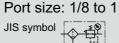
Note 1. The piping adapter is assembled on the OUT side.

Piping adaptor A400-20-W is assembled on both ends of C4010-20-W.



F.R.L. combination standard white series C1020 / C2020 / C2520-W C3020 / C4020 / C6020 / C8020-W Series

Integrated filter and regulator.





Specifications

•	riptions	C1020-W	C2020-W	C2520-W	C3020-W	C4020-W	C6020-W	C8020-W						
Exterior														
Common and a	Filter	F1000-W	F2000-W	F3000-W	F3000-W	F4000-W	F6000-W	F8000-W						
Components	Regulator	R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W						
Working flu	uid	Compressed air												
Max. working	g pressure MPa	1.0												
Withstanding	g pressure MPa	1.5												
Ambient tempe	erature range °C	5 to 60 Note 6												
Filtration ra	ating µm				5									
Set pressure	e range MPa	0.05 to 0.85 Note 2	0.05 to 0.85 Note 2 0.05 to 0.85											
Relief			With relief mechanism											
Drain capa	acity cm ³	12	25	45	45	80	80	80 (Note 1)						
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)						
Product we	eight kg	0.28	0.64	0.65	0.79	1.25	2.07	2.93						
Standard a	accessories			Pressure g	gauge, bracket, b	owl guard		·						

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

Note 2: When using C1020-W series "F1" with an automatic drain, the minimum operating pressure is 0.2 MPa and maximum operation pressure is 0.7 MPa.

Refer to the maximum working flow table (page 85) for F1000-F1 with an automatic drain for details on maximum working flow. Set the working flow below the maximum working flow.

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

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

Note 5: When element option "Y" is selected, refer to the maximum working flow table (page 87) for maximum flow. Set the working flow to less than the maximum working flow.

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

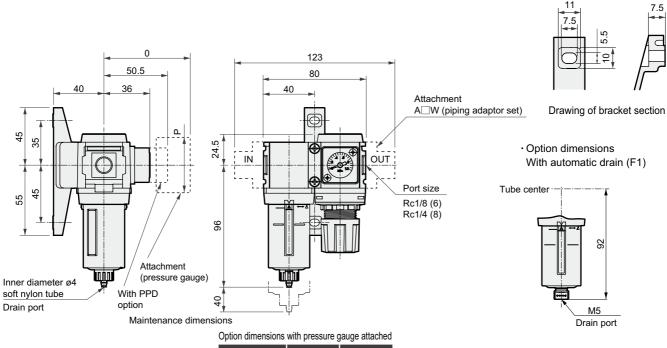
Note 7: C2020-W Series with an automatic drain "F1" must be used below maximum flow rate. (Refer to page 85 F2000-W for weight.)

					C		T T	1	el n C	-
1020)-(6) ()- W -	·(L)-(U DSV)-(_)-(A6	W)-(/	Refer page 9 for an explanation	C 1	C 2 0	C 2 5 2 0	C 3 0	C 4	C 6 0
		g adaptor		of the options.	020	02	2	020	0	02
			Pressu	ire gauge option (included)	0	2 0	0	0	2 0	0
	001(nbol	Descriptions						
odel no.				Descriptions						
BPort size		B Por		1/0						
			6	1/8	-	-	-		-	
			8	1/4	•	•	•	-	•	
			0	3/8		•	•	•	•	
		1	5	1/2					•	
		2	20	3/4					● lte	•
		2	25	1						
		© Por	t thread	type						No
Port three	ead type		ank	Rc thread		•	•			
			N	NPT thread	•	•	•		•	
			G	G thread	•	•	•		•	•
			• • • •		-	-	-		-	
	Option	D Opt	-							No
	Copuoli		Blank	With filter and manual drain cock	•	•	•	-	-	
			F	Filter with automatic drain (ND type: exhaust without pressurization)			•	•	•	•
		Drainage	F1	Filter with automatic drain (NC type: exhaust with pressurization)	•	•	•	•	•	
		Note 4	FF	Filter with automatic large automatic drain (NO type: exhaust without pressurized)						
			FF1	Filter with automatic large drain (NC type: no exhaust without pressurization)						
			Blank	Polycarbonate bowl	\bullet	•	\bullet	•	\bullet	
		Bowl	z	Nylon bowl	\bullet	\bullet	\bullet	•	\bullet	
		material	м	Metal bowl			•	•	•	
		1	M1	Metal bowl with manual drain cock		•	•	•	•	
			Blank	5µm	•	é	é	Í	Í	
		Element	Y	0.3µm (submicron) Note 5	•					
		Differential	Blank	Without differential pressure detection port						
		pressure detection	Q	· · ·	-					
				With differential pressure detection port (Rc1/4)						
		Pressure		0.05 to 0.85MPa	•	-			-	
		Range	L	0.05 to 0.35MPa Note 6	•	•	•	•	•	
	Assembly attachment	Relief	Blank	With relief mechanism	\bullet			•		
			N	Non-relief type	\bullet	\bullet	•		•	
	I		Blank	Standard pressure gauge (G401-W)	\bullet	\bullet	\bullet	•	•	
	Displayed unit	Pressure	Т	Without pressure gauge (gauge port (Rc1/4) assembled sealed)	\bullet	\bullet	\bullet	\bullet	\bullet	
Cautions for mode	No soloction		Т8	Pressure gauge attachable (gauge port (Rc1/4) assembled open)	\bullet	•	•		•	
		gauge	Т6	Compatibility with digital pressure sensor PPX Note 7	\bullet	•	•	•	•	
· Piping adaptor A400-20*-W	is assembled on both ends of		R1	Pressure switch with display PPD assembled Note 8	\bullet			•	•	
	or set "A20*W" does not need to	Flow	Blank	Standard flow (left to right)		•		•	•	
be specified.		direction	X1	IN/OUT reverse flow (right to left)	\bullet	•	•	•		
•	are available for IN, OUT, gauge	B Ass	ombly a	ttachment Pa	ige	12	7 10	149	1.5	2
	ort (metal bowl with automatic		ank	Without assembly attachment	ge					Ξ,
port and drain discharge p	•		J			-	-		-	
port and drain discharge p drain). Attachment P, V will b				Assembly attachment type Note 5						
drain). Attachment P, V will b	xhaust, bowl material, element,		-	Assembly attachment type Note 5	-	•	•	•	•	
drain). Attachment P, V will b Select options from drain e			D	Distributor (D101-W, D401-W, D801-W)	•	•	•	•	•	
drain). Attachment P, V will b B: Select options from drain e differential pressure detection	xhaust, bowl material, element,		D S	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W)		•	•	•	•	
drain). Attachment P, V will b : Select options from drain e differential pressure detection selecting options for several	xhaust, bowl material, element, n, regulator, and regulator. When		D S P	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W)	•	• • •	• • •	• • •	• • • •	
drain). Attachment P, V will b : Select options from drain e differential pressure detection selecting options for several the top.	xhaust, bowl material, element, n, regulator, and regulator. When items, list options in order from	Assembled	D S P V	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W)	•	• • • •	 • •<	• • • •	 • •<	
drain). Attachment P, V will b : Select options from drain e differential pressure detection selecting options for several the top.	xhaust, bowl material, element, n, regulator, and regulator. When		D S P	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W)	•	• • • • • •	 • •<	• • • • • •	 • •<	
drain). Attachment P, V will b Select options from drain e differential pressure detection selecting options for several the top. Refer to page 12 for worki drain.	xhaust, bowl material, element, n, regulator, and regulator. When items, list options in order from ng conditions of the automatic	Assembled	D S P V	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W)	•					
drain). Attachment P, V will b 3: Select options from drain e differential pressure detection selecting options for several the top. 4: Refer to page 12 for worki drain. 5: Refer to page 87 for max. flo	xhaust, bowl material, element, n, regulator, and regulator. When items, list options in order from ng conditions of the automatic	Assembled	D S P V K	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W)	•				• • • • • • •	
drain). Attachment P, V will b : Select options from drain e differential pressure detection selecting options for several the top. : Refer to page 12 for worki drain. : Refer to page 87 for max. flo	xhaust, bowl material, element, n, regulator, and regulator. When i items, list options in order from ng conditions of the automatic w rate of option "Y".	Assembled Big	D S P V K	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit	•					
drain). Attachment P, V will b Select options from drain e differential pressure detection selecting options for several the top. Refer to page 12 for worki drain. Refer to page 87 for max. flo Pressure gauge display rang "L".	xhaust, bowl material, element, n, regulator, and regulator. When i items, list options in order from ng conditions of the automatic w rate of option "Y".	Assembled Assembled Assembled	D S P V K played u ank	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, NPT, G thread	•					
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drain). Attachment P, V will b : Select options from drain e differential pressure detection selecting options for several the top. : Refer to page 12 for worki drain. : Refer to page 87 for max. flo : Pressure gauge display rang "L". : When option "T6" is selected for the (H) pressure gauge	xhaust, bowl material, element, n, regulator, and regulator. When l items, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure	Asseempted Asseempted J G Pipi Bla	D S P V K played u ank 1 ing adap ank	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, NPT, G thread tor set (included) Not attached	• • • •		 • /ul>	ī —		
drain). Attachment P, V will b : Select options from drain e differential pressure detection selecting options for several the top. : Refer to page 12 for worki drain. : Refer to page 87 for max. flo : Pressure gauge display rang "L". : When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F	xhaust, bowl material, element, n, regulator, and regulator. When i items, list options in order from ng conditions of the automatic w rate of option "Y". Je will be 0 to 0.4 MPa for option I, only "blank" or "R2" is available	Vertication of the second seco	D S V K played u ank 11 ing adap ank *W	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, Rc thread MPa display, NPT, G thread tor set (included) Not attached 1/8 piping adaptor set	• • • • •	•		•	•	
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drain). Attachment P, V will b Select options from drain e differential pressure detection selecting options for several the top. Refer to page 12 for worki drain. Refer to page 87 for max. flo Pressure gauge display rang "L". When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F Output type will be NPN tran if PNP transistor output is reco	xhaust, bowl material, element, n, regulator, and regulator. When l items, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure Rc1/8) is assembled ventilated. nsistor output. Consult with CKD quired.	Vertical and the second	D S P V K played u ank 1 1 mg adap ank * W	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, NPT, G thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set	• • • •	•		•	•	
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drain). Attachment P, V will b Select options from drain e differential pressure detection selecting options for several the top. Refer to page 12 for worki drain. Refer to page 87 for max. flo Pressure gauge display rang "L". When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F Output type will be NPN trar if PNP transistor output is ree Mounting location for assemt Symbol Installation position of Attachment	xhaust, bowl material, element, n, regulator, and regulator. When l items, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure Rc1/8) is assembled ventilated. hsistor output. Consult with CKD quired. bly attachments Applicable model	Pipi Bla Bla A6 A8 A10 A11 A11	D S P V K played u ank 1 1 mg adap ank * W	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, NPT, G thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set	• • • •	•		•	•	
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drain). Attachment P, V will b : Select options from drain e differential pressure detection selecting options for several the top. : Refer to page 12 for worki drain. : Refer to page 87 for max. flo : Pressure gauge display rang "L". : When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F : Output type will be NPN trar if PNP transistor output is rec : Mounting location for assemt Symbol Installation position of Attachment D F+ (D) +R S or F+R+ (S, P) P	xhaust, bowl material, element, n, regulator, and regulator. When l items, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure Rc1/8) is assembled ventilated. hsistor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W C1020-W to C8020-W	C Pipi Bla Bla Bla Bla Bla A66 A88 A10 A11 A20 A21 A22 A32 * Adap	D S P V K played u ank 1 1 ing adap ank * W 5*W 5*W 5*W 5*W 2*W	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, NPT, G thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 1/2 piping adaptor set 1 piping adaptor set 1 piping adaptor set	• • • •	•		•	•	
drain). Attachment P, V will b : Select options from drain e differential pressure detection selecting options for several the top. : Refer to page 12 for worki drain. : Refer to page 87 for max. flo : Pressure gauge display rang "L". : When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F : Output type will be NPN trar if PNP transistor output is rec : Mounting location for assemt Symbol Installation position of Attachment D F+ (D) +R S or F+R+ (S, P)	xhaust, bowl material, element, n, regulator, and regulator. When l items, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure Rc1/8) is assembled ventilated. histor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W ("P" excludes 1000, 6000,	C Pipi Bla J C Pipi Bla A66 A88 A10 A11 A20 A21 A21 A22 A32 * Adap Bla	D S P V K played u ank 1 1 ing adap ank *W 5*W 5*W 5*W 5*W 5*W 2*W 2*W 2*W	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, Rc thread MPa display, Rc thread tor set (included) Not attached 1/8 piping adaptor set 3/8 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set ad type Rc thread	• • • •	•		•	•	
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drain). Attachment P, V will b Select options from drain e differential pressure detection selecting options for several the top. Refer to page 12 for worki drain. Refer to page 87 for max. flo Pressure gauge display rang "L". When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F Output type will be NPN trar if PNP transistor output is ree Mounting location for assemt Symbol Installation position of Attachment D F+ (D) +R S or F+R+ (S, P) P	xhaust, bowl material, element, n, regulator, and regulator. When i items, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure RC1/8) is assembled ventilated. hsistor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W ("P" excludes 1000, 6000, 8000 Series) C1020-W to C8020-W	C Pipi Bla Bla A6 A8 A10 A11 A20 A21 A31 * Adap Bla	D S P V K played u ank 1 ng adap ank * W 5*W 5*W 5*W 5*W 5*W 2*W tor threa ank N 3	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, NPT, G thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set 1 1/4 piping adaptor set 2 hipping adaptor set 3 hipping set 3 hip	• • • •					
drain). Attachment P, V will b Select options from drain e differential pressure detection selecting options for several the top. : Refer to page 12 for worki drain. : Refer to page 87 for max. flo : Pressure gauge display rang "L". : When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F : Output type will be NPN trar if PNP transistor output is red : Mounting location for assemt Smooth or F+R+ (S, P) P V or F+R+ (V, K) K	xhaust, bowl material, element, n, regulator, and regulator. When i items, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure R01/8) is assembled ventilated. hsistor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W C1020-W to C8020-W ("P" excludes 1000, 6000, 8000 Series) C1020-W to C8020-W ("V" excludes 6000, 8000 Series. "K" excludes 1000 Series)	C Pipi Bla Bla A6 A8 A10 A11 A20 A21 A31 * Adap Bla	D S P V K played u ank 1 ng adap ank * W 5*W 5*W 5*W 5*W 5*W 2*W tor threa ank N 3	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, Rc thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set NPT thread					•	
drain). Attachment P, V will b Select options from drain e differential pressure detection selecting options for several the top. : Refer to page 12 for worki drain. : Refer to page 87 for max. flo : Pressure gauge display rang "L". : When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F : Output type will be NPN trar if PNP transistor output is red : Mounting location for assemt Smoothing location for assemt Smoothing location of Attachment D F+ (D) +R S or F+R+ (S, P) P V or V or indicate "U" + "D", "S", "P",	xhaust, bowl material, element, n, regulator, and regulator. When i items, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure Rc1/8) is assembled ventilated. nsistor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W C1020-W to C8020-W ("P" excludes 1000, 6000, 8000 Series) C1020-W to C8020-W ("V" excludes 6000, 8000 Series.	Point Second State Second S	D S P V K played u ank 1 ng adap ank * W 5*W 5*W 5*W 5*W 5*W 2*W tor threa ank N 3	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, NPT, G thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set 1 1/4 piping adaptor set 2 hipping adaptor set 3 hipping set 3 hip						
drain). Attachment P, V will b Select options from drain e differential pressure detection selecting options for several the top. Refer to page 12 for worki drain. Refer to page 87 for max. flo Pressure gauge display rang "L". When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F Output type will be NPN transistor output is recommon for assent Symbol Installation position of Attachment D F+ (D) +R S or or F+R+ (S, P) P V V or F+R+ (V, K) K E: Indicate "U" + "D", "S", "P", assembly attachment.	xhaust, bowl material, element, n, regulator, and regulator. When i items, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure Rc1/8) is assembled ventilated. nsistor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W ("P" excludes 1000, 6000, 8000 Series) C1020-W to C8020-W ("V" excludes 6000, 8000 Series. "K" excludes 1000 Series) "V", and "K" when selecting an	Point Second State Second S	D S P V K played u ank 1 1 mg adap ank *W *W 5 *W 5 *W 5 *W 5 *W 5 *W 5 *W 5	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, Rc thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 high piping adaptor set 3/4 piping adaptor set 1 high piping adaptor set 3/4 piping adaptor set 1 high piping adaptor set 3/4 piping set 3/4						
drain). Attachment P, V will b : Select options from drain e differential pressure detection selecting options for several the top. : Refer to page 12 for worki drain. : Refer to page 87 for max. flo : Pressure gauge display rang "L". : When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F : Output type will be NPN trar if PNP transistor output is rec : Mounting location for assent Symbol Installation position of Attachment D F+ (D) +R S or F+R+ (S, P) P V or F+R+ (V, K) K : Indicate "U" + "D", "S", "P", assembly attachment.	xhaust, bowl material, element, n, regulator, and regulator. When i items, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure R01/8) is assembled ventilated. hsistor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W C1020-W to C8020-W ("P" excludes 1000, 6000, 8000 Series) C1020-W to C8020-W ("V" excludes 6000, 8000 Series. "K" excludes 1000 Series)	F Disperson F Dis	D S P V K played u ank 1 1 mg adap ank *W *W 5*W 0*W 5*W 0*W 5*W 0*W 5*W 0*W 5*W 2*W 4tor threa ank 3 3 ssure ga	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, Rc thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 3/4 piping adaptor set 1 1/2 piping adaptor set 1 1/2 piping adaptor set 1 1/4 piping adaptor set 1 1/4 piping adaptor set 1 1/4 piping adaptor set 1 1/4 piping adaptor set 3/4 piping adaptor set 1 1/4 piping adaptor set 3/4 piping adaptor set 3/4 piping adaptor set 3/4 piping adaptor set 1 1/4 piping adaptor set 3/4 piping adaptor set 1 1/4 piping adaptor set 3/4 piping adaptor set 3/4 piping adaptor set 1 1/4 piping adaptor set 3/4 piping adaptor set 3/4 piping adaptor set 1 1/4 piping adaptor set 3/4 piping adaptor set 3/4 piping adaptor set 1 1/4 piping adaptor set 3/4 piping						
drain). Attachment P, V will b Select options from drain e differential pressure detection selecting options for several the top. : Refer to page 12 for worki drain. : Refer to page 87 for max. flo : Pressure gauge display rang "L". : When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F : Output type will be NPN trar if PNP transistor output is rec : Mounting location for assemt Symbol Installation position of Attachment D F+(D) +R S or F+R+ (S, P) P V or F+R+ (V, K) K : Indicate "U" + "D", "S", "P", assembly attachment. Use custom combinations combinations.	xhaust, bowl material, element, n, regulator, and regulator. When i items, list options in order from ing conditions of the automatic wrate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure Rc1/8) is assembled ventilated. nsistor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W ("P" excludes 1000, 6000, 8000 Series) C1020-W to C8020-W ("Y" excludes 1000 Series. "K" excludes 1000 Series. "V", and "K" when selecting an as specifications for any other	Point	D S P V K played u ank 1 1 ing adap ank *W *W 5*W 0*W 5*W 0*W 5*W 0*W 5*W 2*W 5*W 2*W 5*W 2*W 55*W 2*W 55*W 2*W 55*W 2*W	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, Rc thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 3/4 piping adaptor set 1 /2 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 hiping adaptor set 1 thread NPT thread G thread uge option (attached) Not attached G45D-8-P10 (L: G45D-8-P04)						
drain). Attachment P, V will b 3: Select options from drain e: differential pressure detection selecting options for several the top. 4: Refer to page 12 for worki drain. 5: Refer to page 87 for max. flo 6: Pressure gauge display rang "L". 7: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F 3: Output type will be NPN trar if PNP transistor output is rec 6: Mounting location for assemt Symbol Installation position of Attachment D F+(D)+R S or F+R+(S, P) P V or F+R+(V, K) assembly attachment. Use custom combinations combination. 10: A joiner set is attached with	xhaust, bowl material, element, n, regulator, and regulator. When litems, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure RC1/8) is assembled ventilated. misistor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W ("P" excludes 1000, 6000, 8000 Series) C1020-W to C8020-W ("V" excludes 6000, 8000 Series. "K" excludes 6000, 8000 Series. "K" excludes 1000 Series) "V", and "K" when selecting an a specifications for any other the piping adapter set.	C Pres	D S P V K played u ank 1 1 ng adap ank * W * W 5 * W * W * W * W S * W S * W S * W S * * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * * W S * W S * W S * W S * W S S W S S W S S W S S S S S S	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, Rc thread MPa display, Rc thread MPa display, RC thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set 3/4 piping adaptor set 1 ti/4 piping adaptor set 1 ti/4 piping adaptor set 3/4 piping adaptor set 1 ti/4 piping adaptor set 1 ti/4 piping adaptor set 3/4 piping adaptor set 1 ti/4 piping adaptor set 3/4 piping adaptor set 1 ti/4 piping adaptor set 3/4 piping adaptor set 3/4 piping adaptor set 1 ti/4 piping adaptor set 3/4 piping adaptor set 3/4 piping adaptor set 3/4 piping adaptor set 3/4 piping adaptor set 1 ti/4 piping adaptor set 3/4 piping set 3/						
drain). Attachment P, V will b : Select options from drain e differential pressure detection selecting options for several the top. : Refer to page 12 for worki drain. : Refer to page 87 for max. flo : Pressure gauge display rang "L". : When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F : Output type will be NPN trar if PNP transistor output is rec : Mounting location for assemt Symbol Installation position of Attachment D F+(D) +R S or F+R+(S, P) P V or F+R+(V, K) K : Indicate "U" + "D", "S", "P", assembly attachment. Use custom combinations combination. 0: A joiner set is attached with 1: If NPT is selected for the	xhaust, bowl material, element, n, regulator, and regulator. When litems, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure RC1/8) is assembled ventilated. misistor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W ("P" excludes 1000, 6000, 8000 Series) C1020-W to C8020-W ("Y" excludes 6000, 8000 Series. "K" excludes 6000, 8000 Series. "K" excludes 1000 Series) "V", and "K" when selecting an a specifications for any other the piping adapter set. "C" piping thread type, a NPT	Point Stress Stres	D S P V K blayed u ank 1 ng adap ank * W * W 5 W 5 W 5 W 5 W 2 W 0 W 5 W 2 2 W 0 W 5 S W 3 S S U Three Bank 5 S W 3 S S S S S S S S S S S S S S S S S	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, Rc thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 1/2 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set 3 friend NPT thread G thread Uge option (attached) Not attached G45D-8-P10 (L: G45D-8-P04) G49D-8-P10 (L: G40D-8-P04)						
drain). Attachment P, V will b Select options from drain e differential pressure detection selecting options for several the top. Refer to page 12 for worki drain. Refer to page 87 for max. flo Pressure gauge display rang "L". When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F Output type will be NPN transistor output is rec Mounting location for assemt Symbol Installation position of Attachment D F+(D) +R S or F+R+ (S, P) P V or F+R+ (V, K) K Use custom combinations combination. 0: A joiner set is attached with 1: If NPT is selected for the pressure gauge is enclosed	xhaust, bowl material, element, n, regulator, and regulator. When litems, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure RC1/8) is assembled ventilated. hsistor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W ("P" excludes 1000, 6000, 8000 Series) C1020-W to C8020-W ("Y" excludes 6000, 8000 Series. "K" excludes 1000 Series. "C", and "K" when selecting an as specifications for any other the piping adapter set. "C" piping thread type, a NPT d. If Rc or G thread is selected,	Vertication of the second state of the second	D S P V K blayed u ank 1 ng adap ank * W * W 5 * S * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W 5 * W S * * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * W S * S *	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, Rc thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 1/2 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 1 1/4 piping adaptor set Cat tread NPT thread G thread Uge option (attached) Not attached G45D-8-P10 (L: G45D-8-P04) G59D-8-P10 (L: G40D-8-P04) G50D-8-P10 (L: G50D-8-P04)						
drain). Attachment P, V will b 3: Select options from drain e: differential pressure detection selecting options for several the top. 4: Refer to page 12 for worki drain. 5: Refer to page 87 for max. flo 6: Pressure gauge display rang "L". 7: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (F 8: Output type will be NPN trar if PNP transistor output is rec 9: Mounting location for assemt Symbol Installation position of Attachment D F+ (D) +R S or F+R+ (S, P) P V or F+R+ (V, K) K 2: Indicate "U" + "D", "S", "P", assembly attachment. Use custom combinations combination. 0: A joiner set is attached with 1: If NPT is selected for the	xhaust, bowl material, element, n, regulator, and regulator. When l items, list options in order from ng conditions of the automatic w rate of option "Y". ge will be 0 to 0.4 MPa for option l, only "blank" or "R2" is available (enclosed). The digital pressure RC1/8) is assembled ventilated. hsistor output. Consult with CKD quired. bly attachments Applicable model C1020-W to C8020-W ("P" excludes 1000, 6000, 8000 Series) C1020-W to C8020-W ("Y" excludes 6000, 8000 Series. "K" excludes 1000 Series. "C", and "K" when selecting an as specifications for any other the piping adapter set. "C" piping thread type, a NPT d. If Rc or G thread is selected,	Vertication of the second state of the second	D S P V K blayed u ank 1 ng adap ank * W * W 5 W 5 W 5 W 5 W 2 W 0 W 5 W 2 2 W 0 W 5 S W 3 S S U Three Bank 5 S W 3 S S S S S S S S S S S S S S S S S	Distributor (D101-W, D401-W, D801-W) Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, Rc thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 1/2 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set 3 friend NPT thread G thread Uge option (attached) Not attached G45D-8-P10 (L: G45D-8-P04) G49D-8-P10 (L: G40D-8-P04)						

CKD

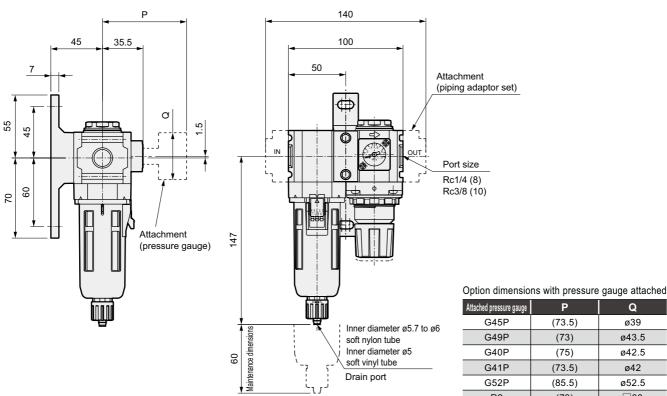
Dimensions CAD

• C1020-W



Option dimensions	with pressure g	jauge allacheu
Attached pressure gauge	0	Р
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



	ns with pressure	gauge allacheu
Attached pressure gauge	Р	Q
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G40P	(75)	ø42.5
G41P	(73.5)	ø42
G52P	(85.5)	ø52.5
R2	(73)	□30

G52P

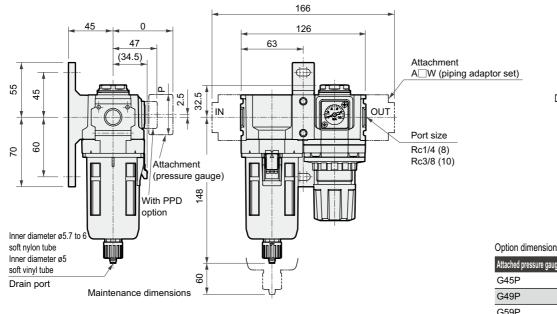
R2

(85.5)

(73)

Dimensions CAD • C2520-W 0 153 50 113 35.5 45 Attachment 7 63 A W (piping adaptor set) Drawing of bracket section ₫ 55 45 31.5 1 Ø b IN OUT ۵ 88.5 8 20 Port size 148 Rc1/4 (8) Rc3/8 (10) Option dimensions with pressure gauge attached Attachment (pressure gauge) Attached pressure gauge 0 Ρ Inner diameter ø5.7 to 6 With PPD W G45P option soft nylon tube (73.5) ø39 Inner diameter ø5 G49P (73) ø43.5 60 maintenance dimensions soft vinyl tube G59P (75.5) ø52 ,Drain port G40P ø42.5 (75) G50P (75) ø52.5 G41P (73.5) ø42

• C3020-W



Refer to page 92 for dimensions of the metal bowl option.

ø52.5

30

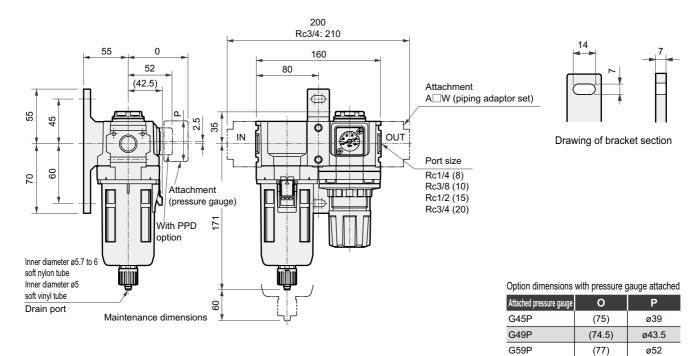
Drawing of bracket section

Option dimensions with pressure gauge attached

Attached pressure gauge	0	Р
G45P	(70)	ø39
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G50P	(71.5)	ø52.5
G41P	(70)	ø42
G52P	(82)	ø52.5
R2	(69.5)	□30
	CKE)

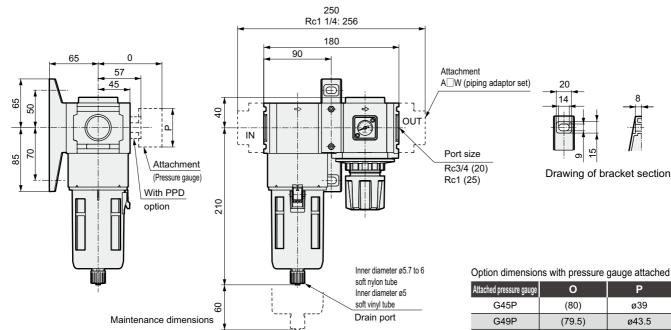
Dimensions

• C4020-W



Refer to page 92 for dimensions of the metal bowl option.

• C6020-W



0.101	(00)	200
G49P	(79.5)	ø43.5
G59P	(82)	ø52
G40P	(81.5)	ø42.5
G50P	(81.5)	ø52.5
G41P	(80)	ø42
G52P	(93)	ø52.5
R2	(80)	□30

G40P

G50P

G41P

G52P

R2

(76.5)

(76.5)

(75)

(86)

(75)

ø42.5

ø52.5

ø42

ø52.5

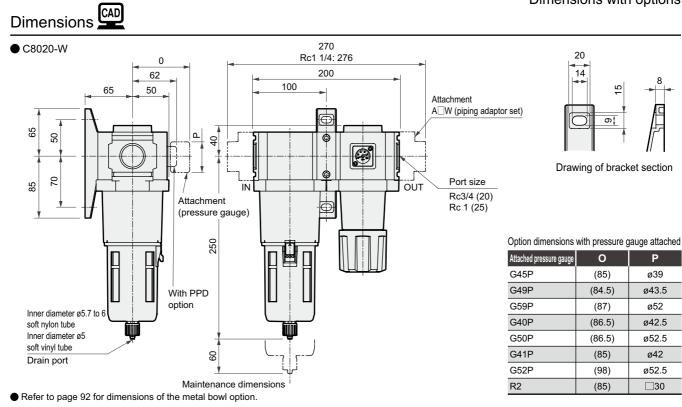
30

Ρ

ø39

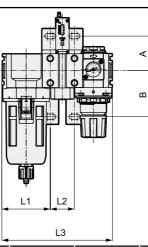
CKD 39

Dimensions with options



Dimensions with options

● C1020-W~C8020-W



Model no.	Α	В
C1020-W	35	45
C2020-W		
C2520-W	45	60
C3020-W	40	60
C4020-W		
C6020-W	50	70
C8020-W	50	70

Ρ

Assembled options		D		S (Note	e 1)		Ρ			V			Κ		DS	(Not	e 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
C1020-W	40	28	108	40	40	129.5	-	-	-	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	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	94.5	209	63	94.5	237.5	63	94.5	220.5	63	94.5	220.5
C4020-W	80	31.5	191.5	80	80	211.5	80	80	240	80	80	223	80	80	223	80	111.5	243	80	111.5	271.5	80	111.5	254.5	80	111.5	254.5
C4020-20-W Note 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	-	-	Ι	-	-	-	90	90	270	90	140	315	-	-	-	-	-	-	90	140	320
C8020-W	100	50	250	100	100	285	-	-	-	-	-	-	100	100	290	100	150	335	-	-	-	-	-	-	100	150	340
Assembled options		DSV	'		DSK			DPV	'		DPK			sv			SK			P۷			PΚ				
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			
0 1 0 0 0 1 1 1																											
C1020-W	40	96	176	-	-	-	-	-	-	-	-	-	40	68	148	-	-	-	-	-	-	-	-	-			
C1020-W C2020-W	40 50	96 113	176 226	- 50	_ 113	226	50	_ 162	- 274.5	- 50	- 162	– 274.5		68 81.5		- 50	- 81.5	– 194.5	- 50	- 130	- 243	- 50	- 130	- 243			
	-				- 113 113		- 50 63		- 274.5 287.5			- 274.5 287.5	50	81.5			- 81.5 81.5		- 50 63	- 130 130	- 243 256	- 50 63			[
C2020-W	50	113	226	50		239		162		63	162		50 63	81.5 81.5	194.5	63		207.5					130				
C2020-W C2520-W	50 63	113 113	226 239	50 63	113	239 252	63 63	162 175	287.5	63 63	162 175	287.5	50 63 63	81.5 81.5 94.5	194.5 207.5	63 63	81.5 94.5	207.5	63	130	256	63	130 143	256 269			
C2020-W C2520-W C3020-W	50 63 63	113 113 126	226 239 252 286	50 63 63	113 126 143	239 252 286	63 63 80	162 175 191.5	287.5 300.5	63 63 80	162 175 191.5	287.5 300.5	50 63 63 80	81.5 81.5 94.5 111.5	194.5 207.5 220.5 254.5	63 63 80	81.5 94.5 111.5	207.5 220.5 254.5	63 63 80	130 143 160	256 269	63 63	130 143 160	256 269			
C2020-W C2520-W C3020-W C4020-W	50 63 63 80	113 113 126 143	226 239 252 286	50 63 63 80	113 126 143 143	239 252 286	63 63 80	162 175 191.5	287.5 300.5 334.5	63 63 80	162 175 191.5	287.5 300.5 334.5	50 63 63 80	81.5 81.5 94.5 111.5	194.5 207.5 220.5 254.5	63 63 80	81.5 94.5 111.5	207.5 220.5 254.5	63 63 80	130 143 160	256 269 303	63 63 80	130 143 160	256 269 303			

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

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

*Refer to the general catalog for the detailed dimentions of the mounting hole of the bracket. Note 1 The piping adapter is assembled on the OUT side.

Piping adaptor A400-20-W is assembled on both ends of C4020-20-W.





F.M.R. combination standard white series C1030/C2030/C2530-W C3030/C4030/C6030/C8030-W Series

Integrated filter, oil mist filter, and regulator

Port size: 1/8 to 1





Specifications

opecifications							
Descriptions	C1030-W	C2030-W	C2530-W	C3030-W	C4030-W	C6030-W	C8030-W
Exterior							
Filter	F1000-W	F2000-W	F3000-W	F3000-W	F4000-W	F6000-W	F8000-W
Components Oil mist filter	M1000-W	M2000-W	M3000-W	M3000-W	M4000-W	M6000-W	M8000-W
Regulator	R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
Working fluid				Compressed air			
Max. working pressure MPa				1			
Withstanding pressure MPa				1.5			
Ambient temperature range °C				5 to 60			Note 6
Set pressure range MPa	0.05 to 0.85 Note 5			0.05 t	o 0.85		
Relief			Wi	th relief mechani	sm		
Port size Rc, NPT, G	1/8, 1/4 (3/8 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (11/4 uses an adaptor)	3/4, 1 (11/4 uses an adaptor)
Product weight kg		0.98	1.02	1.10	1.86	3.19	4.45
Secondary oil concentration (Oil mist filter outlet side)			(0.01mg/m ³ or less	S		
Maximum flow rate (Note 1) m ³ /min	0.15	0.25	0.36	0.36	0.825	1.27	2.6
Noto 1: The maximum flow is	for a primary pros	sure of 0.7 MPa W/	on alamant antion	"V" is selected ref	or to page 87 for m	avimum flow	

Note 1: The maximum flow is for a primary pressure of 0.7 MPa. When element option "Y" is selected, refer to page 87 for maximum flow.

Note 2: Refer to page 95 for details on other oil mist filters.

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

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

Note 5: When "F1" with an automatic drain is selected for the C1030-W series, the NC automatic drain is assembled for both the filter and oil mist filter. Minimum operation pressure is 0.2 MPa and maximum operation pressure is 0.7 MPa. Refer to the maximum processing flow table (page 97) for the M1030-W-F1 automatic drain for the maximum working flow.

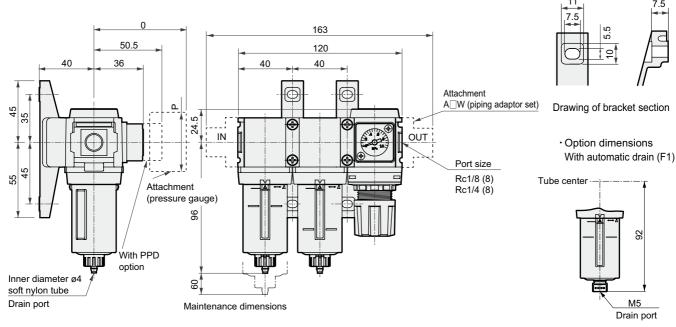
Note 6: The working temperature range of the pressure switch with indicator PPD assembly "R1" is 5 to 50°C.

How to order

1030)-(6) ()- W -	·(L)-(U D	SV)-()-(A6'	W)-()	Refer page 9 for an explanation	C 1 3 0	C 2 0 3 0	C2530	C 3	C 4 0	C 6 0
\top \uparrow \uparrow \uparrow	\downarrow \neg				of the options.	ļ	0	5	0	03	0 3
				_ DPressu	re gauge option (attached)	0	0	0	3 0	0	0
		Set (iii		nbol	Descriptions						
Model no.			B Por		Descriptions						
BPort size				6	1/8						
				В	1/4	•	•	•	•	\bullet	
			1	0	3/8		•	•	•	\bullet	
			1	5	1/2					\bullet	
			2	0	3/4					● lite1	•
			2	5	1						•
			C Por	t thread	type					N	lot
Port three	ead type			ank	Rc thread		•		•	\bullet	•
			1	N	NPT thread		\bullet	•	\bullet	\bullet	•
				3	G thread		\bullet	\bullet	\bullet	\bullet	•
			D Opt	ion						N	lot
	Option			Blank	With manual drain cock	•	•	•	•	\bullet	•
				F	Automatic drain with manual override (NO type: exhausts without pressurization	1)		•	\bullet	\bullet	٠
			Drainage	F1	Automatic drain with manual override (NC type: no exhaust without pressurization	-	•		•	•	•
			Note 4, Note 5	FF	Large exhaust automatic drain with manual override (NO type: exhausts without pressurization						
				FF1	Large exhaust automatic drain with manual override (NO type: no exhaust without pressurizatio		-	-	-		<u> </u>
			Based	Blank	Polycarbonate bowl		-				-
			Bowl	Z M	Nylon bowl Metal bowl	•					-
			material	M1	Metal bowl with manual drain cock		•				-
e a:	ssembly atta	chment		Blank	5µm	•					-
			Element	Y	0.3µm (submicron) Note 6	_			-		-
			Differential	Blank	Without differential pressure detection por	_	•	•	•	•	•
		Displayed unit	pressure detection	Q	With differential pressure detection port (Rc1/4	-					•
Coutions for mode		action	Pressure	Blank	0.05 to 0.85MPa		•		•	•	•
Cautions for mode	i no. sei	ection	Range	L	0.05 to 0.35MPa Note 7		•	•	•	\bullet	•
1: Piping adaptor A400-20*-W	is assembled	on both ends of	Relief	Blank	With relief mechanism		•	•	\bullet	\bullet	•
C4030-20*-W. Piping adapto			Relief	N	Non-relief type	•	•		•	\bullet	•
be specified.				Blank	Standard pressure gauge (G401-W)	•	•	\bullet	\bullet	\bullet	•
e 2: G threads and NPT threads a	are available fo	or IN, OUT, gauge	Pressure	Т	Without pressure gauge (gauge port (Rc1/4) assembled sealed	-	\bullet	•	\bullet	\bullet	•
port and drain discharge p			gauge	Т8	Pressure gauge attachable (gauge atchment port (Rc1/4) assembled open		•		\bullet	•	•
drain). Attachment P, V will be	-		0.0	T6	Compatibility with digital pressure sensor PPX Note 8	_	•		•	•	•
e 3: Select options from drain ex				R1	Pressure switch with display PPD assembled Note 9	-			•	•	•
differential pressure detectior selecting options for several	-	-	Flow Direction	Blank X1	Standard flow (left to right) Reverse flow (right to left)		•		-		-
the top.	norio, nor opti					-					Ě
e 4: Refer to page 12 for worki	ng conditions	of the automatic			¥	les 1	37	to 1	48,	153	3, 1
drain.				ank J	Without assembly attachment Assembly attachment type Note 10		-				-
e 5: When option symbol "F" is s			<u> </u>	D	Distributor (D101-W, D401-W, D801-W		-	-	-		-
is enclosed for the air filter	and the NC a	utomatic drain for	ed	s	Pressure switch (P1100-W, 4100-W, 8100-W	-	•	•	•	•	
the oil mist filter.	drain trunc all	mist filter but the	a de	P	Pressure switch (P4000-W)		•	•	•	•	_
		mist litter but the	Assembled	v	Shut-off valve (V1000-W, V3000-W)		•	•	•	\bullet	_
"FF" and "FF1" has a large		ו "Y"	◄	к	Shut-off valve with key hole (V3010-W, V6010-W)	•	•	•	•	•
automatic drain is same as th											_
automatic drain is same as the 6: Refer to page 87 for max. flow	w rate of option	.4 MPa for option	() Dist	olaved u	nit	,			•		•
automatic drain is same as th	w rate of option	0.4 MPa for option		olayed u ank	nit MPa display, Rc thread		•		1 .		•
automatic drain is same as th e 6: Refer to page 87 for max. flow e 7: Pressure gauge display rang "L". e 8: When option "T6" is selected	w rate of optior ge will be 0 to 0 d, only "blank" c	or "R2" is selected	Bla	-	T	•	•	•			ote
automatic drain is same as th e 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". e 8: When option "T6" is selected for the (H) pressure gauge	w rate of optior ge will be 0 to 0 d, only "blank" c (enclosed). Th	or "R2" is selected e digital pressure	Bla J	ank 1	MPa display, Rc thread MPa display, NPT, G thread	•	• • 15	• • • <u>to</u>	15	7 No	
automatic drain is same as th e 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". e 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R	w rate of optior ge will be 0 to 0 d, only "blank" c (enclosed). Th Rc1/8) is assem	or "R2" is selected e digital pressure ibled ventilated.	Bla J G Pipi	ank 1	MPa display, Rc thread MPa display, NPT, G thread	•	● ● 155	• • 5 to	15 ⁻	7 No	-
automatic drain is same as th e 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". e 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R e 9: Output type will be NPN tran	w rate of option ge will be 0 to 0 d, only "blank" o (enclosed). Th Rc1/8) is assem- nsistor output. (or "R2" is selected e digital pressure ibled ventilated.	Bla J © Pipi Bla	ank 1 ng adap	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa	e e ges				7 No	
automatic drain is same as the 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9: Output type will be NPN tran- if PNP transistor output is reco	w rate of optior ge will be 0 to 0 d, only "blank" o (enclosed). Th Rc1/8) is assem nsistor output. o quired.	or "R2" is selected e digital pressure ibled ventilated. Consult with CKD	Bla J © Pipi Bla A6	ank 1 ing adap ank	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached	e ges				7 Nc	
automatic drain is same as th e 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". e 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R e 9: Output type will be NPN tran- if PNP transistor output is req e 10: Mounting location for assem	w rate of optior ge will be 0 to 0 d, only "blank" o (enclosed). Th Rc1/8) is assem nsistor output. o quired. nbly attachmen	or "R2" is selected e digital pressure abled ventilated. Consult with CKD ts	Bla J © Pipi Bla A6 A8	ank 1 Ing adap ank *W	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set	lges	•	•		•	
automatic drain is same as th 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9: Output type will be NPN tran- if PNP transistor output is rec 10: Mounting location for assem Symbol Installation position of Attachment	w rate of optior ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem nsistor output. of quired. nbly attachmen Applicable	or "R2" is selected e digital pressure abled ventilated. Consult with CKD ts model	Bla J G Pipi Bla A6 A8 A10	ank 1 ing adap ank *W *W	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Not attached 1/8 piping adaptor set 1/4 piping adaptor set	eges •	•	•		•	
automatic drain is same as th 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9: Output type will be NPN tran- if PNP transistor output is rec 10: Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R	w rate of optior ge will be 0 to 0 d, only "blank" c (enclosed). Th Rc1/8) is assem nsistor output. of quired. nbly attachmen Applicable [C1030-W to C	or "R2" is selected e digital pressure ibled ventilated. Consult with CKD ts model 8030-W	Bla J G Pipi Bla A6 A8 A10 A11 A20	ank 1 ng adap ank *W *W 5*W 5*W 5*W	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set	eges •	•	•	•	•	•
automatic drain is same as th 6: Refer to page 87 for max. flov 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9: Output type will be NPN tran- if PNP transistor output is req 10: Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R S	w rate of optior ge will be 0 to 0 d, only "blank" c (enclosed). Th Rc1/8) is assem- nsistor output. (quired. nbly attachmen Applicable C1030-W to C C1030-W to C	or "R2" is selected e digital pressure ubled ventilated. Consult with CKD ts model 8030-W 8030-W	Bla G Pipi Bla A6 A8 A10 A11 A20 A22	ank 1 ng adap ank *W 5*W 5*W 5*W 5*W	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set	eges •	•	•	•	• • • • • • • • • • • • • • • • • • • •	
automatic drain is same as th 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9: Output type will be NPN tran- if PNP transistor output is rec 10: Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R S or F+M+R+ (S, P)	w rate of optior ge will be 0 to 0 (enclosed). Th Rc1/8) is assem nsistor output. (quired. nbly attachmen Applicable C1030-W to C C1030-W to C ("P" excludes 10	or "R2" is selected e digital pressure ubled ventilated. Consult with CKD ts model 8030-W 8030-W	Bla G Pipi Bla A6 A8 A10 A11 A20 A22 A32	ank 1 ng adap ank *W 5*W 5*W 5*W 5*W 5*W 2*W	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set	eges •	•	•	•	• • • • • • • • • • • • • • • • • • • •	
automatic drain is same as th 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9: Output type will be NPN tran- if PNP transistor output is rec 10: Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R S or F+M+R+ (S, P) P	w rate of optior ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem misitor output. (quired. nbly attachmen Applicable C1030-W to C C1030-W to C ("P" excludes 11 8000 Series)	or "R2" is selected e digital pressure abled ventilated. Consult with CKD ts model 8030-W 8030-W 8000, 6000,	Bla J G Pipi Bla A66 A88 A10 A15 A20 A25 A25 A32 * Adap	ank 1 ing adap ank *W 5*W 5*W 5*W 5*W 2*W tor three	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set ad type	eges •	•	•	•	• • • • • • • • • • • • • • • • • • • •	
automatic drain is same as th 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9: Output type will be NPN tran- if PNP transistor output is rec 10: Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R S or F+M+R+ (S, P) P V	w rate of optior ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem misitor output. (quired. nbly attachmen C1030-W to C ("P" excludes 11 8000 Series) C1030-W to C	r "R2" is selected e digital pressure abled ventilated. Consult with CKD ts model 8030-W 8030-W 8000, 6000, 4030-W	Bla G Pipi Bla A66 A88 A10 A11 A20 A22 A32 * Adap Bla	ank 1 ng adap ank *W 5*W 5*W 5*W 2*W 2*W 2*W tor threa	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set ad type Rc thread		•	•	•	• • • • • • • • • • • • • • • • • • • •	
automatic drain is same as th 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9: Output type will be NPN tran- if PNP transistor output is rec 10: Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R S or F+M+R+ (S, P) P	w rate of optior ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem misitor output. (quired. nbly attachmen Applicable C1030-W to C C1030-W to C ("P" excludes 11 8000 Series)	r "R2" is selected e digital pressure ibled ventilated. Consult with CKD ts model 8030-W 8030-W 8000, 6000, 4030-W 8000 Series.	Bla G Pipi Bla A66 A88 A10 A20 A22 A32 * Adap Bla	ank 1 ng adap ank *W 5*W 5*W 5*W 5*W 5*W 2*W 2*W 2*W ank N	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set ad type Rc thread NPT thread		•	•	•	• • • • • • • • • • • • • • • • • • • •	
automatic drain is same as th 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9: Output type will be NPN tran- if PNP transistor output is rec 10: Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R S or F+M+R+ (S, P) P V or F+M+R+ (V, K) K	w rate of optior ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem misitor output. (quired. nbly attachmen C1030-W to C ("P" excludes 11 8000 Series) C1030-W to C ("V" excludes 6000, "K" excludes 1000 S	or "R2" is selected e digital pressure abled ventilated. Consult with CKD ts model 8030-W 8030-W 8000, 6000, 4030-W 8000 Series. Series)	Bla G Pipi Bla A66 A88 A10 A11 A20 A22 A32 * Adap Bla N C	ank 1 ng adap ank *W 5 W 5 W 5 W 5 W 2 W tor threa ank N 3	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set ad type Rc thread NPT thread G thread						•
automatic drain is same as th 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9: Output type will be NPN tran- if PNP transistor output is rec 10: Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R S or F+M+R+ (S, P) P V or F+M+R+ (V, K) K ote: Indicate "U" + "D", "S", "P",	w rate of optior ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem misitor output. (quired. nbly attachmen C1030-W to C ("P" excludes 11 8000 Series) C1030-W to C ("V" excludes 6000, "K" excludes 1000 S	or "R2" is selected e digital pressure abled ventilated. Consult with CKD ts model 8030-W 8030-W 8000, 6000, 4030-W 8000 Series. Series)	Bla G Pipi Bla A66 A88 A10 A20 A20 A20 A20 A20 A20 A20 A20 A20 A2	ank 1 ng adap ank *W 5 W 5 W 5 W 5 W 2 W tor threa ank N 3 Ssure ga	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set ad type Rc thread NPT thread G thread uge option (attached)					• • • • • • • • • • • • • • • • • • • •	•
automatic drain is same as the 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge display rang of the Generative sensor PPX mounting port (R 9: Output type will be NPN transit fPNP transistor output is received to the form of the field of	w rate of option ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem nsistor output. of quired. nbly attachmen C1030-W to C C1030-W to C ("P" excludes 11 8000 Series) C1030-W to C ("V" excludes 6000, "K" excludes 6000, "K" excludes 1000 S , "V", and "K" w	or "R2" is selected e digital pressure bled ventilated. Consult with CKD ts model 8030-W 8000, 6000, 4030-W 8000 Series. Series) when selecting an	Bla G Pipi Bla A66 A88 A10 A11 A20 A22 A32 * Adap Bla N C C	ank 1 ng adap ank *W 5*W 5*W 5*W 2*W 2*W 2*W 2*W 2*W 1tor threa ank 3 ssure ga ank	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set ad type Rc thread NPT thread G thread uge option (attached) Not attached		 • /ul>				•
automatic drain is same as the 6: Refer to page 87 for max. flow 9: Pressure gauge display rang "L". 9: When option "T6" is selected for the (H) pressure gauge 9: Output type will be NPN tran- if PNP transistor output is req 9: Output type will be NPN tran- if PNP transistor output is req 9: Output type will be NPN tran- if PNP transistor output is req 9: Output type will be NPN tran- 10: Mounting location for assert Symbol Installation position of Attachment D F+M+ (D) +R S or F+M+R+ (S, P) P V or F+M+R+ (V, K) K Note: Indicate "U" + "D", "S", "P", assembly attachment.	w rate of option ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem nsistor output. of quired. nbly attachmen C1030-W to C C1030-W to C ("P" excludes 11 8000 Series) C1030-W to C ("V" excludes 6000, "K" excludes 6000, "K" excludes 1000 S , "V", and "K" w	or "R2" is selected e digital pressure bled ventilated. Consult with CKD ts model 8030-W 8000, 6000, 4030-W 8000 Series. Series) when selecting an	Bla G Pipi Bla A6 A8 A10 A11 A20 A22 A32 * Adap Bla N C C Pres Bla G4	ank 1 ng adap ank *W *W 5*W 5*W 5*W 5*W 2*W tor three ank 3 ssure ga ank 55P	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set 1 the piping adaptor set 3 the piping adaptor set 4 the piping adaptor set		 • /ul>	 • /ul>			•
automatic drain is same as the 6 C Refer to page 87 for max. flow 7 Pressure gauge display rang "L". 8 When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9 Output type will be NPN tran- if PNP transistor output is required 10: Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R S or F+M+R+ (S, P) P V or F+M+R+ (V, K) K lote: Indicate "U" + "D", "S", "P", assembly attachment. Use custom combination: combination.	w rate of optior ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem isistor output. (quired. mbly attachmen Applicable C1030-W to C C1030-W to C ("P" excludes 10 8000 Series) C1030-W to C ("V" excludes 6000, "K" excludes 1000 S , "V", and "K" w s specificatio the piping adap	or "R2" is selected e digital pressure ibled ventilated. Consult with CKD ts model 8030-W 8030-W 8000 Series. Series) when selecting an ns for any other pter set.	Bla J G Pipi Bla A6 A8 A11 A20 A22 A32 * Adap Bla N C G Pres Bla G4 G4	ank 1 ng adap ank *W *W *W 5*W 5*W 5*W 2*W tor threa ank 5 55 55 55 55 55 55 55 55 55	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1/2 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set 2 d type Rc thread NPT thread G thread Uge option (attached) Not attached G45D-8-P10 (L: G45D-8-P04) G49D-8-P10 (L: G49D-8-P04)		 • /ul>				•
automatic drain is same as the 6 C Refer to page 87 for max. flow 7 Pressure gauge display rang "L". 8 When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9 Output type will be NPN tran- if PNP transistor output is req 9 Output type will be NPN tran- if PNP transistor output is req 9 Output type will be NPN tran- if PNP transistor output is req 9 Output type will be NPN tran- 10 Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R S or F+M+R+ (S, P) P V or F+M+R+ (V, K) K Note: Indicate "U" + "D", "S", "P", assembly attachment. Use custom combination: combination. 9 11: A joiner set is attached with 9 12: If NPT is selected for the	w rate of optior ge will be 0 to 0 (enclosed). Th Rc1/8) is assem msistor output. (quired. mbly attachmen Applicable C1030-W to C ("P" excludes 10 8000 Series) C1030-W to C ("V" excludes 6000, "K" excludes 6000, "K" excludes 1000 § , "V", and "K" w s specificatio the piping adap "C" piping thr	or "R2" is selected e digital pressure ibled ventilated. Consult with CKD ts model 8030-W 8030-W 8000 Series. Series) when selecting an ns for any other pter set. ead type, a NPT	Bla J © Pipi Bla A6 A8 A11 A22 A32 * Adap Bla N C (*) Pres Bla G4 G4 G4	ank 1 ng adap ank *W *W *W 5*W 5*W 5*W 2*W tor threa ank N 3 55P 19P 19P	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 1/2 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set Comparison Rc thread NPT thread G thread Uge option (attached) Not attached G45D-8-P10 (L: G45D-8-P04) G59D-8-P10 (L: G59D-8-P04)		 • /ul>	 • /ul>			•
automatic drain is same as the automatic drain is same as the a 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". a 8: When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9: Output type will be NPN tran- if PNP transistor output is rec 0: Output type will be NPN tran- if PNP transistor output is rec 10: Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R S or F+M+R+ (S, P) P V or F+M+R+ (V, K) K Note: Indicate "U" + "D", "S", "P", assembly attachment. Use custom combinations combination. a 11: A joiner set is attached with a 12: If NPT is selected for the pressure gauge is enclosed	w rate of optior ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem misitor output. (quired. mbly attachmen Applicable C1030-W to C ("P" excludes 10 8000 Series) C1030-W to C ("V" excludes 6000, "K" excludes 6000, "K" excludes 1000 S ; "V", and "K" w is specificatio the piping ada "C" piping thr d. If Rc or G th	or "R2" is selected e digital pressure ibled ventilated. Consult with CKD ts model 8030-W 8030-W 8000 Series. Series) when selecting an ns for any other pter set. ead type, a NPT	Bla J © Pipi Bla A6 A8 A11 A22 A32 * Adap Bla N C © Pres Bla G4 G4 G4	ank 1 ng adap ank *W 2*W 5*W 5*W 5*W 2*W 155 155 155 155 155 155 155 15	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 1/2 piping adaptor set 1/2 piping adaptor set 1/4 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set Comparison of the set 1 1/4 piping adaptor set 2 d type Rc thread NPT thread G thread Uge option (attached) Not attached G45D-8-P10 (L: G45D-8-P04) G59D-8-P10 (L: G59D-8-P04) G40D-8-P10 (L: G40D-8-P04)		 • /ul>	 • /ul>			•
automatic drain is same as the 6 C Refer to page 87 for max. flow 7 Pressure gauge display rang "L". 8 When option "T6" is selected for the (H) pressure gauge sensor PPX mounting port (R 9 C Output type will be NPN tran- if PNP transistor output is required 10: Mounting location for assem Symbol Installation position of Attachment D F+M+ (D) +R S or F+M+R+ (S, P) P V or F+M+R+ (V, K) K Hote: Indicate "U" + "D", "S", "P", assembly attachment. Use custom combinations combination. 11: A joiner set is attached with 12: If NPT is selected for the	w rate of optior ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem misitor output. (quired. mbly attachmen Applicable C1030-W to C ("P" excludes 10 8000 Series) C1030-W to C ("V" excludes 6000, "K" excludes 6000, "K" excludes 1000 S ; "V", and "K" w is specificatio the piping ada "C" piping thr d. If Rc or G th	or "R2" is selected e digital pressure ibled ventilated. Consult with CKD ts model 8030-W 8030-W 8000 Series. Series) when selecting an ns for any other pter set. ead type, a NPT	Bla G Pipi Bla A66 A88 A111 A11 A20 A22 A32 * Adap Bla C C C C Pres Bla G4 G4 G4 G5 G4	ank 1 ng adap ank *W 2*W 5*W 5*W 5*W 2*W 155 155 155 155 155 155 155 15	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 1/2 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 1/4 piping adaptor set 1 1/4 piping adaptor set ad type Rc thread NPT thread G thread MPT thread G thread Uge option (attached) Not attached G45D-8-P10 (L: G45D-8-P04) G59D-8-P10 (L: G59D-8-P04) G40D-8-P10 (L: G50D-8-P04) G50D-8-P10 (L: G50D-8-P04)		 • /ul>	 • /ul>			•
automatic drain is same as the 6: Refer to page 87 for max. flow 7: Pressure gauge display rang "L". 8: When option "T6" is selected for the (H) pressure gauge is sensor PPX mounting port (R 9: Output type will be NPN transif PNP transistor output is received to for the (H) + R s or F+M+(D) + R S or F+M+R+ (S, P) P V or F+M+R+ (V, K) k lote: Indicate "U" + "D", "S", "P", assembly attachment. Use custom combination: combination.	w rate of optior ge will be 0 to 0 d, only "blank" of (enclosed). Th Rc1/8) is assem misitor output. (quired. mbly attachmen Applicable C1030-W to C ("P" excludes 10 8000 Series) C1030-W to C ("V" excludes 6000, "K" excludes 6000, "K" excludes 1000 S ; "V", and "K" w is specificatio the piping ada "C" piping thr d. If Rc or G th	or "R2" is selected e digital pressure ibled ventilated. Consult with CKD ts model 8030-W 8030-W 8000 Series. Series) when selecting an ns for any other pter set. ead type, a NPT	Bla G Pipi Bla A66 A88 A10 A11 A22 A22 A32 * Adap Bla Bla Bla G4 G4 G4 G5 G4	ank 1 ng adap ank *W 2*W 5*W 5*W 5*W 2*W 155 155 155 155 155 155 155 15	MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pa Not attached 1/8 piping adaptor set 1/4 piping adaptor set 1/2 piping adaptor set 1/2 piping adaptor set 1/4 piping adaptor set 1 piping adaptor set 1 1/4 piping adaptor set Comparison of the set 1 1/4 piping adaptor set 2 d type Rc thread NPT thread G thread Uge option (attached) Not attached G45D-8-P10 (L: G45D-8-P04) G59D-8-P10 (L: G59D-8-P04) G40D-8-P10 (L: G40D-8-P04)		 • /ul>	 • /ul>			•

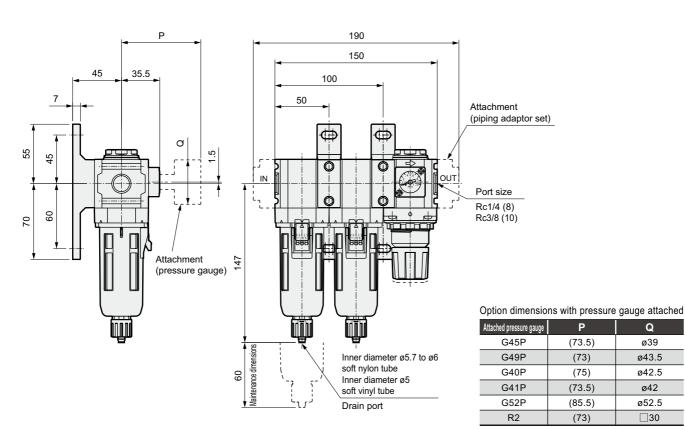
Dimensions CAD

• C1030-W



Option dimensions	with pressure of	gauge attached
Attached pressure gauge	0	Р
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

• C2030-W



Q

ø39

ø43.5

ø42.5

ø42

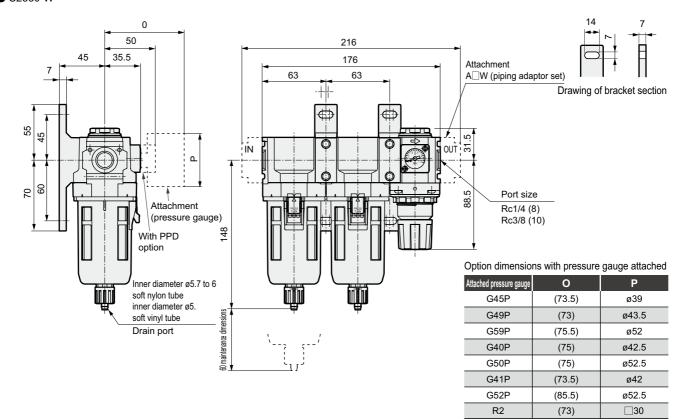
ø52.5

□30

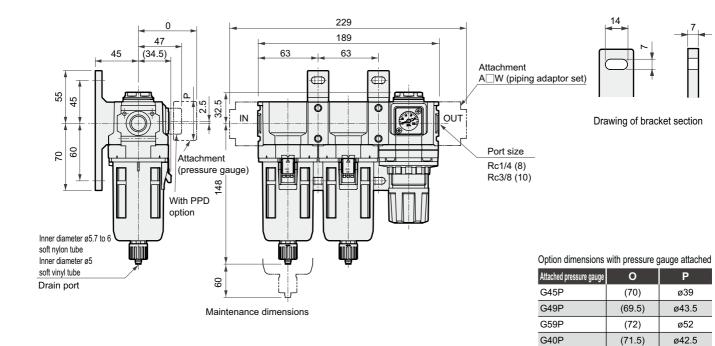
CKD 43

Dimensions

Dimensions



• C3030-W



 Refer to page 92 for the dimensions of the metal bowl option filter and page 102 for the oil mist filter.

CKL

(71.5)

(70)

(82)

(69.5)

G50P

G41P

G52P

R2

ø52.5

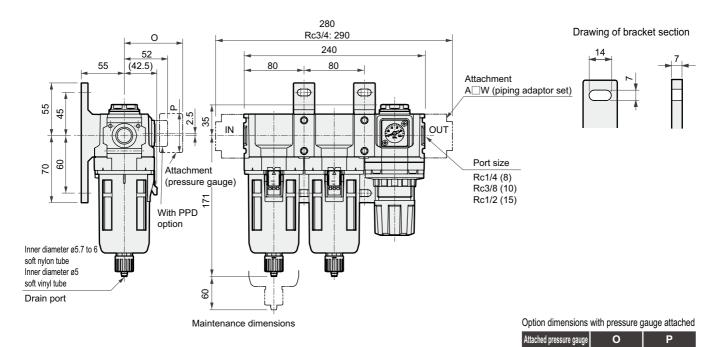
ø42

ø52.5

□30

Dimensions CAD

• C4030-W



G45P

G49P

G59P

G40P

G50P

G41P

G52P

R2

G52P

R2

(93)

(80)

ø52.5

□30

(75)

(74.5)

(77)

(76.5)

(76.5)

(75)

(86)

(75)

ø29

ø43.5

ø52

ø42.5

ø52.5

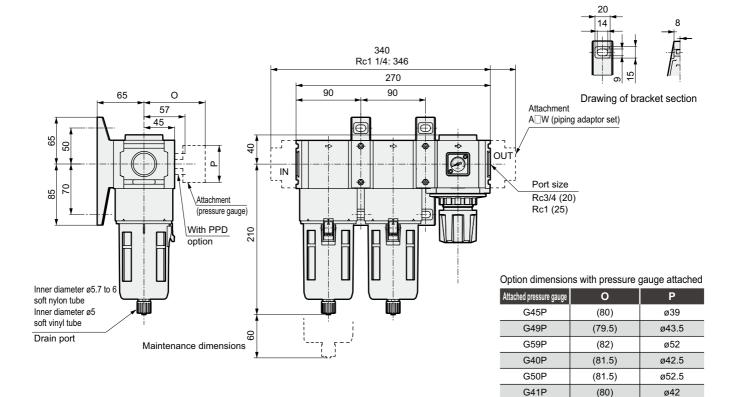
ø42

ø52.5

30

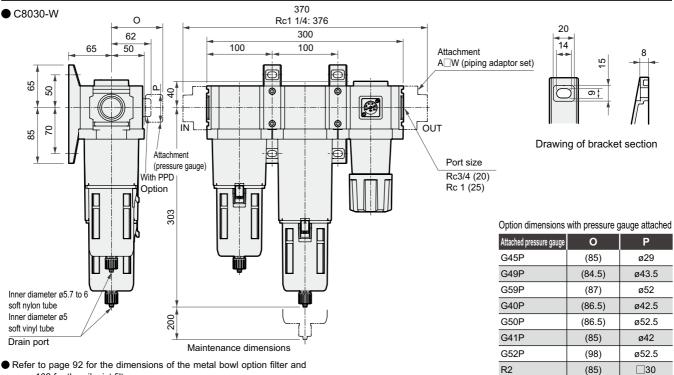
 Refer to page 92 for the dimensions of the metal bowl option filter and page 102 for the oil mist filter.

• C6030-W



Dimensions with options

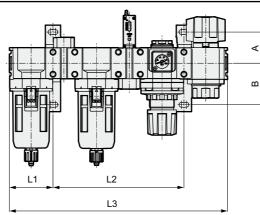
Dimensions



Refer to page 92 for the dimensions of the metal bowl option filter and page 102 for the oil mist filter.

Dimensions with options

C1030-W to C8030-W



Model no.	Α	В
C1030-W	35	45
C2030-W		
C2530-W	45	60
C3030-W	45	60
C4030-W		
C6030-W	50	70
C8030-W	50	70

Assembled options		D		S (Note	e 1)		Ρ			V			Κ		DS	(Not	e 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	94.5	181.5	50	113	201.5	50	113	230	50	113	213	50	113	213	50	144.5	233	50	144.5	261.5	50	144.5	244.5	50	144.5	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 Note 1	100	111.5	311.5	100	160	311.5	100	160	360	100	160	343	100	160	343	100	191.5	343	100	191.5	391.5	100	191.5	374.5	100	191.5	374.5
C6030-W	90	140	320	90	180	355	-	-	-	-	-	Ι	90	180	360	90	230	405	-	-	-	-	-	-	90	230	410
C8030-W	100	150	350	100	200	385	-	-	-	-	-	-	100	200	390	100	250	435	-	-	-	-	-	-	100	250	440
Assembled options		DSV	/		DSK			DPV			DPK			sv			SK			P۷			ΡK				
Assembled options Model no.	L1	DSV L2	L3		-	L3	L1	DPV L2	_	L1	DPK L2	L3	L1	SV L2	L3	L1	_	L3	L1	PV L2	L3	L1		L3			<u> </u>
		L2			-	_			_		_	L3 -	L1 40	_	L3 188	L1 -	_	L3 -	L1 -		L3 -	L1 -		L3 -			
Model no.	L1	L2	L3	L1	L2	L3	L1		_	L1	_	-		L2 108			_	-	L1 - 50		L3 - 293	L1 - 50		L3 - 293			<u> </u>
Model no. C1030-W	L1 40	L2 136	L3 216	L1 -	L2 -	L3 -	L1 -	L2 -	L3 - 325	L1 -	L2 -	- 325	40	L2 108 144.5	188	- 50	L2 -	- 244.5	-	L2 -	-	-	L2 -	- 293			
Model no. C1030-W C2030-W	L1 40 50	L2 136 176 176	L3 216 276	L1 - 50	L2 - 176 176	L3 - 276	L1 - 50	L2 - 225	L3 - 325 351	L1 - 50	L2 - 225	- 325 351	40 50	L2 108 144.5 144.5	188 244.5	- 50 63	L2 - 144.5 144.5	- 244.5	- 50 63	L2 - 193	- 293	- 50	L2 - 193	- 293 319			<u> </u>
Model no. C1030-W C2030-W C2530-W	L1 40 50 63	L2 136 176 176	L3 216 276 302	L1 - 50 63	L2 - 176 176	L3 - 276 302	L1 - 50 63 63	L2 - 225 225	L3 - 325 351 364	L1 - 50 63	L2 - 225 225	- 325 351 364	40 50 63 63	L2 108 144.5 144.5 157.5	188 244.5 270.5	- 50 63	L2 - 144.5 144.5	- 244.5 270.5 283.5	- 50 63	L2 - 193 193	- 293 319	- 50 63	L2 - 193 193	- 293 319 332	 		
Model no. C1030-W C2030-W C2530-W C3030-W	L1 40 50 63 63	L2 136 176 176 189	L3 216 276 302 315	L1 - 50 63 63	L2 - 176 176 189	L3 - 276 302 315	L1 - 50 63 63 80	L2 - 225 225 238 271.5	L3 - 325 351 364	L1 - 50 63 63 80	L2 - 225 225 238	- 325 351 364 414.5	40 50 63 63 80	L2 108 144.5 144.5 157.5 191.5	188 244.5 270.5 283.5	- 50 63 63 80	L2 - 144.5 144.5 157.5 191.5	- 244.5 270.5 283.5	- 50 63 63 80	L2 - 193 193 206 240	- 293 319 332	- 50 63 63	L2 - 193 193 206 240	- 293 319 332	 		
Model no. C1030-W C2030-W C2530-W C3030-W C4030-W	L1 40 50 63 63 80	L2 136 176 176 189 223	L3 216 276 302 315 366	L1 - 50 63 63 80	L2 - 176 176 189 223	L3 - 276 302 315 366	L1 - 50 63 63 80	L2 - 225 225 238 271.5	L3 - 325 351 364 414.5	L1 - 50 63 63 80	L2 - 225 225 238 271.5	- 325 351 364 414.5	40 50 63 63 80	L2 108 144.5 144.5 157.5 191.5	188 244.5 270.5 283.5 334.5	- 50 63 63 80	L2 - 144.5 144.5 157.5 191.5	- 244.5 270.5 283.5 334.5 374.5	- 50 63 63 80	L2 - 193 193 206 240	- 293 319 332 383	- 50 63 63 80	L2 - 193 193 206 240	- 293 319 332 383	 		

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

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

L3: Dimensions from the IN edge to the OUT edge

*Refer to the general catalog for the detailed dimentions of the mounting hole of the bracket. Note 1. The piping adapter is assembled on the OUT side.

Piping adaptor A400-20-W is assembled on both ends of C4030-20-W.



W.M. combination standard white series C1040/C2040/C3040/C4040/C8040-W Series

Integrated filter, oil mist filter, and regulator Port size: 1/8 to 1





Specifications

	Descriptions	C1040-W	C2040-W	C3040-W	C4040-W	C8040-W							
Exterior Filterregulator													
Componente	Filterregulator	W1000-W	W2000-W	W3000-W	W4000-W	W8000-W							
Componenta	Oil mist filter	M1000-W	M2000-W	M3000-W	M4000-W	M8000-W							
	ing fluid			Compressed air									
	vorking pressure MPa		1										
Withsta	anding pressure MPa		1.5										
	t temperature range °C			5 to 60		Note 6							
<u> </u>	essure range MPa	0.1 to 0.85 Note 5			Note 3, Note 4								
Relief				With relief mechanism									
Port s	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)							
Produ	uct weight kg	0.31	0.74	0.97	1.52	3.52							
Secon	dary oil concentration			0.01mg/m ³ or less									
Maximur	m flow rate (Note 1) m ³ /min	0.15	0.25	0.36	0.825	2.6							

Note 1: Max flow is measured at regulator setting of 0.7MPa. When element option "Y" is selected, refer to page 87 for maximum flow.

Note 2: Refer to page 95 for details on other oil mist filters.

Note 3: When "F" with an automatic drain is selected, the supply air pressure is 0.2 MPa or more. Minimum pressure setting is 0.15MPa. Automatic drain for the filter reglator will operate from supplied air pressure of 0.1MPa. Initially generated drainage and air are purged until pressure reaches 0.1 MPa.

Note 4: When "F" with an automatic drain is selected, the supply air pressure is 0.2 MPa or more. Minimum pressure setting is 0.15MPa.

Note 5: When "F1" with an automatic drain is selected for the C1040-W series, minimum operating pressure is 0.2 MPa and maximum operation pressure is 0.7 MPa. Refer to the maximum processing flow table (page 87) for the F1000-W-F1 automatic drain for the maximum working flow. Set the working flow to less than the maximum working flow.

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

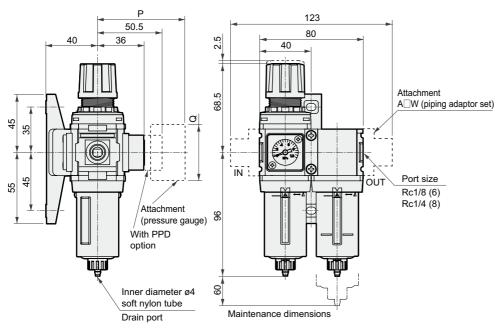
How to order

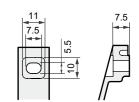
C1040)-(6) - W - (F			* Re	efer page 9 for an explanation					
		\mathbb{N}		the options.		_	ode		
		\sim	•-		C 1 0	C 2 0	C 3 0	C 4 0	
				sure gauge option (attached)	4	4	4	4 0	
Madal na		Syr B Por	nbol	Descriptions	Ľ	Ū	Ŭ	•	Ľ
Model no. Port size			i size 6	1/8				_	-
			B	1/4	•	•	•	•	t
		1	0	3/8		•	•	٠	
			5	1/2				•	L
			:0 :5	3/4				● Note 1	
			t thread					Net	
Port thread	d type		ank	Rc thread		•			e
			N	NPT thread	•	•	•	•	•
			3	G thread	•	•	•	ullet	
l	Option	🕒 Opt	ion		Ţ			Not	e
,	Option		Blank	With manual drain cock	•	•	•	•	L
		Drainage	F F1	Automatic drain with manual override (NO type: exhausts without pressurization) Automatic drain with manual override (NC type: no exhaust without pressurization)		•	•	-	
		Note 4, Note 5	FF	Large exhaust automatic drain with manual override (NO type: no exhaust without pressurization)		-	-	-	
		L	FF1	Large exhaust automatic drain with manual override (NO type: no exhaust without pressurization))				
-			Blank	Polycarbonate bowl	•	•	\bullet	•	
(B Ass	sembly attachment	Bowl	z	Nylon bowl	•	•		•	ļ
		material	M M1	Metal bowl Metal bowl with manual drain cock				-	H
	Displayed unit		Blank	5µm	•	•	•	•	t
		Element	Y	0.3µm (submicron) Note 6		-	•	•	•
	Piping adapt	or Differential	Blank	Without differential pressure detection port	t 🔸	•	\bullet	٠	•
	set (included	<i>'</i>	Q	With differential pressure detection port (Rc1/4))				Ľ
Cautions for model I	No. selection	Pressure	Blank	0.05 to 0.85MPa		•	•	-	Ľ
—		Range	L Blank	0.05 to 0.35MPa Note 7 With relief mechanism		•	•	-	H
ote 1: Piping adaptor A400-20*-W is C4030-20*-W. Piping adaptor s		Relief	N	Non-relief type	•	•	•	•	
be specified.			Blank	Standard pressure gauge (G401-W)	•	•	•	٠	•
lote 2: G threads and NPT threads are	e available for IN, OUT, gauge	Pressure	т	Without pressure gauge (gauge port (Rc1/4) assembled sealed)		•	•	ullet	•
port and drain discharge port	•	gauge	T8	Pressure gauge attachable (gauge port (Rc1/4) assembled open	-	•	•	•	-
drain). Attachment P, V will be s lote 3: Select options from drain exha	-		T6 R1	Compatibility with digital pressure sensor PPX Note 8	+	•	•	-	
differential pressure detection, r		Flow	Blank	Pressure switch with display PPD assembled Note 9 Standard flow (left to right)		•	•	-	H
selecting options for several ite	ems, list options in order from	Direction			-	-	-		+
the top.		Direction	X1	Reverse flow (right to left)				•	
lote 4. Refer to name 12 for working	conditions of the automatic			Reverse flow (right to left) ttachment Pages 13	• 37 to	• 14	● 8, 15	• 53, *	15
drain.		E Ass Bla	embly a ank	ttachment Pages 13 Without assembly attachment		• 14	● 8, 15	• 53, *	15
drain. ote 5: When option symbol "F" is sele	ected, the NO automatic drain	E Ass Bla	embly a ank J	ttachment Pages 13 Without assembly attachment Assembly attachment type	•	• 14 •	 8, 15 0 	• 53, * •	
drain. ote 5: When option symbol "F" is sele is enclosed for the filter regulato	ected, the NO automatic drain or and the NC automatic drain	E Ass Bla	embly a ank J S	ttachment Pages 13 Without assembly attachment Assembly attachment type Note 10 Pressure switch (P1100-W, 4100-W, 8100-W) Note 10-W)	•	٠	 8, 15 0 0 0 	• 53, * • •	15
drain. lote 5: When option symbol "F" is sele is enclosed for the filter regulato is enclosed for the oil mist filter	ected, the NO automatic drain or and the NC automatic drain r. When option symbol "F1" is	E Ass Bla	embly a ank J	ttachment Pages 13 Without assembly attachment Assembly attachment type Note 10 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W)	•	٠	 8, 15 4 <l< td=""><td>• 53, * • • •</td><td></td></l<>	• 53, * • • •	
drain. ote 5: When option symbol "F" is sele is enclosed for the filter regulato	ected, the NO automatic drain or and the NC automatic drain r. When option symbol "F1" is rain is enclosed for both the	E Ass Bla	embly a ank J S P	ttachment Pages 13 Without assembly attachment Assembly attachment type Note 10 Pressure switch (P1100-W, 4100-W, 8100-W) Note 10-W)		٠	 8, 15 0 <l< td=""><td>•</td><td></td></l<>	•	
drain. ote 5: When option symbol "F" is sele is enclosed for the filter regulato is enclosed for the oil mist filter selected, the NC automatic dr filter regulator and oil mist regularge drain type oil mist filter bu	ected, the NO automatic drain or and the NC automatic drain r. When option symbol "F1" is rain is enclosed for both the julator. "FF" and "FF1" has a	Bla Bla Vassempled	embly a ank J S P V	ttachment Pages 13 Without assembly attachment Assembly attachment Assembly attachment type Note 10 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W)		• • • •	• • • •	• • • •	
drain. lote 5: When option symbol "F" is sele is enclosed for the filter regulato is enclosed for the oil mist filter selected, the NC automatic dr filter regulator and oil mist reg large drain type oil mist filter bu as the NC type.	ected, the NO automatic drain or and the NC automatic drain r. When option symbol "F1" is rain is enclosed for both the julator. "FF" and "FF1" has a ut the automatic drain is same	Bla Bla V V V S S S S S S S S S S S S S S S S	embly a ank J S P V K	ttachment Pages 13 Without assembly attachment Assembly attachment Assembly attachment type Note 10 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W)		• • • •	• • • •	• • • •	
drain. lote 5: When option symbol "F" is sele is enclosed for the filter regulato is enclosed for the oil mist filter selected, the NC automatic dr filter regulator and oil mist reg large drain type oil mist filter bu as the NC type. lote 6: Refer to page 87 for max. flow r	ected, the NO automatic drain or and the NC automatic drain r. When option symbol "F1" is rain is enclosed for both the julator. "FF" and "FF1" has a it the automatic drain is same rate of option "Y".	Ass Bla V V V V V V V V V V V V V V V V V V V	embly a ank J P V K played u ank	ttachment Pages 13 Without assembly attachment Assembly attachment type Note 10 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) nit MPa display, Rc thread MPa display, NPT, G thread				 • •<	
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drain. ote 5: When option symbol "F" is sele is enclosed for the filter regulato is enclosed for the oil mist filter selected, the NC automatic dr filter regulator and oil mist regularge drain type oil mist filter bu as the NC type. ote 6: Refer to page 87 for max. flow r ote 7: Pressure gauge display range will ote 8: When option "T6" is selected, on for the (H) pressure gauge (en sensor PPX mounting port (Rc1 ote 9: Output type will be NPN transis if PNP transistor output is requir ote 10: Mounting location for assembly Symbol Installation position of attachmen	ected, the NO automatic drain or and the NC automatic drain r. When option symbol "F1" is rain is enclosed for both the julator. "FF" and "FF1" has a ut the automatic drain is same rate of option "Y". Il be 0 to 0.4 MPa for option "L". only "blank" or "R2" is selected inclosed). The digital pressure I/8) is assembled ventilated. stor output. Consult with CKD red. y attachments nt Applicable model C1040-W to C8040-W	Ass Bla Dep Dep Dep Dep Des Des Des Des Des Des Des Des	embly a ank J S P V K blayed u ank 1 ng adap ank *W 5*W 5*W 5*W	ttachment Pages 13 Without assembly attachment Assembly attachment type Note 10 Pressure switch (P1100-W, 4100-W, 8100-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) mPa display, Rc thread MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pages 1000000000000000000000000000000000000	• •		 • •<	 • •<	
drain. ote 5: When option symbol "F" is sele is enclosed for the filter regulato is enclosed for the oil mist filter selected, the NC automatic dr filter regulator and oil mist regularge drain type oil mist filter bu as the NC type. ote 6: Refer to page 87 for max. flow r ote 7: Pressure gauge display range will ote 8: When option "T6" is selected, on for the (H) pressure gauge (en sensor PPX mounting port (Rc1 ote 9: Output type will be NPN transis if PNP transistor output is requir ote 10: Mounting location for assembly	ected, the NO automatic drain or and the NC automatic drain r. When option symbol "F1" is rain is enclosed for both the pulator. "FF" and "FF1" has a ut the automatic drain is same rate of option "Y". Il be 0 to 0.4 MPa for option "L". only "blank" or "R2" is selected inclosed). The digital pressure I/8) is assembled ventilated. stor output. Consult with CKD red. y attachments it Applicable model	Ass Bla Bla Bla Bla Bla Bla Ass Ass Bla Bla Ass Ass Bla Bla Ass Ass Ass Ass Ass Ass Ass As	embly a ank J S P V K blayed u ank 1 ng adap ank *W 5*W 5*W 5*W 5*W 5*W	ttachment Pages 13 Without assembly attachment Assembly attachment type Note 10 Pressure switch (P1100-W, 4100-W, 8100-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) mt MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pages 1 Not attached 1/8 piping adaptor set 3/8 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 piping adaptor set	• •		 • •<	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 153, 7 0 0 0	
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drain. lote 5: When option symbol "F" is selecis enclosed for the filter regulator is enclosed for the oil mist filter selected, the NC automatic dr filter regulator and oil mist regu- large drain type oil mist filter bu- as the NC type. lote 6: Refer to page 87 for max. flow r- lote 7: Pressure gauge display range will lote 8: When option "T6" is selected, or for the (H) pressure gauge (en- sensor PPX mounting port (Rc1 lote 9: Output type will be NPN transis if PNP transistor output is requiri- lote 10: Mounting location for assembly. Symbol Installation position of attachment S or P W+ (S, P) +M V or K W+M+ (V, K) Note: Indicate "U" + "D", "S", "P", "V assembly attachment. Use custom combinations s combination. lote 11: A joiner set is attached with the	ected, the NO automatic drain or and the NC automatic drain r. When option symbol "F1" is rain is enclosed for both the pulator. "FF" and "FF1" has a it the automatic drain is same rate of option "Y". Il be 0 to 0.4 MPa for option "L". Inly "blank" or "R2" is selected nclosed). The digital pressure I/8) is assembled ventilated. stor output. Consult with CKD red. y attachments It <u>Applicable model</u> C1040-W to C8040-W ("P" excludes 1000 and <u>8000 Series)</u> C1040-W to C8010-W ("V" excludes 8000 Series. "K" excludes 1000 Series) /", and "K" when selecting an specifications for any other e piping adapter set.	Ass Bla Bla Bla Bla Bla Bla A66 A88 A10 A11 A12 A22 A33 * Adap Bla C Pre Bla C C Pipt	embly a ank J S P V K blayed u ank 1 1 ng adap ank *W *W 5*W 5*W 5*W 5*W 5*W 5*W 5*W 5*W 5	ttachment Pages 13 Without assembly attachment Assembly attachment type Note 10 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) MPa display, Rc thread MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pages Not attached 1/4 piping adaptor set 1/4 piping adaptor set 3/4 piping adaptor set 1 /1/2 piping adaptor set 1 1/4 piping adaptor set 1 /1/2 piping adaptor set 1 1/4 piping adaptor set 1 MPa display, C thread G thread		 • /ul>	57 N		
drain. Note 5: When option symbol "F" is sele is enclosed for the filter regulator is enclosed for the oil mist filter selected, the NC automatic dr filter regulator and oil mist regu- large drain type oil mist filter bu- as the NC type. Note 6: Refer to page 87 for max. flow re- Note 7: Pressure gauge display range will Note 8: When option "T6" is selected, on for the (H) pressure gauge (en- sensor PPX mounting port (Rc1 Note 9: Output type will be NPN transis if PNP transistor output is require Note 10: Mounting location for assembly Symbol Installation position of attachment S or P W+ (S, P) +M V or K W+M+ (V, K) Note: Indicate "U" + "D", "S", "P", "V assembly attachment. Use custom combinations s combination. Note 11: A joiner set is attached with the Note 12: If NPT is selected for the "C	acted, the NO automatic drain or and the NC automatic drain r. When option symbol "F1" is rain is enclosed for both the julator. "FF" and "FF1" has a it the automatic drain is same rate of option "Y". Il be 0 to 0.4 MPa for option "L". Inly "blank" or "R2" is selected nclosed). The digital pressure I/8) is assembled ventilated. stor output. Consult with CKD red. y attachments It <u>Applicable model</u> C1040-W to C8040-W ("P" excludes 1000 and 8000 Series) C1040-W to C8010-W ("V" excludes 8000 Series. "K" excludes 1000 Series) /", and "K" when selecting an specifications for any other e piping adapter set. "" piping thread type, a NPT	Ass Bla Bla Bla Bla Bla Bla A66 A88 A11 A12 A22 A33 * Adap Bla C C Prev Bla C C C C C C C C C C C C C	embly a ank J S V K blayed u ank 1 ng adap ank *W *W 5*W 5*W 5*W 5*W 5*W 5*W 5*W 5*W 5	ttachment Pages 13 Without assembly attachment Assembly attachment type Note 10 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) MPa display, Rc thread MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pages Not attached 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 1/4 piping adaptor set 1/4 piping adaptor set 1/4 piping adaptor set 1/2 piping adaptor set 1/4 piping adaptor set 1 piping adaptor set 1 fiping adaptor set 3/4 piping adaptor set 1 fiping adaptor set 1 fiping		 • /ul>	57 N		
drain. Note 5: When option symbol "F" is sele is enclosed for the filter regulato is enclosed for the oil mist filter selected, the NC automatic dr filter regulator and oil mist regu- large drain type oil mist filter bu as the NC type. Note 6: Refer to page 87 for max. flow r Note 7: Pressure gauge display range will selected, on for the (H) pressure gauge (en- sensor PPX mounting port (Rc1 Note 9: Output type will be NPN transis if PNP transistor output is requir Note 10: Mounting location for assembly Symbol Installation position of attachmen S or P W+ (S, P) +M V or K W+M+ (V, K) Note: Indicate "U" + "D", "S", "P", "V assembly attachment. Use custom combinations s combination. Note 11: A joiner set is attached with the Note 12: If NPT is selected for the "C pressure gauge is enclosed. I	ected, the NO automatic drain or and the NC automatic drain r. When option symbol "F1" is rain is enclosed for both the julator. "FF" and "FF1" has a it the automatic drain is same rate of option "Y". Il be 0 to 0.4 MPa for option "L". Inly "blank" or "R2" is selected nclosed). The digital pressure I/8) is assembled ventilated. stor output. Consult with CKD red. y attachments It <u>Applicable model</u> [C1040-W to C8040-W ("P" excludes 1000 and 8000 Series) [C1040-W to C8010-W ("V" excludes 8000 Series. "K" excludes 1000 Series] /", and "K" when selecting an specifications for any other e piping adapter set. "" piping thread type, a NPT If Rc or G thread is selected,	Ass Bla Bla Bla Bla Bla Bla Ass Bla Bla Ass Bla Ass Bla Ass Bla Ass Bla Ass Bla Ass Bla Ass Bla Bla Ass Ass Bla Bla Ass Ass Ass Ass Ass Ass Ass As	embly a ank J S P V K blayed u ank 1 1 ng adap ank *W *W 5*W 5*W 5*W 5*W 5*W 5*W 5*W 5*W 5	ttachment Pages 13 Without assembly attachment Assembly attachment type Note 10 Pressure switch (P1100-W, 4100-W, 8100-W) Pressure switch (P4000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve (V1000-W, V3000-W) Shut-off valve with key hole (V3010-W, V6010-W) mPa display, Rc thread MPa display, Rc thread MPa display, NPT, G thread tor set (included) Pages Not attached 1/8 piping adaptor set 3/4 piping adaptor set 3/4 piping adaptor set 1 /2 piping adaptor set 1 /4 piping adaptor set 1 /1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 formead NPT thread G thread uge option (attached) Not attached G45D-8-P10 (L: G45D-8-P04) G59D-8-P10 (L: G59D-8-P04)			57 N		
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CKD

Dimensions CAD

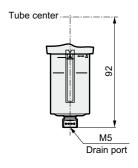
• C1040-W





Drawing of bracket section

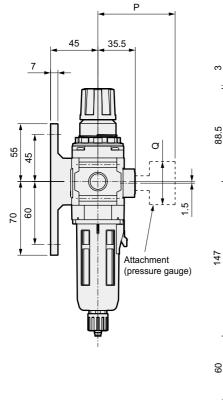
Option dimensions
 With automatic drain (F1)

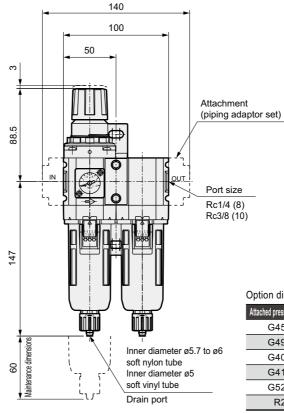


Option dimensions with pressure gauge attached

Attached pressure gauge	Р	Q
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

• C2040-W



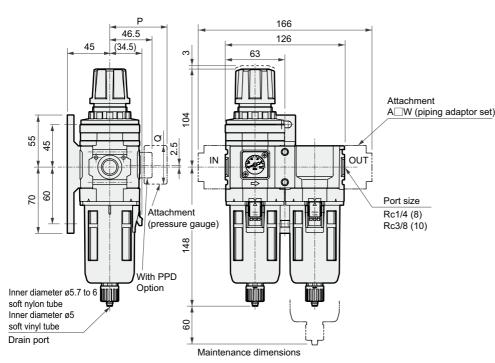


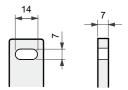
Р	Q
(73.5)	ø39
(73)	ø43.5
(75)	ø42.5
(73.5)	ø42
(85.5)	ø52.5
(73)	□30
	(73) (75) (73.5) (85.5)

Dimensions

Dimensions CAD

• C3040-W





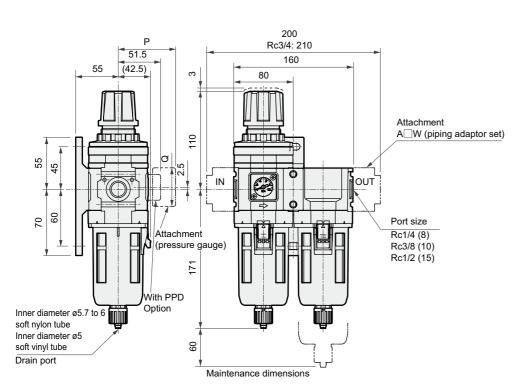
Drawing of bracket section

Option dimensions with pressure gauge attached

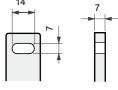
Attached pressure gauge	Р	Q
G45P	(70)	ø39
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G50P	(71.5)	ø52.5
G41P	(70)	ø42
G52P	(82)	ø52.5
R2	(69.5)	□30

Refer to page 75 for the dimensions of the metal bowl option filter/ regulator and page 102 for the oil mist filter.

• C4040-W



Refer to page 75 for the dimensions of the metal bowl option filter/ regulator and page 102 for the oil mist filter.



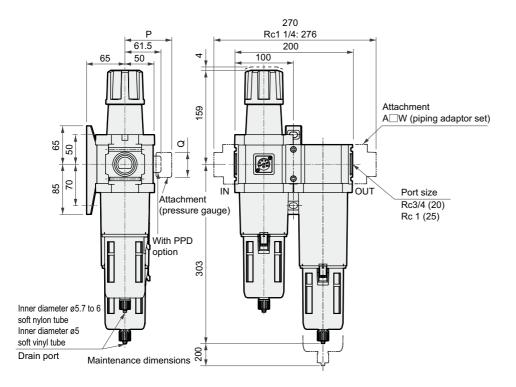
Drawing of bracket section

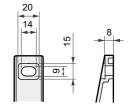
Option dimensions	with pressure g	gauge attached
Attached pressure gauge	Р	G

Attached pressure gauge	Р	Q				
G45P	(75)	ø39				
G49P	(74.5)	ø43.5				
G59P	(77)	ø52				
G40P	(76.5)	ø42.5				
G50P	(76.5)	ø52.5				
G41P	(75)	ø42				
G52P	(86)	ø52.5	_			
R2	(75)	□30				
G45P (75) ø39 G49P (74.5) ø43.5 G59P (77) ø52 G40P (76.5) ø42.5 G50P (76.5) ø52.5 G41P (75) ø42 G52P (86) ø52.5						

Dimensions CAD

• C8040-W





Drawing of bracket section

Ontion	dimensions	with	pressure	naune	attached
Option	UIIIICIISIUIIS	WILII	piessuie	yauye	allaciicu

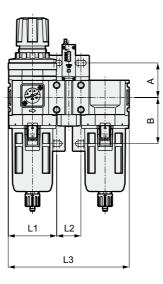
Attached pressure gauge	Р	Q
G45P	(85)	ø39
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G50P	(86.5)	ø52.5
G41P	(85)	ø42
G52P	(98)	ø52.5
R2	(85)	□30

Refer to page 75 for the dimensions of the metal bowl option filter/ regulator and page 102 for the oil mist filter.

Dimensions with options

Dimensions with options

• C1040-W to C8040-W



Model no.	Α	В
C1040-W	35	45
C2040-W		
C3040-W	45	60
C4040-W		
C8040-W	50	70

Assembled options		S		Р		V		К		sv		SK			PV			РК						
Model no.	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
C1040-W	40	28	108	-	-	-	40	40	120	-	-	-	40	68	148	-	-	-	-	-	-	-	-	-
C2040-W	50	31.5	131.5	50	80	180	50	63	163	50	63	163	50	81.5	194.5	50	81.5	194.5	50	130	243	50	130	243
C3040-W	63	31.5	157.5	63	80	206	63	63	189	63	63	189	63	94.5	220.5	63	94.5	220.5	63	143	269	63	143	269
C4040-W	80	31.5	191.5	80	80	240	80	80	223	80	80	223	80	111.5	254.5	80	111.5	254.5	80	160	320	80	160	320
C4040-20-W Note 1	100	31.5	231.5	100	80	280	100	100	263	100	100	263	100	111.5	294.5	100	111.5	294.5	100	160	343	100	160	343
C8040-W	100	50	250	-	-	-	-	-	-	100	100	290	-	-	-	100	150	340	-	-	-	-	-	-

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

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

L3: Dimensions from the IN edge to the OUT edge

*Refer to the general catalog for the detailed dimentions of the mounting hole of the bracket.

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

Piping adaptor A400-20-W is assembled on both ends of C4040-20-W.



R.M. combination standard white series C1050/C2050/C2550 C3050/C4050/C6050/C8050-W Series

Integrated regulator and oil mist filter

Port size: 1/8 to 1





Specifications

Descriptions	C1050-W	C2050-W	C2550-W	C3050-W	C4050-W	C6050-W	C8050-W
Exterior							
Components	R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
Oil mist filter	M1000-W	M2000-W	M3000-W	M3000-W	M4000-W	M6000-W	M8000-W
Working fluid				Compressed air			
Max. working pressure MPa				1.0			
Withstanding pressure MPa				1.5			
Ambient temperature range °C				5 to 60			
Set pressure range MPa	0.1 to 0.85 Note 4			0.1 to 0.8	5 Note 3		
Relief			Wi	th relief mechani	sm		
Port size Rc, NPT, G	1/8, 1/4	1/4, 3/8	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4, 1	3/4, 1
	(3/8 uses an adaptor)	(1/2 uses an adaptor)	(1/2 uses an adaptor)	(1/2 uses an adaptor)	(3/4 uses an adaptor)	(1 1/4 uses an adaptor)	(1 1/4 uses an adaptor)
Product weight kg	0.29	0.65	0.66	0.82	1.32	2.12	3.12
Secondary oil concentration			().01mg/m ³ or les	S		
Maximum flow rate (Note 1) m ³ /min	0.15	0.25	0.38	0.36	0.825	1.27	2.6

Note 1: Max flow is measured at regulator setting of 0.7MPa.

Note 2: Refer to page 95 for details on other oil mist filters.

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

Note 4: When "F1" with an automatic drain is selected for the C1050-W series, minimum operating pressure is 0.2 MPa and maximum operation pressure is 0.7 MPa. Refer to the maximum processing flow table (page 97) for the F1000-W-F1 automatic drain for the maximum working flow. Set the working flow to less than the maximum working flow.

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

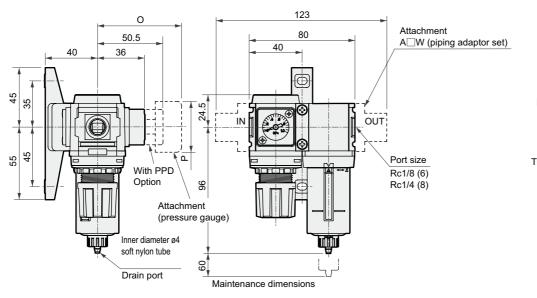
How to order

ow to order								el no	
	\ \		Refer page 9 for an explanation of		C	C	C 3	C 4 0	C 6 0
;1050)-(6)(_)- W -(L)-(_)-(A6W)()		the options.	C 1 0 5 0	C 2 0 5	25	0	0	Ö
\top \uparrow \uparrow \uparrow \uparrow \uparrow \top \top				0	0	5 0	5 0	5 0	5 0
	Syn	nbol	Descriptions						
	B Port	size							
Aodel no. BPort size	(6	1/8						
	8	B	1/4	•		•	•	\bullet	
	1	0	3/8			•	•	\bullet	
	1	5	1/2					\bullet	
	2	0	3/4					●Nee 1	
	2	5	1						\bullet
	C Port	thread t	уре						Not
Port thread type	Bla	ank	Rc thread		\bullet	\bullet	\bullet		\bullet
	1	N	NPT thread	\bullet	\bullet	\bullet	\bullet	ullet	ullet
		3	G thread	\bullet	\bullet	\bullet	\bullet	\bullet	\bullet
	D Opti	ion							Not
Option	Drainage	1	With filter and manual drain cock	•	•	•	•		•
	Note 4	F1	Automatic drain with manual override (NC type: no exhaust without pressurization)	•	ullet	ullet	ullet	ullet	ullet
		Blank	Polycarbonate bowl	•	ullet	ullet	\bullet	ullet	ullet
	Bowl	Z	Nylon bowl	٠	ullet	ullet	ullet	ullet	ullet
	material	м	Metal bowl			ullet	ullet	ullet	ullet
		M1	Metal bowl with manual drain cock		•	\bullet	\bullet	\bullet	\bullet
	Differential	Blank	Without differential pressure detection port	-	•	•	•	ullet	\bullet
	pressure detection		With differential pressure detection port (Rc1/4)						\bullet
	Pressure	Blank	0.05 to 0.85MPa	•	•	•	•	•	•
	Range	L	0.05 to 0.35MPa Note 5	•	•	•	•	•	•
	Relief	Blank	With relief mechanism	•	•	•	•	•	•
		N	Non-relief type		•		•	•	•
		Blank	Standard pressure gauge (G401-W)				•	•	•
	Pressure	T	Without pressure gauge (gauge port (Rc1/4) assembled sealed)	•			•		•
	gauge	T8	Pressure gauge attachable (gauge port (Rc1/4) assembled open)	•					•
		T6 R1	Compatibility with digital pressure sensor PPX Note 6		•				
	Flow	Blank	Pressure switch with display PPD assembled Note 7 Standard flow (left to right)	•	•				
	Direction		Reverse flow (right to left)	•					
Displayed unit		played ur							
I I		ank	MPa display, Rc thread						•
Piping adaptor set (included)	J		MPa display, NPT, G thread						
				Pag	jes '	155	to 1	57	Not
GPressure gauge option (attached)	· ·	ank	Not attached					•	
Cautions for model No. selection	A6		1/8 piping adaptor set		-	-			
e 1: Piping adaptor A400-20*-W is assembled on both ends		*W	1/4 piping adaptor set					•	
of C4050-20*-W. Piping adaptor set "A20*W" does not)*W	3/8 piping adaptor set	•					
need to be specified.		5*W	1/2 piping adaptor set		•		•		
e 2: G threads and NPT threads are available for IN, OUT, gauge port and drain discharge port (metal bowl with)*W	3/4 piping adaptor set					-	
automatic drain).		5*W 2*W	1 piping adaptor set 1 1/4 piping adaptor set						
e 3: Select options from drain exhaust, bowl material,		tor thread	1101						
element, differential pressure detection, regulator, and regulator. When selecting options for several items, list		ank	Rc thread						
options in order from the top.		N	NPT thread	•	•	•	•		
e 4: Refer to page 12 for working conditions of the		3	G thread		•	•	•	•	•
automatic drain. e 5: Pressure gauge display range will be 0 to 0.4 MPa for		-		· -	,	N	1	Ber	- -
option "L".			uge option (attached) Not attached			NO	te 9	Pag	ge 1
e 6: When option "T6" is selected, only "blank" or "R2" is		ank ISP							
		5P	G45D-8-P10 (L: G45D-8-P04)		•				
selected for the (H) pressure gauge (enclosed). The digital pressure sensor PPX mounting port (Rc1/8) is	64	9P	G49D-8-P10 (L: G49D-8-P04) G59D-8-P10 (L: G59D-8-P04)	•					
selected for the (H) pressure gauge (enclosed). The digital pressure sensor PPX mounting port (Rc1/8) is assembled ventilated.	C -		COUD-0-1 10 (L. COUD-0-F 04)	•	•				
digital pressure sensor PPX mounting port (Rc1/8) is assembled ventilated. te 7: Output type will be NPN transistor output. Consult with	G5	0P	$G_{40}D_{-8}P_{10} (I \cdot G_{40}D_{-8} D_{04})$						
digital pressure sensor PPX mounting port (Rc1/8) is assembled ventilated. te 7: Output type will be NPN transistor output. Consult with CKD if PNP transistor output is required.	G4	0P	G40D-8-P10 (L: G40D-8-P04)	-					
digital pressure sensor PPX mounting port (Rc1/8) is assembled ventilated. te 7: Output type will be NPN transistor output. Consult with	G4 G5	60P	G50D-8-P10 (L: G50D-8-P04)	•		•	•	•	•
digital pressure sensor PPX mounting port (Rc1/8) is assembled ventilated. te 7: Output type will be NPN transistor output. Consult with CKD if PNP transistor output is required. te 8: A joiner set is attached with the piping adapter set.	G4 G5 G4		, , ,	-	•	•	•	•	•

CKD

CAD Dimensions

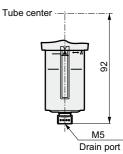
• C1050-W



75 5.5 0

Drawing of bracket section

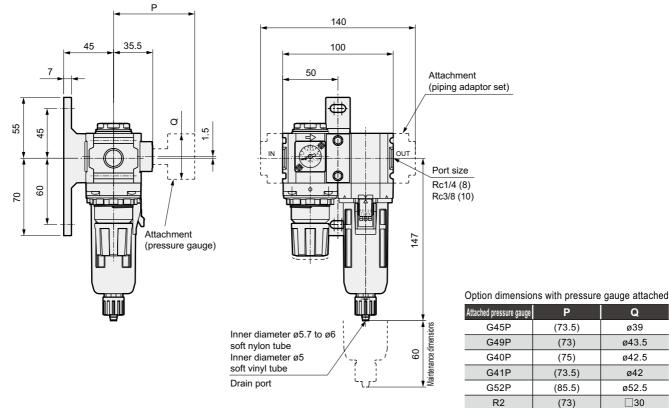
· Option dimensions With automatic drain (F1)



Option dimensions with pressure gauge attached

•		- U
Attached pressure gauge	0	Р
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

• C2050-W



•	•	0 0
Attached pressure gauge	Р	Q
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G40P	(75)	ø42.5
G41P	(73.5)	ø42
G52P	(85.5)	ø52.5

(73)

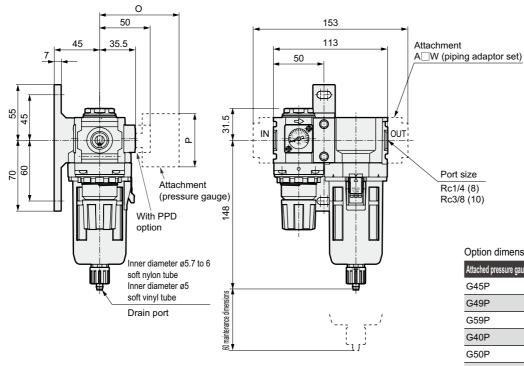
□30

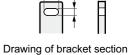
CKD 55

CAD Dimensions

Dimensions

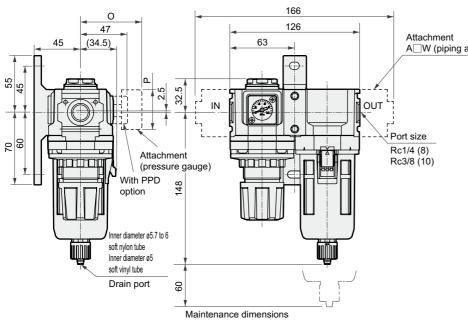






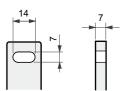
Option dimensions with pressure gauge attached							
Attached pressure gauge	0	Р					
G45P	(73.5)	ø39					
G49P	(73)	ø43.5					
G59P	(75.5)	ø52					
G40P	(75)	ø42.5					
G50P	(75)	ø52.5					
G41P	(73.5)	ø42					
G52P	(85.5)	ø52.5					
R2	(73)	□30					

• C3050-W



Refer to page 92 for dimensions of the metal bowl option.

Attachment A W (piping adaptor set)



Drawing of bracket section

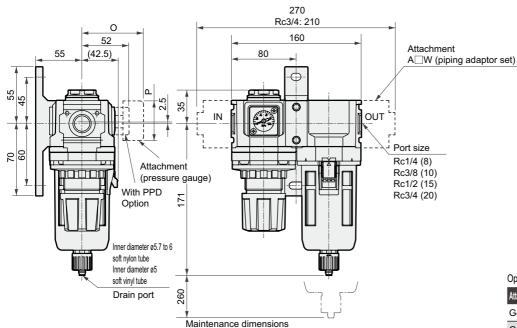
Option dimensions with pressure gauge attached

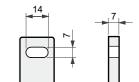
•		-			
Attached pressure gauge	0	Р			
G45P	(70)	ø39			
G49P	(69.5)	ø43.5			
G59P	(72)	ø52			
G40P	(71.5)	ø42.5			
G50P	(71.5)	ø52.5			
G41P	(70)	ø42			
G52P	(82)	ø52.5			
R2	(69.5)	□30			
CKD					

CAD

Dimensions

• C4050-W





Magnified drawing of bracket section

Option dimensions with pressure gauge attached

Attached pressure gauge	0	Р
G45P	(75)	ø39
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G50P	(76.5)	ø52.5
G41P	(75)	ø42
G52P	(86)	ø52.5
R2	(75)	□30

ø42.5

ø52.5

ø42

ø52.5

(81.5)

(81.5)

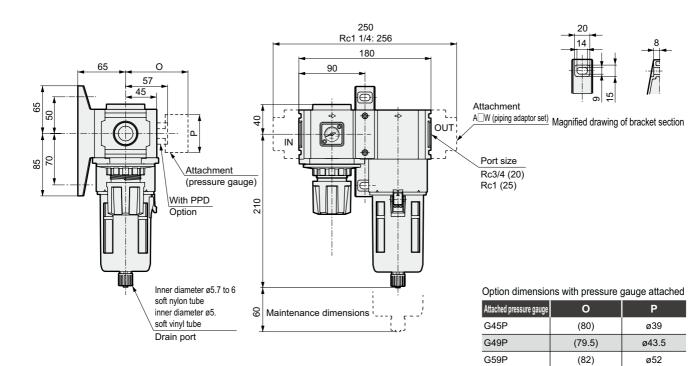
(80)

(93)

(80)

Refer to page 92 for dimensions of the metal bowl option.

• C6050-W



G40P

G50P

G42P

G52P

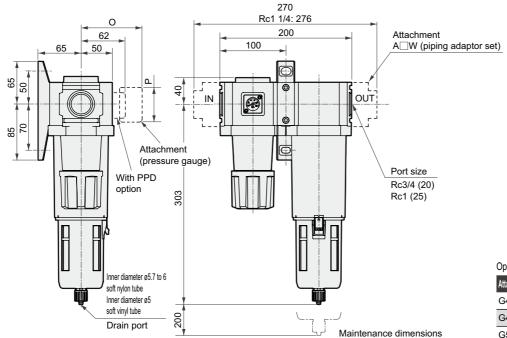
R2

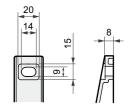
Dimensions

CAD

Dimensions







Drawing of bracket section

Option dimensions with pressure gauge attached

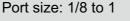
Attached pressure gauge	0	Р
G45P	(85)	ø39
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G50P	(86.5)	ø52.5
G41P	(85)	ø42
G52P	(98)	ø52.5
R2	(85)	□30

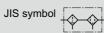
Refer to page 102 for dimensions of the metal bowl option.



F.M. combination standard white series C1060/C2060/C3060 C4060/C6060/C8060-W Series

Integrated filter and oil mist filter







Specifications

De	scriptions	C1060-W	C2060-W	C3060-W	C4060-W	C6060-W	C8060-W		
Exterior									
Componente	Filter	F1000-W	F2000-W	F3000-W	F4000-W	F6000-W	F8000-W		
Components	Oil mist filter	M1000-W	M2000-W	M3000-W	M4000-W	M6000-W	M8000-W		
Working	fluid			Compre	essed air				
Max. worl	king pressure MPa			1	.0 Note 3, 4, 5				
Withstand	ling pressure MPa			1	.5 Note 3				
Ambient ter	mperature range °C			5 to	o 60				
Port size	e 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)		
Product	weight kg	0.22	0.58	0.62	1.06	2.02	2.68		
Seconda	ry oil concentration		0.01mg/m ³ or less						
Maximum flo	ow rate (Note 1) m ³ /min	0.15 Note 3	0.25	0.36	0.825	1.27	2.6		

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

Note 2: Refer to page 95 for details on other oil mist filters.

Note 3: When "F1" with an automatic drain is selected for the C1030-W series, the NC automatic drain is assembled for both the filter and oil mist filter. Minimum operation pressure is 0.2 MPa, maximum operation pressure is 0.7 MPa and withstanding pressure is 1.05MPa. Refer to the maximum processing flow graph (page 97) for the M1030-W-F1 automatic drain for the maximum working flow. The working flow must be less than the maximum working flow.

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

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

Note 6: When element option "Y" is selected, refer to page 87 for maximum flow. The working flow must be less than the maximum working flow.

How to order						A	Mod	lel n	0.
C1060-6 - W - Z A6W			* Refer page 9 for an explanation of the options.				3 0 6	4 0 6	C C 6 8 0 0 6 6 0 0
		Syn	nbol	Descriptions					
Model no.		BPor	t size						
BPort size		(6	1/8					
		8	3	1/4		ullet		•	
		1	0	3/8		ullet		•	
		1	5	1/2					
		2	0	3/4				D lite 1	
		2	5	1					
		C Por	t thread	type				No	ote 2
Port thread	d type	-	ank	Rc thread				•	
		1	N	NPT thread		ullet	\bullet	•	
		(3	G thread	•	ullet	\bullet	•	
		D Opt	ion	·				N	ote 3
		C opt	Blank	With manual drain cock		\bullet			
			F	Automatic drain with manual override (NO type: exhausts without pressurization)			\bullet	•	
		Drainage	F1	Automatic drain with manual override (NC type: no exhaust without pressurization)		ullet	\bullet	•	
			FF	Large exhaust automatic drain with manual override (NO type: exhausts without pressurization)					
		Note 4, Note 5	FF1	Large exhaust automatic drain with manual override (NO type: no exhaust without pressurization)					
			Blank	Polycarbonate bowl		ullet	\bullet	•	
		Bowl	Z	Nylon bowl		ullet	\bullet	•	
		material	м	Metal bowl			\bullet	•	
			M1	Metal bowl with manual drain cock		ullet	\bullet	•	
		Element	Blank	5µm	\bullet	ullet	\bullet	•	
		Element	Y	0.3µm (submicron) Note 6			\bullet	•	
		Differential	Blank	Without differential pressure detection port	ullet	ullet	\bullet	•	
	Displayed unit	pressure detection	Q	With differential pressure detection port (Rc1/4)					
		Flow	Blank	Standard flow (left to right)	\bullet	ullet	\bullet	•	
	Piping adaptor set	Direction	X1	Reverse flow (right to left)	ullet	ullet	\bullet	•	
	(included)	🕒 Dis	played u	init					
Cautions for model	No. selection			MPa display, Rc thread		\bullet		•	
Note 1: Piping adaptor A400-20*-W is			1	MPa display, NPT, G thread	•	ullet			\bullet
C4060-20*-W. Piping adaptor s be specified.	set "A20*W" does not need to	🕞 Pipi	ing adap	otor set (included) Pages	s 15	5 to	15	7 No	ote 7
Note 2: When G threads or NPT thread	ds are selected, the IN, OUT,		ank	Not attached				•	
gauge port, and drainage d		A6	*W	1/8 piping adaptor set					
automatic drain) are the target, Note 3: Select the option from drain			*W	1/4 piping adaptor set		ullet	\bullet	•	
differential pressure detection	. When selecting options for	A10)*W	3/8 piping adaptor set		ullet	\bullet	•	
several items, list options in ord	ier from the top.			i de la constancia de la c	1		-+		

A15*W

A20*W

A25*W

A32*W

Blank

Ν

G

* Adaptor thread type

1/2 piping adaptor set

3/4 piping adaptor set

1 1/4 piping adaptor set

1 piping adaptor set

Rc thread

G thread

NPT thread

- differential pressure detection. When selecting options for several items, list options in order from the top. Note 4: Refer to page 12 for working conditions of the automatic
- drain. Note 5: When option symbol "F" is selected, the NO automatic drain is enclosed for the air filter and the NC automatic drain is enclosed for the automatic drain. When option symbol "F1" both air filter and oil mist filter will have an NC type automatic drain. "FF" and "FF1" has a large drain type oil mist filter but the automatic drain is same as the NC type.
- Note 6: Refer to page 87 for max. flow rate of option "Y".
- Note 7: A joiner set is attached with the piping adapter set.

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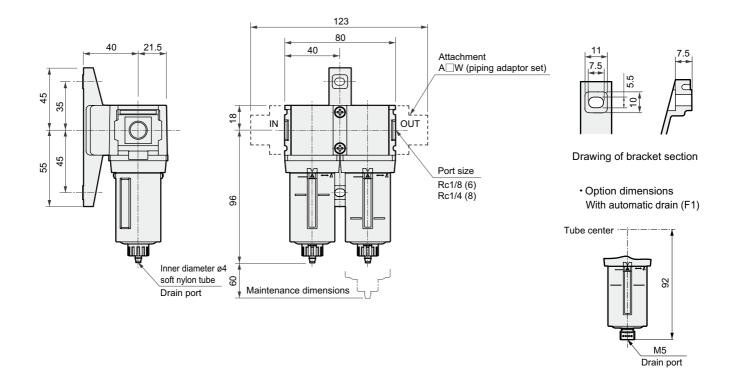
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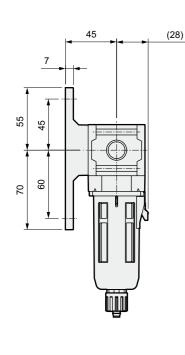
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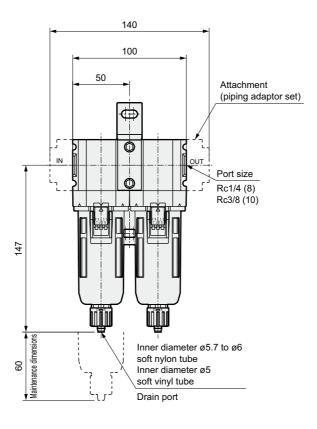
Dimensions CAD

• C1060-W



• C2060-W



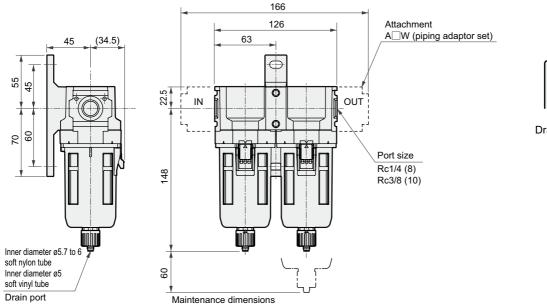


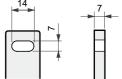
Dimensions

Dimensions

CAD

• C3060-W

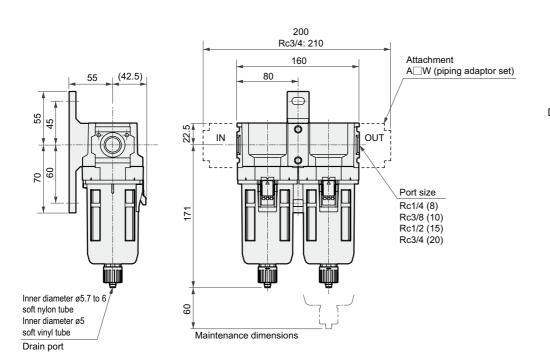


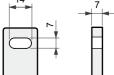


Drawing of bracket section

 Refer to page 92 for the dimensions of the metal bowl option filter and page 102 for the oil mist filter.

• C4060-W



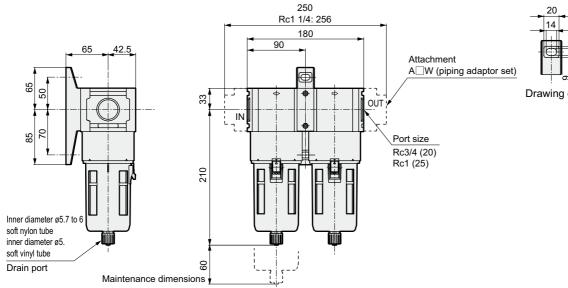


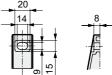
Drawing of bracket section

• Refer to page 92 for the dimensions of the metal bowl option filter and page 102 for the oil mist filter.

Dimensions CAD

• C6060-W

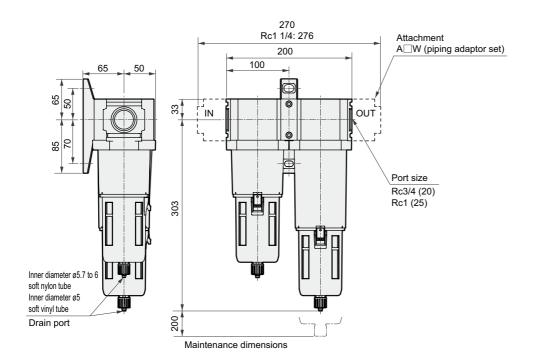


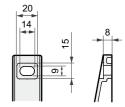


Drawing of bracket section

 Refer to page 92 for the dimensions of the metal bowl option filter and page 102 for the oil mist filter.

• C8060-W





Magnified drawing of bracket section

• Refer to page 92 for the dimensions of the metal bowl option filter and page 102 for the oil mist filter.

MEMO



F.F.M. combination standard white series C3070/C4070/C6070/C8070-W Series

Integrated filter (5 µm), filter (0.3 µm), and oil mist filter Port size: 1/4 to 1





Specifications

· ·	scriptions	C3070-W	C4070-W	C6070-W	C8070-W			
Exterior								
	Filter (5µm)	F3000-W	F4000-W	F6000-W	F8000-W			
Components	Filter (0.3µm)	F3000-W	F4000-W	F6000-W	F8000-W			
	Oil mist filter	M3000-W	M4000-W	M6000-W	M8000-W			
Working	fluid	Compressed air						
Max. work	king pressure MPa	1.0 Note 3, 4						
Withstand	ling pressure MPa	1.5						
Ambient tem	nperature range °C		5 tc	o 60				
Port size	e Rc, PT,	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)			
Product	weight kg	0.96	1.61	3.09	4.01			
Secondar	ry oil concentration		0.01mg/r	n ³ or less				
Maximum flo	w rate (Note 1) m ³ /min	0.23	0.5	0.8	1.1			

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

Note 2: Refer to page 95 for details on other oil mist filters. Note 3: When "F" with an automatic drain is selected, the supply air pressure is 0.15 MPa or more. Air is purged with initial drainage until pressure reaches 0.1 MPa.

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

				1	10 44	10	010	
How to order					A	Mod	lel n	о.
C3070 -6 - W - Z A6W			* Refer page 9 for an explanation of the options.			C 4 0 7	0	C 8 0 7
		Syn	nbol	Descriptions	7 0	7 0	7 0	ó
		BPor		·				
Model no.		8	3	1/4	\bullet			
		1	0	3/8	\bullet	\bullet		
		1	5	1/2		\bullet		
		2	0	3/4		Note 5	•	\bullet
		2	5	1			•	•
		C Por	t thread	type			Note	91
Port thread type			nk	Rc thread				
		1	1	NPT thread	\bullet		•	\bullet
		0	3	G thread	\bullet		\bullet	•
		D Opt	ion				Note	2
Option			Blank	With manual drain cock			•	
			F	Automatic drain with manual override (NO type)	\bullet	\bullet	•	•
		Drainage	F1	Automatic drain with manual override (NC type)	\bullet	\bullet	•	•
			FF	Large exhaust automatic drain with manual override (NO type)				•
		Note 3, Note 4	FF1	Large exhaust automatic drain with manual override (NO type)				•
			Blank	Polycarbonate bowl	\bullet	\bullet	•	\bullet
		Bowl	Z	Nylon bowl	\bullet	\bullet	•	•
		material	м	Metal bowl	\bullet	\bullet	•	\bullet
			M1	Metal bowl with manual drain cock	ullet	\bullet	•	•
		Differential	Blank	Without differential pressure detection port	\bullet	ullet	•	•
		pressure detection	Q	With differential pressure detection port (Rc1/4)				•
		Flow	Blank	Standard flow (left to right)	\bullet	\bullet		•
		Direction	X1	Reverse flow (right to left)	•	\bullet	•	•
		🕒 Disp	olayed u	nit				
G Di	isplayed unit	Bla	ink	MPa display, Rc thread	\bullet	\bullet	•	•
		J	1	MPa display, NPT, G thread	ullet	\bullet	•	•
		🕞 Pipi	ng adap	otor set (included) Pages 155	i to i	157	Note	96
	Piping adaptor set		ink	Not attached			•	•
	(included)	A8	*W	1/4 piping adaptor set	\bullet	\bullet		
A Cautions for model No. select	ction	A10)*W	3/8 piping adaptor set	\bullet	\bullet		
		A15		1/2 piping adaptor set	•			
Note 1: When G threads or NPT threads are selected gauge port, and drainage discharge port		A20)*W	3/4 piping adaptor set		\bullet	•	•
automatic drain) are the target, as are attachm	ents P and V.	A25	5*W	1 piping adaptor set			•	•
Note 2: Select the option from drain exhaust, bowl differential pressure detection. When selectin		A32	2*W	1 1/4 piping adaptor set			•	•
several items, list options in order from the top.		* Adap	tor threa	ad type				
Note 3: Refer to page 12 for working conditions of the drain.	the automatic	Bla	ink	Rc thread	\bullet	\bullet	•	•
Note 4: When option symbol "E" is selected the NO a	utomatic drain		J	NPT thread				

NPT thread

G thread

Ν

G

- Note 4: When option symbol "F" is selected, the NO automatic drain is enclosed for the air filter and the NC automatic drain is enclosed for the automatic drain. When option symbol "F1" both air filter and oil mist filter will have an NC type automatic drain. "FF" and "FF1" has a large drain type oil mist filter but the automatic drain is same as the NC type.
- Note 5: Piping adaptor A400-20*-W is assembled on both ends of C4070-20*-W. Piping adaptor set "A20*W" does not need to be specified.
- Note 6: A joiner set is attached with the piping adapter set.

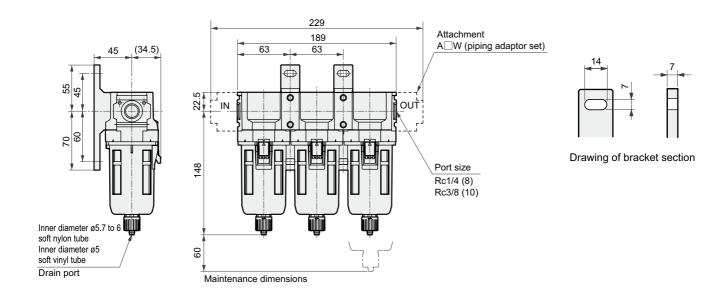
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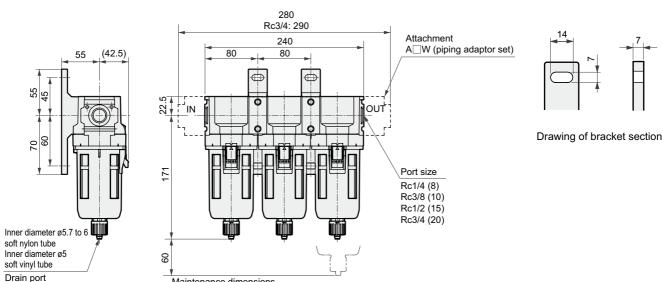
CAD Dimensions

• C3070-W



Refer to page 92 for the dimensions of the metal bowl option filter and page 102 for the oil mist filter.

• C4070-W

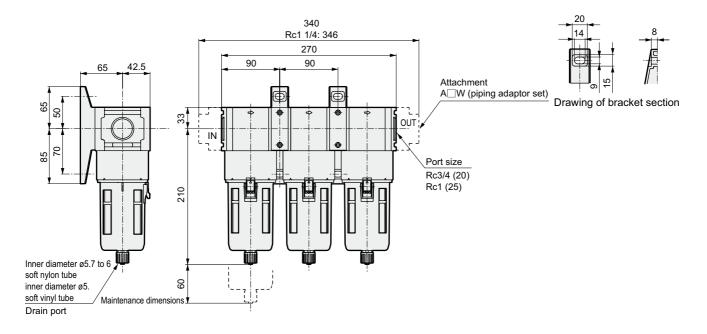


Maintenance dimensions

Refer to page 92 for the dimensions of the metal bowl option filter and page 102 for the oil mist filter.

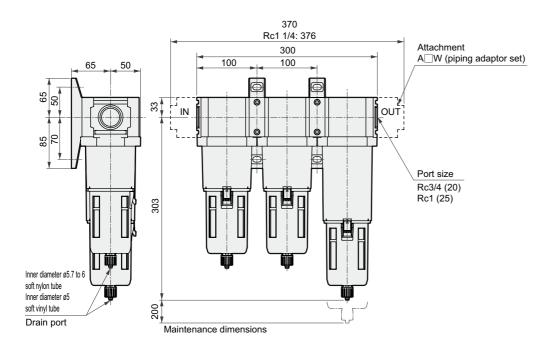
Dimensions

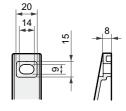
• C6070-W



 Refer to page 92 for the dimensions of the metal bowl option filter and page 102 for the oil mist filter.

• C8070-W





Drawing of bracket section

 Refer to page 92 for the dimensions of the metal bowl option filter and page 102 for the oil mist filter.



Filter · regulator Standard white series

W1000/W2000/W3000/W4000/W8000-W Series

Introducing the 5 μ m dust removing element and 0.3 μ m tar removing element to the lineup Port size: 1/8 to 1





Specifications

Descriptions	W1000-W	W2000-W	W3000-W	W4000-W	W8000-W					
Exterior										
Working fluid	U U U Compressed air									
Max. working pressure MPa			Image: Compressed air							
Withstanding pressure MPa	Image: Market of the system Image: Market of the system <t< td=""></t<>									
Ambient temperature range °C	5 to 60 Note									
Filtration rating µm	!	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	25	45	80	80 Note 1					
Port size Rc, PT,	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)					
Product weight kg	0.175	0.4	0.6	0.9	2					
Standard accessories		Pr	essure gauge, bowl gua	ard	·					

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-W 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 85) for the F1000-W-F1 automatic drain for the maximum working flow. Set the working flow to less than the maximum working flow. Note 3: The automatic drain's minimum operating pressure for "F" with an automatic drain is 0.1 MPa.

Initially generated drainage and air are purged until pressure reaches 0.1 MPa.

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

(Catalog No. CB-033SA)

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

Note 6: W2000-W Series with an automatic drain "F1" must be used below maximum flow rate. (Refer to page 85 F2000-W for weight.)

(Catalog No.CC-947A)

Ozone specifications (Page 185) W*000 - ····· - W - ····· - (P11

Clean specification

Dust generation preventing structure for use in cleanrooms

W*000 - · · · · · · · P7*

Specification for LiB production

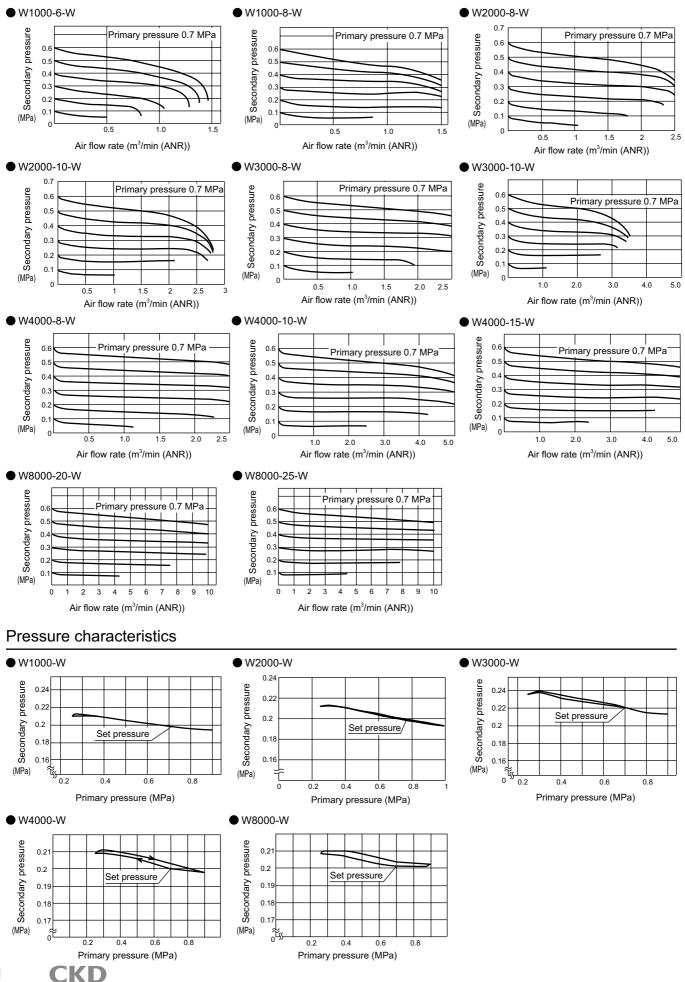
• Specification for LiB manufacturing process

Filter · Regulator Series How to order

				ŀ	lov	v t	o c	ord	
low to order				* Ret	fer page 9 for an explanation		A M	lode	el ne
			of t	he options.	w	w	w	w	
V1000-(6)()- W -(Z	()-()-(A6W)					1	2	3 0	4
	$\downarrow \downarrow \downarrow$	\frown				0	0	0	0
			Syr	nbol	Descriptions	0	0	0	0
			B Port	size					
BPort size				6	1/8	\bullet			
Model no.			-	8	1/4	\bullet	•	ullet	\bullet
			1	0	3/8		\bullet	\bullet	\bullet
			1	5	1/2				ullet
			2	20	3/4				
			2	25	1				
			C Port thread type						Not
OPort thread ty	ype		Bla	ank	Rc thread				•
				N	NPT thread	•			•
				G	G thread	•	•		ullet
L			🖸 Opti	on	·				Not
e	Option ↓		- O opti	Blank	With manual drain cock				
				F	Automatic drain with manual override (NO type)				•
			Drainage		Automatic drain with manual override (NC type)		•		•
			Stanlage	FF	Large exhaust automatic drain with manual override (NO type)				
			Note 3	FF1	Large exhaust automatic drain with manual override (NO type)				
				Blank	Polycarbonate bowl	•	•		
			Bowl	Z	Nylon bowl	•			•
			material	<u> </u>	Metal bowl	Ť			•
				M1	Metal bowl with manual drain cock		•		•
				Blank	5µm	•			•
			Element	Y	0.3µm (submicron) Note 4	-			•
			Pressure		0.05 to 0.85MPa				
			Range	L	0.05 to 0.35MPa Note 5		•		
			runge	Blank	With relief mechanism		•		
			Relief	N	Non-relief type		•		
				Blank	Standard pressure gauge (G401-W)				
				Т	Without pressure gauge (gauge port (Rc1/4) assembled sealed)				
			Pressure	- T8	Pressure gauge attachable (gauge port (Rc1/4) assembled open	_			
G r	Displayed unit		gauge	T6	Compatibility with digital pressure sensor PPX Note 6	,	•		
			R1	Pressure switch with display PPD assembled Note 7	-	-	•	•	
	Piping adaptor set		Flow	Blank	Standard flow (left to right)	•	•	•	•
(included)		Direction	X1	Reverse flow (right to left)	•	•	•	•	
	. ,		G Disr	layed un	1				
	G At	ttachment		ank	MPa display, Rc thread				
	-			1	MPa display, NPT, G thread				
					or set (included) Note 8, 9	_		55	to
				ank	Not attached	•	₽		•
				*W	1/8 piping adaptor set	•	-		-
Cautions for model N	lo, selection			*W	1/4 piping adaptor set		•		•
				0*W	3/8 piping adaptor set	•	l T		•
e 1: G threads and NPT threads are	,	, 0 0		5*W	1/2 piping adaptor set		₽		•
port and drain discharge port (met		,		0*W	3/4 piping adaptor set				•
Note 2: Select options per drainage, bowl material, element, and				5*W	1 piping adaptor set				
regulator sections. When selecting options for sever	eral items, list option	ns in order		2*W	1 1/4 piping adaptor set				
from the top.				or thread					-
lote 3: Refer to page 12 for working conditions of the automatic drain.			ank	Rc thread		l.			
lote 4: Refer to page 87 for max. flow rate of option "Y".				N 2	NPT thread				
ote 5: Pressure gauge display range will be 0 to 0.4 MPa for option "L". ote 6: When option "T6" is selected, only "blank" or "R2" is selected for		<u> </u>	G	G thread		╘		-	
e b: when option "The is selected only		selected for	G Atta	chment	Note	10 F	Pag	e 15	2,
the (G) pressure gauge (enclosed	y "blank" or "R2" is s			nuk	Not attached		\bullet	\bullet	•
the (G) pressure gauge (enclosed PPX mounting port (Rc1/8) is asse	y "blank" or "R2" is s d). The digital press embled ventilated.	ure sensor	Bla				· -		
the (G) pressure gauge (enclosed PPX mounting port (Rc1/8) is asse e 7: Out put type will be NPN transist	y "blank" or "R2" is s d). The digital press embled ventilated. tor output. Consult v	ure sensor	В	w	C type bracket			Ē	·
the (G) pressure gauge (enclosed PPX mounting port (Rc1/8) is asse te 7: Out put type will be NPN transist PNP transistor output is required.	y "blank" or "R2" is s d). The digital press embled ventilated. tor output. Consult v	ure sensor with CKD if	В			•	•	•	•
the (G) pressure gauge (enclosed PPX mounting port (Rc1/8) is asse te 7: Out put type will be NPN transist PNP transistor output is required. te 8: Piping adapter set and C bracket of	y "blank" or "R2" is s d). The digital press embled ventilated. tor output. Consult v cannot be used toge	ure sensor with CKD if	B3W G4	W Note 7 I5P	C type bracket	•	•	•	•
the (G) pressure gauge (enclosed PPX mounting port (Rc1/8) is asset te 7: Out put type will be NPN transist PNP transistor output is required. te 8: Piping adapter set and C bracket of te 9: A joiner set is attached with the pip	y "blank" or "R2" is s d). The digital press embled ventilated. tor output. Consult v cannot be used toge ping adapter set.	ure sensor vith CKD if ether.	B3W G4	W Note 7	C type bracket L type bracket Note 11 G45D-8-P10 (L: G45D-8-P04) G49D-8-P10 (L: G49D-8-P04)	-	• • •	•	•
the (G) pressure gauge (enclosed PPX mounting port (Rc1/8) is asset te 7: Out put type will be NPN transist PNP transistor output is required. te 8: Piping adapter set and C bracket of te 9: A joiner set is attached with the pip	y "blank" or "R2" is s d). The digital press embled ventilated. tor output. Consult v cannot be used toge ping adapter set. " piping thread typ	ure sensor with CKD if other. pe, a NPT	B3W G4 G4	W Note 7 I5P	C type bracket L type bracket Note 11 G45D-8-P10 (L: G45D-8-P04)	-	• • • •	•	•
the (G) pressure gauge (enclosed PPX mounting port (Rc1/8) is asset te 7: Out put type will be NPN transist PNP transistor output is required. te 8: Piping adapter set and C bracket of te 9: A joiner set is attached with the pip te 10: If NPT is selected for the "C" pressure gauge is enclosed. If R thread pressure gauge is enclosed	y "blank" or "R2" is s d). The digital press embled ventilated. tor output. Consult v cannot be used toge ping adapter set. " piping thread typ c or G thread is sele ed.	ure sensor with CKD if other. De, a NPT ected, an R	B B3W G4 G4 G5	W Note 7 ISP I9P	C type bracket L type bracket Note 11 G45D-8-P10 (L: G45D-8-P04) G49D-8-P10 (L: G49D-8-P04)	•	• • • • •		
the (G) pressure gauge (enclosed PPX mounting port (Rc1/8) is asse- te 7: Out put type will be NPN transist PNP transistor output is required. te 8: Piping adapter set and C bracket of te 9: A joiner set is attached with the pip te 10: If NPT is selected for the "C' pressure gauge is enclosed. If R thread pressure gauge is enclosed to 11: Refer to Section (2. Regulator)	y "blank" or "R2" is s d). The digital press embled ventilated. tor output. Consult v cannot be used toge ping adapter set. " piping thread typ cor G thread is sele ed.), in "APRECAUT	ure sensor with CKD if other. Dee, a NPT ected, an R	B3W G4 G4 G5 G5 G4	W Note 7 ISP I9P I9P	C type bracket L type bracket Note 11 G45D-8-P10 (L: G45D-8-P04) G49D-8-P10 (L: G49D-8-P04) G59D-8-P10 (L: G59D-8-P04) G59D-8-P10 (L: G59D-8-P04)	•	• • • • • • •		
the (G) pressure gauge (enclosed PPX mounting port (Rc1/8) is asse- te 7: Out put type will be NPN transist PNP transistor output is required. te 8: Piping adapter set and C bracket of te 9: A joiner set is attached with the pip te 10: If NPT is selected for the "C' pressure gauge is enclosed. If R thread pressure gauge is enclosed to 11: Refer to Section (2. Regulator Installation and Adjustment" (page	y "blank" or "R2" is s d). The digital press embled ventilated. tor output. Consult v cannot be used toge ping adapter set. " piping thread typ cor G thread is sele ed.), in "APRECAUT	ure sensor with CKD if other. Dee, a NPT ected, an R	B B3W G4 G4 G4 G4 G4 G4	W Note 7 ISP I9P I9P I0P I0P I0P I1P	C type bracket L type bracket Note 11 G45D-8-P10 (L: G45D-8-P04) G49D-8-P10 (L: G49D-8-P04) G59D-8-P10 (L: G59D-8-P04) G40D-8-P10 (L: G40D-8-P04)	 • • • • • • • 			
the (G) pressure gauge (enclosed PPX mounting port (Rc1/8) is asset te 7: Out put type will be NPN transist PNP transistor output is required. te 8: Piping adapter set and C bracket of te 9: A joiner set is attached with the pip te 10: If NPT is selected for the "C' pressure gauge is enclosed. If R thread pressure gauge is enclosed to 11: Refer to Section (2. Regulator)	y "blank" or "R2" is s d). The digital press embled ventilated. tor output. Consult v cannot be used toge ping adapter set. " piping thread typ cor G thread is sele ed.), in "APRECAUT	ure sensor with CKD if other. Dee, a NPT ected, an R	B B3W G4 G4 G4 G4 G4 G4	W Note 7 ISP I9P I9P I0P I0P	C type bracket L type bracket Note 11 G45D-8-P10 (L: G45D-8-P04) G49D-8-P10 (L: G49D-8-P04) G49D-8-P10 (L: G59D-8-P04) G40D-8-P10 (L: G59D-8-P04) G40D-8-P10 (L: G40D-8-P04) G50D-8-P10 (L: G50D-8-P04)	 • •<			

Filter · Regulator Series

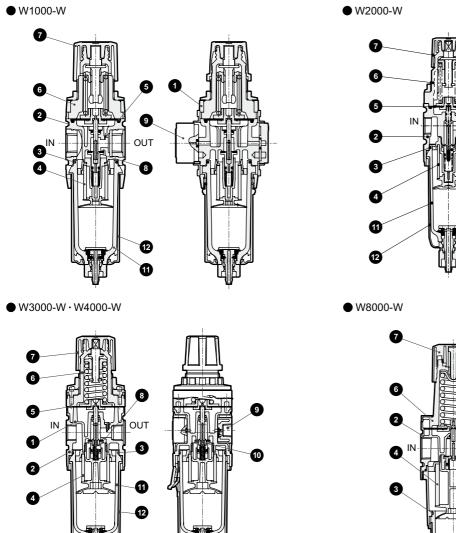
Flow characteristics

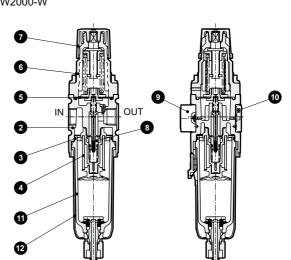


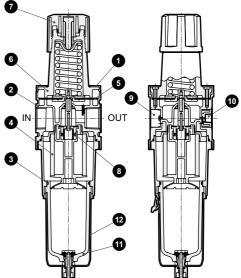
71

Internal structure and parts list

Internal structure and parts list



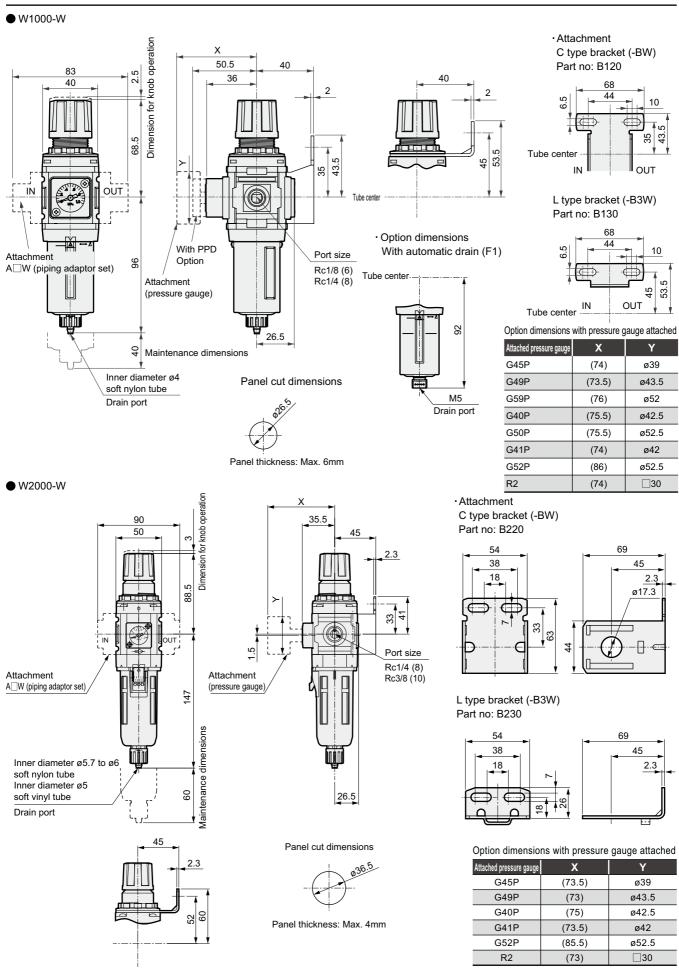




No.	Part name				Material			
NO.	Fait liallie		W1000-W	W2000-W	W3000-W	W4000-W	W8000-W	
1	Plate cover		ABS resin	-		ABS resin		
2	Body		Polyamide resin, steel	Iyamide resin, steel Aluminum alloy die-casting				
3	O-ring	Note 2		Special nitrile rubber				
4	Element	Note 1	Polyacetal resin polypropylene	etal resin polypropylene Polypropylene				
5	Diaphragm assembly		Polyacetal resin polypropylene	cetal resin polypropylene Polyacetal resin nitrile rubber Zinc alloy die-casting nitrile rubber				
6	Cover		Polyamide resin	lyamide resin PBT Resin Aluminum alloy die-				
7	Knob				Polyacetal resin			
8	Valve assembly		Brass, hydro	ogenated nitrle rubber	(polyacetal resin: W20	000-W, W3000-W, W	4000-W only)	
9	Pressure gauge assembly		PBT	resin, polyacetal resin	, polycarbonate resin	nitrile rubber, brass	steel	
10	Gauge plug assembly			-	Poly	/acetal resin nitrile ru	ibber	
10	Blanking plug assembly		PBT resin, nitr	PBT resin, nitrile rubber, steel -				
11	Bowl assembly			Polycarbonate resin, polyacetal resin, urethane resin				
12	Bowl guard		Polyamide resin		Polyami	de resin		

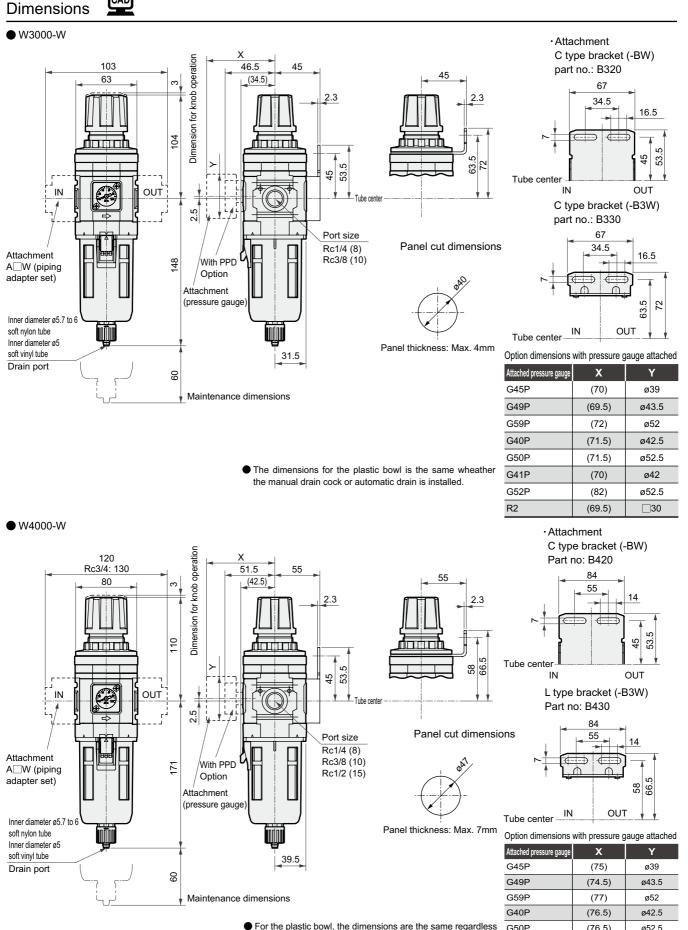
Note 1: W1000-W is an element assembly. Note 2: The W1000-W O ring has a special shape.

Dimensions CAD



73 **CKD**

Dimensions



CAD

• For the plastic bowl, the dimensions are the same regardless of whether the manual cock or with automatic drain.

ø42

ø52.5

30

(76.5)

(75)

(86)

(75)

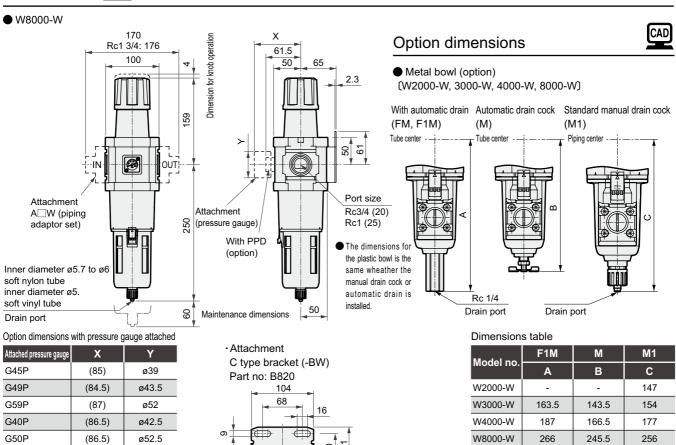
G41P

G52P

R2

74





50 6

ŌŪ

Tube center

IN

266

245.5

256

G50P

G41P

G52P

R2

(86.5)

(85)

(98)

(85)

ø52.5

ø42

ø52.5

□30

MEMO



Reverse filter regulator Standard white series

W1100/W2100/W3100/W4100/W8100-W Series

Introducing the 5 µm dust removing element and 0.3 µm tar removing element, with back flow function, to the lineup





Specifications

opeointeatione					
Descriptions	W1100-W	W2100-W	W3100-W	W4100-W	W8100-W
Exterior					
Working fluid			Compressed air		
Max. working pressure MPa			1.0 Note 4,	5, 6	
Withstanding pressure MPa			1.5 Note 6		
Ambient temperature range °C			5 to 60 Note 7		
Filtration rating µm	Ę	5		5 or 0.3	
Set pressure range (Note 2) MPa	0.05 to 0.85 Note 4		0.05 te	0.85	
Relief			With relief mechanism		
Drain capacity cm ³	12	25	45	80	80 Note 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 (3/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)
Product weight kg	0.175	0.4	0.6	0.9	2
Standard accessories		Pr	essure gauge, bowl gua	Ird	

Note 1: Check that the primary pressure is at least 0.05 MPa or more than the secondary pressure.

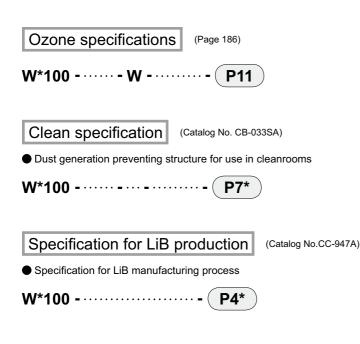
Note 2: Refer to the set pressure range for the back pressure given on page 79 when selecting the model.

Note 3: Drainage accumulates up to 170 cm³ only with the manual drain cock.

Note 4: The automatic drain's minimum operating pressure for "F" with an automatic drain is 0.1 MPa. Initially generated drainage and air are purged until pressure reaches 0.1 MPa. Note 5: The automatic drain's minimum operating pressure for "F1" with an automatic drain is 0.15 MPa.

Note 6: When "F1" with an automatic drain is selected for the W1100-W 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 85) for the F1000-F1 automatic drain for the maximum working flow. Set the working flow to less than the maximum working flow. Note 7: The working temperature range of the pressure switch with indicator PPD assembly "R1" is 5 to 50°C.

Note 8: W2000-W Series with an automatic drain "F1" must be used below maximum flow rate. (Refer to page 85 F2000-W for weight.)

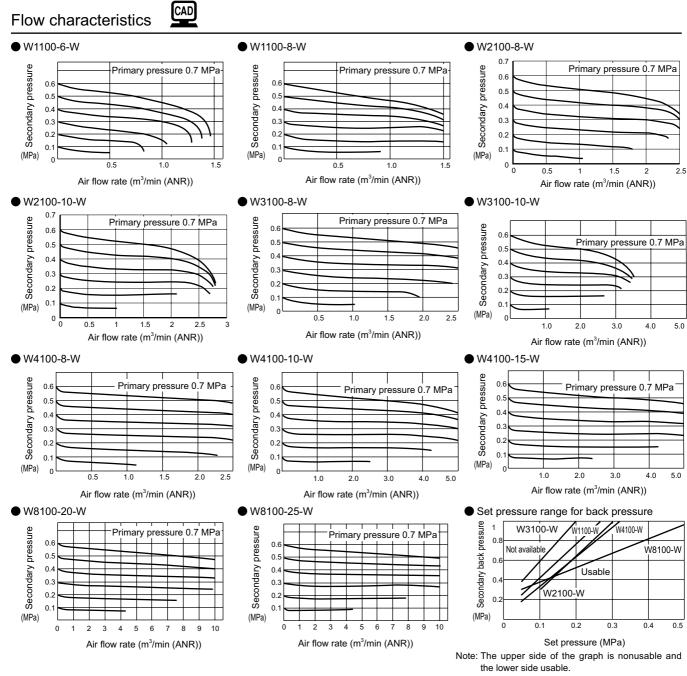


How to order					
W1100-6 - W - (2	z A6	SW ()		•	-
			Syn	nbol	De
			B Port	size	
AModel no. BPort size			e	;	1/8
			8	5	1/4
			1	0	3/8
			1	5	1/2
Port thread ty	pe		-	-	Ĩ
				;	G thread
		I I	D Optio	on	
	Option			Blank	With manual drair
				F	Automatic drain with
			Drainage	F1	Automatic drain with
			Ů	FF	
			Note 4	FF1	-
					-
			Bowl		
		Image: state of the state			
			material		-
W1100 6 - W - Z - •Model no. •Port size •Port thread type •Port thread type •Port thread type •Opp •Port thread type •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp •Opp </td <td></td> <td></td> <td></td> <td></td> <td></td>					
			Element		-
			Broccuro		
	Image: Size Image: Size				
			Relief		
			Pressure		
			gauge		
			5	Т6	
	Displayed unit			R1	
			Flow	Blank	Standard flow (lef
			Direction	X1	Reverse flow (righ
			🕒 Disp	layed uni	it
			Bla	nk	MPa display, Rc t
	,	, I	J	1	
		G Attachment	B Dinir	a odonta	r oot (included)
	a a la atlana				
A Cautions for model No	. selection				
Note 1: G threads and NPT threads are as	vailable for IN OUT				
regulator sections.					
	items, list options	in order			
W1100 - 6 - W - (Model no. Port size Port size Port thread t Port thread t Port thread t Note 1: G threads and NPT threads are port and drain discharge port (meta Note 2: Select options per drainage, b regulator sections. When selecting options for sever from the top. Note 3: Position of the check valve and changed. If the reverse direction of IN and "X1" in the end of optional section Note 4: Refer to page 12 for working condin Note 5: Refer to page 87 for max. flow rate	oressure gauge car	I NOT DE			
-	OUT are required	indicate	-		
	•		Bla	nk	
•		drain.	N	1	NPT thread
				•	G thread
Note 6: Pressure gauge display range will be	e 0 to 0.4 MPa for op	tion "L".	G Atta	chment	

- Note 7: When option "T6" is selected, only "blank" or "R2" is selected for the (G) pressure gauge (enclosed). The digital pressure sensor
- PPX mounting port (Rc1/8) is assembled ventilated. Note 8: Output type will be NPN transistor output. Consult with CKD if PNP transistor output is required.
- Note 9: The piping adapter set and C bracket cannot be used together.
- Note 10: A joiner set is attached with the piping adapter set.
- Note 11: If NPT is selected for the "C" piping thread type, a NPT pressure gauge is enclosed. If Rc or G thread is selected, an R thread pressure gauge is enclosed.
- Note 12: Refer to Section (2. Regulator), in " APRECAUTIONS For Installation and Adjustment" (page 15) for details on mounting the L-type bracket.

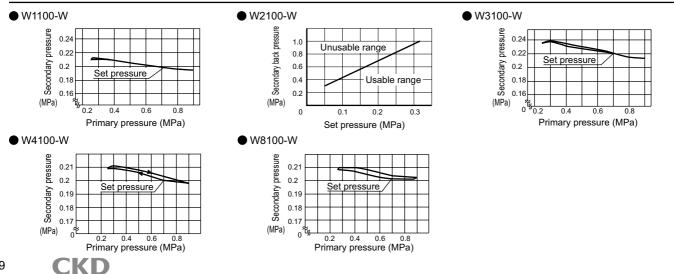
		H	ov	v t	0 0	ord	ler
				A) M	ode	d no	
			w	w	W	w	». W
*	Refer p	age 9 for an explanation	1	2	3	4	8
	of the op	otions.	1 0	1 0	1 0	1 0	1
Syn		Descriptions	0	0	0	0	0
B Port		1/8					
6	-	1/8					
1		3/8	-	•	•	•	
1	5	1/2		-	-	•	
2	0	3/4					\bullet
2	5	1					ullet
C Port	thread ty	ре				Note	e 1
Bla	ink	Rc thread	ullet	٠	٠	٠	\bullet
N	1	NPT thread	٠	٠	•	•	\bullet
0	•	G thread	•	•	•	•	\bullet
D Opti	on		Ν	lote	2, I	Not	e 3
	Blank	With manual drain cock	•	•	•	•	ullet
	F	Automatic drain with manual override (NO type)		•	•	•	
Drainage	F1	Automatic drain with manual override (NC type)	•		•	•	
Note 4	FF FF1	Large exhaust automatic drain with manual override (NO type)					
	Blank	Large exhaust automatic drain with manual override (NO type) Polycarbonate bowl		•	•	•	
Bowl	Z	Nylon bowl	•	•	•	•	
material	M	Metal bowl			•	•	\bullet
	M1	Metal bowl with manual drain cock		•	•	•	\bullet
Element	Blank	5µm	ullet	ullet	•	۲	ullet
Element	Y	0.3µm (submicron) Note 5			•	•	\bullet
Pressure	Blank	0.05 to 0.85MPa	•	•	•	•	\bullet
Range	L	0.05 to 0.35MPa Note 6	•	•	•	•	•
Relief	Blank	With relief mechanism	•	•	•	•	•
	N Blank	Non-relief type	•	•	-	•	
	Т	Standard pressure gauge (G401-W) Without pressure gauge (gauge port (Rc1/4) assembled sealed)	•	•	-	-	
Pressure	т8	Pressure gauge attachable (gauge port (Rc1/4) assembled seared)	•	•	•	•	•
gauge	T6	Compatibility with digital pressure sensor PPX Note 7	•	•	•	•	•
	R1	Pressure switch with display PPD assembled Note 8	•		•	•	\bullet
Flow	Blank	Standard flow (left to right)	ullet	۰	•	•	ullet
Direction	X1	Reverse flow (right to left)	•	•	•	•	ullet
🕒 Disp	layed uni	t					
Bla	ink	MPa display, Rc thread	٠	٠	•	•	\bullet
J	1	MPa display, NPT, G thread	•	•	•	•	\bullet
🕞 Pipir	ng adapto	r set (included) Note 9, 10	pag	es 1	55	to 1	57
Bla		Not attached	•	•	•	•	\bullet
A6		1/8 piping adaptor set	•			_	
A8		1/4 piping adaptor set			•	•	
A10		3/8 piping adaptor set	•	•	•	•	
A1: A20		1/2 piping adaptor set 3/4 piping adaptor set		-	-	•	
A20		1 piping adaptor set				-	
A32		1 1/4 piping adaptor set					\bullet
* Adapt	or thread						
Bla	ink	Rc thread	\bullet	\bullet	•	•	\bullet
Ν		NPT thread	•	•	•	•	\bullet
	}	G thread	•	•	•	•	\bullet
G Atta	chment	Note	11 F	Page	ə 15	2, 1	98
Bla		Not attached	•	٠	•	•	\bullet
B		C type bracket	•	•	•	•	\bullet
B3W N		L type bracket	•		•	•	
G4		G45D-8-P10 (L: G45D-8-P04)		•	•	•	
G4		G49D-8-P10 (L: G49D-8-P04)	•	•	•	•	
G5 G4		G59D-8-P10 (L: G59D-8-P04) G40D-8-P10 (L: G40D-8-P04)	•		-	-	
G4 G5		G50D-8-P10 (L: G50D-8-P04)	•		•	•	
G4		G41D-8-P10 (L: G41D-8-P04)	•	•	•	•	•
G5		G52D-8-P10 (L: G52D-8-P10)	•	•	•	•	\bullet
R2 N	ote 6	Digital pressure sensor: PPX-R10N-6M	•	•	•	•	\bullet

KD



Example: If W4100-W is set to set pressure 0.2 MPa and the secondary back pressure is 0.6 MPa or more, the secondary pressure will not be released to the primary side.

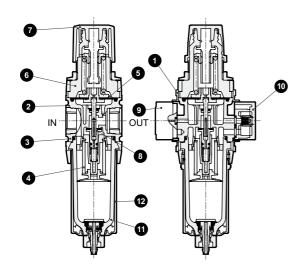
Pressure characteristics



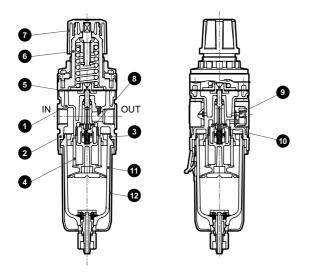
Internal structure and parts list

Internal structure and parts list





• W3100-W, W4100-W



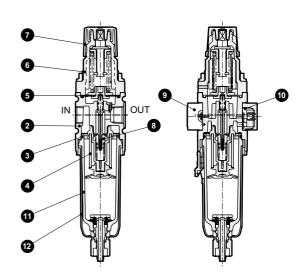
No.	Part name			Material				
NO.	Part name	W1100-W	W2100-W	W3100-W	W4100-W	W8100-W		
1	Plate cover	ABS resin	-	ABS resin				
2	Body	Polyamide resin, steel	olyamide resin, steel Aluminum alloy die-casting					
3	O-ring Note 2		Spec	cial nitrile ru	ıbber			
4	Element Note 1	Polyacetal resin Polypropylene						
5	Diaphragm assembly	Polyacetal resin Nitrile rubber Zinc alloy die-casting nitrile rubbe						
6	Cover	Polyamide resin		PBT Resin		Aluminum alloy die-casting		
7	Knob		Po	olyacetal re	sin			
8	Valve assembly	Brass, hydrogena	ited nitrle rubber (p	oolyacetal resin: W	2100-W, W3100-V	V, W4100-W only)		
9	Pressure gauge assembly	PBT resin, pol	yacetal resin, p	olycarbonate re	sin, nitrile rubb	er, brass, steel		
10	Check valve full assembly	PBT res	in, nitrile ru	bber, stainl	ess steel w	ire, steel		
11	Bowl assembly	Polycarbo	Polycarbonate resin, polyacetal resin, urethane resin					
12	Bowl guard	Polyamide resin		Polyamide	resin, steel			

Note 1: W1100-W is an element assembly.

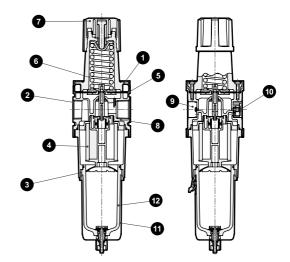
Note 2: The W1100-W O ring has a special shape.

Note 3: Refer to page 84 for repair parts kit model no.

• W2100-W



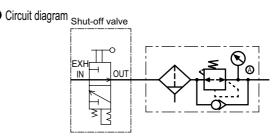
• W8100-W



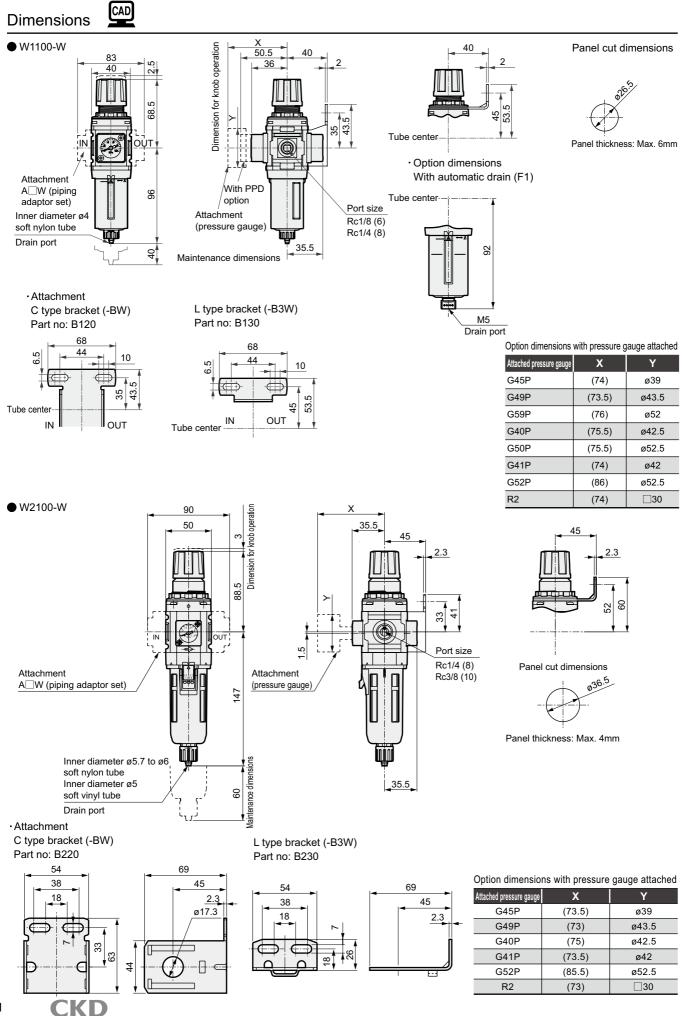
Functional explanation

When the primary pressure is introduced from the IN side, the check valve functions as a regular regulator because it closes with primary pressure and spring load. When primary pressure is released by a changeover valve such as a shut-off valve, the check valve opens with secondary pressure. Pressure in the diaphragm chamber is released and pressure drops. This causes the diaphragm to be pressed down by the pressure adjustment spring. The main valve (valve assembly) opens, and the air on the OUT side is discharged.

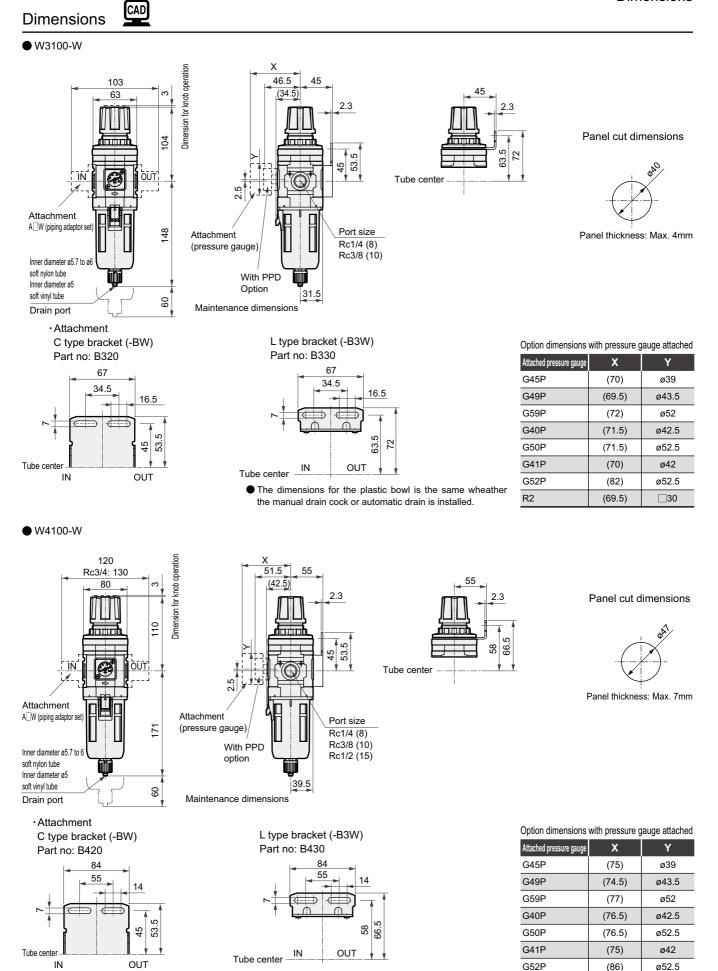
Note: Set back pressure A for when the primary pressure is released within the range in the graph for the regulator's set pressure. (Refer to page 79 for graph)



When using a shut-off valve before the reverse filter and regulator.



Dimensions



The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.

R2

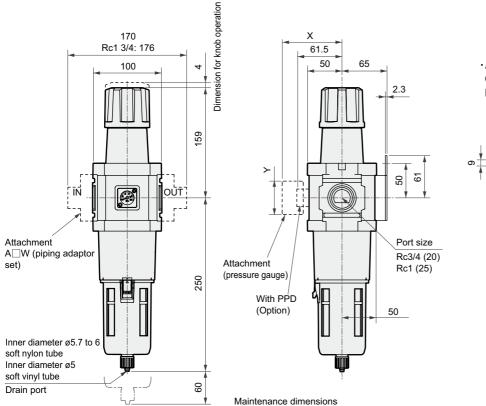
(75)

82

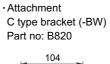
□30

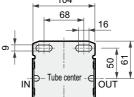
Dimensions

• W8100-W



 The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.

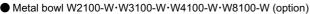


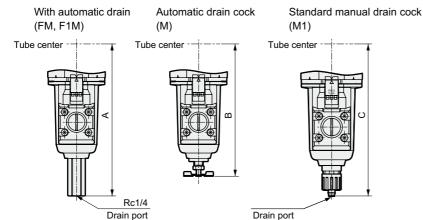


Option dimensions	with pressure g	auge attached
Attached pressure gauge	X	Y
G45P	(85)	ø39
G49P	(84.5)	ø43.5
G59P	(87)	ø52
G40P	(86.5)	ø42.5
G50P	(86.5)	ø52.5
G41P	(85)	ø42
G52P	(98)	ø52.5
R2	(85)	□30

Option dimensions

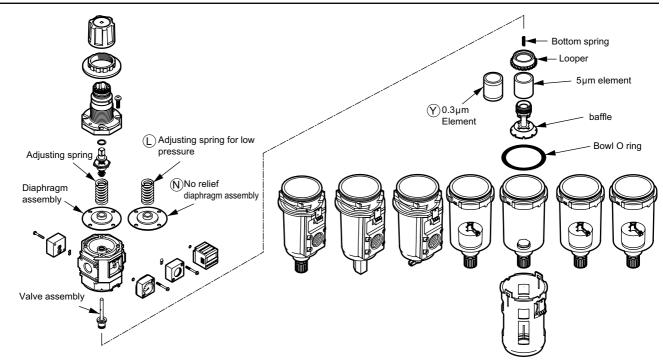






Dimens	sions ta	ble	
Model no.	F1M	М	M1
model no.	Α	В	С
W2100-W	-	-	147
W3100-W	163.5	143.5	154
W4100-W	187	166.5	177
W8100-W	266	245 5	256

Option, parts dimensions



Repair parts kit (Set consisting of diaphragm assembly, valve assembly, bottom spring, louver, element, baffle, bowl O ring)

Repair kit model no. Model	Relief type diaphragm 5µm element (blank)	No relief type diaphragm 5µm element (N)	Relief type diaphragm 0.3µm element (Y)	No relief type diaphragm 0.3µm element (NY)
W1000-W, W1100-W	W1000-KIT	W1000-KIT-N	—	—
W2000-W, W2100-W	W2000-KIT	W2000-KIT-N	—	_
W3000-W, W3100-W	W3000-KIT	W3000-KIT-N	W3000-KIT-Y	W3000-KIT-NY
W4000-W, W4100-W	W4000-KIT	W4000-KIT-N	W4000-KIT-Y	W4000-KIT-NY
W8000-W, W8100-W	W8000-KIT	W8000-KIT-N	W8000-KIT-Y	W8000-KIT-NY

Note: With the W1000-W and W1100-W, the element and baffle are assembly parts, and the louver is assembled onto the body. These parts are excluded from consumables.

Valve assembly (valve assembly and bottom spring set)

Model	Valve assembly model no.
W1000-W, W1100-W	W1000-VALVE-ASSY
W2000-W, W2100-W	W2000-VALVE-ASSY
W3000-W, W3100-W	W3000-VALVE-ASSY
W4000-W, W4100-W	W4000-VALVE-ASSY
W8000-W, W8100-W	W8000-VALVE-ASSY

* Refer to option, parts list on page 128 for adjusting spring, diaphragm and gauge plug assembly.

Refer to air filter options and parts table (pages 93 to 94) for details on the element, bowl assembly, and bowl guard.

CKD



Air filter standard white series F1000/F2000/F3000 F4000/F6000/F8000-W Series

Introducing the 5 µm element for dust removal and 0.3 µm element for tar removal 0.3 µm element series (excluding F1000 Series) port size: 1/8 to 1





Specifications

opeomodiona						
Descriptions	F1000-W	F2000-W	F3000-W	F4000-W	F6000-W	F8000-W
Exterior		F				
Working fluid			Compre	essed air		
Max. working pressure MPa			1	.0 Note 2, 3, 4		
Withstanding pressure MPa			1	.5 Note 2		
Ambient temperature range °C			5 to	o 60		
Filtration rating µm	Ę	5		5 or	0.3	
Drain capacity cm ³	12	25	45	80	80	80 Note 1
Working fluid Max. working pressure MP Withstanding pressure MP Ambient temperature range °C Filtration rating µr Drain capacity cm Port size Rc, NPT, C	1/8, 1/4 (3/8 uses an adaptor)	1/4, (1/2 uses a	3/8 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)
		0.24	0.25	0.45	0.9	1.16
Standard accessories			Bowl	guard		

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

Note 2: When using F1000-W series "F1" with an automatic drain, the minimum operating pressure is 0.2 MPa and maximum operation pressure is 0.7 MPa. Refer to the maximum working flow table (page 87) for F1000-W-F1 with an automatic drain for details on maximum working flow. Set the working flow to less than the maximum working flow. Note 3: The automatic drain's minimum operating pressure for "F" with an automatic drain is 0.1 MPa. Initially generated drainage and air are purged until pressure reaches 0.1 MPa.

(m³/min (ANR))

(Catalog No.CC-947A)

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

Clean specification (Catalog No. CB-033SA)

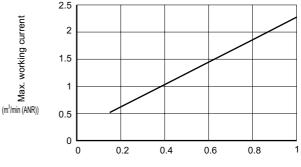
Dust generation preventing structure for use in cleanrooms

Specification for LiB production

Specification for LiB manufacturing process

F*000 - · · · · · · · · · · · (P4*

● F2000-W-F1with automatic drain max. working flow



Primary pressure (MPa)

● F1000-W-F1with automatic drain max. working flow

Primary pressure (MPa) Port size	0.2	0.3	0.4	0.5	0.6	0.7
6	0.185	0.250	0.310	0.375	0.435	0.500
8	0.225	0.300	0.375	0.450	0.525	0.600

Automation Image: State of the set of the		Q00-6 -W-ZA6W del no. @Port size @Port thread type @Option @Port thread type @Option @Displayed unit @Displayed unit @Piping a (include @Include 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. Select the option from drain exhaust, bowl material and differential pressure detection.						<u>/ ((</u>			o or		
F1000-6 - W - Z 66W * Refer page 9 for an explanation of the options. Wodel no. Port size 6 18 6 18 0<	How to order						_						
F1000 - 6 - W - Z 66W 1 2 3 4 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		_	~ ~	\ _						1		_	-
• Ordel no. • Ordel size • Symbol Descriptions • O • O • O	(F1000)-(6)()- W -(2	Z)-()-(A6V	V)()		•	•	1	2	3	4 6	5 8
Counterport size Port		Ť	ſΪ	Τ	\neg				0	0	0 0	D O) 0
OModel no. Prot size 6 1/9 8 1/4 10 3/8 11 15 1/2 20 3/4 23 1 9 Port thread type Note 9 Port thread type 9 Port thread 10 0 9 Port thread						Syn	nbol	Descriptions	0	0	0	<u>ر</u>	0 0
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 10 3/8 10 3/8 112 20 3/4 25 1 20 /ul>	Model no.						6	1/8	\bullet				
Port thread type Port thread type Port thread type Port thread type Port thread type Port thread type						8	3	1/4	\bullet	•	•		
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Cautions for model No. selection Wet 1: When G threads or NPT threads are selected, thre Not Spip adaptor set (notuded) (1	5	1/2					
						2	0	3/4					
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Port thread type Blank Rc thread Rc threa				I		C Por	t thread	type				No	te
Cautions for model No. selection (included) (included		OPort thread									•		•
• Option						1	1	NPT thread		\bullet	•		
• Option						- C	3			•	•		
Born better best best best best best best best best			rt thread type				ion					No	to 1
Cautions for model No. selection. When a selected, the NA OUT, gauge port, and drainage discharge port (metal bowl automatic drain with marked overde (NC type) F1 Automatic drain with marked overde (NC type) Blank Net attached F1 Automatic drain with marked overde (NC type) Blank Standard flow (left to right) F1 Automatic drain with marked overde (NC type) F1 Automatic drain with marked overde (NC type) Blank MPa display, Rc thread F1 Automatic drain with marked overde (NC type) Blank Not attached F1 Automatic drain with marked overde (NC type) Blank Not attached F1 Automatic drain with marked overde (NC type) F2 Automatic drain with marked overde (NC type) F1 Automatic drain with marked overde (NC type) F2 Automatic drain with marked overde (NC type) F1 Automatic drain with marked overde (NC type) F2 Automatic				n		Opt		With manual drain cock					
Cautions for model No. selection tens, ist options for set ends. bowl material of the set of th													
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						Note 3			\vdash			+	\pm
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Internal pressure detection port Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) Image: Standard flow (left to right) <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Element</td><td></td><td>•</td><td>\blacksquare</td><td></td><td></td><td></td><td>4</td></td<>						Element		•	\blacksquare				4
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Flow Blank Standard flow (left to right) •													+
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A6*W 1/8 piping adaptor set A6*W 1/4 piping adaptor set A8*W 1/4 piping adaptor set A10*W 3/8 piping adaptor set A15*W 1/2 piping adaptor set A20*W 3/4 piping adaptor set A20*W 3/4 piping adaptor set A20*W 1/4 piping adaptor set A32*W 1 1/4 piping adaptor set A32*W 1 1/4 piping adaptor set Blank Rc thread N NPT thread N NPT thread M M N N N N M M						Bla	ink	Not attached	\bullet	•	•) (
A10*W 3/8 piping adaptor set Image: Constraint of the set of						A6	*W	1/8 piping adaptor set	\bullet				
A15*W 1/2 piping adaptor set A15*W 1/2 piping adaptor set A20*W 3/4 piping adaptor set A20*W 1 piping adaptor set A32*W 1 piping adaptor set Blank Rc thread Wen selecting options for several items, list options in order from the top. M N NPT thread G G thread						A8	*W	1/4 piping adaptor set	\bullet	•	•		
A Cautions for model No. selection A 20*W 3/4 piping adaptor set Indet 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. Indet 2: Select the option from drain exhaust, bowl material and differential pressure detection. When selecting options for several items, list options in order from the top. N NPT thread G G thread						A10)*W	3/8 piping adaptor set	\bullet	ullet	•		
A20*W 3/4 piping adaptor set A20*W 3/4 piping adaptor set A25*W 1 piping adaptor set A32*W 1 1/4 piping adaptor set Blank Rc thread When selecting options for several items, list options in order from the top. Image: select of the selection of the selecti	A Coutions fo			otion		A15	5*W	1/2 piping adaptor set		ullet	•		
the IN, OUT, gauge port, and drainage discharge port (metal bowl automatic drain) are the target, as are attachments P and V. Iote 2: Select the option from drain exhaust, bowl material and differential pressure detection. When selecting options for several items, list options in order from the top. $M = \frac{1}{4}			J. SEIE			A20)*W	3/4 piping adaptor set)
port (metal bowl automatic drain) are the target, as are attachments P and V. Note 2: Select the option from drain exhaust, bowl material and differential pressure detection. When selecting options for several items, list options in order from the top. Note 2: Select the option from drain exhaust, bowl material and differential pressure detection. When selecting options for several items, list options in order from the top.				,		A25	5*W	1 piping adaptor set)
as are attachments P and V. Note 2: Select the option from drain exhaust, bowl material and differential pressure detection. When selecting options for several items, list options in order from the top. * Adaptor thread type Blank Rc thread N NPT thread G G thread • • • • • • • • • • • • • • • • • • •		•	•	•		A32	2*W	1 1/4 piping adaptor set)
material and differential pressure detection.NNPT threadImage: Constrained of the second sec				, largel,		* Adap	tor threa	ad type					
When selecting options for several items, list options in order from the top. N NPT thread Image: Constraint option optin option opting optin option option option option opting option o						Bla	ink	Rc thread	\bullet	•	•)
options in order from the top. G G thread		•				1	1	NPT thread	\bullet	•	•		
	options in order	from the top.				(3	G thread	\bullet	•	•)

G Bracket (attached)

Not attached

C type bracket

Blank

BW

GBracket

(attached)

- Note 3: Refer to page 12 for working conditions of the automatic drain.
- Note 4: The piping adapter set and C bracket cannot be used together.
- Note 5: A joiner set is attached with the piping adapter set.

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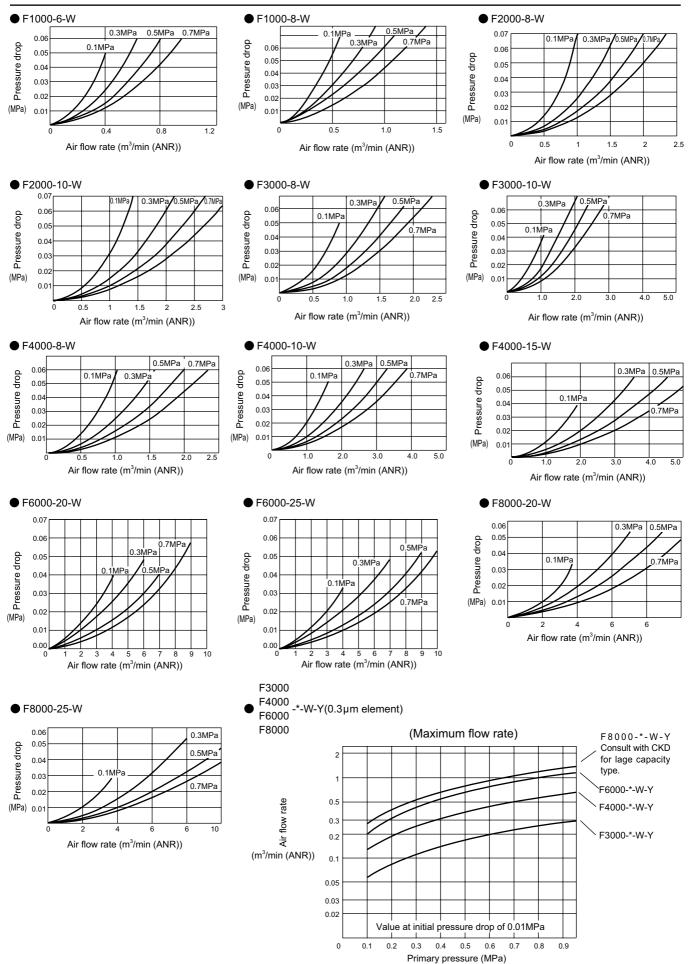
Page 152

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Air Filter Series

Air Filter Series

Flow characteristics

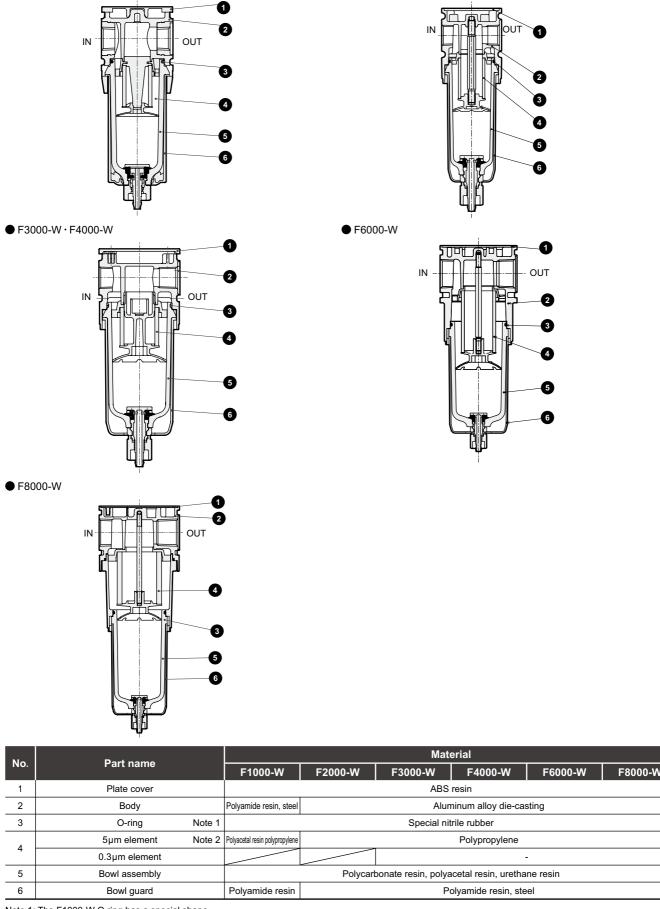


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Internal structure and parts list

• F1000-W



• F2000-W

Note 1: The F1000-W O ring has a special shape.

Note 2: F1000-W is an element assembly.

Note 3: Refer to page 93 for comsumable parts kits.

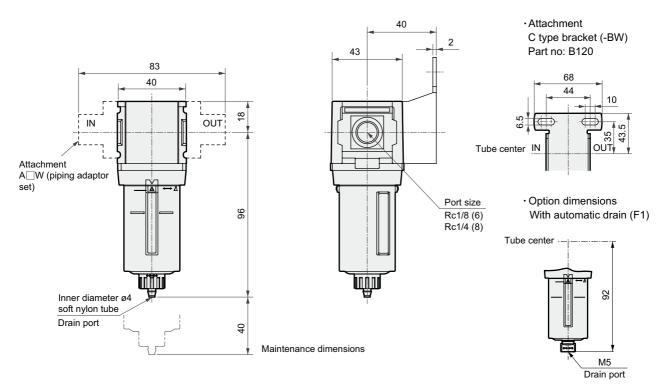
88

Air Filter Series

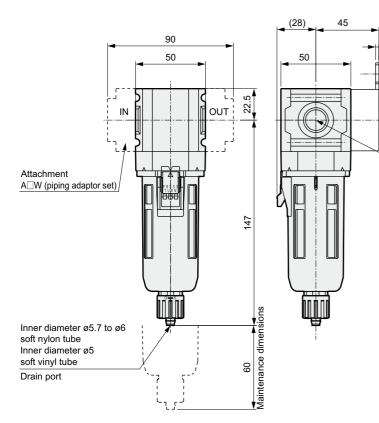
CAD

Dimensions

• F1000-W



• F2000-W

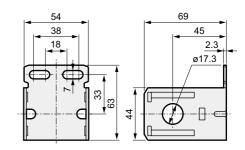


• Attachment C type bracket (-BW) Part no: B220

2.3

Port size Rc1/4 (8) Rc3/8 (10)

41

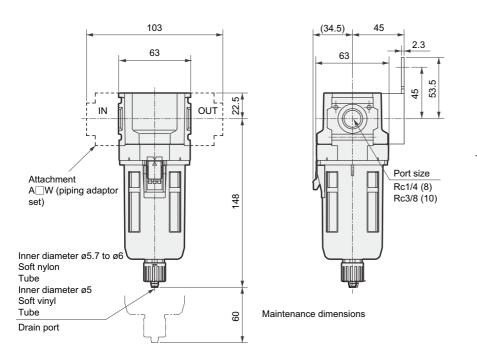


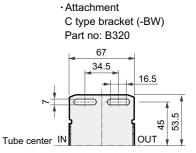
Air Filter Series Dimensions

Dimensions

CAD



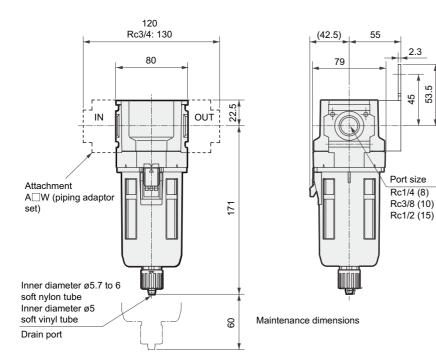




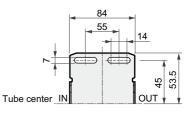
• The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.

Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

• F4000-W



 Attachment C type bracket (-BW) Part no: B420



2.3

45

53.5

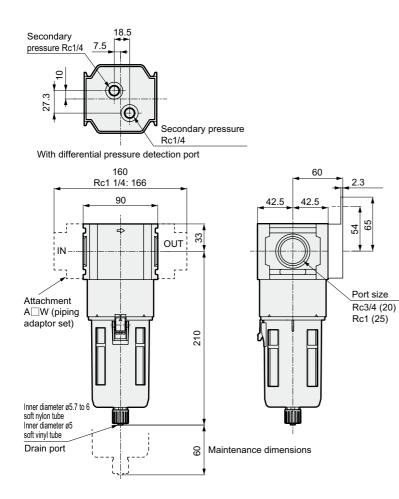
The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.

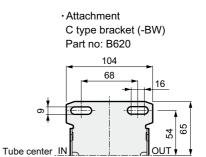
Air Filter Series

CAD

Dimensions

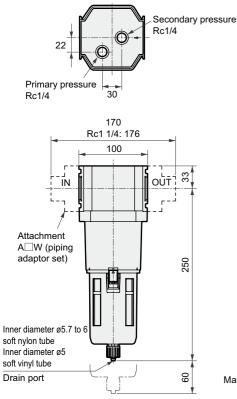
• F6000-W

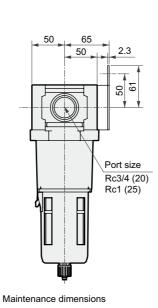




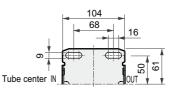
• F8000-W

With differential pressure detection port (Q)





 Attachment C type bracket (-BW) Part no: B820



- The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.
- Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

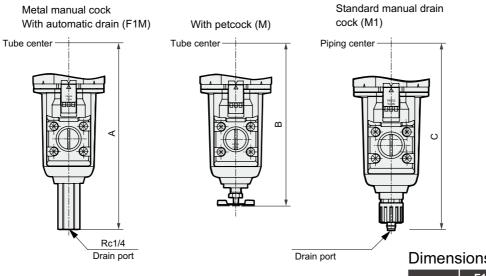
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Option dimensions

Metal bowl F2000-W·F3000-W·F4000-W·F6000-W·F8000-W (option)

CAD



Dimensions table

Model no.	F1M	М	M1
woder no.	Α	В	С
F2000-W	-	-	147
F3000-W	164	143.5	154
F4000-W	187	166.5	177
F6000-W	226	205	216
F8000-W	266	245.5	256

Air Filter Series

Optional parts drawing

Element

Liement		
Element model no.	5µm	0.3µm
Model	Element	Element (Y)
F1000-W	F1000-ELEMENT-ASSY	-
W1000-W, W1100-W	W1000-ELEMENT-ASSY	-
F2000-W	F2000-ELEMENT	-
W2000-W, W2100-W	W2000-ELEMENT	-
F3000-W, FM3000-W	F3000-ELEMENT	F3000-ELEMENT-Y
W3000-W, W3100-W	W3000-ELEMENT	W3000-ELEMENT-Y
F4000-W, FM4000-W	F4000-ELEMENT	F4000-ELEMENT-Y
W4000-W, W4100-W	W4000-ELEMENT	W4000-ELEMENT-Y
F6000-W, FM6000-W	F6000-ELEMENT	F6000-ELEMENT-Y
F8000-W, FM8000-W	F8000-ELEMENT	F8000-ELEMENT-Y
W8000-W, W8100-W	W8000-ELEMENT	W8000-ELEMENT-Y

Note: Baffle and element will be an assembly forF1000-W·W1000-W

(M1)

Metal bowl with manual drain cock assembly

(FM1)

Automatic drain NO type metal bowl assembly with manual drain cock (F1M1)

(F)

_______F1

(FF)

(FF1)

Automatic drain NO type metal bowl assembly with manual drain cock

NC type automatic drain nylon bowl

assembly with manual cock

* 8000 series large exhaust

assembly with manual cock

assembly with manual cock

NO type large automatic drain bow

NC type large automatic drain bowl

Automatic drain NC type metal bowl assembly with manual drain cock



* 8000 series large exhaust (FFM1) Large automatic drain NO type metal bowl assembly with manual drain cock

(FF1M1) with manual drain cock

Large automatic drain NC type metal bowl assembly

(FM)

NO type automatic drain nylon bowl assembly with metal manual cock (F1M) (M) NC type with metal manual cock Metal bowl assembly Automatic drain bowl assembly with cock

Rc1/4

* 8000 series large exhaust (FFM) NO type large automatic drain nylon bowl assembly with metal manual cock (FF1M) NC type large automatic drain nylon bowl

assembly with metal manual cock

Repair kit

(Se of louver, baffle, element and an O ring for bowl)

Repair kit model no.	5µm Element	0.3µm
Model	Element	Element (Y)
F1000-W Note1	F1000-KIT	-
F2000-W	F2000-KIT	-
F3000-W, FM3000-W	F3000-KIT	F3000-KIT-Y
F4000-W, FM4000-W	F4000-KIT	F4000-KIT-Y
F6000-W, FM6000-W	F6000-KIT	F6000-KIT-Y
F8000-W, FM8000-W Note 2	F8000-KIT	F8000-KIT-Y

Note 1: For F1000-W, the baffle and element are assembled parts, so the set consists of element assembly and bowl O ring.

Note 2: For F8000, consists of baffle, element and bowl O ring

Bowl guard

 \bigotimes

0.3µm Element

Bowl guard model no.	For polycarbonate	Nylen bewl
Model	bowl	Nylon bowl
F1000-W, W1000-W, W1100-W	F1000-W-BOWL-GUARD	F1000-W-BOWL-GUARD-Z
L1000-W	L1000-W-BOWL-GUARD	L1000-W-BOWL-GUARD-Z
M1000-W	M1000-W-BOWL-GUARD	M1000-W-BOWL-GUARD-Z
F2000-W, W2000-W, W2100-W	F2000-W-BOWL-GUARD	F2000-W-BOWL-GUARD-Z
W3100-W, F3000-W, W3000-W, M3000-W	F3000-W-BOWL-GUARD	F3000-W-BOWL-GUARD-Z
L3000-W	L3000-W-BOWL-GUARD	L3000-W-BOWL-GUARD-Z
F4000-W, W4000-W, M4000-W, W4100-W, F6000-W M6000-W, W8100-W, F8000-W, W8000-W, M8000-W	F4000-W-BOWL-GUARD	F4000-W-BOWL-GUARD-Z
L4000-W, L8000-W	L4000-W-BOWL-GUARD	L4000-W-BOWL-GUARD-Z
W8100-W, F8000-W, W8000-W-FF, FF1	DT4000-W-BOWL-GUARD	DT4000-W-BOWL-GUARD-Z

Body

Louver

Baffle

 (\mathbb{Z})

Bowl assembly with

Bowl guard

manual cock

5µm element

Bowl O ring

With manual cock

lífí

Nylon bowl assembly

(FZ)

(F1Z)

8000 series large

NO type large automatic drain with manual cock

NC type large automatic drain with manual cock

nylon bowl assembly

nylon bowl assembly

(FFZ)

(FF1Z)

NO type automatic drain

NC type automatic drain nylon bowl assembly

nylon bowl assembly

with manual cock

with manual cock

Note: The bowl guard for the 1000 Series F1 is sold as a set with the bowl assembly. The model no. is "F1000-W-BOWL-BOWL-GUARD-F1"

Air Filter Series

Bowl assembly (Set of bowl assembly and bowl O ring)

Dowr assem	ibly (Set of a	bowi assemb	iy and bowl v	U ring)				
Bowl assembly model no. Model	PC bowl assembly with manual cock	PA bowl assembly with manual cock	Metal bowl assembly with manual cock	Metal bowl assembly with standard manual cock	NO type automatic drain PC bowl assembly with manual cock Note 1	NC type automatic drain PC bowl assembly with manual cock		
F1000-W, W1000-W M1000-W, W1100-W	F1000-W-BOWL	F1000-W-BOWL-Z	-	-	-	F1000-W-BOWL-BOWL GUARD-F1 Note 3		
F2000-W, W2000-W M2000-W, W2100-W	F2000-W-BOWL	F2000-W-BOWL-Z	-	F2000-W-BOWL-M1	-	F2000-W-BOWL-F1		
F3000-W, M3000-W W3000-W, W3100-W	F3000-W-BOWL	F3000-W-BOWL-Z	F3000-W-BOWL-M	F3000-W-BOWL-M1	F3000-W-BOWL-F	M3000-W-BOWL-F1		
FM3000-W, MM3000-W	-	-		-	-	-	-	
F4000-W, F6000-W M4000-W, M6000-W F8000-W, M8000-W W4000-W, W4100-W W8000-W, W8100-W	F4000-W-BOWL	F4000-W-BOWL-Z	F4000-W-BOWL-M	F4000-W-BOWL-M1	F4000-W-BOWL-F	M4000-W-BOWL-F1		
FM4000-W, FM6000-W FM8000-W, MM4000-W MM6000-W, MM8000-W	-	-		-	-	-		
Bowl assembly model no. Model	NO type automatic drain PA bowl assembly with manual cock Note 1	NC type automatic drain PA bowl assembly with manual cock	NO type automatic drain metal bowl assembly with metal manual cock Note 1	NO type automatic drain with standard manual cock metal bowl assembly	NC type automatic drain metal bowl assembly with metal manual cock	NC type automatic drain metal bowl assemblywith standard manual cock	NO type automatic drain bowl assembly for medium pressure Note 1	NC type automatic drain bowl assembly for medium pressure
F1000-W, W1000-W M1000-W, W1100-W	-	F1000-W-BOWL- BOWL GUARD- F1Z Note 3	-	-	-	-	-	-
F2000-W, W2000-W M2000-W, W2100-W	-	M2000-W-BOWL-F1Z	-	-	-	M2000-W-BOWL-F1M1	-	-
F3000-W, M3000-W W3000-W, W3100-W	F3000-W-BOWL-FZ	M3000-W-BOWL-F1Z	F3000-W-BOWL-FM	F3000-W-BOWL-FM1	M3000-W-BOWL-F1M	M3000-W-BOWL-F1M1	-	-
FM3000-W, MM3000-W	-	-	-	-	-	-	FM3000-W-BOWL-F	MM3000-W-BOWL-F1
F4000-W, F6000-W M4000-W, M6000-W F8000-W, M8000-W W4000-W, W4100-W W8000-W, W8100-W	F4000-W-BOWL-FZ	M4000-W-BOWL-F1Z	F4000-W-BOWL-FM	F4000-W-BOWL-FM1	M4000-W-BOWL-F1M	M4000-W-BOWL-F1M1	-	-
FM4000-W, FM6000-W FM8000-W, MM4000-W MM6000-W, MM8000-W		-	-	-	-	-	FM4000-W-BOWL-F	MM4000-W-BOWL-F1
Bowl assembly model no. Model	NO type large automatic drain PC bowl assembly with manual cock	NC type large automatic drain PC bowl assembly with manual cock	NO type large automatic drain PA bowl assembly with manual cock	NC type large automatic drain PA bowl assembly with manual cock	NO type large automatic drain metal bowl assembly with metal manual cock	NC type large automatic drain metal bowl assembly with metal manual cock	NO type large automatic drain metal bowl assembly with standard manual cock	NC type large automatic drain metal bowl assembly with standard manual cock
F8000-W, W8000-W W8100-W	F8000-W-BOWL-FF	F8000-W-BOWL-FF1	F8000-W-BOWL-FFZ	F8000-W-BOWL-FF1Z	F8000-W-BOWL-FFM	F8000-W-BOWL-FF1M	F8000-W-BOWL-FFM1	F8000-W-BOWL-FF1M1

Note 1: NO type automatic drain is not available for oil mist filter M1000-W, M3000-W, M4000-W, M6000-W, oil mist filter for medium pressure MM3000-W, MM4000-W, MM6000-W, MM8000-W.

Note 2: The large discharge automatic drain cannot be installed on the M8000-W.

Note 3: The bowl assembly for the 1000 Series F1 is sold as a set with the bowl guard.



Oil mist filter Standard white series M1000/M2000/M3000 M4000/M6000/M8000-W Series

Ideal for circuits susceptible to oil, including measuring, and instrumentation circuits Port size: 1/8 to 1

JIS symbol



Specifications

Descriptions	M1000-W	M2000-W	M3000-W	M4000-W	M6000-W	M8000-W
Exterior						
Working fluid			Compre	essed air		
Working pressure range MPa			0.1 to 1.0 N	lote 7, Note 8		
Withstanding pressure MPa			1.5 N	lote 7		
Drain capacity cm ³	3	25	45	80	80	80
Port size Rc, PT,	1/8, 1/4	1/4,	3/8	1/4, 3/8, 1/2	3/4, 1	3/4, 1
POILSIZE RC, PI,	(3/8 uses an adaptor)	(1/2 uses a	an adaptor)	(3/4 uses an adaptor)	(1 1/4 uses an adaptor)	(1 1/4 uses an adaptor)
Product weight kg	0.096	0.25	0.28	0.52	0.95	1.35
Standard accessories			Bowl	guard		

Mantle option name		Blank (M type)	S (S type)	X (X type)
	M1000-□-W	150 Note 7	150 Note 7	150
Maximum flow rate Note 1	M2000-□-W	250 Note 7	310 Note 7	310
ℓ/min (ANR)	M3000-□-W	360	450	450
Primary pressure 0.7 MPa	M4000-□-W	825	1000	1000
at pressure drop 0.01MPa	essure drop 0.01MPa M6000W 1270		1400	1400
	M8000-□-W	2600	2900	2900
Ambient temperature range	e ℃	5 to 60		5 to 30
Filtration rating µm		0.01 (nominal)	0.3	Adsorption by activated carbon Note 4
Secondary oil concentration mg/m ³		0.01 or less Note 2, Note 3 0.5 or less Note 2		0.003 or less Note 5
Mantle (element) replacem	ient	1 year (6000 hours) or pressure drop of 0.1MPa		- Note 6

Note 1: Use within the maximum processing flow rate. If the maximum processing flow is exceeded temporarily, or if the filter is installed at a place with high levels of pulsation, the mantle could be damaged or oil or drainage, etc., could splatter to the secondary side and result in faults at the terminal.

Note 2: The secondary oil density is the value when the primary oil density is 30 mg/m³ and inlet air temperature is 21°C.

Note 3: Install an oil mist filter (S type) as a prefilter on the primary side to prevent early clogging.

Note 4: Activated carbon particles could flow to the secondary side, so install an air filter (F Series) or oil mist filter (M Series M type or S type) on the secondary side. Note 5: When an oil mist filter (M Series M type) is installed on the primary side.

Note 6: The mantle (element) replacement period depends on the odor density in compressed air, and thus cannot be clearly indicated.

Consider the total period from initial installation to when the smell of oil is confirmed as the effective deodorizing period, and replace at the same time as the M type or replace according to period of use. (e.g. 1000 hours of use at 21°C or confirmation of smell, which ever comes first.

The primary air temperature must be 30°C or less. The deodorizing effect will drop if the temperature is high, so provide heat dissipation measures.

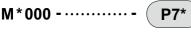
Note 7: When "F1" with an automatic drain is selected for the F1000 series, minimum operating pressure is 0.2 MPa, maximum operation pressure is 0.7 MPa and the guaranteed pressure resistance is 1.05 MPa. Refer to the maximum processing flow table (page 97) for the F1000-F1 automatic drain for the maximum working flow. Note 8: The minimum operating pressure is 0.15 MPa for models with automatic drain "F1".



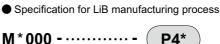


(Catalog No.CC-947A)

Dust generation preventing structure for use in cleanrooms

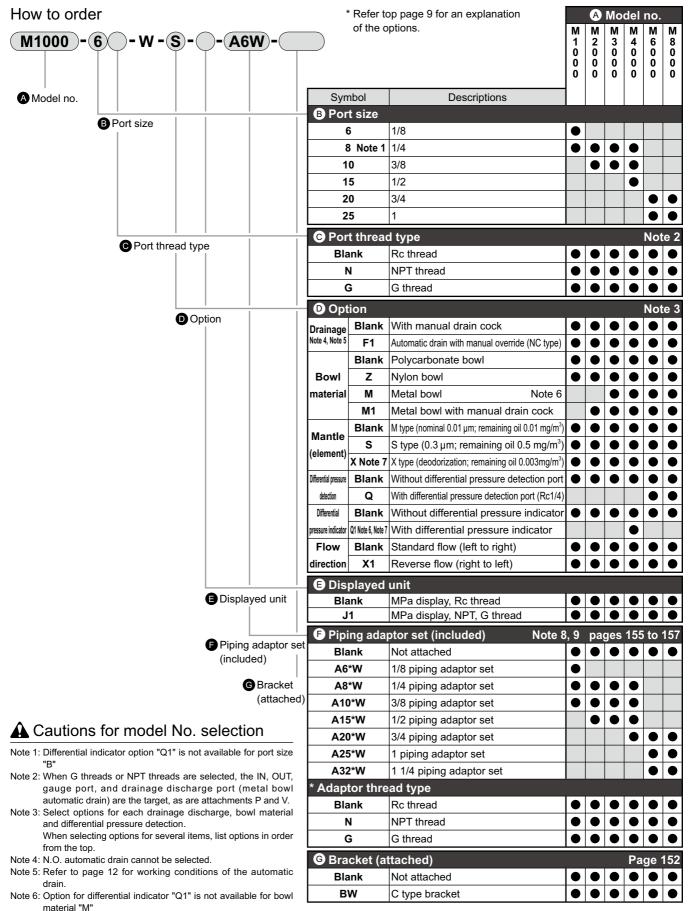


CKD





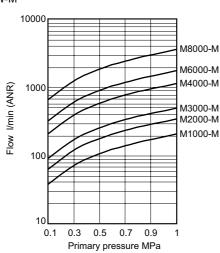
How to order



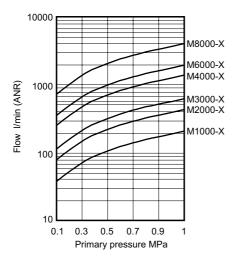
- Note 7: Combination with option F1 or "Q1" with differential pressure indicator is not possible.
- Note 8: The piping adapter set and C bracket cannot be used together.
- Note 9: A joiner set is attached with the piping adapter set.

Flow characteristics (Maximum flow rate)

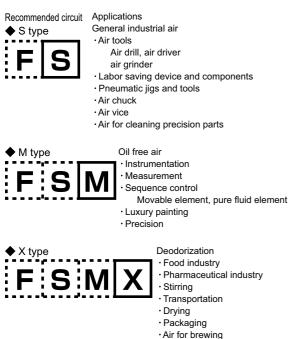
• M*000-W-M



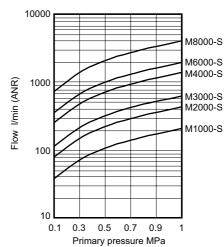
• M*000-W-X



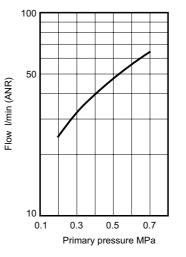
Selecting optional mantle for oil mist filters



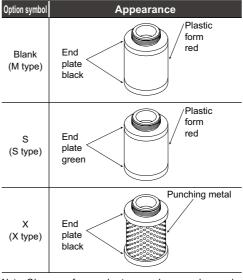








Option symbol and shap of mantles

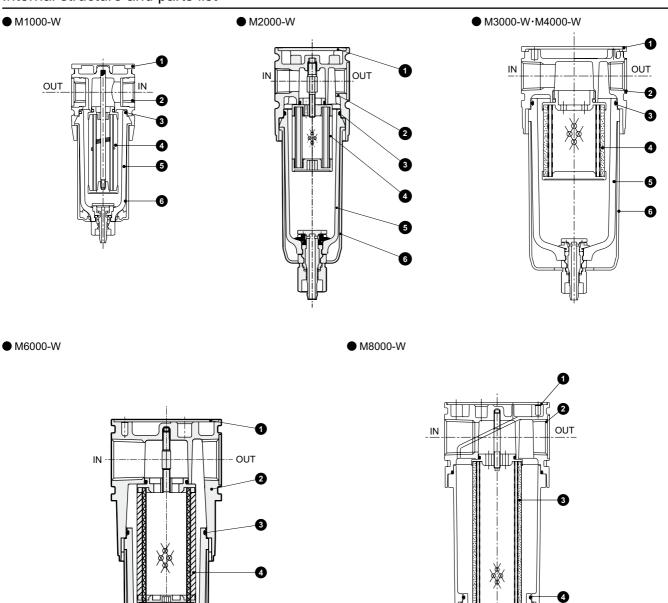


Note: Changes for product upgrades may be made without prior notice.

When placing an order, confirm the option symbol for the part model given here.

Internal structure and parts list

Internal structure and parts list



No.	Part name	Material					
NO.		M1000-W	M2000-W	M3000-W	M4000-W	M6000-W	M8000-W
1	Plate cover	ABS resin					
2	Body	Polyamide resin Aluminum alloy die-casting					
3	O-ring Note 1	Special nitrile rubber					
4	Mantle assembly	-					
5	Bowl assembly	Polycarbonate resin, polyacetal resin, urethane resin					
6	Bowl guard	Polyamide resin, steel					

6

6

Note 1: The M1000-W O ring has a special shape.

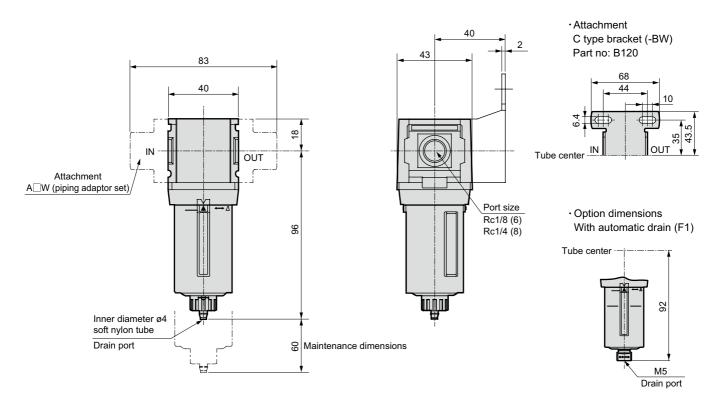
98

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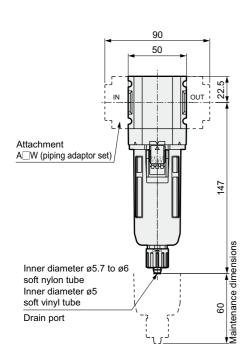
6

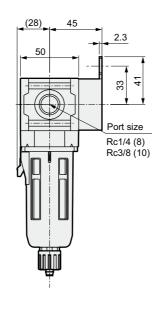
Dimensions CAD

• M1000-W

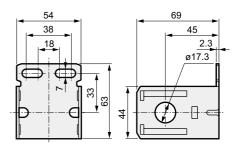


• M2000-W

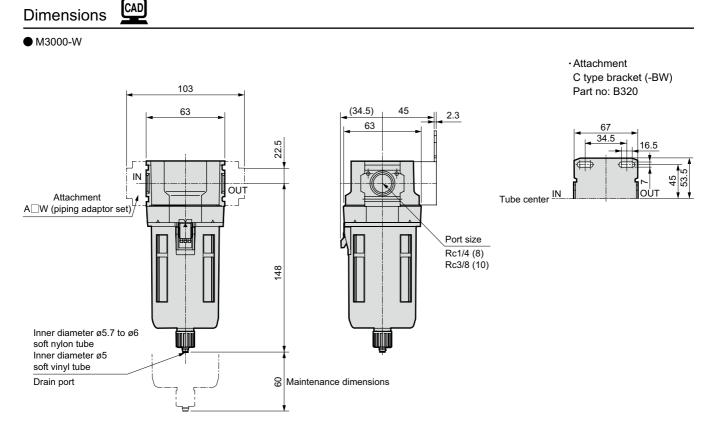




Attachment
 C type bracket (-BW)
 Part no: B220

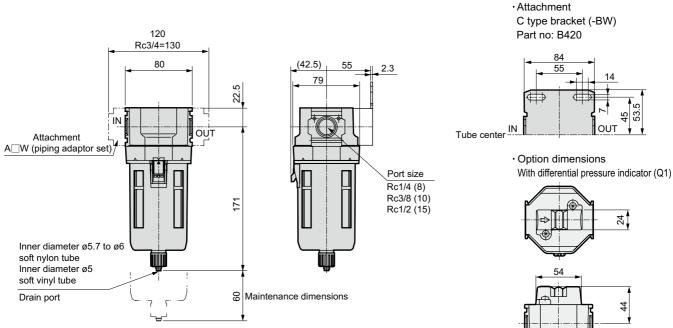


Dimensions



• The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.



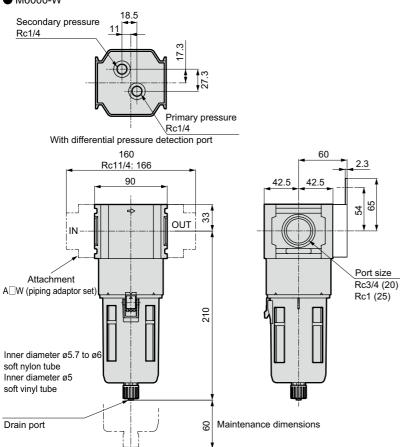


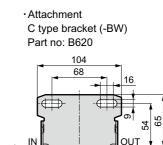
• The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.

CAD

Dimensions

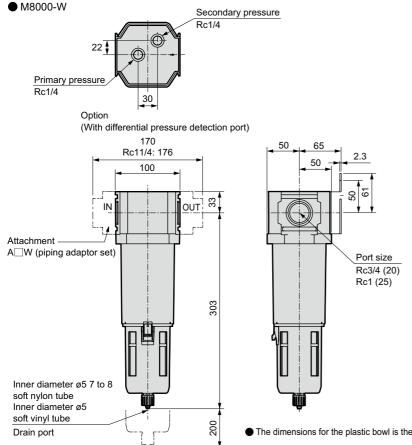




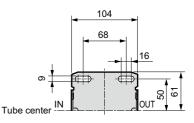


IN Tube center

• The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed. Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.



 Attachment C type bracket (-BW) Part no: B820

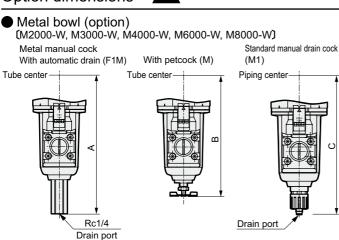


The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.

Oil Mist Filter series Optional dimensions, optional parts

Option dimensions

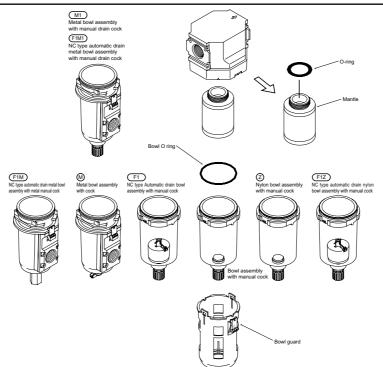
CAD



Dimensions table

Model no.	F1M	М	M1
model no.	Α	В	С
M2000-W	-	-	147
M3000-W	164	143.5	154
M4000-W	187	166.5	177
M6000-W	226	205	216
M8000-W	319	298	309

Option parts table for oil mist filter



Repair kit model no. (Set of O ring, mantle and bowl O ring)

Model	M type	S type	X type					
M1000-W	M1000-KIT	M1000-KIT-S	M1000-KIT-X					
M1000-W-F1	M1000-KIT-F1	M1000-KIT-F1S	-					
M2000-W	M2000-KIT	M2000-KIT-S	M2000-KIT-X					
M3000-W, MM3000-W	M3000-KIT	M3000-KIT-S	M3000-KIT-X					
M4000-W, MM4000-W	M4000-KIT	M4000-KIT-S	M4000-KIT-X					
M6000-W, MM6000-W	M6000-KIT	M6000-KIT-S	M6000-KIT-X					
M8000-W, MM8000-W	M8000-KIT	M8000-KIT-S	M8000-KIT-X					

Repair kit model no. (Set of O ring and mantle)

Model	M type	S type	X type
M1000-W	M1000-MANTLE-ASSY	M1000-MANTLE-ASSY-S	M1000-MANTLE-ASSY-X
M1000-W-F1	M1000-MANTLE-ASSY-F1	M1000-MANTLE-ASSY-F1S	-
M2000-W	M2000-MANTLE-ASSY	M2000-MANTLE-ASSY-S	M2000-MANTLE-ASSY-X
M3000-W, MM3000-W	M3000-MANTLE-ASSY	M3000-MANTLE-ASSY-S	M3000-MANTLE-ASSY-X
M4000-W, MM4000-W	M4000-MANTLE-ASSY	M4000-MANTLE-ASSY-S	M4000-MANTLE-ASSY-X
M6000-W, MM6000-W	M6000-MANTLE-ASSY	M6000-MANTLE-ASSY-S	M6000-MANTLE-ASSY-X
M8000-W, MM8000-W	M8000-MANTLE-ASSY	M8000-MANTLE-ASSY-S	M8000-MANTLE-ASSY-X

* Parts of M type are compatible with M1000-W, 3000-W, 4000-W, 8000-W Series manufactured before '98.5.

* Refer to air filter options and parts table for details on bowl assembly, and bowl guard.



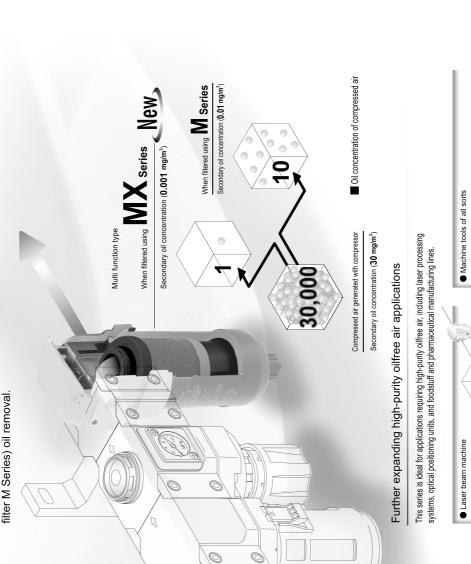


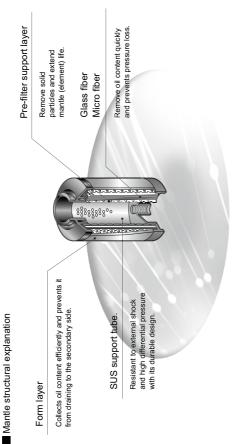
High performance oil mist filter

MX Serise

High-performance with x10 oil removal.

Highly efficient oil removing mantle removes oil up to a secondary oil concentration 0.001 mg/m³. MX Series high-performance oil mist filter with x10 (compared to oil mist filter M Series) oil removal.





Secondary oil concentration 0.001mg/m³ or less

A system is configured with module connections in the same manner as the conventional filter F Series and

Modular connection possible

The highly efficient oil removing mantle removes oil up to the secondary oil concentration of 0.001 mg/m³ at 21°C. This series is compatible with the JIS Standards Oil Class 1.

High precision filtration

Removes impurities down to 0.01µm.

Five types -- MX1000, 3000, 4000, 6000, and 8000 --are available for different flow.

Diverse models

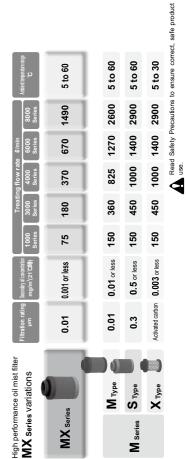
oil mist filter M Series.

Long service life, low pressure loss

Fibers with a gap rate of 94% used for the mantle reduces pressure loss and prolong service life.

P70 Series available. (3000, 4000, 6000 Series available)

Suitable for clean room



all sorts

Moving table

Optical position detector

Dust proof box

Norkpiece

CKD



High performance oil mist filter Standard white Series MX1000/MX3000/MX4000 MX6000/MX8000-W Series

Secondary side oil concentration 0.001 mg/m³Secondary oil concentration (0.001mg/m³) Suitable for optical equipment such as optical positioning units and laser processing machines Port size: 1/8 to 1 JIS symbol У



Specifications

opecifications								
Descriptions	MX1000-W	MX3000-W	MX4000-W	MX6000-W	MX8000-W			
Exterior								
Working fluid			Compressed air					
Working pressure range MPa		0	.1 to 1.0 Note 4, Note	5				
Withstanding pressure MPa			1.5 Note 4					
Ambient temperature range °C			5 to 60					
Filtration rating µm			0.01 (nominal)					
Secondary oil concentration mg/m ³		0.0	001 or less Note 2, Not	e 3				
Maximum flow rate {/min (ANR) Note 1	75 Note 4	180	370	670	1480			
Drain capacity cm ³	3	45	80	80	80			
Port size Rc, PT, G	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4, 1	3/4, 1			
	(3/8 uses an adaptor)	(1/2 uses an adaptor)	(3/4 uses an adaptor)	(1 1/4 uses an adaptor)	(1 1/4 uses an adaptor)			
Product weight kg	0.096	0.28	0.52	0.95	1.35			
Mantle (element) replacement		1 year (6000 hours) or pressure drop of 0.1MPa						
Standard accessories			Bowl guard					

Note 1: Primary pressure 0.7MPa Use within the maximum processing flow rate.

If the maximum processing flow is exceeded temporarily, or if the filter is installed at a place with high levels of pulsation, the mantle could be damaged or oil or drainage, etc., could splatter to the secondary side and result in faults at the terminal.

Note 2: The secondary oil density is the value when the primary oil density is 30 mg/m³, the inlet air temperature is 21°C and before the oil is saturated.

Note 3: Install an oil mist filter (S type) as a prefilter on the primary side to prevent early clogging.

Note 4: MX1000-W-F1 with an automatic drain has a min. working pressure of 0.2MPa, max. working pressure of 0.7MPa, withstanding pressure of 1.05MPa, and please refer to the flow characteristics on the next page for max. treating flow rate.

Note 5: The minimum operating pressure is 0.15 MPa for models with automatic drain "F1".

Clean specification (Catalog No. CB-033SA)

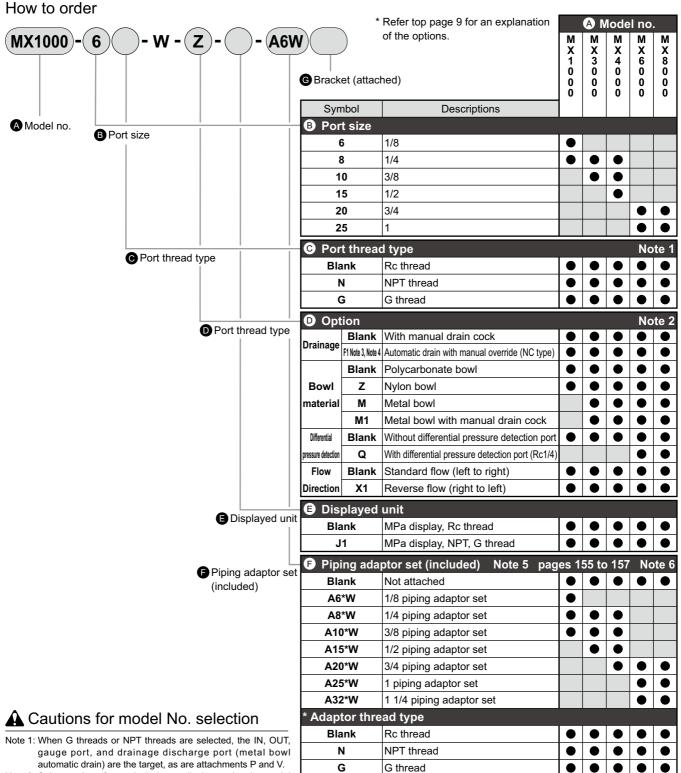
Dust generation preventing structure for use in cleanrooms

MX*000 - · · · · · · -

P7*

Super Oil Mist Filter Series

How to order



G Bracket (attached)

Not attached

C type bracket

Blank

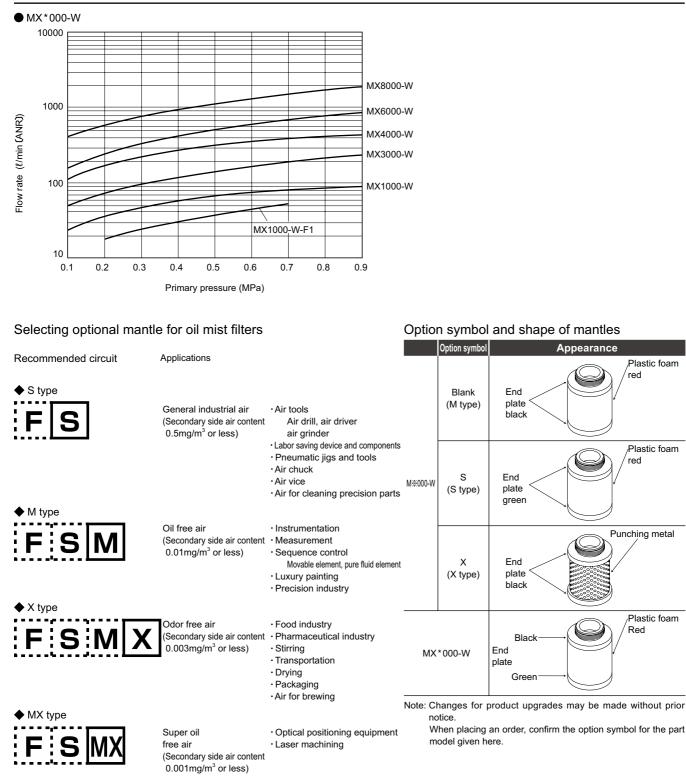
BW

- Note 2: Select options for each drainage discharge, bowl material and differential pressure detection. When selecting options for several items, list options in order
 - from the top. $3 \times N_{\odot}$ automatic drain cannot be selected
- Note 3: N.O. automatic drain cannot be selected.
- Note 4: Refer to page 12 for working conditions of the automatic drain.
- Note 5: Piping adaptor set and C type bracket cannot be used togather.
- Note 6: A joiner set is attached with the piping adapter set.

Page 152

Super Oil Mist Filter Series

Flow characteristics (Maximum flow rate)

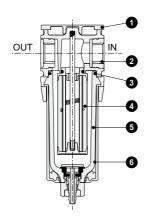


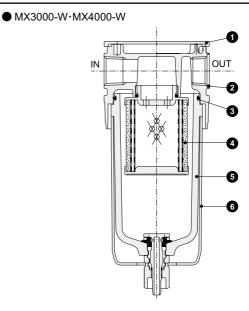
CAUTION: Secondary oil contentis measured at inlet air temperature of 21 degrees celcius and primary oil content of 30mg/m³.

Super Oil Mist Filter Series Internal structure and parts list

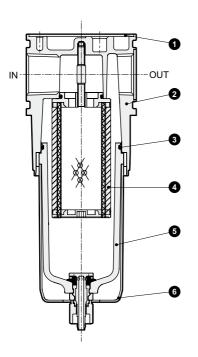
Internal structure and parts list

• MX1000-W

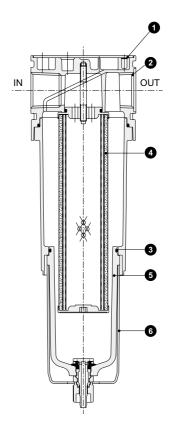




• MX6000-W



• MX8000-W

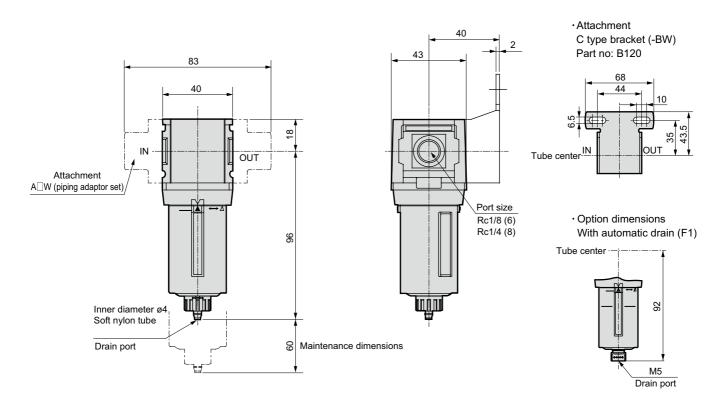


No.	Part name	Material				
		MX1000-W	MX3000-W	MX4000-W	MX6000-W	MX8000-W
1	Plate cover	ABS resin				
2	Body	Polyamide resin	Aluminum alloy die-casting			
3	O-ring Note 1	Special nitrile rubber				
4	Mantle assembly	-				
5	Bowl assembly	Polycarbonate resin, polyacetal resin, urethane resin				
6	Bowl guard	Polyamide resin, steel				

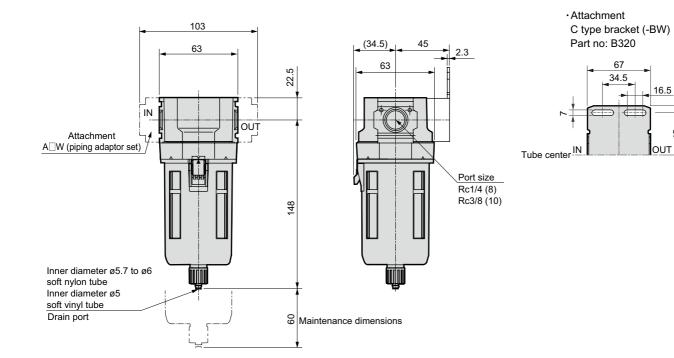
Note 1: O ring for MX1000-W will have a special shape.

Dimensions

• MX1000-W



• MX3000-W



53.5

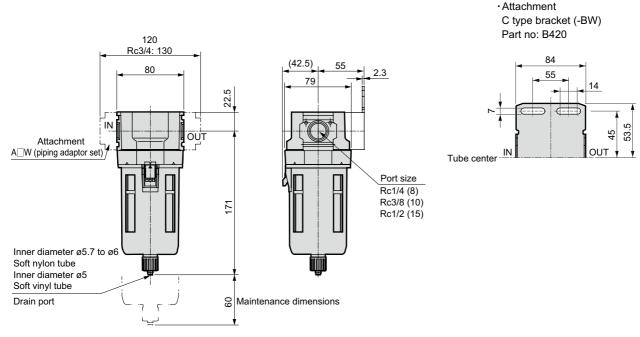
45

• The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed. Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

Dimensions

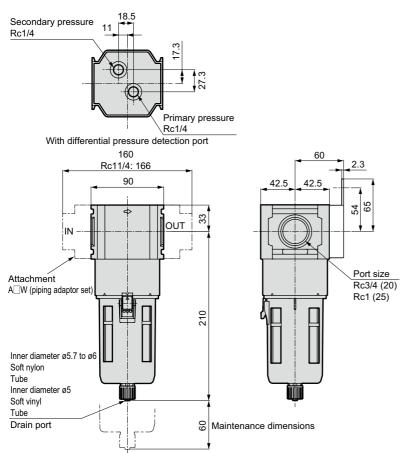
Dimensions

• MX4000-W

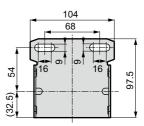


• The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.



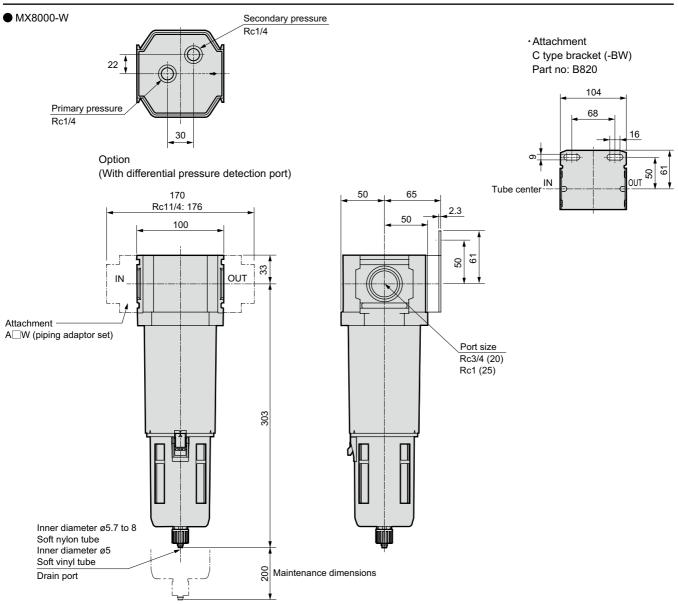


• Attachment C type bracket (-BW) Part no: B620



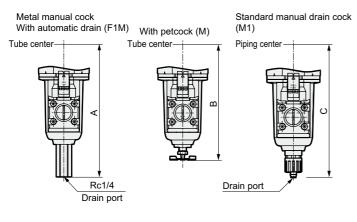
• The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed. Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

Dimensions



• For the plastic bowl, the dimensions are the same regardless of whether the manual cock or with automatic drain.

Metal bowl (option) (MX3000-W, MX4000-W, MX6000-W, MX8000-W)

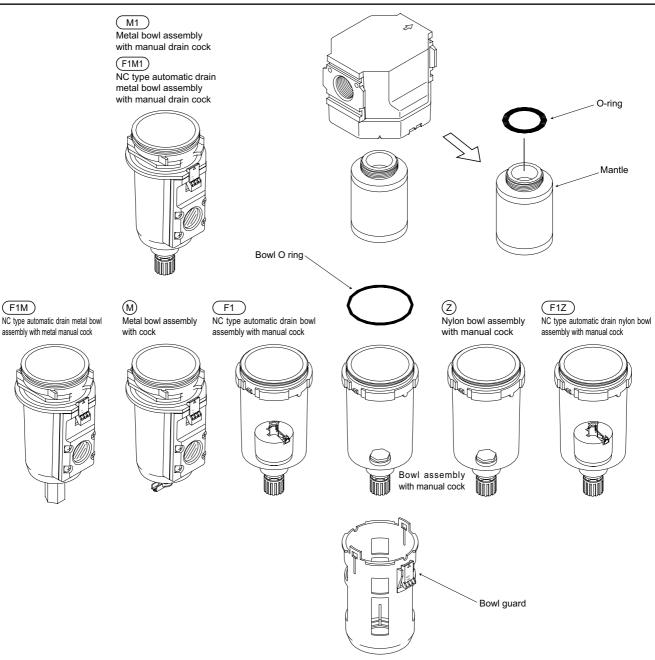


Dimensions table

Model no.	F1M	М	M1
woder no.	Α	В	С
MX3000-W	164	143.5	154
MX4000-W	187	166.5	177
MX6000-W	226	205	216
MX8000-W	319	298	309

Optional parts table

Option parts table for oil mist filter



Repair kit model no. (Set of O ring, mantle and bowl O ring)

Model	
MX1000-W	MX1000-KIT
MX1000-W-F1	MX1000-KIT-F1
MX3000-W	MX3000-KIT
MX4000-W	MX4000-KIT
MX6000-W	MX6000-KIT
MX8000-W	МХ8000-КІТ

Repair kit model no. (Set of O ring and mantle)

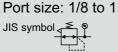
Model	
MX1000-W	MX1000-MANTLE-ASSY
MX1000-W-F1	MX1000-MANTLE-ASSY-F1
MX3000-W	MX3000-MANTLE-ASSY
MX4000-W	MX4000-MANTLE-ASSY
MX6000-W	MX6000-MANTLE-ASSY
MX8000-W	MX8000-MANTLE-ASSY

%Refer to the air filter Option and parts table on page 93 and 94 for bowl assy and bowl guard.



Regulator Standard white series R1000/R2000/R3000 R4000/R6000/R8000-W Series

Low profile with built in pressure gauge.

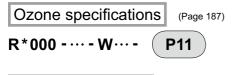




Specifications

Descriptions	R1000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W		
Exterior								
Working fluid			Compre	ssed air				
Max. working pressure MPa			1	1				
Withstanding pressure MPa			1.	.5				
Ambient temperature range °C			5 to	o 60		Note 1		
Set pressure range MPa	0.05 to 0.85							
Relief	With relief mechanism							
Port size Rc, NPT, G	1/8, 1/4	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4, 1	3/4, 1		
	(3/8 uses an adaptor)	(1/2 uses an adaptor)	(1/2 uses an adaptor)	(3/4 uses an adaptor)	(1 1/4 uses an adaptor)	(1 1/4 uses an adaptor)		
Product weight kg	0.16	0.31	0.45	0.7	1.0	1.6		
Standard accessories	Standard accessories Pressure gauge, nut for panel mount Pressure gauge							

Note 1: The working temperature for the PPD option "R1" is 5 to 50°C.



Clean specification (Catalog No. CB-033SA)

Dust generation preventing structure for use in cleanrooms

R*000 - · · · · · · · · · **P7***

Specification for LiB production • Specification for LiB manufacturing process

(Catalog No.CC-947A)

R*000 - · · · · · · -

P4*

How to order

How to order			* Refer top page 9 for an explanation				500 1		
			of the options.		A	Mode	el no).	
(R1000)-(6)-()-W-(L)-()-(Â6V	V)(R 1	R 2	R 3	R 4	R 6	R 8
	\frown	\sim \sim	G Attachment	0	0	0	0	0	0
		<u> </u>	r set (included)	0	0	0	0	0	0
	Sym		Descriptions	Ŭ			Ŭ	Ŭ	
A Model no.	Port								
	6		1/8	•					
	8		1/4	•	•				
	10	ט	3/8		\bullet				
	1	5	1/2				•		
	20		3/4						
	2	5	1						
) Port	threac	I type					No	te
C Port thread type	Bla		Rc thread						
	N		NPT thread	•				•	
	G	;	G thread	•				•	
) Opti	on						No	to
D Option	essure		0.05 to 0.85MPa						16
	Range	-	0.05 to 0.35MPa Note 3						
	anye				•				
R	Relief	Blank N	With relief mechanism		•		•	•	
-			Non-relief type		•			•	
	-		Standard pressure gauge (G401-W)	•	•				
Pro	essure	T	Without pressure gauge (gauge port (Rc1/4) assembled sealed)	•					
g	auge	T8	Pressure gauge attachable (gauge port (Rc1/4) assembled open)	•			•	•	
		Т6	Compatibility with digital pressure sensor PPX Note 4	•	•		•	•	
		R1	Pressure switch with display PPD assembled Note 5	•			•		
	Flow	Blank	Standard flow (left to right)	•					
Dir	rection	X1	Reverse flow (right to left)						
) Disp	blayed	unit						
Displayed unit	Bla	nk	MPa display, Rc thread						
	J	1	MPa display, NPT, G thread	\bullet					
	Pini	na ada	ptor set (included) No	te 6	7 1	page	s 15	5 to	1!
	Bla	-	Not attached			ouge			
-	A6*		1/8 piping adaptor set				-		
—	A8*		1/4 piping adaptor set						
—	A10		3/8 piping adaptor set				•		
	A15			•			•		
			1/2 piping adaptor set		-				
	A20		3/4 piping adaptor set				-		
· –	A25 A32		1 piping adaptor set						
🛕 Cautions for model No. selection 🖕	-		1 1/4 piping adaptor set						
Note 1: G and NPT threads are available for IN, OUT,			ad type						
and gauge ports.	Bla		Rc thread						
Note 2: When selecting options for several items, list	N		NPT thread						
options in order from the top. Note 3: Pressure gauge display range will be 0 to 0.4	G	i	G thread						
MPa for option "L".	Atta	chmen	t	N	ote	8 Pa	age	152,	1
Note 4: When option "T6" is selected, only "blank" or "R2" is selected for the (G) pressure gauge	Bla	nk	Not attached	\bullet	\bullet	\bullet	\bullet	\bullet	
(enclosed). The digital pressure sensor PPX	BV	N	C type bracket	\bullet	\bullet	\bullet	\bullet	\bullet	
mounting port (Rc1/8) is assembled ventilated.	B3	W Note 5	L type bracket Note 9						
Note 5: Output type will be NPN transistor output. Consult with CKD if PNP transistor output is required.	B4	W	B type bracket						
Note 6: The piping adapter set and C bracket cannot be	G4	5P	G45D-8-P10 (L: G45D-8-P04)	٠				٠	
used together.	G4	9P	G49D-8-P10 (L: G49D-8-P04)	•					
Note 7: A joiner set is attached with the piping adapter set.	G5		G59D-8-P10 (L: G59D-8-P04)						(
Note 8: If NPT is selected for the "C" piping thread type,	G4		G40D-8-P10 (L: G40D-8-P04)	•	•			•	(
a NPT pressure gauge is enclosed. If Rc or G	G5		G50D-8-P10 (L: G50D-8-P04)		•				
thread is selected, an R thread pressure gauge is enclosed.	G4		G41D-8-P10 (L: G41D-8-P04)					•	
Note 9: Refer to Section(2. Regulator), in "APRECAUTIONS	G5		G52D-8-P10 (L: G52D-8-P10)						1
for Installation and Adjustment" (page 15) for details									

Note 9: Refer to Section (2. Regulator), in "APRECAUTIONS for Installation and Adjustment" (page 15) for details on mounting the L-type bracket.

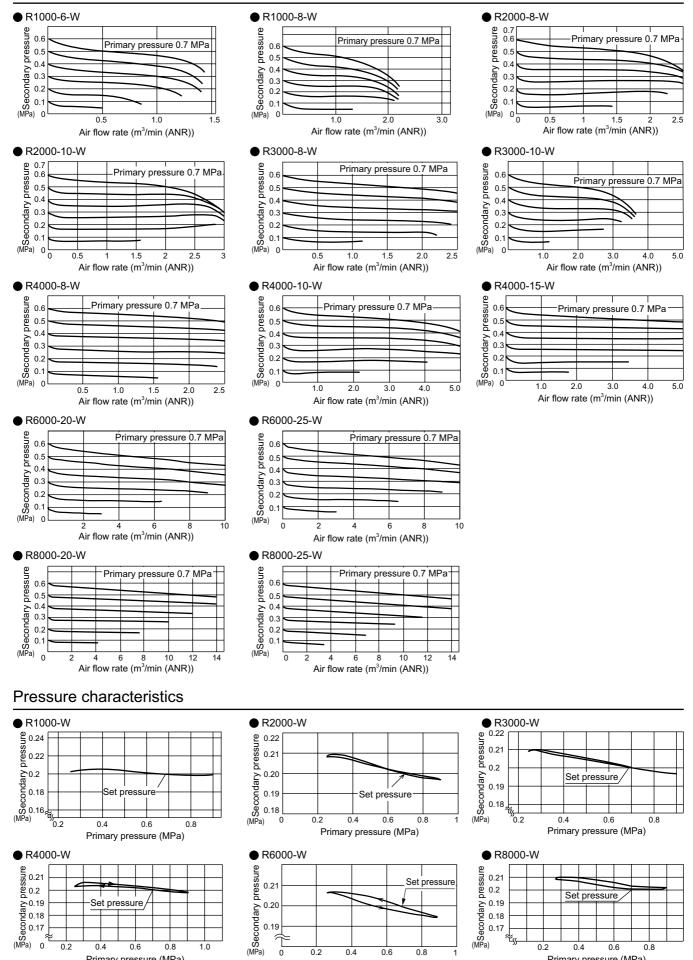
•

•

R2 Note 4 Digital pressure sensor: PPX-R10N-6M

 \bullet

Flow characteristics



0.19 1

0

0.2

04

0.6

Primary pressure (MPa)

0.8

0.2

0.4

0.6

Primary pressure (MPa)

0.8

0.2

0.4

KD

0.6

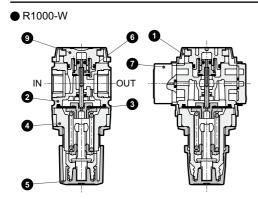
Primary pressure (MPa)

0.8

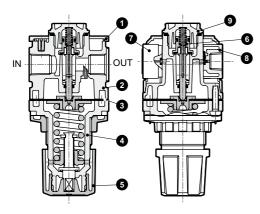
1.0



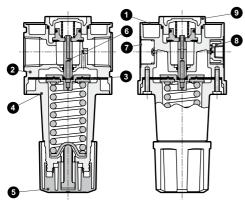
Internal structure and parts list

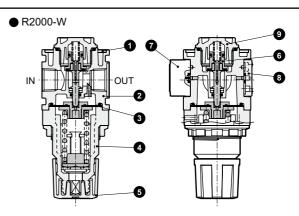


● R3000-W·R4000-W

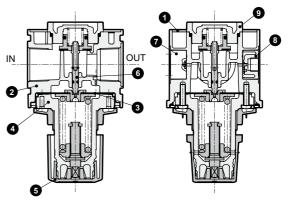


• R8000-W





• R6000-W



No.	Part name	Material					
NO.	. R1000-W R2000-W R3000-W R4000-W					R6000-W	R8000-W
1	Plate cover			ABS	resin		
2	Body	Polyamide resin, steel	Aluminum alloy die-casting		Aluminum allo	y die-casting	
3	Diaphragm assembly	Polyacetal resi	acetal resin nitrile rubber Zinc alloy die-casting, nitrile rubber Note 3				
4	Cover	Polyamide resin	PBT Resin Aluminum alloy die-ca				Aluminum alloy die-casting
5	Knob		Polyacetal resin				
6	Valve assembly		Brass, hydrogenated r	itrle rubber (polyaceta	al resin: R2100-W, R31	00-W, R4100-W only	')
7	Pressure gauge assembly		PBT resin, poly	acetal resin, polycarb	onate resin, nitrile rubb	er, brass, steel	
8	Gauge plug assembly	-	- Polyacetal resin nitrile rubber				
0	Blanking plug assembly Note 1	PBT resin, nitrile	e rubber, copper				-
9	Bottom plug Note 4		Polyacetal resin Aluminum alloy die-casting				loy die-casting

Note 1: A blank plug is enclosed with the R1000-W standard type.

Note 2: Refer to page 128 for repair parts.

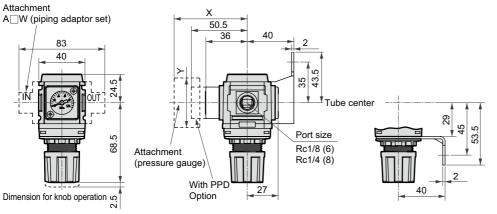
Note 3: Aluminum will be added for R6000-W for low pressure.

Note 4: The material for RM3000-W, RM4000-W is aluminum alloy die casting.

CAD

Dimensions

• R1000-W



L type bracket (-B3W)

44 68

IN

OUT

45 53.5

10

Option (with PPD)

35.5

62

26.5

Part no: B130

Tube center

6.5

Panel cut dimensions



Panel thickness: Max. 6mm

Option dimensions with pressure gauge attached					
Attached pressure gauge	X	Y			
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			

• R2000-W

Tube center IN

Attachment

3.5

Part no: B120

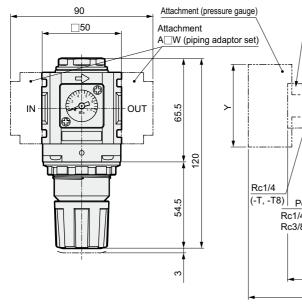
C type bracket (-BW)

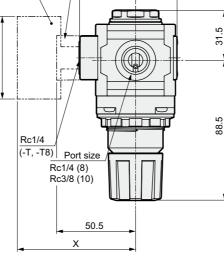
68

44

10

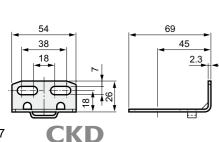
35 43.5

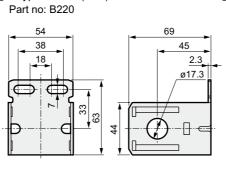




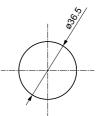
• C type bracket (-BW)

L type bracket (-B3W)
 Part no: B230





Panel cut dimensions

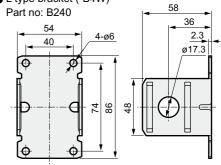


Panel thickness: Max. 4mm

Option dimensions	with pressur	e gauge attached
e parent annienenene	man procour	o gaago anaonoa

Attached pressure gauge	X	Y
G45P	(73.5)	ø39
G49P	(73)	ø43.5
G59P	(75.5)	ø52
G40P	(75)	ø42.5
G50P	(75)	ø52.5
G41P	(73.5)	ø42
G52P	(85.5)	ø52.5
R2	(73)	□30

● L type bracket (-B4W)

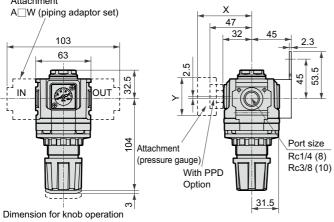


117

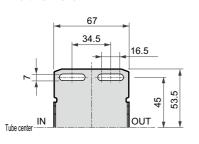
CAD Dimensions

• R3000-W

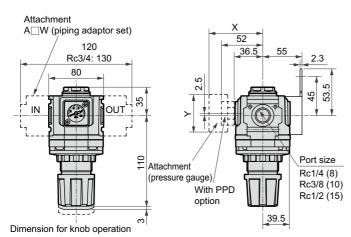
Attachment



·Attachment (C type bracket) C type bracket (-BW) Part no: B320

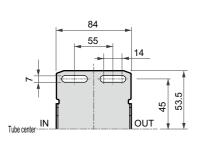


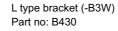
• R4000-W



Attachment

C type bracket (-BW) Part no: B420





L type bracket (-B3W)

OUT

t

34.5

67

S

57. 99

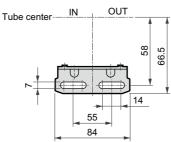
16.5

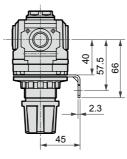
Part no: B330

IN

U

Tube center





40.5 28 66.5

2.3

55

Panel cut dimensions



Panel thickness: Max. 7mm

Option dimensions with pressure gauge attached					
Attached pressure gauge	Х	Y			
G45P	(70)	ø39			
G49P	(69.5)	ø43.5			
G59P	(72)	ø52			
G40P	(71.5)	ø42.5			
G50P	(71.5)	ø52.5			
G41P	(70)	ø42			
G52P	(82)	ø52.5			
R2	(69.5)	□30			

Panel cut dimensions

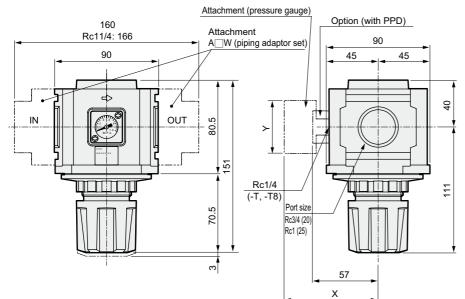


Panel thickness: Max. 7mm

Option dimensions with pressure gauge attached						
Attached pressure gauge	X	Y				
G45P	(75)	ø39				
G49P	(74.5)	ø43.5				
G59P	(77)	ø52				
G40P	(76.5)	ø42.5				
G50P	(76.5)	ø52.5				
G41P	(75)	ø42				
G52P	(86)	ø52.5				
R2	(75)	□30				
CKD						

Dimensions CAD

• R6000-W

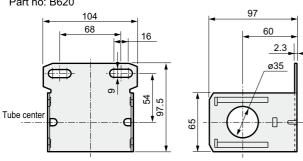


Panel cut dimensions

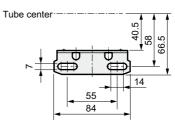
Option dimensions with pressure gauge attached						
Attached pressure gauge	X	Y				
G45P	(80)	ø39				
G49P	(79.5)	ø43.5				
G59P	(82)	ø52				
G40P	(81.5)	ø42.5				
G50P	(87.5)	ø52.5				
G41P	(80)	ø42				
G52P	(93)	ø52.5				
R2	(80)	□30				

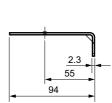
 Attachment C type bracket (-BW)

Part no: B620

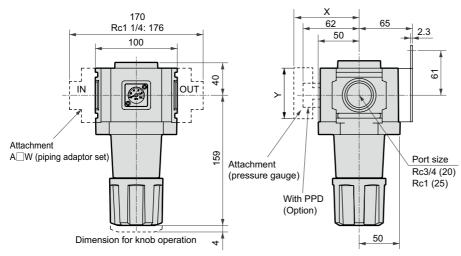


L type bracket (-B3W) Part no: B430

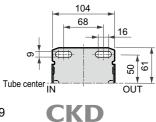




• R8000-W



• Attachment C type bracket (-BW) Part no: B820



Attached pressure gauge X Y G45P (85) ø39 G49P (84.5) ø43.5 G59P (87) ø52 G40P (86.5) ø42.5 G50P (86.5) ø52.5 G41P (85) ø42 G52P (98) ø52.5 R2 (85) _30	Option dimensions with pressure gauge attached				
G49P (84.5) ø43.5 G59P (87) ø52 G40P (86.5) ø42.5 G50P (86.5) ø52.5 G41P (85) ø42 G52P (98) ø52.5	Attached pressure gauge	X	Y		
G59P (87) ø52 G40P (86.5) ø42.5 G50P (86.5) ø52.5 G41P (85) ø42 G52P (98) ø52.5	G45P	(85)	ø39		
G40P (86.5) ø42.5 G50P (86.5) ø52.5 G41P (85) ø42 G52P (98) ø52.5	G49P	(84.5)	ø43.5		
G50P (86.5) ø52.5 G41P (85) ø42 G52P (98) ø52.5	G59P	(87)	ø52		
G41P (85) ø42 G52P (98) ø52.5	G40P	(86.5)	ø42.5		
G52P (98) ø52.5	G50P	(86.5)	ø52.5		
	G41P	(85)	ø42		
R2 (85) 🗌 30	G52P	(98)	ø52.5		
· · · ·	R2	(85)	□30		

-0

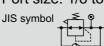
MEMO



Reverse regulator Standard white series

R1100/R2100/R3100 R4100/R6100/R8100-W Series

From secondary pressure to primary pressure with back flow function. Port size: 1/8 to 1





Specifications

Descriptions	R1100-W	R2100-W	R3100-W	R4100-W	R6100-W	R8100-W	
Exterior							
Working fluid			Compre	ssed air			
Max. working pressure MPa	1		1.	.0			
Withstanding pressure MPa	1	1.5					
Ambient temperature range °C	5 to 60 Note 3						
Set pressure range (Note 2) MPa	0.05 to 0.85						
Relief	With relief mechanism						
Port size Rc, PT	1/8, 1/4	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4, 1	3/4, 1	
	' (3/8 uses an adaptor)	(1/2 uses an adaptor)	(1/2 uses an adaptor)	(3/4 uses an adaptor)	(1 1/4 uses an adaptor)	(1 1/4 uses an adaptor)	
Product weight kg	0.16	0.31	0.45	0.7	1.0	1.6	
Standard accessories	Pressure gauge, nut for panel mount Pressure gauge						

Note 1: Check that the primary pressure is at least 0.05 MPa or more than the secondary pressure.

Note 2: Refer to the set pressure range for the back pressure given on page 123 when selecting the model.

Note 3: The working temperature range of the pressure switch with indicator PPD assembly "R1" is 5 to 50°C.

(Catalog No.CC-947A)

Ozone specifications (Page 188) R*100 - ... W ... - P11

Clean specification

(Catalog No. CB-033SA)

Dust generation preventing structure for use in cleanrooms

R*100 - (P7*

Specification for LiB production

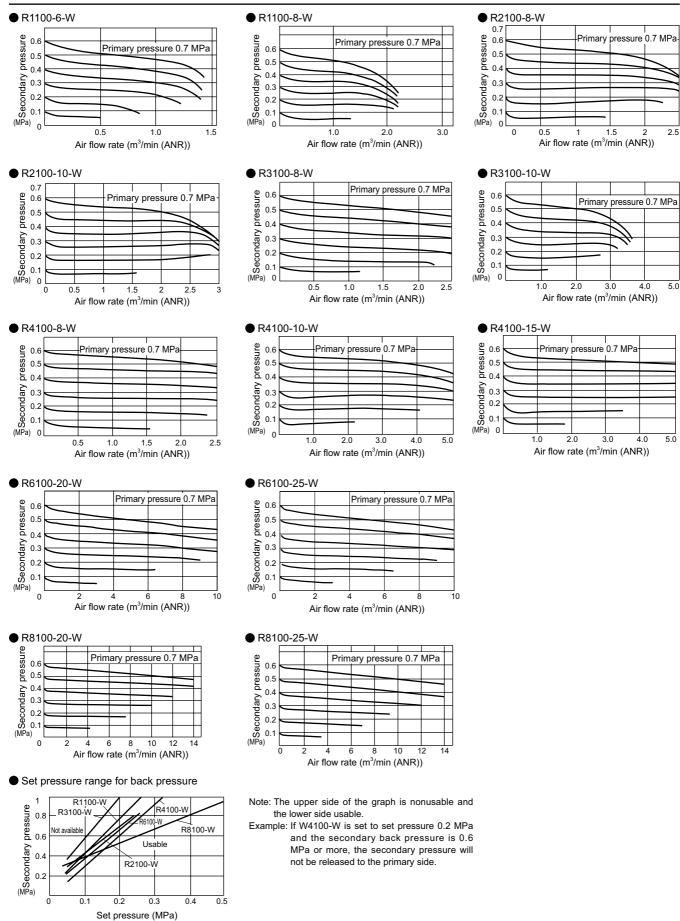
Specification for LiB manufacturing process

R*100 - · · · · · · · · -P4*

Regulator series How to order

How to order			* Refer top page 9 for an explanation of the options.		A.	Mode	el no)	
R1100 - 6 - W - L - ()- (A6W			R	R	R	R	R	
			G Attachment	1 1	2	3	4	6	
		g adapto	r set (included)	0 0	0	0	0	0	
	Syr	nbol	Descriptions	U					
Model no. B Port size	B Por	t size							
Fort size		6	1/8	\bullet					
		В	1/4						
	1	0	3/8		\bullet		\bullet		
	1	5	1/2						
		:0	3/4						
	2	5	1						
Port thread type	C Por	t thread	l type					No	ot
	Bla	ank	Rc thread						
		N	NPT thread						
		G	G thread	•	\bullet				
	D Opt	ion				N	ote 2	2, No	ot
D Optio	Pressure	1	0.05 to 0.85MPa	٠					T
	Range	L	0.05 to 0.35MPa Note 4	\bullet					T
	Relief	Blank	With relief mechanism	\bullet	\bullet		\bullet	\bullet	Γ
	Relief	N	Non-relief type	\bullet	\bullet				
		Blank	Standard pressure gauge (G401-W)	•	\bullet	\bullet	\bullet	\bullet	
	Pressure	Т	Without pressure gauge (gauge port (Rc1/4) assembled sealed)	٠	\bullet				
	gauge	Т8	Pressure gauge attachable (gauge port (Rc1/4) assembled open)	\bullet	\bullet				
	gauge	Т6	Compatibility with digital pressure sensor PPX Note 5	•	•	•		\bullet	
		R1	Pressure switch with display PPD assembled Note 6	•	\bullet				
	Flow	Blank	Standard flow (left to right)	•	\bullet				
	Direction	X1	Reverse flow (right to left)	•					
Displayed	E Dis	played	unit						
Usplayed	Bla	ank	MPa display, Rc thread	٠					Τ
	J	1	MPa display, NPT, G thread	٠					
	F Pip	ing ada	ptor set (included) No	te 7	, 8	page	es 15	i5 to	
	Bla	ank	Not attached	٠		•			Τ
	A6	*W	1/8 piping adaptor set	٠					T
	A8	*W	1/4 piping adaptor set	٠					T
	A1	0*W	3/8 piping adaptor set	٠					Ť
	A1	5*W	1/2 piping adaptor set						T
Cautions for model No. selection	n A2	D*W	3/4 piping adaptor set						
	- A2	5*W	1 piping adaptor set						
and gauge ports.	A32	2*W	1 1/4 piping adaptor set						
te 2: When selecting options for several items, li options in order from the top.	^{ist} * Adap	tor thre	ad type				1	1	
ote 3: Position of the check valve and pressu	re Bla	ank	Rc thread	•	\bullet		•	\bullet	
gauge can not be changed. If the revers		N	NPT thread	•	•				
direction of IN and OUT are required indicate "X1" in the end of optional section	· · · ·	G	G thread	•					
te 4: Pressure gauge display range will be 0 to 0	0.4 G Atta	achmen	t	N	lote	9 P	age	152,	, '
MPa for option "L". te 5: When option "T6" is selected, only "blank"	or Bla	ank	Not attached	٠	\bullet				
"R2" is selected for the (G) pressure gaug	ge B	W	C type bracket	\bullet	\bullet				
(enclosed). The digital pressure sensor PF mounting port (Rc1/8) is assembled ventilated.		BW	L type bracket Note 10	•	\bullet	•	\bullet	\bullet	ļ
te 6: Out put type will be NPN transistor output. Const		ŧW	B type bracket		\bullet				1
with CKD if PNP transistor output is required.	ha	5P	G45D-8-P10 (L: G45D-8-P04)	•	\bullet				ļ
te 7: The piping adapter set and C bracket cannot t used together.	G4	19P	G49D-8-P10 (L: G49D-8-P04)	•	\bullet		\bullet		ļ
ote 8: A joiner set is attached with the piping adapter se		59P	G59D-8-P10 (L: G59D-8-P04)	•	\bullet		\bullet	\bullet	1
ote 9: If NPT is selected for the "C" piping thread typ	G	10P	G40D-8-P10 (L: G40D-8-P04)	•	\bullet				ļ
a NPT pressure nauge is enclosed. If Ro or	1 65	50P	G50D-8-P10 (L: G50D-8-P04)	•	•			\bullet	1
a NPT pressure gauge is enclosed. If Rc or thread is selected, an R thread pressure gauge	ge O						-		1
thread is selected, an R thread pressure gaugis enclosed.	G4	1P	G41D-8-P10 (L: G41D-8-P04)	•				•	+
thread is selected, an R thread pressure gauge	ge G4 NS G5	52P	G41D-8-P10 (L: G41D-8-P04) G52D-8-P10 (L: G52D-8-P10) Digital pressure sensor: PPX-R10N-6M	•	•	•	•	•	╞

Flow characteristics



Set pressure

Set pressure

0.4

0.4

0.6

0.6

Primary pressure (MPa)

0.8

Primary pressure (MPa)

0.8

Pressure characteristics, Internal structure and parts list

• R3100-W

Ő.2

0.2

• R8100-W

0.21

0.2

0.19

0.18 0.17

R3
 0.22
 0.21
 x.0.2
 x.0.

Becondary pressure

Set pressure

0.6

0.6

0.8

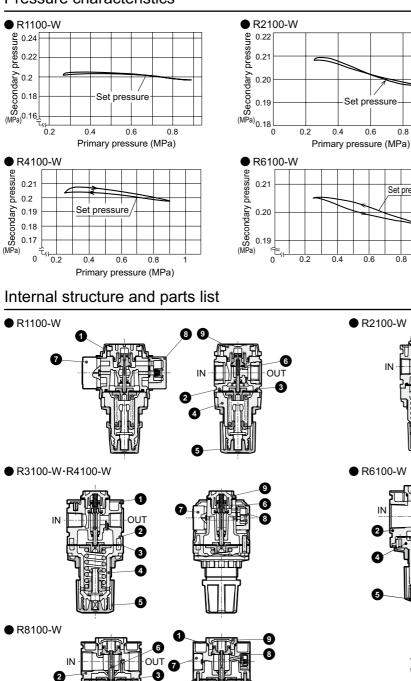
Set pressur

0.8

0.4

0.4

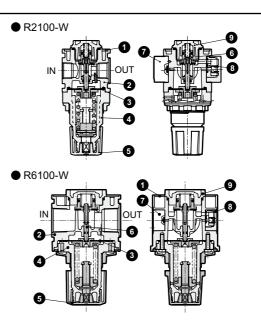
Pressure characteristics



	0							
No.	Deut neme		Material					
NO.	Part name	R1100-W	R2100-W	R3100-W	R4100-W	R6100-W	R8100-W	
1	Plate cover			ABS	resin			
2	Body	Polyamide resin, steel	olyamide resin, steel Aluminum alloy die-casting					
3	Diaphragm assembly	Polyacetal resi	Polyacetal resin nitrile rubber Zinc alloy die-casting, nitrile rubber Note 2				er Note 2	
4	Cover	Polyamide resin	Polyamide resin PBT Resin Aluminum aloy de-				Aluminum alloy die-casting	
5	Knob		Polyacetal resin					
6	Valve assembly	Brass, hydrog	Brass, hydrogenated nitrle rubber (polyacetal resin: R2100-W, R3100-W, R4100-W only)					
7	Pressure gauge assembly	PBT resin, polyacetal resin, polycarbonate resin, nitrile rubber, brass, copper						
8	Check valve full assembly	PBT resin, nitrile rubber, stainless steel wire, steel						
9	Bottom plug	Polyacetal resin Aluminum alloy die-casting						
Not	Note 1: Pofer to page 128 for ropair parts kits							

Note 1: Refer to page 128 for repair parts kits.

Note 2: Aluminum will be added for R6000-W for low pressure.

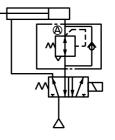


Functional explanation

When the primary pressure is introduced from the IN side, the check valve functions as a regular regulator because it closes with primary pressure and spring load. When primary pressure is released by a changeover valve such as a shut-off valve, the check valve opens with secondary pressure. Pressure in the diaphragm chamber is released and pressure drops. This causes the diaphragm to be pressed down by the pressure adjustment spring. The main valve (valve assembly) opens, and the air on the OUT side is discharged.

Circuit diagram

When cylinder head side and rod side pressure is different.

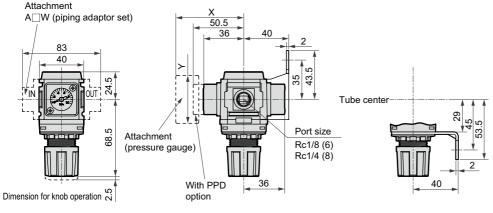


Note: Set back pressure A for when the primary pressure is released within the range in the graph for the regulator's set pressure.

CAD

Dimensions

• R1100-W



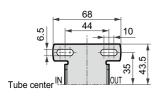
Panel cut dimensions

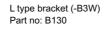


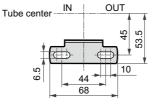
Panel thickness: Max. 6mm



C type bracket (-BW) Part no: B120



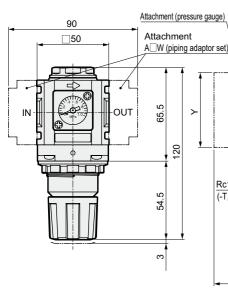


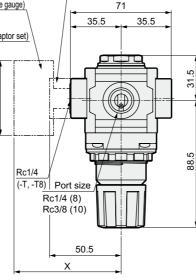


Option (with PPD)

Option dimensions with pressure gauge attached				
Attached pressure gauge	Х	Y		
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		

• R2100-W

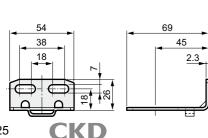


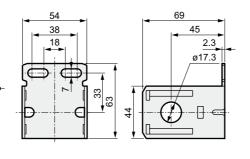


• C type bracket (-BW)

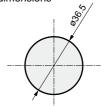
Part no: B220

 L type bracket (-B3W) Part no: B230





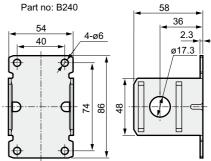
Panel cut dimensions



Panel thickness: Max. 4mm

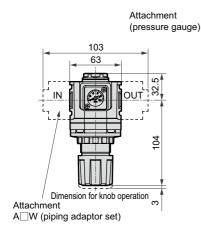
Option dimensions	Option dimensions with pressure gauge attached			
Attached pressure gauge	X	Y		
G45P	(73.5)	ø39		
G49P	(73)	ø43.5		
G59P	(75.5)	ø52		
G40P	(75)	ø42.5		
G50P	(75)	ø52.5		
G41P	(73.5)	ø42		
G52P	(85.5)	ø52.5		
R2	(73)	□30		

L type bracket (-B4W) Part no: B240



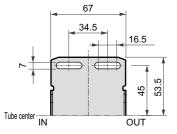
Dimensions

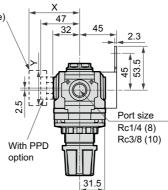
• R3100-W



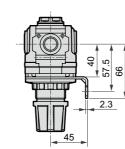


Part no: B320





L type bracket (-B3W) Part no: B330



Panel cut dimensions

Panel thickness: Max. 7mm

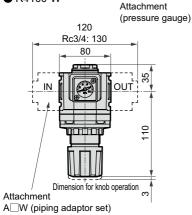
Option dimensions with pressure gauge attached

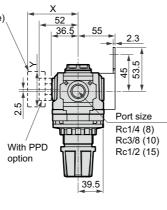
H	67
	34.5
	53.5
Tube center IN	OUT

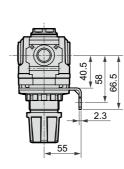
Tube center IN OUT ŝ 99 57 \bigcirc 16.5 34.5 67

Attached pressure gauge	X	Y
G45P	(70)	ø39
G49P	(69.5)	ø43.5
G59P	(72)	ø52
G40P	(71.5)	ø42.5
G50P	(71.5)	ø52.5
G41P	(70)	ø42
G52P	(82)	ø52.5
R2	(69.5)	□30

• R4100-W





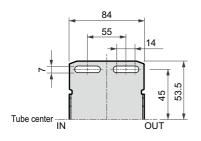


Panel cut dimensions

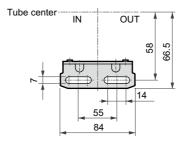


Panel thickness: Max. 7mm

 Attachment C type bracket (-BW) Part no: B420

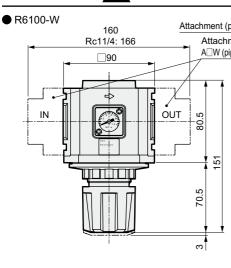


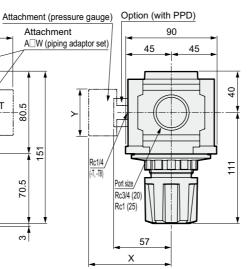
L type bracket (-B3W) Part no: B430



Option dimensions with pressure gauge attached				
Attached pressure gauge	X	Y		
G45P	(75)	ø39		
G49P	(74.5)	ø43.5		
G59P	(77)	ø52		
G40P	(76.5)	ø42.5		
G50P	(76.5)	ø52.5		
G41P	(75)	ø42		
G52P	(86)	ø52.5		
R2	(75)	30		
CKD 1				

CAD Dimensions





L type bracket (-B3W)

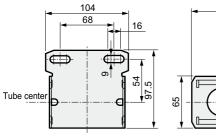
Part no: B430

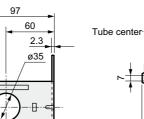
Panel cut dimensions



Pressure gaug	Pressure gauge option dimensions				
Attached pressure gauge	X	Y			
G45P	(80)	ø39			
G49P	(79.5)	ø43.5			
G59P	(82)	ø52			
G40P	(81.5)	ø42.5			
G50P	(81.5)	ø52.5			
G41P	(80)	ø42			
G52P	(93)	ø52.5			
R2	(80)	□30			

 Attachment C type bracket (-BW) Part no: B620





Х

2

(pressure gauge)

With PPD (option)

Attachment

62

50

65

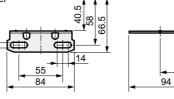
50

2.3

6

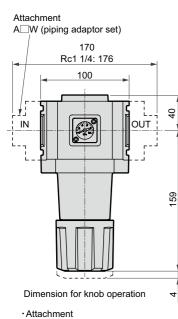
Port size

Rc3/4 (20) Rc1 (25)

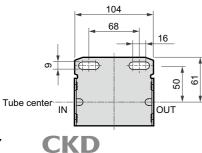




• R8100-W



C type bracket (-BW) Part no: B820



Option dimensions with pressure gauge attached				
Attached pressure gauge	X	Y		
G45P	(85)	ø39		
G49P	(84.5)	ø43.5		
G59P	(87)	ø52		
G40P	(86.5)	ø42.5		
G50P	(86.5)	ø52.5		
G41P	(85)	ø42		
G52P	(98)	ø52.5		
R2	(85)	□30		

Optional parts drawing

Repair parts kit (Set consisting of diaphragm assembly, valve assembly, bottom spring, louver, element, baffle, bowl O ring)

Repair kit model no. Model	Relief type diaphragm	No relief type diaphragm
R1000-W, R1100-W	R1000-KIT	R1000-KIT-N
R2000-W, R2100-W	R2000-W-KIT	R2000-W-KIT-N
R3000-W, R3100-W, RM3000-W	R3000-KIT	R3000-KIT-N
R4000-W, R4100-W, RM4000-W	R4000-KIT	R4000-KIT-N
R6000-W, R6100-W	R6000-KIT R6000-KIT-L (for low pressure range)	R6000-KIT-N R6000-KIT-LN (for low pressure range)
R8000-W, R8100-W	R8000-KIT	R8000-KIT-LN

Valve assembly (valve assembly, bottom spring, bottom O ring set)

Model	Valve assembly model no.
R1000-W, R1100-W	R1000-VALVE-ASSY
R2000-W, R2100-W	R2000-W-VALVE-ASSY
R3000-W, R3100-W, RM3000-W	R3000-VALVE-ASSY
R4000-W, R4100-W, RM4000-W	R4000-VALVE-ASSY
R6000-W, R6100-W	R6000-VALVE-ASSY
R8000-W, R8100-W	R8000-VALVE-ASSY

* Refer to page 209 for gauge plug assembly

Check valve for reverse regulator assembly

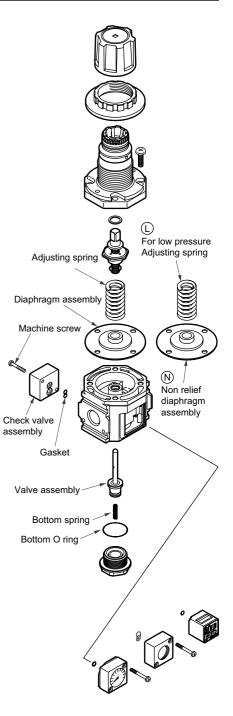
Model	Check valve assembly model no.
R1000-W, R1100-W	R1100-W-CHECK-VALVE-ASSY
R2100-W	R3100-W-CHECK-VALVE-ASSY
R3100-W, RM3000-W, W3100-W R4100-W, RM4000-W, W4100-W R6100-W, R8100-W W8100-W	R3100-W-CHECK-VALVE-ASSY

Adjusting spring

Adjusting spring model no. Model	Standard spring (0.05 to 0.85MPa)	Spring for low pressure (0.05 to 0.35MPa)
R1000-W, R1100-W W1000-W, W1100-W	R1000-SPRING	R1000-SPRING-L
R2000-W, R2100-W	R2000-W-SPRING	R2000-W-SPRING-L
R3000-W, R3100-W, RM3000-W W3000-W, W3100-W	R3000-SPRING	R3000-SPRING-L
R4000-W, R4100-W, RM4000-W W4000-W, W4100-W	R4000-SPRING	R4000-SPRING-L
R8000-W, R8100-W	R8000-SPRING	R8000-SPRING-L
W8000-W, W8100-W	W8000-SPRING	W8000-SPRING-L

Diaphragm assembly (diaphragm assembly only)

Diaphragm assembly model no.	Relief type	Non-relief type
Model	Diaphragm	Diaphragm
R1000-W, R1100-W W1000-W, W1100-W	R1000-DIAPHRAGM-ASSY	R1000-DIAPHRAGM-ASSY-N
R2000-W, R2100-W	R2000-DIAPHRAGM-ASSY	R2000-DIAPHRAGM-ASSY-N
R3000-W, R3100-W, RM3000-W W3000-W, W3100-W	R3000-DIAPHRAGM-ASSY	R3000-DIAPHRAGM-ASSY-N
R4000-W, R4100-W, RM4000-W W4000-W, W4100-W	R4000-DIAPHRAGM-ASSY	R4000-DIAPHRAGM-ASSY-N
R6000-W, R6100-W	R6000-DIAPHRAGM-ASSY R6000-DIAPHRAGM-ASSY-L (for low pressure range)	R6000-DIAPHRAGM-ASSY-N R6000-DIAPHRAGM-ASSY-LN (for low pressure range)
R8000-W, R8100-W	R8000-DIAPHRAGM-ASSY	R8000-DIAPHRAGM-ASSY-N
W8000-W, W8100-W	W8000-DIAPHRAGM-ASSY	W8000-DIAPHRAGM-ASSY-N





Lubricator Standard white series L1000/L3000/L4000/L8000-W Series

Supply fine mist oil. Port size: 1/8 to 1

JIS symbol



Specifications

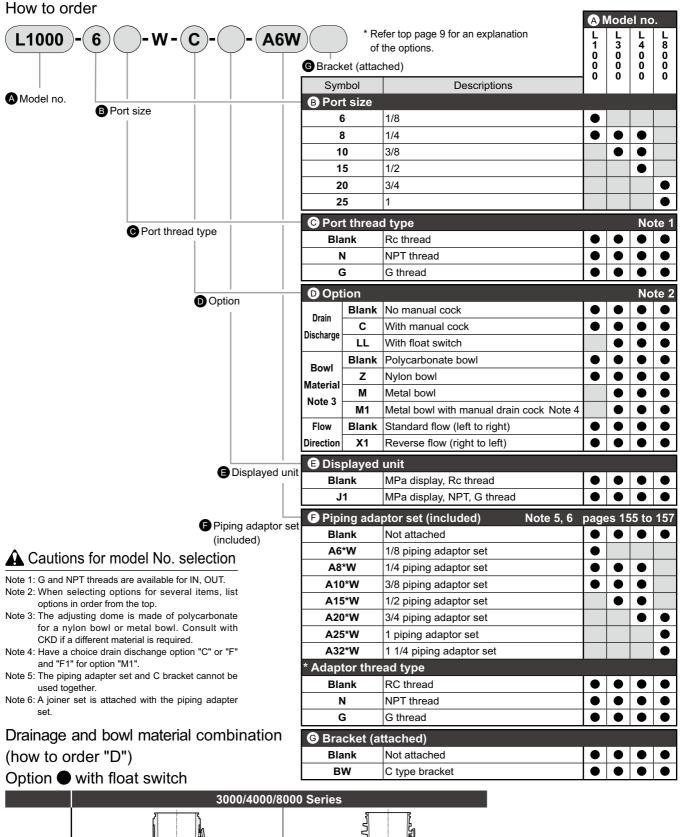
Descriptions	Descriptions L1000-W		L4000-W	L8000-W		
Exterior	HA CARTON HA CARTON HALE IN THE INTERNAL INTERNA					
Working fluid		Compre	essed air			
Max. working pressure MPa	1.0					
Withstanding pressure MPa	1.5					
Working temperature °C	5 to 60					
Minimum drip flow Note 1 m ³ /min (ANR)	0.015	0.03	0.065	0.065		
Oil capacity cm ³	20	85	170	170 (MAX360)		
Applicable oil	Turbine oil Class 1 ISO VG32 (spindle oil can not be used)					
Port size Rc, NPT, G	1/8, 1/4 (3/8 uses an 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)		
Product weight kg	0.1	0.28	0.45	1.4		
Standard accessories		Bowl	guard			

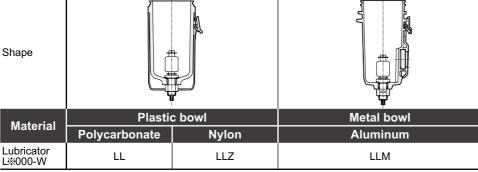
Note 1: The minimum drip flow is is the amount of flow that allows five drops of turbine oil drip per minute at primary pressure of 0.5 MPa and intake air temperature of 20°C. (Can not be used for dry fog)

Float switch electircal specifications

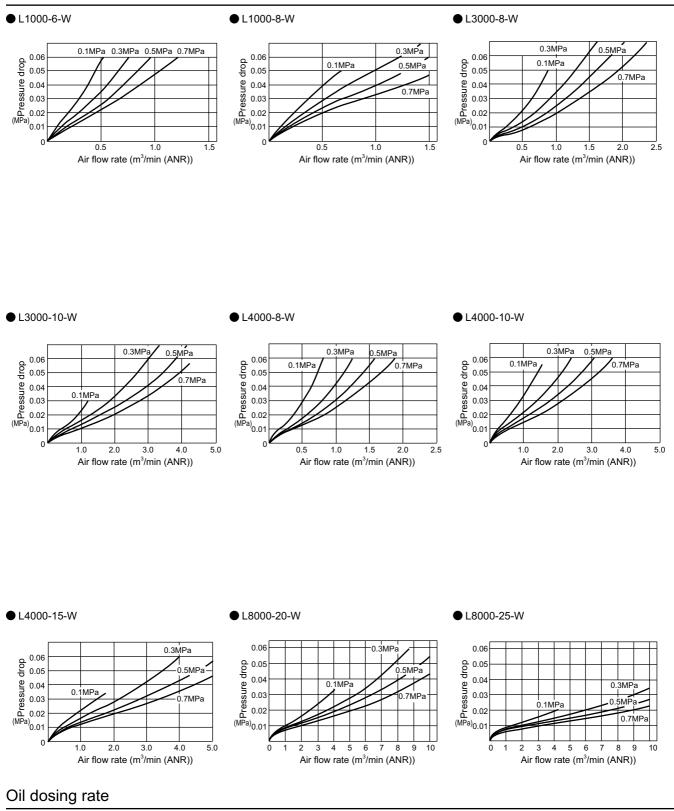
Descriptions	
Control points	1 points
Operation	Rising float will (oil full) will turn the switch OFF, and lowering float (no oil) will turn the switch ON.
Maximum working voltage	AC240V, DC200V
Maximum opening/closing capacity	50 VA or 50 W, whichever is smaller
Maximum opening/closing current	0.5A
Withstanding pressure between contacts	DC400V for 1 min, leakage current 1mA or less
Contact resistance	$220m\Omega$ or less (between terminal sections)
Insulation resistance	100M Ω and over (between terminal and cases, 500 VDC megger)
Withstanding voltage	AC1500V 1min. (between case and terminal)
Electrical service life	10 ⁶ cycles (AC200V, 200mA, with resistance)

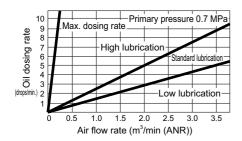
How to order



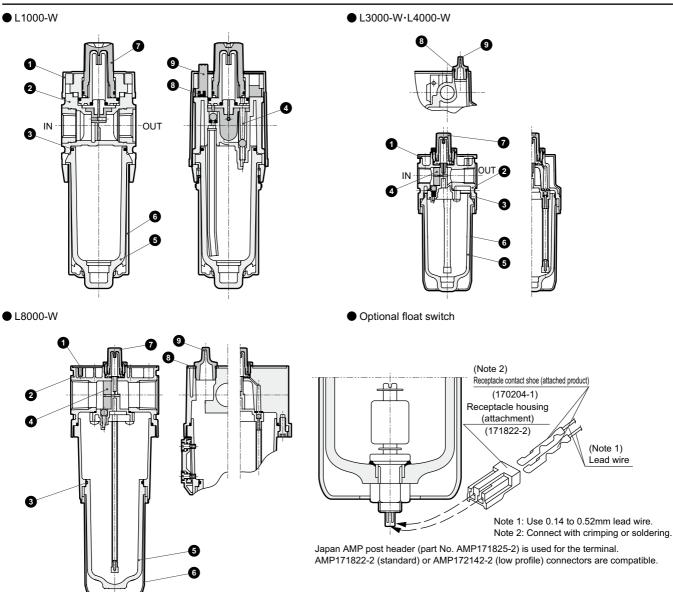


Flow characteristics





Internal structure and parts list



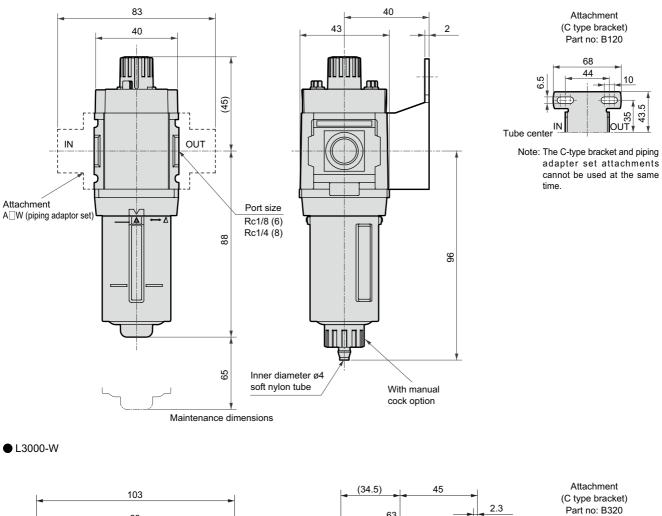
No.	Part name	Material				
NO.	Fait name	L1000-W	L3000-W	L4000-W	L8000-W	
1	Plate cover		ABS	resin		
2	Body	Polyamide resin, steel		Aluminum alloy die-casting		
3	O-ring Note 1	Special nitrile rubber				
4	Flow guide	Urethane rubber resin Nitrile rubber				
5	Bowl	Polycarbonate resin				
6	Bowl guard	Polyamide resin Polyamide resin, steel				
7	Adjusting dome	Transparant nylon				
8	O-ring	Nitrile rubber				
9	Filling plug		Polyace	tal resin		

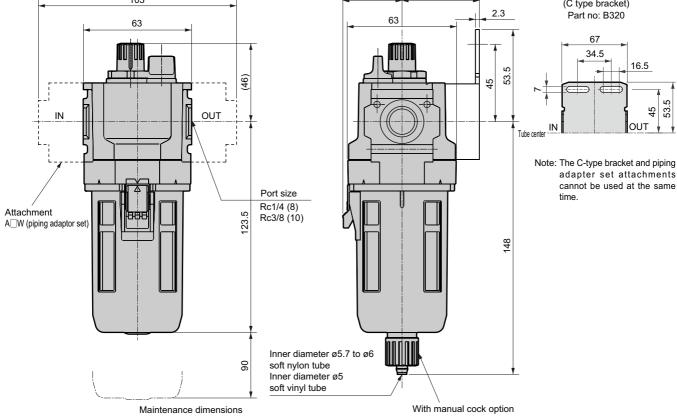
Note 1: L1000-W O ring has a special shape.

CKD 132

Dimensions CAD

• L1000-W



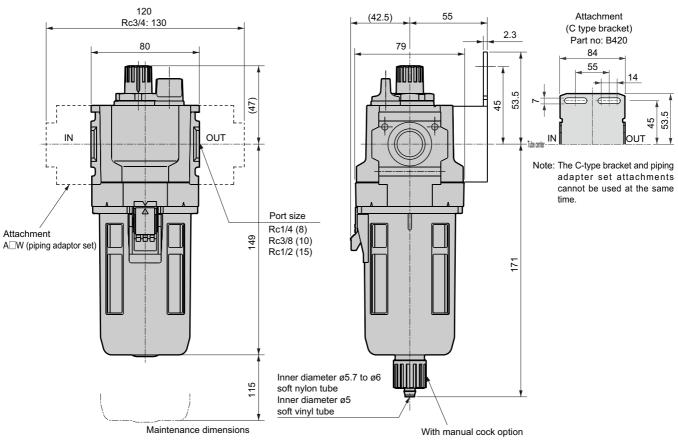


133 **CKD**

Dimensions

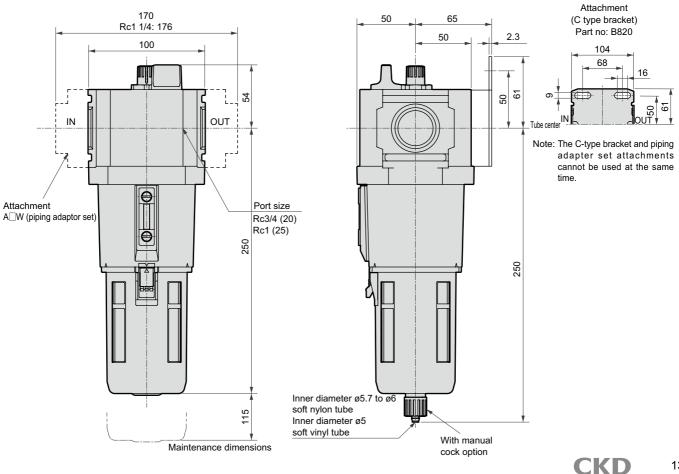
Dimensions CAD





Note: C-type bracket and piping adapter set attachments cannot be used at the same time.

• L8000-W

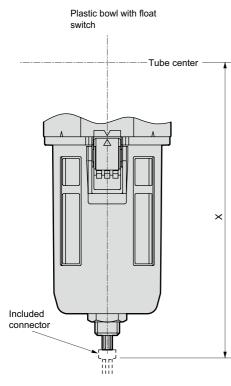


Option dimensions

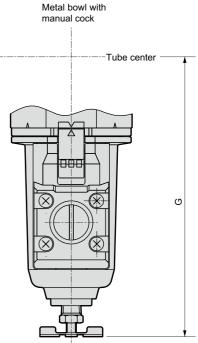
Other options [_3000-W, 4000-W, 8000-W]

CAD

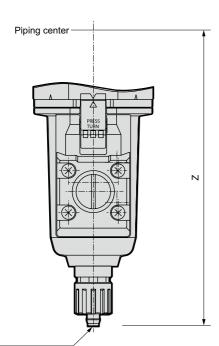
Plastic bowl (Blank)



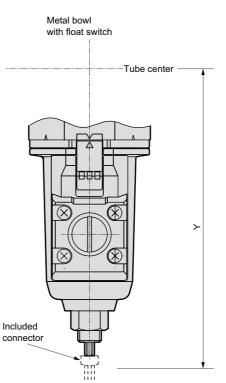
 Metal bowl (manual cock) (M) Metal bowl with manual cock (CM) Metal bowl No manual cock Tube center U



Metal bowl with manual drain cock (CM1)



Metal bowl with float switch (LLM)



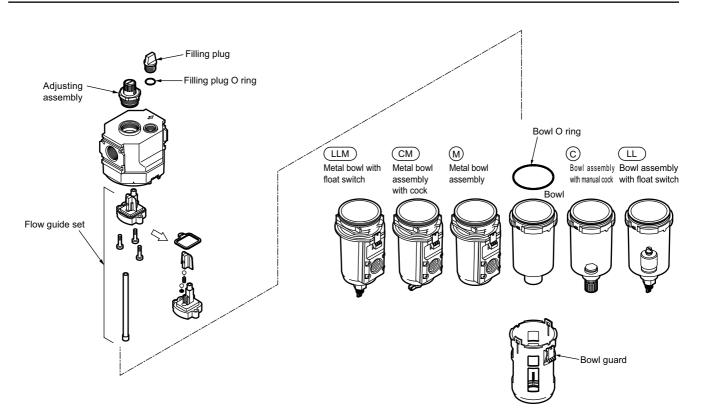
Drain port

Model no.	С	G	X	Y	Z
L3000-W	129	143.5	147	153.5	154
L4000-W	152	166.5	170	177	177
L8000-W	231.5	245.5	249	256	256

135 **CKD**

Lubricator series Optional parts drawing

Option dimensions



Repair parts (filling plug O ring, adjusting assembly, flow guide set, bowl O ring set)

Model no.	Repair kit model no. for polycarbonate bowl	Repair kit model no. for nylon bowl and metal bowl
L3000-W	L3000-W-KIT	L3000-W-KIT-Z
L4000-W	L4000-W-KIT	L4000-W-KIT-Z
L8000-W	L8000-W-KIT	L8000-W-KIT-Z

Bowl assembly (Set of bowl assembly and bowl O ring)

Bowl assembly model no. Model no.	Polycarbonate bowl without cock (Blank)		Metal bowl without cock (M)	Polycarbonate bowl with cock (C)	With cock Nylon bowl (CZ)	Metal bowl with cock (CM)			Metal bowl with float switch (LLM)
L1000-W	L1000-BOWL	L1000-BOWL-Z	-	F1000-W-BOWL	F1000-W-BOWL-Z	-	-	-	-
L3000-W	L3000-BOWL	L3000-BOWL-Z	L3000-W-BOWL-M	F3000-W-BOWL	F3000-W-BOWL-Z	F3000-W-BOWL-M	L3000-BOWL-LL	L3000-BOWL-LLZ	L3000-W-BOWL-LLM
L4000-W, L8000-W	L4000-BOWL	L4000-BOWL-Z	L4000-W-BOWL-M	F4000-W-BOWL	F4000-W-BOWL-Z	F4000-W-BOWL-M	L4000-BOWL-LL	L4000-BOWL-LLZ	L4000-W-BOWL-LLM

 * Refer to air filter options and parts table for details on bowl guard.

Adjusting assembly

Model no.	Adjusting assembly model no. (for polycarbonate bowl)	Adjusting assembly model no. (for nylon and metal bowl)
L3000-W, L4000-W, L8000-W	L3000-W-AJ-KIT	L3000-W-AJ-KIT-Z

Flow guide set

Model no.	Flow guide set model no.
L3000-W	L3000-FLOW-GUIDE
L4000-W	L4000-FLOW-GUIDE
L8000-W	L8000-FLOW-GUIDE

Filling plug set (fill plug and fill plug O ring)

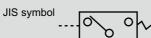
Model no.	Filling plug set model no.			
L3000-W, L4000-W	L3000-W-PLUG			
L8000-W	L8000-W-PLUG			



Mechanical pressure switch Standard white series

P4000-W Series

Wide pressure setting range covers 0.1 to 0.8 MPa. Port size: 1/4 to 1/2

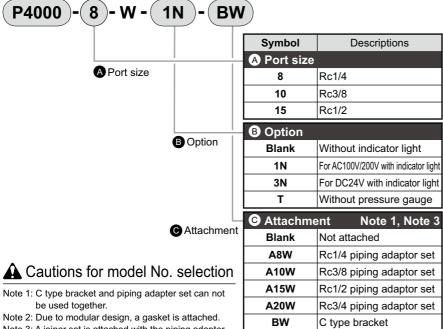




Specifications

Descriptions	P4	W-8-000	/	P4000)-10-W	P	4000-1	5-W
Working fluid		Compressed air						
Max. working pressure MPa	a	1.0						
Withstanding pressure MPa	a			1	.5			
Pressure adjusting range MPa	a			0.1 t	o 0.8			
Fluid temperature °C	>	5 to 60						
Port size Ro	>	1/4		3	/8		1/2	
Microswitch model no.		ZI5GD-B (OMRON)						
Contact configuration at	0	1						
Hysteresis MPa		Hy	vsteresis	0.049 o	r less at (0.1 to 0.4	19.	
	1	H	ysteresis	s 0.078 c	or less at	0.5 to 0.	8.	
Repeatability MPa	±0.02 of set pressure range							
Withstanding cycle frequiency cycles/mi	20							
Insulation resistance MC	100 or more (at CD500V megger)							
Product weight kg			0.5					
Mounting	Install adjusting screw vertically.							
Microswitch rated								
Load	Non	Noninductive load (A)		In	Inductive load (A)			
Circuit	Resista	Resistance load Lamp load		Inductive load Electric motor load				
Voltage	N.C	N.O	N.C	N.O	N.C	N.O	N.C	N.O
AC125V	15	15	3.0	1.5	15	15	5.0	2.5
AC250V	15	15	2.5	1.25	15	15	3.0	1.5
DC30V	6.0	6.0	3.0	1.5	5.0	5.0	5.0	2.5

How to order

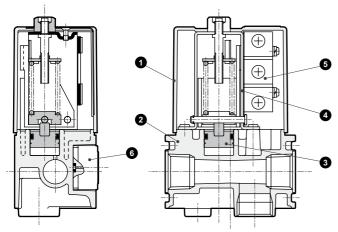


Note 3: A joiner set is attached with the piping adapter set.

P4000-W Series

Internal structure · dimensions · safety precautions

Internal structure and parts list



No.	Part name	Material	No.
1	Cover	Resin	-
2	Body	Aluminum alloy die-casting	-
3	Piston assembly	Polyacetal resin, nitrile rubber	-
4	Frame	Steel	-
5	Microswitch	-	Z15GD-B (OMRON)
6	Pressure gauge assembly	PBT resin, brass	G401-W

* Remove cover ① and wire directly to the microswitch ⑤.

* 1 gasket attached

▲ Safety precautions

■Design & Selection

A CAUTION

1 Microswitch contact specification.

Closed circuit Maximum 30 A Open circuit Maximum 15A Rush current should be measured beforehand.

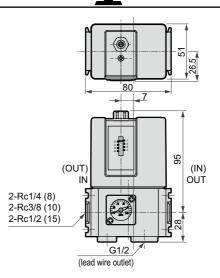
■Installation & Adjustment

A CAUTION

1 When wiring, loosen cover mounting screws, remove the cover, then wire to the microswitch inside.

2 Wiring the sensor with light

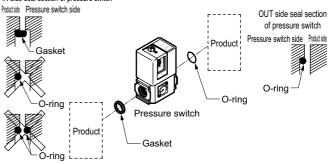
- The light is connected to the microswitch's NC terminal and NO terminal. A fine current flows even when the load (relay, etc.) is not energized, so take care when selecting the load. AC100V 1.5mA AC200V 2.0mA DC24V 4.5mA
- To turn the light on at a level higher than the set pressure and off at a level less than the set pressure, wire to the microswitch COM terminal and NC terminal. Also, attach it on the cover where it is easily visible Name plate post pressure up → lights on
- To turn the light on at a level less than the set pressure and off at a level higher than the set pressure, wire to the microswitch COM terminal and NO terminal. Also, attach it on the cover where it is easily visible. Name plate post pressure up → lights off
- If there is a large amount of drainage, pipe so that the pressure adjustment screw is facing upward.
- 3 Avoid using in hot places because the cover is made of resin.
- 4 Hold the body when piping or installing.
- **5** Use with air that has been passed through an air filter.
- **6** Use the pressure absorbing nipple (6556) to detect sudden changes in pressure such as when confirming air cylinder pressure.
- Use the pressure absorbing nipple (6556) if pressure rise/lower pulsation is frequent. The product life could be shortened if the pressure absorbing nipple is not used.
- B Loosen the nut on the top of the cover, and adjust the pressure with the adjustment screw. The set pressure will rise when the screw is turned to the plus (+) side and will drop when turned to the minus (-) side. Use an 13mm wrench and a slotted screw driver to fix the nut after setting.
- **9** The scale is only for reference. (scale margin of error within ±0.05MPa)

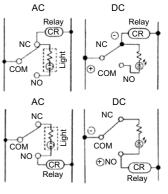


Reduction rate 0.24. (Photocopy at 141% four times to see actual dimensions.)

How to assemble

IN side seal section of pressure switch Pressure switch (P4000-W) seal section









Reed switch type compact mechanical pressure switch standard white series

P1100-W/P4100-W/P8100-W Series

Compatible with modular connection with FRL





Specifications

Descriptions		P_ 100-W		
Working fluid		Compressed air		
Max. working pressur	e MPa	1		
Set pressure range	MPa	0.1 to 0.6		
Hysteresis	MPa	0.08 or less		
Repeatability MPa		£0.02 or less		
Contact configuration		1a Note 1		
Wiring		Lead wire 1m (oil resistant vinyl cabtire cable 2-conductor 0.2 mm ²)		
Ambient temperature and fluid temperature.		5 to 60°C		
Protective structure Note 2		Equivalent to IP20		

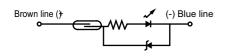
Note 1: The contact turns on if air pressure exceeding the scale setting pressure is applied.

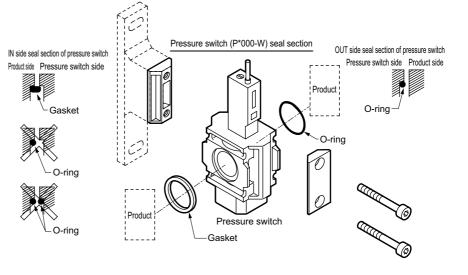
Note 2: The protective structure is IP 65 or equivalent if an optional joint is connected to the atmospheric pressure introduction port and extended with tubes to a place free of water. This port can not be used outdoors.

Electric component section specification					
Load voltage	DC12/24V	AC100V			
Load voltage	5 to 50mA	7 to 20mA			
Internal voltage drop	3V o	rless			
Light	LED(ON lighting)				
Maximum shock resistance	2941	m/S ²			
Insulation resistance	$20M\Omega$ and over at 500 VDC megger				
Withstanding voltage	ion of AC1000V for 1 minute.				

Internal circuit diagram

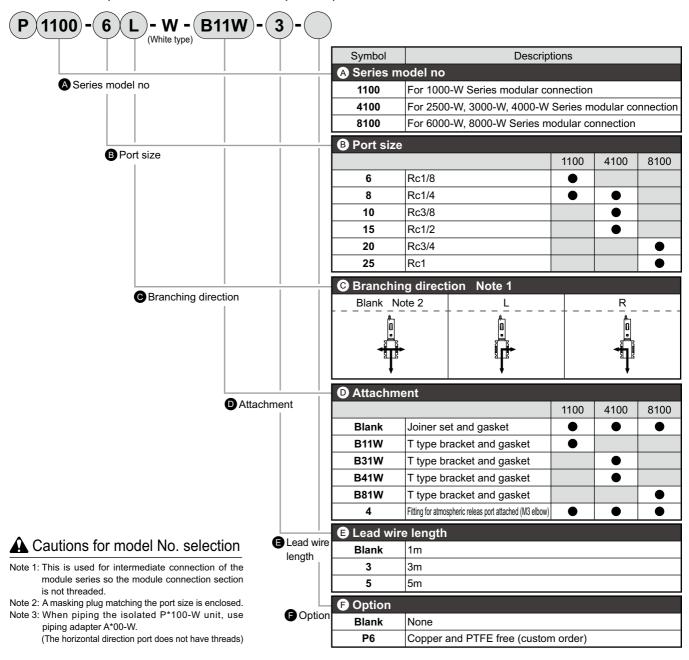
How to assemble (P1100-W, P4100-W, P8100-W)





P*100-W Series How to order

How to order (modular connection compatible)



Specification for LiB production (Catalog No.CC-947A)

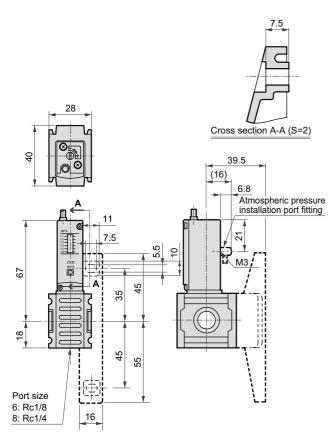
Specification for LiB manufacturing process

P4100 - · · · · · · · · · · · P4

P*100-W Series

Dimensions

• P1100-W



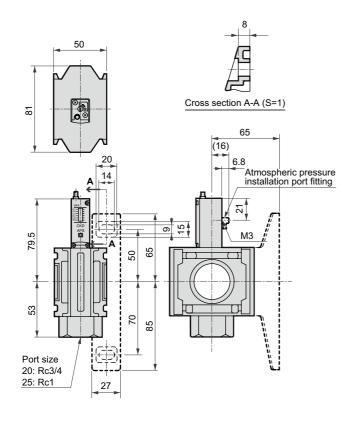
31.5 Æ 5 B310: 45 B410: 55 50 (16) 6.8 Atmospheric pressure installation port fitting m 7 2 Ð N N +М3 APS 69 55 45 37.5 60 70 Port size 8: Rc1/4 10: Rc3/8 15: 1/2 22

Weight 126g

• P4100-W

Weight 190g

• P8100-W



Weight 467g

Safety precautions

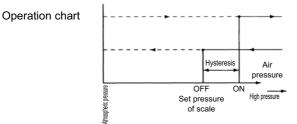
■Installation & Adjustment

A CAUTION

Setting pressure Settings are applied when the value is changed.
 Pressure displayed on the scale plate is used as the reference.

- When setting pressure, refer to the separate pressure gauge.
- Pressure displayed on the scale plate is the value when the contact is off. To set the value when the contact is on, set the pressure displayed on the scale plate to a value smaller than that from which hysteresis has been subtracted. If not set, operation may not take place at the set value.

(Hysteresis is the the difference of pressure it is required to turn the switch off after it has been turned on at the set pressure)



2 Installation

- Do not drop or bump the panel when handling it.
- Wire the lead so that the repeated bending strain and tensile strength are not applied to the wire as it may lead to disconnection
- Do not use this sensor near a strong magnetic field or large current (large magnet or spot welder, etc.) because the sensor could malfunction.
- The pressure switch is equivalent to IP-20, but the installation direction is limited to upward vertical. If water enters the introduction port for atmospheric pressure from below, pipe an M3 joint and extend with tubing to where water will not enter. Do not plug the fork lift holes as recycled air is discharged. (Only SHD Series) This port can not be used outdoors.

P*100 Series

- If there is drainage in pneumatic piping, install so that the pressure switch is higher than the drain.
- Do not pressurize suddenly. Product performance could drop or the product could be damaged.

3 Wiring

- Connecting the lead wire
 - ① Do not connect the lead directly to the power supply. Connect the load serially. Failure to do so could lead to disconnection.
 - ② When using for DC, connect the brown wire to the ⊕ side and the blue wire to the ⊙ side. The light will not light if wires are connected in reverse.
 - ③ When connected to the AC relay or PC input, if half wave rectification is done with these circuits, the switch light may not light. In this case, the light will light if the switch lead polarity is reversed.

Contact capacity

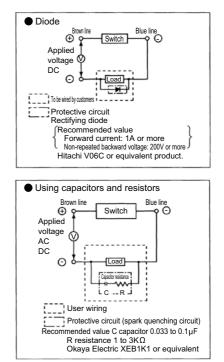
Do not exceed the specified load voltage and load current range.

Failure to do so could lead to disconnection or blown light. The light may not light if the current is less than the rated current value.

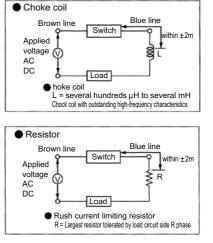
Contact protection

Тор

① When using this sensor with a conductive load such as a relay, provide the contact protection circuit shown at right. The contact could melt if this protection circuit is not provided.



② If DC wiring exceeds 50 m or AC wiring exceeds 10 m, the wiring capacity will be attained. A inrush current will occur, damaging the switch or shortening life.



Install a contact protection circuit if the wiring length is exceeded.



Shut-off valve Standard white series

EXH IN

V1000-W/V3000-W Series

1 action exhaust operation Prevent accidents caused by residual pressure. Port size: 1/8 to 1/2





Specifications

Descri	ptions	V1000-W	V3000-W			
Exterior		V1000-6-W/V1000-8-W	V3000-8-W V3000-10-W V3000-15-W			
Working fluid	-	Compressed air				
Max. working pressure MPa		1.0				
Withstanding p	ressure MPa	1.5 5 to 60				
Fluid temper	ature °C					
Operation lever	switching angle	90°				
0	Pushing force N	18	80			
Operating force	Torque N∙m	0.5	2			
-						

Valve section leaka	age <i>l</i> /min (ANR)			
External leakage	External leakage			
Port size	IN-OUT	1/8	1/4	
(Rc, NPT, G)	EXH	1/8		
Product weig	ght kg	0.17		
Effective sectional	IN·OUT	15	18	
area (mm ²)	OUT·EXH	Ę	5	

Applications

Explanation: When a solenoid valve and an air cylinder, etc. are repaired and adjusted, to ensure the safety, exhaust compressed air in the pneumatic circuit with a shut-off valve before starting work.

10

10

1/4

40

40

3/8

3/8

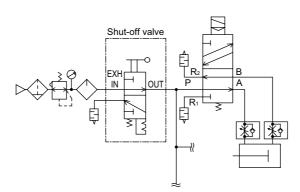
0.25 70

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1/2

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V*000-W Series How to order

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A Model no.

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Note 1, Note 2

For FRL 1000 Series - W -A6W V1000 6 (White type) For FRL 3000, 4000 Series A6W V3000 8 - W --((White type) Symbol Descriptions A Model no. B Port size B Port size 6 Rc1/8 8 Rc1/4 10 Rc3/8 15 Rc1/2 C Port thread type C Port thread type Blank Rc thread NPT thread Ν G G thread D Option D Option Blank Standard flow (left to right) X1 In/out reverse flow (right to left) E Displayed unit Displayed unit Blank MPa display, Rc thread MPa display, NPT, G thread J1 **F** Attachment F Attachment Blank No attachments A6*W 1/8 piping adaptor set A8*W 1/4 piping adaptor set A10*W 3/8 piping adaptor set A15*W 1/2 piping adaptor set A20*W 3/4 piping adaptor set

BW

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Blank

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G

Adaptor thread type

C type bracket

Silencer

Rc thread

G thread

NPT thread

A Cautions for model No. selection

How to order

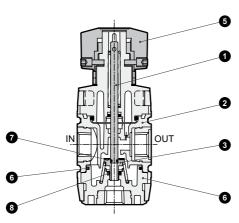
Note 1: The piping adapter set and C bracket cannot be used together. Note 2: A joiner set is attached with the piping adapter set.

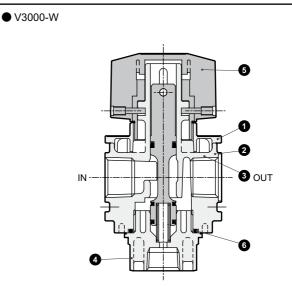


V:000-W Series

Internal structure and parts list







No.	Part name	Material
1	Spool	Steel
2	Body assembly	Polyamide resin, steel
3	Valve element	Brass, nitrile rubber
4	Bottom plug	Polyamide resin, steel
5	Knob	Polyacetal resin
6	Packing	Nitrile rubber
7	O-ring	Nitrile rubber
8	O-ring	Nitrile rubber

CAD

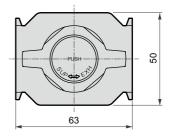
Dimensions

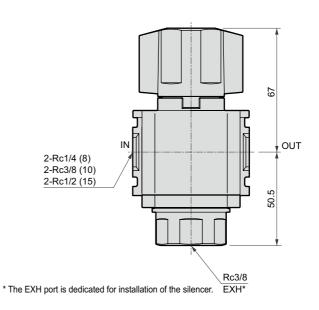
• V1000-W

No.	Part name	Material
1	Plate cover	ABS resin
2	Body	Aluminum alloy die-casting
3	Spool assembly	Aluminum alloy urethane resin
4	Bottom plug	PBT resin Note 1
5	Knob	Polyacetal resin
6	O-ring	Nitrile rubber

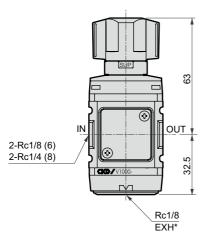
Note 1: The metal bottom plug is used as a custom-order part.

• V3000-W









* The EXH port is dedicated for installation of the silencer.

CKD

145



Lockout valve (OSHA compliant) Standard white series

V3010-W/V6010-W Series

Prevent accidents caused by residual pressure.





Specifications

Descri	ptions	V3010-8-W	V3010-10-W	V6010-20-W	V6010-25-W					
Working fluid	ł	Compressed air								
Max. working p	oressure MPa			1						
Withstanding p	ressure MPa			1.5						
Fluid temper	ature °C	5 to 60								
Operation lever	switching angle			90°						
Operating force	Pushing force N	80 or less								
Operating force	Torque N•m	2.5 or less								
Valve seat leakage	e cm ³ /min (ANR)	10 or less								
External leakage	cm ³ /min (ANR)	10 or less								
Port size	IN-OUT	1/4	3/8	1/2	Rc 3/4	Rc1				
(Rc, NPT, G) EXH		3/8 Rc1/2								
Product weight kg		0.3 0.8								
Effective sectional	IN→OUT	40	70	85	145	150				
area(mm ²)	OUT→EXH	40	50	50	105	110				

How to use

Regular use



 Maintenance work It can be locked at the position where residual pressure is released.



Exhaust

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Note 1, Note 2

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A Model no

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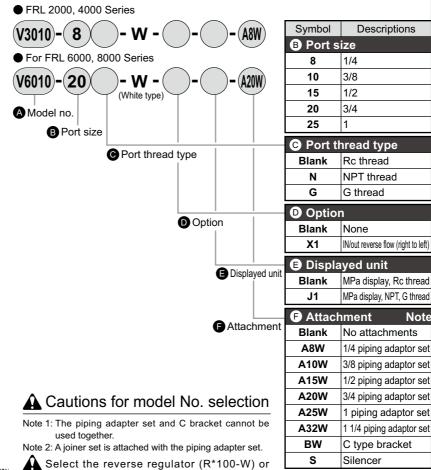


Standards for worker safety set by the United States.

<Lockout-Tagout>

When servicing or maintaining machinery, the air source shall be closed with a shutoff valve (lockout valve), and residual pressure shall be discharged. If a third party inadvertently operates the valve during such operation and compressed air is applied, the cylinder, etc., could move suddenly and injure personnel. This standard states that, "All valves used for such purposes shall have a key or a structure which can be locked with a key."

How to order



reverse filter regulator (W*100-W) when

installing the V*010-W onto the primary side of

the regulator or filter regulator.

Specification for LiB production (Catalog No.CC-947A)

Design applicable for LiB manufacturing process



CKD

Adaptor thread type

Rc thread

G thread

NPT thread

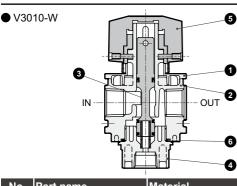
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V*010-W Series

Internal structure and parts list



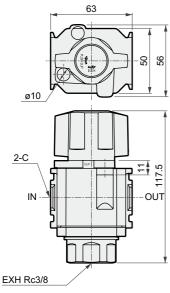
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No.	Part name	Material				
1	Plate cover	ABS Resin (Note 2)				
2	Body	Aluminum alloy die-casting				
3	Spool assembly	Aluminum alloy urethane resin				
4	Bottom plug	PBT Resin (Note 1) (Note 2)				
5	Knob	Aluminum alloy die-casting				
6	O-ring	Nitrile rubber				

Note 1: The metal bottom plug is used as a custom-order part. Note 2: Flame resistant resin UL94 standard equivalent

Dimensions (V3010-W)

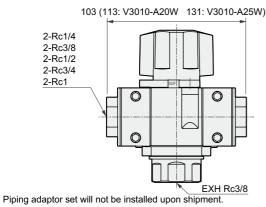


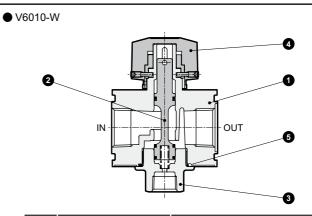
* The EXH port is dedicated for installation of the silencer.

Descriptions	С
V3010-8-W	Rc1/4
V3010-10-W	Rc3/8
V3010-15-W	Rc1/2

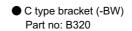
Adaptor attachment

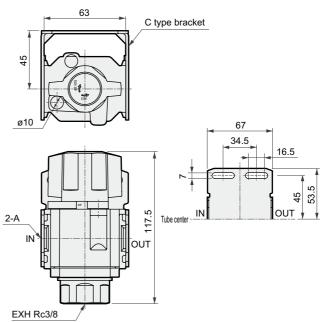
KD





No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	Spool assembly	Aluminum alloy, hydrogenated nitrile rubber
3	Bottom plug	Aluminum alloy die-casting
4	Knob	Aluminum alloy die-casting
5	O-ring	Nitrile rubber





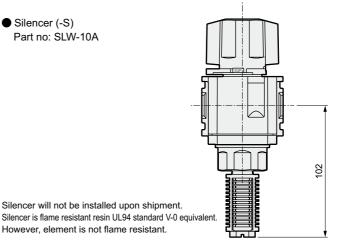
The C type bracket is attached at shipment.

However, element is not flame resistant.

C type bracket and piping adapter set can not be used together.

Silencer (-S)

Part no: SLW-10A

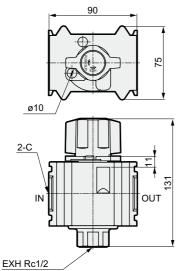


147

V*010-W Series

Dimensions, optional parts drawing

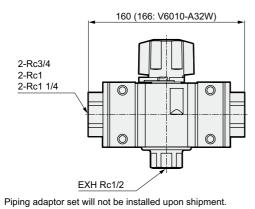
Dimensions (V6010-W)

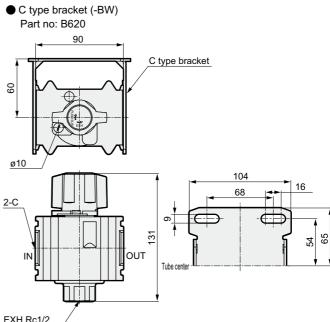


* The EXH port is dedicated for installation of the silencer.

Descriptions	С
V6010-20-W	Rc3/4
V6010-25-W	Rc1

Adaptor attachment



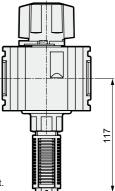


EXH Rc1/2

The C type bracket is attached at shipment.

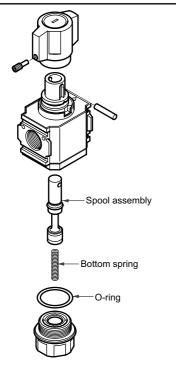
C type bracket and piping adapter set can not be used together.

 Silencer (-S) Part no.: SLW-15A



Silencer will not be installed upon shipment. Silencer is flame resistant resin UL94 standard V-0 equivalent. However, element is not flame resistant.

Shut off valve (V3000-W, V3010-W) optional parts drawing



Spool assembly

(Spool assembly and bottom spring set)

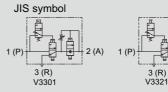
Model	Spool assembly model no.
V3000, V3010	V3000-SPOOL



Slow start valve standard white series

V3301-W/V3321-W Series

Securing safety at starts and stops. Port size: Rc1/4 to Rc1/2

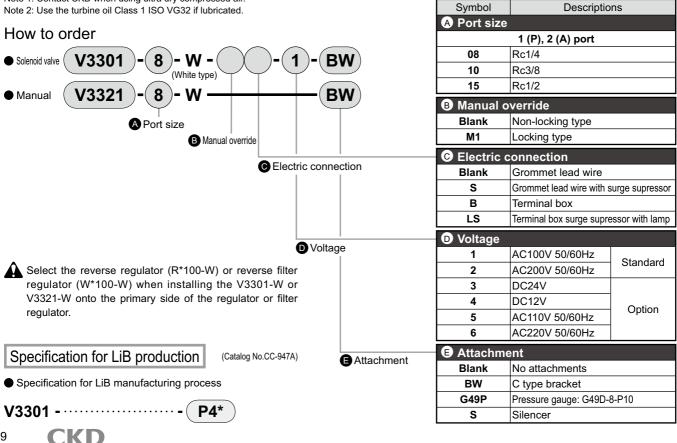


RoHS

Specifications

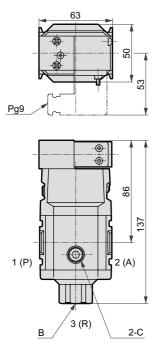
Descri	ptions	V3301-W/V3321-W						
Operating m	ethod	Pilot operated soft spool valve						
Working fluid	ł	Compressed air (excluding super dry air) Note 1						
Working pressu	ure range MPa		0.2 to 1.0					
Withstanding p	pressure MPa		1.5					
Ambient tempera	ature range °C		5 to 60					
	1 (P), 2 (A) por	Rc1/4	Rc3/8	Rc1/2				
Port size	3 (R) port		Rc3/8					
	Gauge port		Rc1/4					
Effective sectional area	Low speed intake		6					
Effective sectional area	High speed intake	40	64	76				
mm	High speed exhaus	50	74	78				
Response tir	ne	0.2sec or less						
Lubrication		Oil-free Note 2						
Weight	g	V3301-W: 635 V3321-W: 515						
Solenoid valve	e specification	V3301-W						
Rated voltag	je V	AC100 (50/60Hz)	AC200 (50/60Hz)	DC24				
Starting curr	ent A	0.076/0.058	0.038/0.030	0.092				
Holding curr	ent A	0.038/0.029	0.019/0.015	0.092				
Power consumption W		2.2/1.7	2.2/1.7	2.2				
Temperature	increase K	40 or less						
Voltage fluct	uation range	±10%						
Insulation cla	ass	B class						
Electric conr	nection	Grommet lead wire, terminal box						

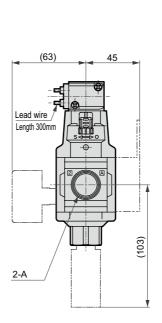
Note 1: Contact CKD when using ultra dry compressed air. Note 2: Use the turbine oil Class 1 ISO VG32 if lubricated.



Dimensions

• V3301-W



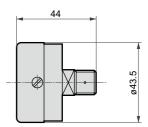


Dimensions

• Pressure gauge: G49D-8-P10

V3301-W·V3321-W Series

Bracket: B320



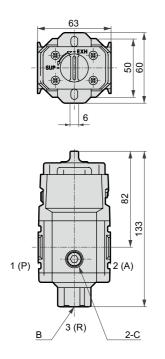
 A
 B
 C

 V3301-08-W
 Rc1/4

 V3301-10-W
 Rc3/8
 Rc3/8
 Rc1/4

 V3301-15-W
 Rc1/2

• V3321-W

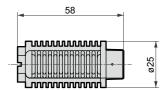


	(103)
<u>2-A</u>	

(63)

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Silencer: SLW-10A



	Α	В	С
V3321-08-W	Rc1/4		
V3321-10-W	Rc3/8	Rc3/8	Rc1/4
V3321-15-W	Rc1/2		



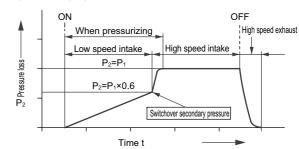
V3301-W/V3321-W Series

Operational explanation (refer to operating principles)

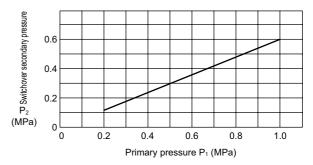
The slow start valve turns on when the solenoid valve is energized or the manual section is set to SUP. The valve turns off when the solenoid valve is deenergized or the manual section is set to EXH.

- (1) First, when the main unit is turned on, the low-speed supply path opens, and the compressed air starts to flow to the secondary side. The secondary pressure gradually starts to rise. The operable cylinders in the unit will start moving at a low speed and thus will not pop out.
- (2) Next, when secondary pressure exceeds 60% of primary pressure, the hight speed supply path opens. Secondary pressure suddenly rises tot he same pressure as primary pressure. (fully open)
- (3) When the main unit is turned OFF, high speed exhaust starts and residual pressure in the unit is exhausted.





Switchover secondary pressure

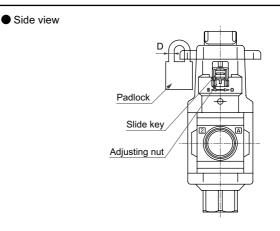


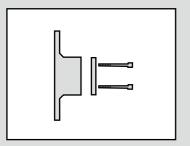
How to adjust slow start function (refer to side view)

- (1) Press the slide key up and release the adjustment nut lock.
- (2) Turn the main unit on, and confirm the cylinder operation speed and secondary pressure rise time. Then turn the main unit off.
- (3) Turn the adjustment nut as explained below, and adjust the state. Cylinder pops out → Turn to the S side Low speed operation time is too long → Turn to the O side Repeat steps (2) and (3) as necessary, and adjust to the optimum
- state. (4) Align the adjustment nut keyway to the projection on the slide key.
- (4) Align the adjustment nut keyway to the projection on the slide key(5) Press down the slide key and lock the adjustment nut.
- (6) Confirm that the main unit is off.

▲ Safety precautions

- Note 1: This valve is dedicated for starting and stopping (including emergency stop) the device. This valve should not be used for cylinder repeat operation or as a normal 3-way valve.
- Note 2: If the minimum operating pressure of the cylinder, which is to be kept from popping out, is less than 50% of the working pressure, popping out will not be prevented.
- Note 3: The manual override is locked with the manual valve type. Select a padlock with a D dimension of 3.8 to 5.8 mm.
- Note 4: Connect a silencer or exhaust filter, etc., to the exhaust port for safety and sound absorption.





Bracket Standard white series

B-W/B Series Joiner Standard white series



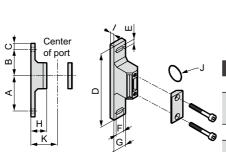
Applications



Note: Select B410-W when using the 3000-W Series and 4000-W Series combined.

Dimensions and applications

T type bracket set

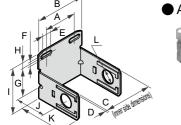


Model no.	Applicable model	Α	В	С	D	Е	F	G	н	I	J	К
B110-W	1000 Series	45	35	10	100	5.5	7.5	16	25	7.5	JASO-2013	40
B310-W	2000 Series	60	45	10	125	7	14	22	27	7	JISB2401-P21	45
D310-W	3000 Series											
B410-W	4000 Series	60	45	10	125	7	14	22	37	7	JISB2401-P21	55
B810-W	6000 Series	70	50	50 45	450	9	14	14 27	37	8	AS568-127	65
	8000 Series	70	50	15	150	9	14	21	31	0	AS500-127	05

C type bracket

● Model no.: B120·B220·B320·B420·B620·B820
Attachment: BW

Model no.: B110-W·B310-W·B410-W·B810-W



Applications

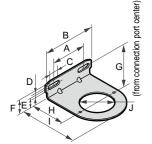
-														
	Model no.	Applicable model	A	В	C	D	E	F	G	н	I	J	К	L
	B120	1000 Series	44	68	40	t2.0	10	6.5	35	8.5	61.5	40	60	ø19.5
	B220	2000 Series	28	54	50	t2.3	10	7	33	8	63	45	69	17.3
	B320	3000 Series	34.5	67	63	t2.3	16.5	7	45	9	75.5	45	69	ø21.7
	B420	4000 Series	55	84	80	t2.3	14.0	7	45	9	75.5	55	79	ø21.7
	B620	6000 Series	68	104	90	t2.3	16	9	54	11	97.5	60	97	ø35
	B820	8000 Series	68	104	100	t2.3	16	9	50	11	93.5	65	102	ø35

L type bracket

• Model no: B130•B230•B330•B430

Attachment: B3W

Loosen the mounting nut to remove the knob. After inserting L type bracket, fix the bracket by the mounting nut. Press the knob in manually after fixing. Refer to page 15 for the details.



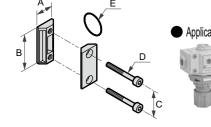


000		-											
ons	Model no.	Applicable model	Α	В	С	D	Е	F	G	Н	I	J	Other
	B130	1000 Series	44	68	10	6.5	16	24.5	45	40	59	ø26.5	
	B230	2000 Series	28	54	10	7	18	26	52	45	69	38	
	B330	3000 Series	34.5	67	16.5	7	17.5	26	58 (63.5)	45	76	ø40	Values in() are for W3000•3100
	B430	4000 Series 6000 Series	55	84	14	7	17.5	26	58	55	94	ø47	

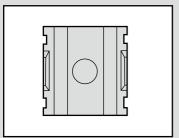
Joiner set

Model no.: C1000-J100-W C4000-J400-W

C8000-J800-W



ations	Model no.	Applicable model	Α	В	С	D	E	
-	C1000-J100-W	1000 Series	10	36	26	M3.5	JAS0-2013	
	C4000-J400-W	2000 Series 3000 Series 4000 Series	21	44	32	M5	JIS B2401-P21	
	C8000-J800-W	6000 Series 8000 Series	26	65	50	M6	AS568-127	



Distributor Standard white series D101/D401/D801/D300-W Series

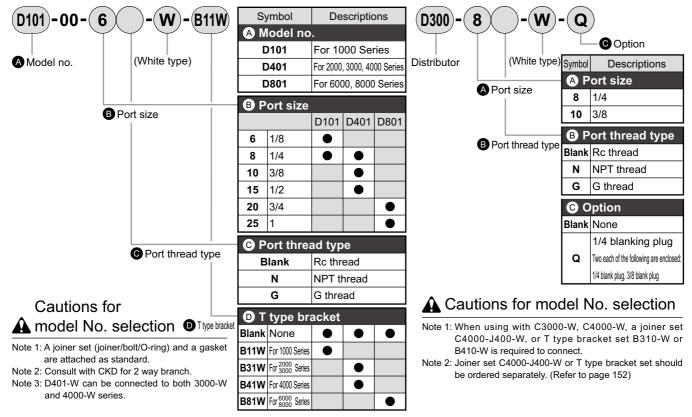
Applicable for pipe branching. Port size: 1/8 to 1 Rc1/4 Rc3/8 JIS symbol Rc1/4 3/8 1/4 (Rc3/8) Rc Rc1/4 Rc3/8



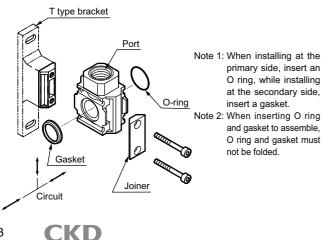
Specifications

Descriptions	D101-00-W	D401-00-W	D801-00-W	D300-W					
Working fluid		Compressed air							
Max. working pressure MP	a	1.	.0						
Withstanding pressure MP	a	1.5							
No. of branch ports		1							
Port size Rc, PT	, 1/8, 1/4	1/4, 3/8, 1/2	3/4, 1	1/4, 3/8					
Working temperature °C		5 to 60							
Product weight kg	0.045	0.13	0.35	0.26					

How to order



How to install (D101-00-W, D401-00-W, D801-00-W)



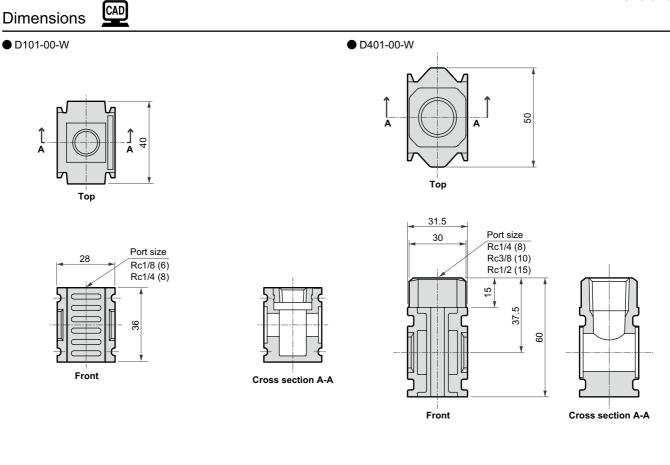
primary side, insert an O ring, while installing at the secondary side, Note 2: When inserting O ring and gasket to assemble. O ring and gasket must

Example (D101-00-W, D401-00-W, D801-00-W)

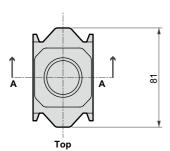


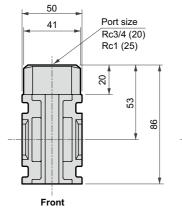
Distributor

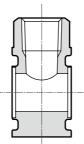
Dimensions



• D801-00-W





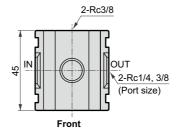


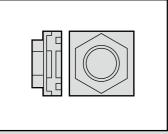
Cross section A-A

• D300-W



Cross section A-A





Piping adapter standard white series A100/A400/A800-W Series

Port size: 1/8 to 1

Applications

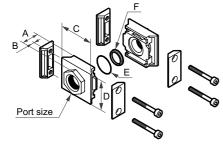


Dimensions and applications

Piping adaptor set

Model no.: A100-6, 8, 10-W A400-8, 10, 15, 20-W A800-20, 25, 32-W





Model no.	Port size	Applicable model	Α	В	С	D	E (O-ring)	F (Gasket)	Other	
A100-6*-W	1/8									
A100-8*W	1/4	1000 Series	21.5	13.5	40	36	JASO-2013 1 programs	1 programs	-	
A100-10*-W	3/8						r programo			
A400-8*-W	1/4	2000						1 programs		
A400-10*-W	3/8	4000	20	6		45	JISB2401 P21 1 programs		Numbers in () are for 3/4 Numbers in{ } are for 1	
A400-15*-W	1/2	Series	(25)	(11)	50					
A400-20*-W	3/4		{34} {2	{20}						
A400-25*-W	1									
A800-20*-W	3/4									
A800-25*-W	1	6000 8000 Series	35 (38)	15 (18)	81	66	6 AS568-127 1 programs	1 programs	Numbers in () are for1 1/4	
A800-32*-W	1 1/4	Cooo Series	(50)	(10)			i piograms			

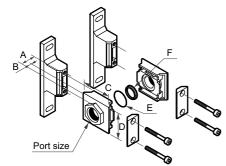
* Blank: Rc thread/N: NPT thread/G: G thread

Applications

Piping adaptor set with T type bracket

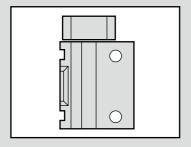
Model no.: A100-6, 8, 10-W-B11W
 A400-8, 10, 15-W-B31W
 A400-8, 10, 15, 20-W-B41W
 A800-20, 25, 32-W-B81W
 (T type bracket)





Model no.	Port size	Applicable model	Α	В	С	D	E (O-ring)	F (Gasket)	Other
A100-6*-W-B11W	1/8								
A100-8*-W-B11W	1/4	1000 Series	21.5	13.5	13.5 40		JASO-2013 1 programs	1 programs	-
A100-10*-W-B11W	3/8						1 programo		
A400-8*-W-B31W	1/4			6	5 50	45	JISB2401		
A400-10*-W-B31W	3/8	2000 3000 Series	20				P21 1 programs	1 programs	
A400-15*-W-B31W	1/2	Source Series							
A400-8*-W-B41W	1/4		20 (25)	1 1	50	45	JISB2401 P21	1 programs	Numbers in() are for 3/4 Numbers in{ }
A400-10*-W-B41W	3/8]							
A400-15*-W-B41W	1/2	4000 Series							
A400-20*-W-B41W	3/4]	{34}				1 programs		are for 1
A400-25*-W-B41W	1]							
A800-20*-W-B81W	3/4								
A800-25*-W-B81W	1	6000 8000 Series	35 (38)	15 (18)	81	1 66	AS568-127 1 programs	1 programs	Numbers in () are for1 1/4
A800-32*-W-B81W	1 1/4	Source Deries	(00)	(10)					
* Blank: Rc thread/N	I. NPT thros	d/G: G thread							

* Blank: Rc thread/N: NPT thread/G: G thread



Lpiping adaptor White Series A101/A401/A801-W Series

Port size: 1/8 t 1

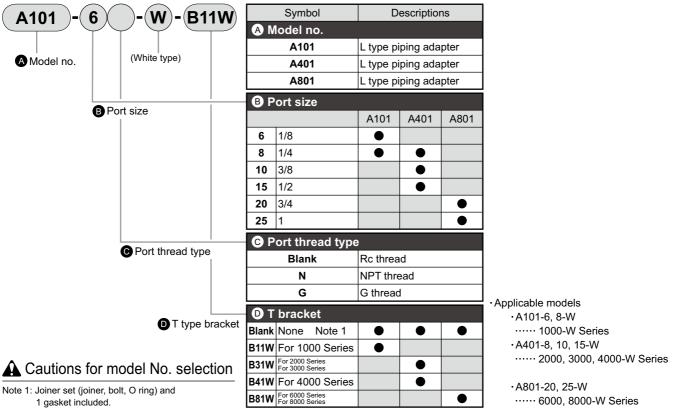


Specifications

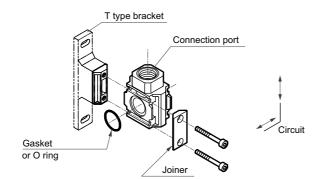
Descriptio	ns	A101-W	A401-W Note 1	A801-W				
Working fluid			Compressed air					
Max. working pressu	ure MPa	1.0						
Withstanding pressu	ire MPa	1.5						
Port size	Rc, PT,	1/8, 1/4	1/4, 3/8, 1/2	3/4, 1				
Working tempera	ture °C	5 to 60						
Product weight	kg	0.045	0.13	0.4				

Note 1: A401-W can be connected to both 3000-W Series and •4000-W Series.

How to order



L type piping adapter



Note: Insert the fitting for replacement vertically until it reaches the back. Insert the O ring when mounting on the primary side for the air flow, and insert the gasket when mounting on the secondary side.

Note:Refer to the next page for dimensions.



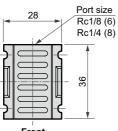
CKD

Piping adaptor

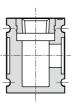


• A101-W

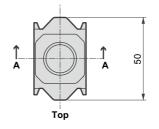
Î Ĵ 40 Ā Ā Тор



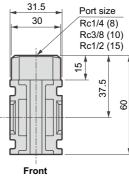
Front

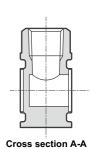


Cross section A-A

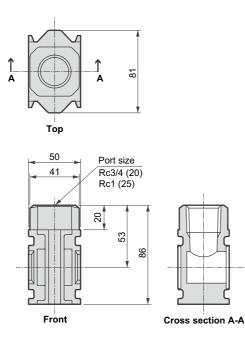


• A401-W





• A801-W





F.R.L. Modular type

Medium pressure

Components for air preparation/F.R.L. unit



CONTENTS	
Product introduction	Intro 1
Series variation	1 to 6
Safety precautions	11
Air filter	
● Air filter (FM*000-W)	159
 Oil mist filter (MM*000-W) 	165
Bracket, joiner (B, J)	152
Distributor (D*01-00)	153
Piping adaptor (A***)	155
Regulator	
● Regulator (RM*000-W)	171





Air filter medium pressure type

FM3000-W · FM4000-W · FM6000-W · FM8000-W Series

F3000 to 8000 Series with medium pressure specification Port size: 1/4 to 1

JIS symbol



Specifications

opeomodione				
Model no.	FM3000-W	FM4000-W	FM6000-W	FM8000-W
Exterior				
Working fluid		Compre	essed air	
Max. working pressure MPa		1.6	6 (Note2, 3)	
Withstanding pressure MPa		2	2.4	
Ambient temperature °C		-5 to 60 (to I	be unfrozen)	
Fluid temperature °C		5 to	o 60	
Filtration rating µm		5 or	0.3	
Drain capacity cm ³	45	80	80	80 Note 1
Port size Rc, PT,	1/4, 3/8	1/4, 3/8, 1/2	3/4, 1	3/4, 1
Product weight kg	0.35	0.55	1.0	1.26

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

Note 2: The min. working pressure of the automatic drain for models with automatic drain "F" is 0.1MPa. Air will purge with drain until it reaches 0.1MPa. Other specificaation will be as follows: max. working pressure 1.5MPa, withstanding pressure 2.25MPa, ambient temperature -5 to 45°C, fluid temperature 5 to 45°C.

Note 3: The min. working pressure of the automatic drain for models with automatic drain "F" is 0.15MPa.

Other specification will be as follows: max. working pressure 1.5MPa, withstanding pressure 2.25MPa, ambient temperature -5 to 45, fluid temperature 5 to 45.

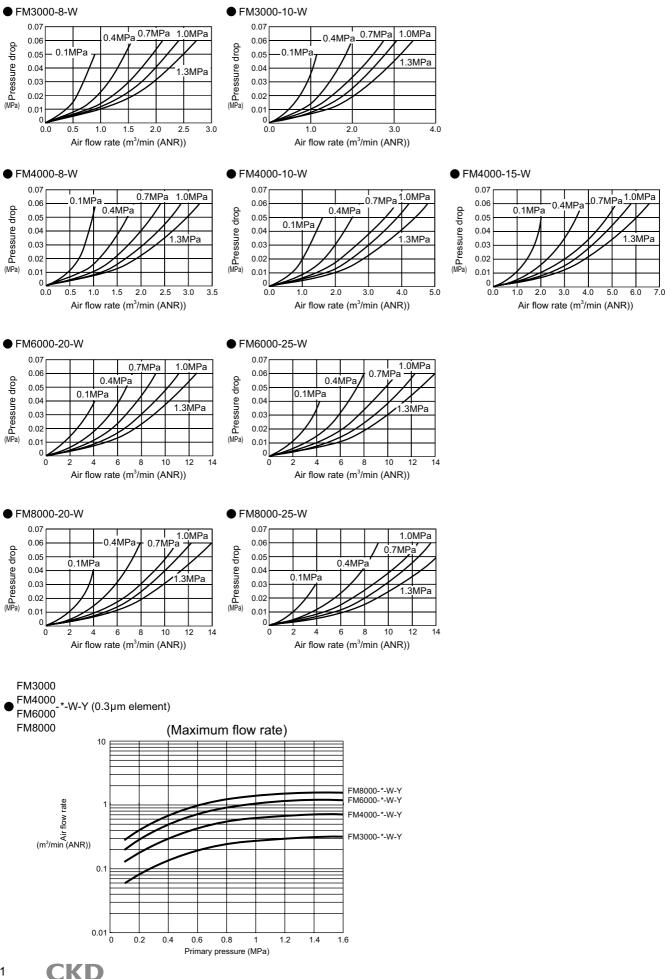
Air Filter Series

How to order

How to order	* Refe	r top pa	ge 9 for an explanation	A Model no.							
		e option	-	F	F	F	F				
(FM3000)-(8)()-W-(F)-()-(A8W)	\frown			M 3	M 4	M 6	M 8				
	\neg			0	0	0 0	0				
A Model no. (White type)	Symbo		Descriptions	0	0	0	0				
B Port size		ort siz	e								
	8	1/4		•	•						
	10	3/8		•	•						
	15	1/2									
	20	3/4									
						-	Note 1				
C Port thread type		C Port thread type									
		Rc thr		•	•	•					
	N	NPT t				•					
	G	G thre	ad	•							
D Option		ption					Note 2				
•		Blank	With manual drain cock			•					
		_	NO type automatic drain			-					
	Drainage	e F	Drain port Rc1/8			•					
	Note 3, Note	4	Max. working pressure 1.5 MPa, Max. working temperature 45°C								
			N.C. type automatic drain (exhaust			•					
		F1	without pressurized): drain port Rc1/8			•					
	Durlante		Max. working pressure 1.5 MPa, Max. working temperature 45°C								
	Bowi mater	_	Metal bowl								
	Elemer	It Blank	оµт 0.3µm								
	Differential	_	Without differential pressure detection port	•							
	pressure detect		With differential pressure detection port (Rc1/4)								
	Flow		Standard flow (left to right)	•							
	directio		Reverse flow (right to left)	•	•	•					
			ed unit								
E Displayed u	nit		lisplay, Rc thread								
	J1	-	lisplay, NPT, G thread								
					EE An	157					
Attac	h maa nat	ttachn		iges i	55 (0	157 1					
(inclu			bing adaptor set			•					
			bing adaptor set		•						
Cautions for model No. selection			bing adaptor set								
			bing adaptor set								
Note 1: When G threads or NPT threads are selected, the IN, OUT, and drainage discharge port are available.			ng adaptor set			•					
Note 2: Select the option from drain exhaust, bowl			biping adaptor set			•					
material and differential pressure detection. When selecting options for several items, list			hread type			•					
options in order from the top.		Rc thr				•					
Note 3: Refer to page 12 for the working conditions of the automatic drain	N	NPT t		•	•	•					
Note 4: The large discharge automatic drain is provided only when	G	G thre		•	•	•					
"F" or "F1" is selected for FM8000-W drain discharge.	<u>e</u>	racket	: (attached)		·	Pad	ge 152				
	racket	Not at				- aų					
Note 0. A juiller set is allached with the piping adapter		_	e bracket			•					
set.		10.000		-	-	-					

Air Filter Series

Flow characteristics

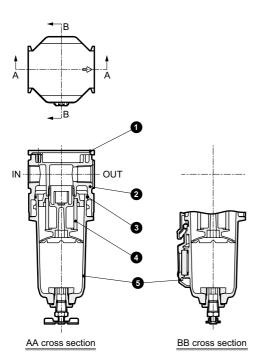


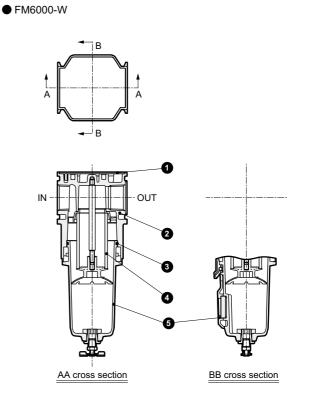
161

Air Filter series

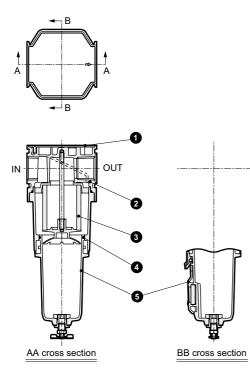
Internal structure and parts list

● FM3000-W·FM4000-W





• FM8000-W

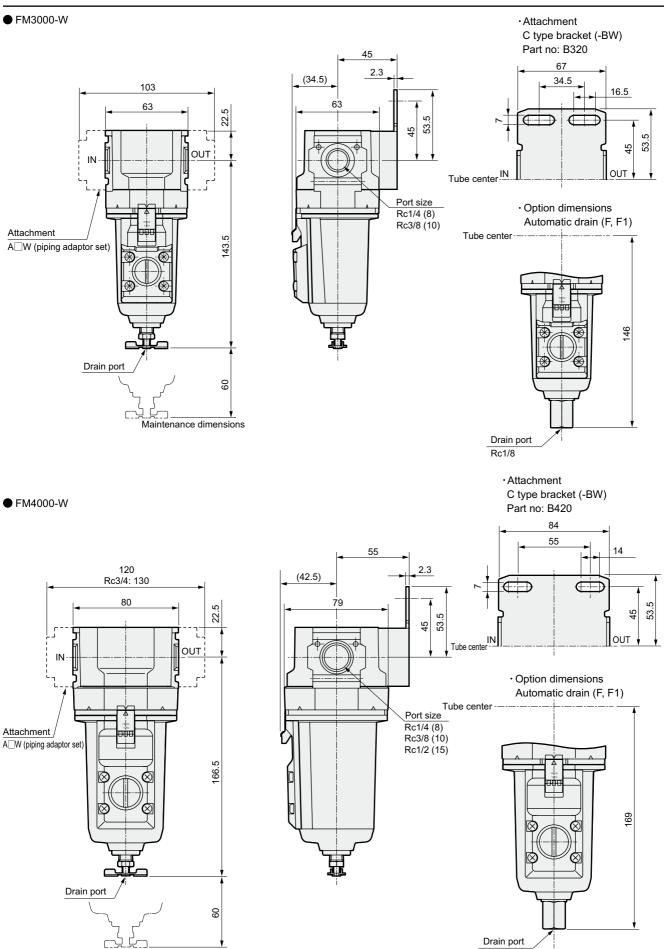


No.	Part name	Material
1	Plate cover	ABS resin
2	Body	Aluminum alloy die-casting
3	O-ring	Special nitrile rubber
	Element (5µm)	Polypropylene
4	Element (0.3µm)	-
5	Metal bowl assembly	Aluminum alloy die casting, brass, glass, nitrile rubber, steel, stainless steel

Note 1: Refer to page 93 and 94 for elements(consumable), repair parts kit and bowl assembly.

Air Filter Series

Dimensions



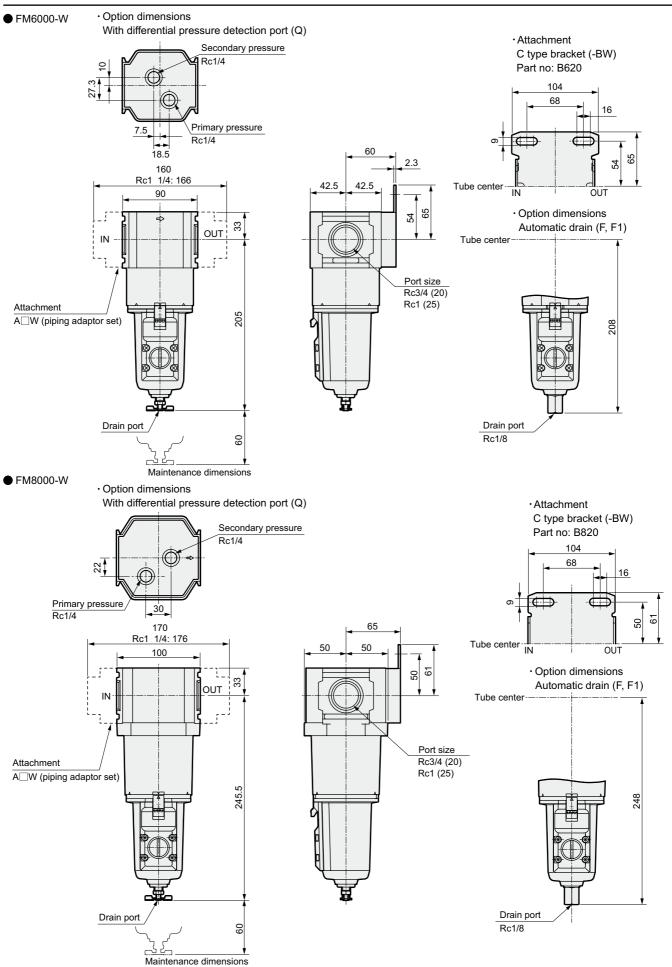
Rc1/8

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Maintenance dimensions

Air Filter series Dimensions

Dimensions





Oil mist filter for medium pressure

MM3000-W/MM4000-W/MM6000-W/MM8000-W Series

1

M3000 to 8000 Series medium pressure specification Port size: 1/4 to 1

JIS symbol



1.48

Specifications

Product weight

Model no.	MM3000-W	MM4000-W	MM6000-W	MM8000-W
Exterior				
Working fluid		Compre	essed air	
Max. working pressure MPa		0.1 to 1.6	6 Note 7	
Withstanding pressure MPa		2	.4	
Drain capacity cm ³	45	80	80	804
Port size Rc, PT,	1/4, 3/8	1/4, 3/8, 1/2	3/4, 1	3/4, 1

Mantle option name	Blank (M type)	S (S type)	X (X type)			
Processing flow MM3000W	490	610	610			
ℓ/min (ANR) MM4000-□-W	1130	1370	1370			
Primary pressure 1.4 MPa MM6000W	1740	1920	1920			
Pressure drop 0.01 MPa MM8000W	3560	3980	3980			
Ambient temperature °C	-5 to 60 (to I	-5 to 30 (to be unfrozen)				
Fluid temperature °C	5 to	5 to 60				
Filtration rating µm	0.01 (nominal)	0.3	Adsorption by activated charcoal Note 4			
Secondary oil concentration mg/m ³	0.01 or less Note 2, Note 3	0.5 or less Note 2	0.003 or less Note 2, Note 5			
Mantle (element) replacement	1 year (6000 hours) or p	1 year (6000 hours) or pressure drop of 0.1MPa				

0.55

Note 1: Use within the maximum processing flow rate.

kg

If the maximum processing flow is exceeded temporarily, or if the filter is installed at a place with high levels of pulsation, the mantle could be damaged or oil or drainage, etc., could splatter to the secondary side and result in faults at the terminal.

Note 2: Primary side oil concentration 30mg/m³ when inlet air temperature is 21°C.

Note 3: Install an oil mist filter (S type) as a prefilter on the primary side to prevent early clogging.

0.35

Note 4: Activated carbon particles could flow to the secondary side, so install an air filter (F Series) or oil mist filter (M Series M type or S type) on the secondary side.

Note 5: When an oil mist filter (M Series M type) is installed on the primary side.

Note 6: The X type mantle (element) replacement period depends on odor density in compressed air and cannot be clearly indicated.

Consider the total period from initial installation to when the smell of oil is confirmed as the effective deodorizing period, and replace the mantle (element) regularly.

The primary air temperature must be 30°C or less. Deodorizing decreases if the temperature is high, so provide measures to dissipate heat.

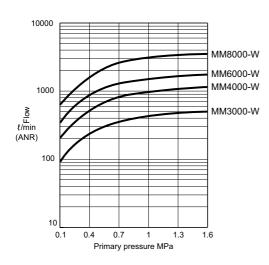
Note 7: The minimum operation pressure of the automatic drain is 0.15 MPa for the "F1" with an automatic drain. Max. working pressure 1.5MPa, withstanding pressure2.25MPa, ambient temperature-5 to 45°C, fluid temperature 5 to 45°C.

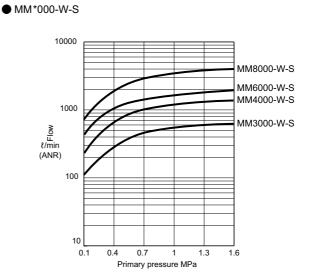
How to order

How to order	* Refe	er ton na	ne 9 for an explanation	A Mo	odel n	0.	
		of the options.				М	M
				3	4	6	8
				0	0		
A Model no. (White type)	Symbo	ol	Descriptions	ŏ	ŏ	ŏ	ŏ
			e				
	8	1/4					
	10	3/8					
	15	1/2					
	20	3/4				•	
	25	1				•	
	C F	Port thr	ead type		M M M M 3 4 6 8 0 0 0 0 0 0 0 0 0		
C Port thread type				M M			
	N				M M M M A 0 0 0 0 <		
	G					•	
		Intion					Note 2
Image: Symbol Descriptions Image: Symbol Descriptio	With manual drain cock			-	Note 2		
				-	•	•	
	Drainag	je F1					
	Note 3, Note	e4				•	
	Bowl mater	ial Blank					
	Downmater	-					
	Flemer	-					
		-	X type (deodorization; remaining oil 0.003mg/m ³) Note 5				
	Differential					-	
			With differential pressure detection port (Rc1/4)		-	-	-
(B) Displ	aved unit						
C .	Bian			•	•	•	•
Option Option		MPa c	lisplay, NPT, G thread		•	•	
	ttoohmont		-	ages 1	55 to ′	157 N	Note 7
U r	Dian			•	•	•	\bullet
				•	•		
A Cautions for model No. selection		-		•	•		
	A15*V	N 1/2 pi	bing adaptor set	•	•		
		- · ·	• •		•		
			•				
When selecting options for several items, list				1			
	Blan						
		-			•		
automatic drain.	G	G thre	ad				
Port size Port thread type Port type Port thread type		Bracket	(included)			Pag	ge 152
be used together.	Diackel Blan					•	
		C type	e bracket				
501.							

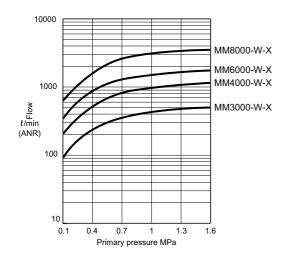
Flow characteristics (Maximum flow rate)

• MM*000-W





• MM*000-W-X



Selecting optional mantle for oil mist filters

Option symbol Appearance Recommended circuit Applications Plastic foam S type General industrial air • Air tools red Air drill, air driver End air grinder Blank plate · Labor saving device and components (M type) black · Pneumatic jigs and tools Air chuck · Air vice · Air for cleaning precision parts Plastic foam red M type Oil free air Instrumentation FSM Fnd s Measurement plate (S type) · Sequence control green Movable element, pure fluid element · Luxury painting · Precision industry Punching metal End х Deodorized air · Food industry plate ♦ X type FSMX (X type) black · Pharmaceutical industry Stirring Transportation • Drying Note: Changes for product upgrades may be made without prior notice. · Packaging When placing an order, confirm the option symbol for · Air for brewing the part model given here.

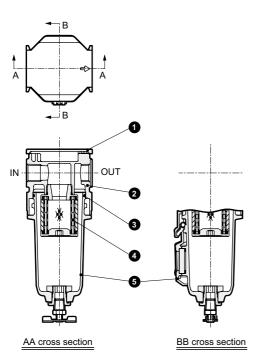
Option symbol and shap of mantles

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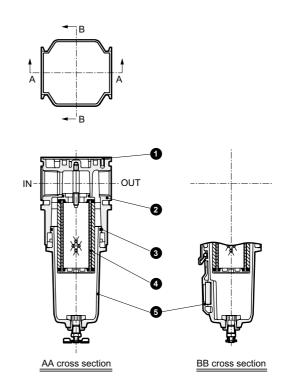
Internal structure and parts list

Internal structure and parts list

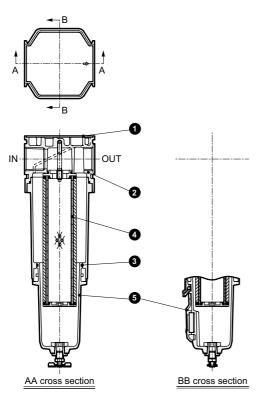
● MM3000-W · MM4000-W







• MM8000-W



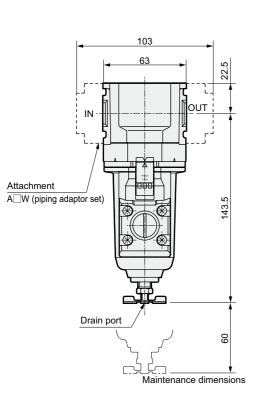
No.	Part name	Material
1	Plate cover	ABS resin
2	Body	Aluminum alloy die-casting
3	O-ring	Special nitrile rubber
4	Mantle assembly	-
5	Metal bowl assembly	Aluminum alloy die casting, brass, glass, nitrile rubber, steel, stainless steel

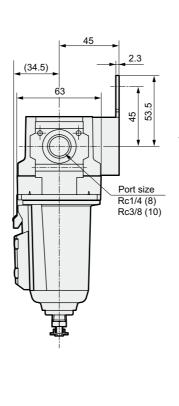
Note 1: The same repair parts kit and mantle are same as M*000-W. Refer to repair parts on page 102.

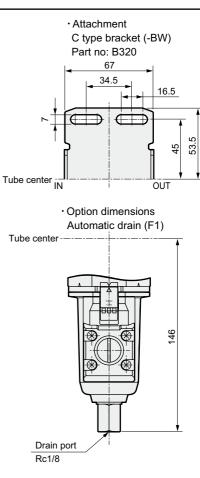
168

Dimensions

• MM3000-W

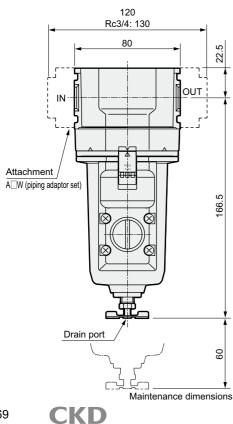


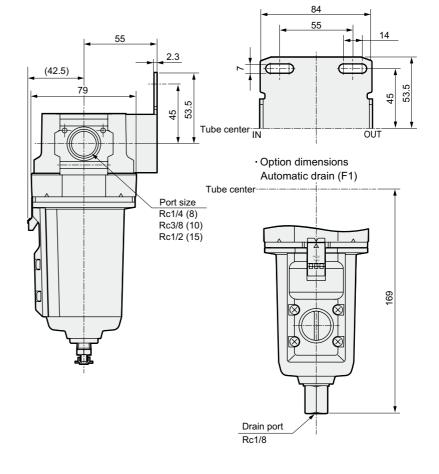




 Attachment C type bracket (-BW) Part no: B420

MM4000-W

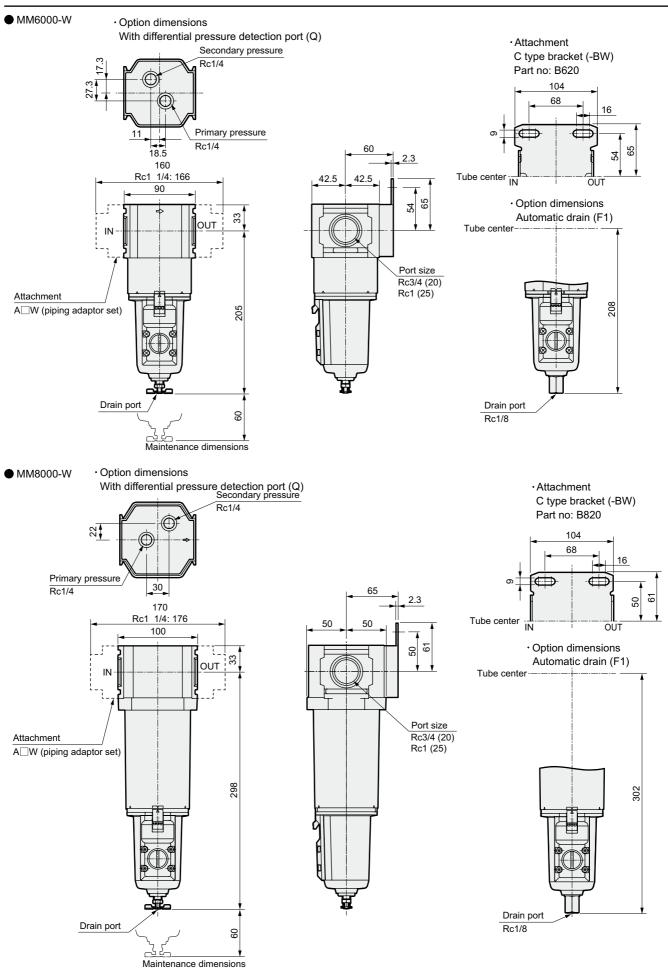




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Dimensions





CKD 170



Regulator for medium pressure

RM3000-W/RM4000-W Series

Medium pressure specification R3000-W·R4000-W Series Port size: 1/4 to 1/2





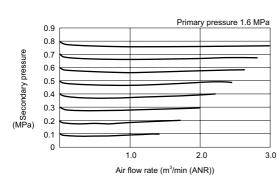
Specifications

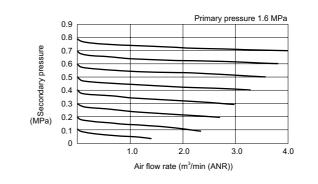
Descriptions		RM3000-W	RM4000-W			
Working fluid		Compressed air				
Max. working pressure N	ЛРа	1.6				
Withstanding pressure N	ЛРа	2.4				
Ambient temperature range	°C	-5 to 60 (not freez	ing) (Note 1)			
Set pressure range	/Ра	0.05 to 0.85				
Relief		With relief mechanism				
Port size Rc,	PT,	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)			
Product weight	g	0.45	0.7			
Standard accessories		Pressure gauge, nut for panel mount				

Note 1: The working temperature range of the pressure switch with indicator PPD assembly "R1" is 5 to 50°C.

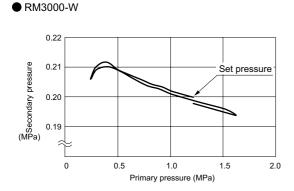
Flow characteristics

• RM3000-10-W



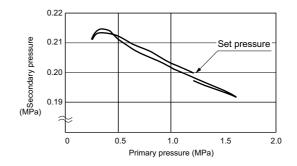


Pressure characteristics



RM4000-W

• RM4000-15-W



Regulator Series

How to order

How to order

RM3000-8-W-NA8W	\bigcirc		* Refer top page 9 for an explanation of the options.	R	Nodel no. R
(White type)	 G Atta	achment		M 3 0 0	M 4 0 0 0
	, , , , , , , , , , , , , , , , , , ,		Descriptions		
B Port size	B Por	t size			
	8	3	1/4		
		-			
		-			
Port thread type	C Por	t threac	l type	No	te 1
	Bla		Rc thread		
	1	N	NPT thread		
		3	G thread		
Option	D Opt	ion		No	te 2
	Poliof	Blank	With relief mechanism	\bullet	\bullet
	Relief	Ν	Non-relief type		
		Blank	With standard pressure gauge (G401)	\bullet	\bullet
	Pressure	T Note 3	Without pressure gauge (gauge port (Rc1/4) assembled sealed)	\bullet	\bullet
	gauge	Т8	Pressure gauge attachable (gauge port (Rc1/4) assembled open)	\bullet	
		of the options. R Symbol Descriptions Port size 0 8 1/4 10 3/8 15 1/2 Port thread type N Blank Rc thread N NPT thread G G thread Option N Relief N Non-relief type 0 Blank With relief mechanism R 0 Potion N Relief N Non-relief type 0 Blank With standard pressure gauge (G401) Image T Note 3 Without pressure gauge (gauge port (Rc1/4) assembled sealed) R Pressure switch with display PPD assembled R Pressure switch with display PPD assembled Flow Blank Standard flow (left to right)	\bullet		
	Flow	Blank	Standard flow (left to right)		
1	Direction	X1	Reverse flow (right to left)		
	E Dis	plaved	unit		
Displayed unit					
	J				
	B Din	ina ada		No	to Q
Piping adaptor set					
(included)					
-					
-					
-					
Cautions for model No. selection					
Note 1: G and NPT threads are available for IN, OUT, and					
gauge ports. Note 2: When selecting options for several items, list					
options in order from the top.		-			
Note 3: When "T" is selected, the gauge plug is assembled instead of the pressure gauge.				52,	183
Note 4: Refer to Pneumatic, Vacuum and Auxiliary					
Components Catalog (No. CB-024S) for details on					
"R1" Note 5: Piping adaptor set A*00-**-W (Refer to related					
components page 155) included.					
Note 6: Refer to related components for details on attachments. The piping adapter set and C bracket cannot be	-	-			
used together.					
Note 7: If NPT is selected for the "C" piping thread, an NPT					
pressure gauge is included. If an Rc or G thread is selected, an R thread pressure gauge is included.					
Note 8: Refer to Safety Precautions for the F.R.L. Unit for	G4	1P	Pressure gauge: G41D-8-P10		

Note 8: Refer to Safety Precautions for the F.R.L. Unit for details on mounting the L-type bracket.

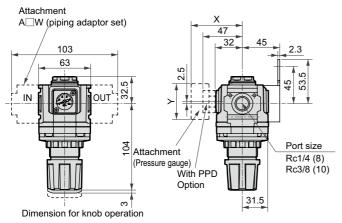
Note 9: A joiner set is attached with the piping adapter set.

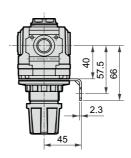
- The internal structure and parts list are common with the R*-000-W. Refer to page 116 for details.
- Refer page 128 for more details of options.

Regulator Series

Dimensions

• RM3000-W



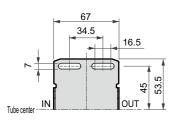


Panel cut dimensions

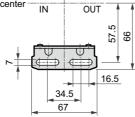


Panel thickness: Max. 7mm

·Attachment (C type bracket) C type bracket (-BW) Part no: B320

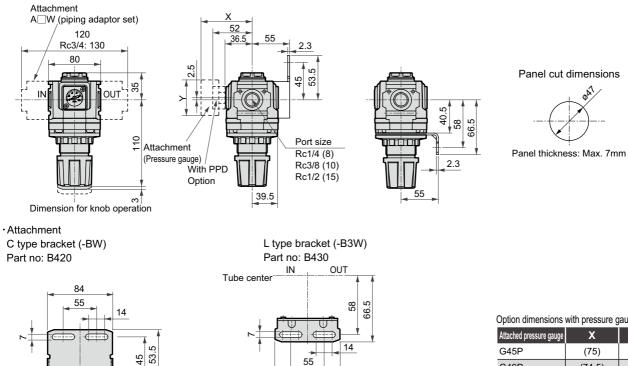


L type bracket (-B3W) Part no: B330 Tube center



Option dimensions with pressure gauge attached							
Attached pressure gauge	X	Y					
G45P	(70)	ø39					
G49P	(69.5)	ø43.5					
G59P	(72)	ø52					
G40P	(71.5)	ø42.5					
G50P	(71.5)	ø52.5					
G41P	(70)	ø42					

RM4000-W



55

84

Option dimensions with pressure gauge attached

Attached pressure gauge	X	Y
G45P	(75)	ø39
G49P	(74.5)	ø43.5
G59P	(77)	ø52
G40P	(76.5)	ø42.5
G50P	(76.5)	ø52.5
G41P	(75)	ø42

CKD 173

١N Tube center

OUT

F.R.L. Modular type

Copper and PTFE free series

Components for air preparation/F.R.L. unit



CONTENTS	
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Piping adaptor (A***-W)	155



F.R.L. combination: copper and PTFE free specification $C1000/C2500/C3000 - W-P6 \ Series$

Copper ion prevention treatment

Port size: 1/8 to 1





• • •

low to order			Refer top page 9 for an explanation of the options.		1	Мо			(
C1000)-(6))-W-(CT)P6-())	(A6W)		- G Shut-off valve (included)	C 1	C 2 5	C 3	C 4	C 6 5	
$ \rightarrow \uparrow \uparrow \uparrow \downarrow \uparrow \downarrow \uparrow \downarrow \uparrow$	G	Piping	adaptor set (included)	0	5	0	00	5 0	
(White type) Copper and PTFE free specification	Syn	nbol	Descriptions	ŏ	ŏ	ŏ	ŏ	ŏ	
Model no.	B Por	t size							
B Port size		6	1/8						
	8	8	1/4				\bullet		
	1	0	3/8						
	1	5	1/2				\bullet		
	2	20	3/4						Γ
	2	25	1						
	C Por	t threa	d type					No	f
Port thread type		ank	Rc thread					•	ſ
		N	NPT thread	•	•	•	•	•	F
		G	G thread	•	•	•	•	•	F
	D Opt	-	<u> </u>			, <u> </u>		Ne	L Į
D Option	e opi	1	Filter with manual drain cock, lubricator without manual drain cock					No	ľ
	Drainage	С	Lubricator with manual cock	•				-	┞
	Bowl	Blank	Polycarbonate bowl					-	┞
	material		Nylon bowl					-	┝
	materia	Blank	,	•				-	┝
	Element	Y	0.3µm (submicron)					-	┝
	Differential	Blank	Without differential pressure detection port					-	┝
	pressure detection	Q	With differential pressure detection port (Rc1/4)	-			-	-	┝
	pressure detection	T	Without pressure gauge, setting: 0.05 to 0.85 MPa, relief type	•				-	┝
		LT	Without pressure gauge, setting: 0.05 to 0.35 MPa, relief type	<u> </u>				-	╞
	Regulator	NT	Without pressure gauge, setting: 0.05 to 0.85 MPa, non-relief type					•	┝
		LNT	Without pressure gauge, setting: 0.05 to 0.35 MPa, non-relief type					•	╞
	Flow	Blank	Standard flow (left to right)	•				•	┢
	Direction	X1	Reverse flow (right to left)	•				•	F
								-	
Displayed unit		played							F
		ank 1	MPa display, Rc thread MPa display, NPT, G thread					-	╞
								_	
				age	s 15	5 to	157	No	ť
		ank	Not included	•				•	L
		5*W	1/8 piping adaptor set						Ļ
		5*W	1/4 piping adaptor set	•	•	•	•		-
Cautions for model No. selection		0*W	3/8 piping adaptor set	•	•	•			-
e 1: Refer to page 21 to 28 for specifications, dimensions		5*W	1/2 piping adaptor set		•			-	ŀ
and flow characteristics.		0*W	3/4 piping adaptor set						Ļ
te 2: G and NPT threads are available for IN, OUT, and gauge ports, drain port. including the attachment V.		5*W	1 piping adaptor set					•	┞
te 3: Select options from drain exhaust, bowl material,		2*W	1 1/4 piping adaptor set					•	L
element, differential pressure detection, regulator, and			ead type						f
regulator. When selecting options for several items, list options in order from the top.		ank	Rc thread						Ļ
Select one of the regulator options.		N 2	NPT thread						Ļ
te 4: Combinations other than those above are used as custom combinations (Page 189).		G	G thread					-	Ļ
te 5: A joiner set is attached with the piping adapter set.	G Shu	ut-off va	alve (included)				P	age	1
	Bla	ank	Not included		\bullet		\bullet		L

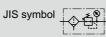
vw

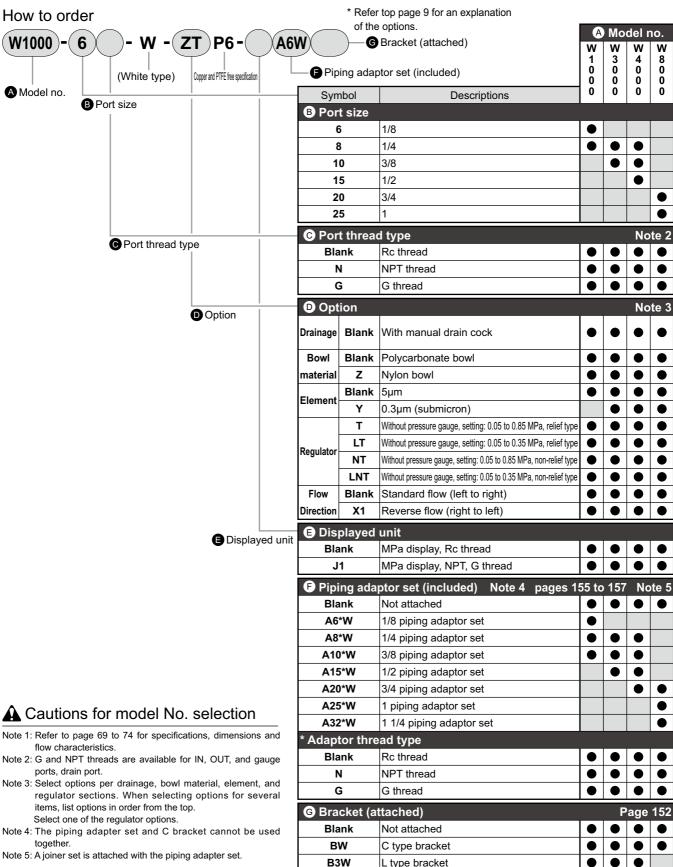
Shut-off valve (V3000-W) + joiner set



Filter with regulator: copper and PTFE free specification W1000/W3000 W4000/W8000-W-P6 Series

Copper ion prevention treatment Port size: 1/8 to 1





L type bracket

Note 5: A joiner set is attached with the piping adapter set.

:0 F



Reverse filter with regulator: copper and PTFE free specification

W1100·W3100 W4100·W8100**-W-P6** Series

Copper ion prevention treatment Port size: 1/8 to 1





How to order			Refer top page 9 for an explanation of the options.	A	Mo	del r	20
(W1100)-(6)()-W-(ZT)P6-()-(A	6W))—(G Bracket (attached)	w	W	W	V
$ \rightarrow $				1	3	4	8
(White type) Copper and PTFE free specification	└─ ₽ ₽	Piping ad	laptor set (included)	1 0	1	1	
A Model no.	Sym	lod	Descriptions	0	0	0	
	B Por	t size					
B Port size	6		1/8				
	8	}	1/4	\bullet			
	1	0	3/8				
	1	5	1/2			•	
	2		3/4				4
	2	5	1				
Dort thread time	C Por	t thread	d type			No	ote
C Port thread type	Bla	nk	Rc thread				
	Ν	1	NPT thread	\bullet	\bullet	\bullet	
	G	3	G thread				
	D Opt	ion				No	ote
Option	Drainage	Blank	With manual drain cock	•	•	•	
	Bowl	Blank	Polycarbonate bowl	•	•		
	material	Z	Nylon bowl	•	•	•	
		Blank	5µm	•		•	1
	Element	Y	0.3µm (submicron)				•
		Т	Without pressure gauge, setting: 0.05 to 0.85 MPa, relief type			•	(
	Domulator	TL	Without pressure gauge, setting: 0.05 to 0.35 MPa, relief type	\bullet		•	
	Regulator	NT	Without pressure gauge, setting: 0.05 to 0.85 MPa, non-relief type				
		LNT	Without pressure gauge, setting: 0.05 to 0.35 MPa, non-relief type	\bullet			
	Flow	Blank	Standard flow (left to right)	\bullet			
	Direction	X1	Reverse flow (right to left)				
Displayed unit	E Dis	played	unit				
	Bla	ink	MPa display, Rc thread				1
	J	1	MPa display, NPT, G thread				
	F Pipi	ng ada	ptor set (included) Note 4 pages 1	55 to	5 157	/ No	ote
	Bla	<u> </u>	Not attached				
	A6	*W	1/8 piping adaptor set				
	A8	*W	1/4 piping adaptor set				
	A10	*W	3/8 piping adaptor set				
Cautions for model No. selection	A15	5*W	1/2 piping adaptor set				
Note 1: Refer to page 77 to 84 for specifications, dimensions and	A20)*W	3/4 piping adaptor set				
flow characteristics. Note 2: G and NPT threads are available for IN, OUT, and gauge	A25	5*W	1 piping adaptor set				
ports, drain port.	A32	2*W	1 1/4 piping adaptor set				
Note 3: Select options per drainage, bowl material, element, and regulator sections. When selecting options for several	* Adapt	tor thre	ad type				
items, list options in order from the top.		nk	Rc thread	\bullet	\bullet	\bullet	
Select one of the regulator options. Note 4: The piping adapter set and C bracket cannot be used	N		NPT thread				
together.	G	6	G thread				
Note 5: Position of the check valve and pressure gauge can not be	G Bra	cket (a	ttached)		F	Page	1
changed. If the reverse direction of IN and OUT are required, indicate "X1" in the end of optional section.	Bla	ink	Not attached				
				-			
Note 6: A joiner set is attached with the piping adapter set.	B	W	C type bracket				Ľ



Air filter: copper and PTFE free specification F1000/F3000 F4000/F6000/F8000-W Series

Copper ion prevention treatment Port size: 1/8 to 1 Copper and PTFE free specification as standard.



How to order * Refer top page 9 for an explanation A Model no F1000 Ζ (A6W) 6 of the options. F F F F 4 6 3 8 (White type) ŏ Ó 0 Ó Ó **G** Bracket 0 0 0 0 0 A Model no. (included) Õ Õ Õ Õ Õ Symbol Descriptions B Port size B Port size 6 1/8 • 1/4 8 • • 3/8 10 • • 15 1/2 20 3/4 • 25 1 C Port thread type Note 2 C Port thread type Blank Rc thread • Ν NPT thread • G G thread • • D Option Note 3 **D** Option Drainage Blank With manual drain cock Bowl Blank Polycarbonate bowl • material Ζ Nylon bowl • Blank 5µm • • Element Υ 0.3µm (submicron) Blank Without differential pressure detection port Differential • • essure detectio Q With differential pressure detection port (Rc1/4) • Flow Blank Standard flow (left to right) Direction Reverse flow (right to left) • X1 E Displayed unit Displayed unit Blank MPa display, Rc thread J1 MPa display, NPT, G thread • Note 4 pages 155 to 157 Note 5 F Piping adaptor set (included) Piping adaptor set Blank Not included • (included) A6*W 1/8 piping adaptor set A8*W 1/4 piping adaptor set A10*W 3/8 piping adaptor set • A15*W 1/2 piping adaptor set A20*W 3/4 piping adaptor set A25*W Cautions for model No. selection 1 piping adaptor set A32*W 1 1/4 piping adaptor set Note 1: Refer to page 85 to 94 for specifications, dimensions Adaptor thread type and flow characteristics. Note 2: When G threads or NPT threads are selected, the Blank Rc thread • IN, OUT, gauge port, and drainage discharge port Ν NPT thread (metal bowl automatic drain) are the target, as are attachments P and V. G G thread •

G Bracket (included)

Not included

C type bracket

Blank

BW

- Note 3: Select options for each drainage discharge, bowl material and element. When selecting options for several items, list options in order from the top.
- Note 4: The piping adapter set and C bracket cannot be used together.
- Note 5: A joiner set is includedd with the piping adapter set.

Page 152



Oil mist filter: copper and PTFE free specification M1000/M3000 M4000/M6000/M8000-W Series

Copper ion prevention treatment Port size: 1/8 to 1 JIS symbol Copper and PTFE free specification as standard.



How to order								
M1000 - 6 - W - S A6	W		* Refer top page 9 for an explanation		AN	lode	l no.	
			of the options.	M 1	M 3	M 4	M 6	M 8
(White type)	G Bra	icket		0	0	0	0	0
A Model no.	(att	ached)		ŏ	ŏ	Ŏ	ŏ	ŏ
	Syr	nbol	Descriptions					
	B Por							
B Port size		6	1/8					
		8	1/4	•		lacksquare		
	1	0	3/8		\bullet	●		
		5	1/2			•		
		20	3/4				•	•
		25	1				•	•
Port thread type		t threa					No	te 2
		ank	Rc thread				•	•
		N	NPT thread	•	•	•	•	•
		G	G thread	•				•
Option	D Opt	tion		1	1		No	te 3
	Drainage	Blank	With manual drain cock	•	•	•	•	•
	Bowl	Blank	Polycarbonate bowl					
	material	Z	Nylon bowl				\bullet	
	Differential	Blank	Without differential pressure detection port				\bullet	
	pressure detection	Q	With differential pressure detection port (Rc1/4)				•	•
	Flow	Blank	Standard flow (left to right)	•			•	•
	Direction	X1	Reverse flow (right to left)					•
Displayed unit	🖪 Dis	played	unit					
	Bla	ank	MPa display, Rc thread	•			•	•
	J	1	MPa display, NPT, G thread				\bullet	\bullet
Piping adaptor set	🕞 Pip	ing ada	ptor set (included) Note 4 page	s 15	5 to	157	No	te 5
(included)	Bla	ank	Not attached				\bullet	
()	A6	5*W	1/8 piping adaptor set					
	A8	5*W	1/4 piping adaptor set	•				
	A1	0*W	3/8 piping adaptor set	•				
		5*W	1/2 piping adaptor set				_	
A Cautions for model No. selection		0*W	3/4 piping adaptor set			•	•	•
Note 1: Refer to page 95 to 102 for specifications, dimensions		5*W	1 piping adaptor set				•	•
and flow characteristics.		2*W	1 1/4 piping adaptor set				•	•
Note 2: When G threads or NPT threads are selected, the IN, OUT, and drainage discharge port are available.			ead type Rc thread					
Note 3: Select options for each drainage discharge, bowl		ank N	NPT thread					
material and differential pressure detection. When selecting options for several items, list options	-	G	G thread					-
in order from the top.							-	450
Note 4: The piping adapter set and C bracket cannot be used together.		•	ncluded) Not included			P	age	152
Note 5: A joiner set is included with the piping adapter set.		ank W	C type bracket					
	В	**					•	•



Regulator: copper and PTFE free specification R1000 · R2000 · R3000 R4000 · R6000 · R8000 - W-P6 Series

Copper ion prevention treatment Port size: 1/8 to 1





(R1000)-(6) - W - T P6 A6W * Refer top page 9 for an explanation						A Model no.					
	\frown	of the options.	R 1		R	R	R	F			
(White type) Coper and PTFE free specification		G Bracket (attached)			R 2 0 0	3 0 0	4 0 0	6 0 0			
Model no.	Pipinç		iping adaptor set (included)		Ó	Ō	Ō	Ŏ			
	Svr	nbol	Descriptions								
		rt size	Descriptions						h		
B Port size		6	1/8						Т		
		8	1/4	•					t		
		10	3/8	-					t		
		15	1/2						t		
		20	3/4				•	•	t		
		-• 25	1					•	╉		
Port thread type Option		rt threa ank	d type Rc thread					No	۹ آ		
								-	+		
		N G	NPT thread G thread	•				-	+		
		-	G thread	•				_			
	D Op			1	1		1	No	bi		
		Т	Without pressure gauge, setting: 0.05 to 0.85 MPa, relief type		•		\bullet	•	4		
	Regulator	LT	Without pressure gauge, setting: 0.05 to 0.35 MPa, relief type				\bullet	•			
	, j	NT	Without pressure gauge, setting: 0.05 to 0.85 MPa, non-relief type				\bullet	•			
		LNT	Without pressure gauge, setting: 0.05 to 0.35 MPa, non-relief type		•		\bullet	•			
	Flow	Blank	Standard flow (left to right)				\bullet	•	1		
	Direction	X1	Reverse flow (right to left)				\bullet				
	E Dis	played	unit								
Displayed u	Bl	ank	MPa display, Rc thread						T		
		J1	MPa display, NPT, G thread	lacksquare			\bullet				
	🕞 Pip	ing ada	aptor set (included) Note 4 p	ades	s 15	5 to	157	No	51		
		ank	Not attached	Ŏ				•	T		
	A	6*W	1/8 piping adaptor set	•					t		
		B*W	1/4 piping adaptor set	•			\bullet		t		
		0*W	3/8 piping adaptor set	•			\bullet		t		
		5*W	1/2 piping adaptor set				\bullet		t		
		0*W	3/4 piping adaptor set				\bullet	•	T		
	A2	5*W	1 piping adaptor set						Î		
	A3	2*W	1 1/4 piping adaptor set						t		
	* Adap	otor <u>thre</u>	ead type						ĺ		
		ank	Rc thread					•	T		
Cautions for model No. selection		N	NPT thread	•				•	t		
Note 1: Refer to page 113 to 120 for specifications, dimensions and flow characteristics. Note 2: G and NPT threads are available for IN, OUT, and gauge ports.		G	G thread	•		•	\bullet	•	t		
		G Bracket (attached)					P	age	1		
		acket (a ank	Not attached						ſ		
Note 3: Select one option. Note 4: The piping adapter set and C bracket cannot be used		W	C type bracket					-	+		
together.		3W	L type bracket					-	+		
Note 5: A joiner set is attached with the piping adapter set.								-	+		

B4W

B type bracket

•



Reverse regulator: copper and PTFE free specification R1100/R2100/R3100 -W-P6 Series R4100/R6100/R8100

Copper ion prevention treatment Port size: 1/8 to 1





 \bullet

R1100)-(6))- w -(T) P6-()-	· (A6)		* Refer top page 9 for an explanation		A	Мо	del r	10.	
	(White type)	Copper and PTFE free specification	\frown	G Brack	of the options. et (included)	R 1 1	R 2 1	R 3 1	R 4 1	R 6 1	
Model no.			P Dinin	- a adapt	ar act (included)	0	0	0	00	0 0	
					or set (included)						
				nbol	Descriptions						
	Port size	<u> </u>	B Por								-
-				6	1/8	•					╞
				8	1/4	•					╀
				0	3/8		•	•			+
				5	1/2					-	+
				20 NG	3/4					-	╀
				5	1					_	
	C Port thread	type		t threa		-	-			No	5
	•			ank	Rc thread	•	•	•	•	•	+
				N	NPT thread	•	•	•	•	•	+
				3	G thread		•			•	
		Option	D Opt	tion		1	,			Nc	bi
		eoption		Т	Without pressure gauge, setting: 0.05 to 0.85 MPa, relief type	•		•	\bullet	•	
			Regulator	TL	Without pressure gauge, setting: 0.05 to 0.35 MPa, relief type	•		•	\bullet	•	
				NI	Without pressure gauge, setting: 0.05 to 0.85 MPa, non-relief type	•	•		\bullet	•	
				LNT	Without pressure gauge, setting: 0.05 to 0.35 MPa, non-relief type				\bullet	•	
			Flow	Blank	Standard flow (left to right)	•	•	•		•	╞
			Direction	X1	Reverse flow (right to left)		•	•		-	
		Displayed un	🕂 🕒 Dis	played	unit	T	1				
		B Displayed un	Bla	ank	MPa display, Rc thread		\bullet		\bullet	۲	
			J	1	MPa display, NPT, G thread						
			🕞 Pip	ing ada	ptor set (included) Note 4 p	ages	s 15	5 to	157	Nc	bi
			Bla	ank	Not attached					٠	Ι
			A6	*W	1/8 piping adaptor set						
			A8	*W	1/4 piping adaptor set				\bullet		
			A1	0*W	3/8 piping adaptor set				\bullet		
			A1	5*W	1/2 piping adaptor set		\bullet		\bullet		
			A2	D*W	3/4 piping adaptor set				\bullet	•	
				5*W	1 piping adaptor set						
				2*W	1 1/4 piping adaptor set						
					ad type	-					ļ
				ank	Rc thread					•	ļ
Coutions	for model Ne	adaatian		N	NPT thread	•				•	ļ
Cautions	for model No	. selection		G	G thread					•	
te 1: Refer to page and flow chara	121 to 128 for specifica	ations, dimensions	G Bra	cket (ir	ncluded)				P	age	
	hreads are available	for IN, OUT, and	Bla	ank	Not attached	\bullet	\bullet		\bullet	•	
gauge ports.	t and antia-		В	W	C type bracket		\bullet			•	ļ
te 3: Note 3: Selec			B		L type bracket					-	

B4W

B type bracket

CKD

- Note 4: The piping adapter set and C bracket cannot be used together.
- Note 5: Position of the check valve and pressure gauge can not be changed. If the reverse direction of IN and OUT are required, indicate "X1" in the end of optional section.
- Note 6: A joiner set is included with the piping adapter set.





Lubricator: copper and PTFE free specification L1000 · L3000 L4000 · L8000 - V **V** Series

Copper ion prevention treatment Port size: 1/8 to 1

JIS symbol

Copper and PTFE free specification as standard.



How to ord	der								
L1000)-(6) - W -(C)-()-(A6)	\bigcirc		* Refer top page 9 for an explanation	A	Mod	el no	b .
	$\gamma \gamma$ \downarrow γ		\frown		of the options.	L 1	L 3	L 4	L 8
	(White type)	G	Bracket			0	0	0	
A Model no.			(attached	d)		ŏ	ŏ	ŏ	0
			Svr	nbol	Descriptions				
				rt size	Descriptions				
	B Port size			6	1/8				
				8	1/4	•	•	•	┢
				10	3/8		•	•	+
			1	15	1/2	-	-	•	┢
			2	20	3/4	-		_	ſ
			2	25	1				F
			C Po	rt threa	d type			No	oto
	C Port thread	iype		ank	Rc thread	•	•	•	Γ
				N	NPT thread	•			
				G	G thread	•			
			D Op	tion	• •			No	ot
		Option	Drainage		No manual cock	•	•	•	
			Bowl	Blank	Polycarbonate bowl	•	•	•	T
			material	z	Nylon bowl	•	•	•	-
			Note 4	м	Metal bowl				F
			Flow	Blank	Standard flow (left to right)	•			
			Direction	X1	Reverse flow (right to left)	•		•	
			🕒 Dis	played	unit				
		Displayed unit		ank	MPa display, Rc thread				Γ
				J1	MPa display, NPT, G thread	•	•	•	F
			🕞 Pin	ing ada		es 155 to	0 157	/ No	ot
		Piping adaptor se	t	ank	Not attached				Γ
		(included)	A	5*W	1/8 piping adaptor set	•		_	F
			A	B*W	1/4 piping adaptor set	•	•	•	F
			A1	0*W	3/8 piping adaptor set	•			F
Caution	ns for model No	o, selection	A1	5*W	1/2 piping adaptor set				Γ
_	page 129 to 136 for spe		A2	0*W	3/4 piping adaptor set				Г
	characteristics.	concations, ulmensions	A2	5*W	1 piping adaptor set				ĺ
	PT threads are available for	,	A3	2*W	1 1/4 piping adaptor set				
te 3: Select op others.	otions for drainage disch	arge, dowr material and	* Adap	otor thre	ad type				
When se	lecting options for seve	ral items, list options in	Bla	ank	Rc thread				
order fron te 4: The side	n the top. dome is polycarbonate	even for nylon or metal		N	NPT thread				
bowls. Co	onsult with CKD if a different	ent material is required.		G	G thread				L
te 5: The pipir together.	ng adapter set and C b	racket cannot be used	G Bra	acket (a	ttached)		P	Page	1
-	et is attached with the pip	ing adapter set.	Bla	ank	Not attached	•	•		
					O tomo tomo tont				

BW

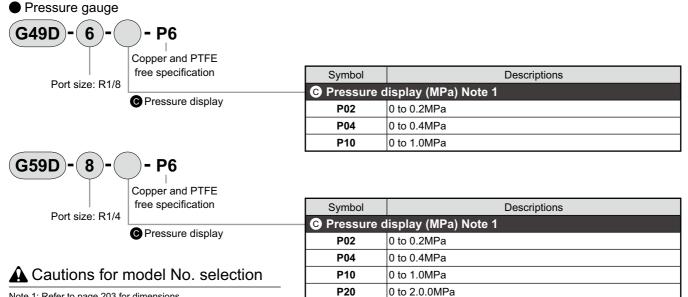
C type bracket

• •



Other components: copper and PTFE free specification Pressure gauge Shut-off valve Exhaust cleaner G49D-P6 V3000-W FA*31 Series G59D-P6 V3010-W V6010-W

How to order



Note 1: Refer to page 203 for dimensions.

Other components

- Shut-off valve
- ·V3000-W (Page 143)
- ·V3010-W/V6010-W (Page 146)
- Exhaust cleaner
- •FA*31 (Pneumatics, Vacuum,
- Auxiliary Components No.CB-024S)
- * The above products are copper and PTFE free as standard.

F.R.L. Modular type

Ozone proof

Components for air preparation/F.R.L. unit



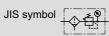
CONTENTS	
Product introduction	Intro 1
Series variation	1 to 6
Safety precautions	11
Filter•regulator	
● Filter∙regulator (W*000-W-P11)	185
Reverse filter regulator (W*100-W-P11)	186
Regulator	
Regulator (R*000-W-P11)	187
Reverse regulator (R*100-W-P11)	188



Filter regulator: ozone proof W1000/W3000 W4000/W8000-W-P11 Series

Fluorine rubber and hydrogenated nitrile rubber, etc., used for rubber part materials. • Port size: Rc1/8 to Rc1

Digital pressure sensor: PPX-R10N-6M • • •





How to order W1000 - 6 - W - (White type	Z P11 - - A6W		-	ttachment	W 1 0 0	W 3 0 0	W 4 0 0	,
			nbol	Descriptions				
		B Por						Ļ
BPort size			6	1/8	•			_
			В	1/4	•	•	•	_
	Ozone		0	3/8		•	•	_
			5	1/2			•	-
	specifications		20	3/4				
Port thread type		2	5	1				
	Option	C Por	t thread	type			Not	е
	Note 2		ank	Rc thread	•			Τ
	Note 3	1	N	NPT thread	•	•	•	Ť
	Note 4	(3	G thread	٠	•	•	T
	Note 5	D Opt	ion					Ê
	Note 6	e op	Blank	With manual drain cock	•		•	T
* 📭 🕹			F	Automatic drain with manual override NO type		-		+
	fer top page 9 for an explanation	Drainage	F1				•	+
of ti	he options.	Drainage	FT	Automatic drain with manual override NC type			-	+
		1	FF1	Large automatic drain with manual override NO type				+
	Displayed unit		Blank	Large automatic drain with manual override NC type	•		•	4
		Bowl	Blank Z	Polycarbonate bowl Nylon bowl	•	-	•	+
	Piping adaptor set	t material		-	-		-	+
	(included)	material	M	Metal bowl			•	╀
	Note 8		M1	Metal bowl with manual drain cock			•	╀
	Note 9	Element	Blank	5µm	•		•	╀
	1010 0		Y	0.3µm (submicron)	_	-	•	∔
		Pressure	Blank	0.05 to 0.85MPa	•	•	•	+
Cautions for model	No selection	Range	L	0.05 to 0.35MPa	•	•	•	+
		Relief	Blank	With relief mechanism	•	•	•	+
te 1: Refer to page 69 to 70 for spec	cifications for specifications and		N	Non-relief type	•	•	•	+
attachments.	·		Blank	With standard pressure gauge (G401)	•	•	•	∔
te 2: Select options per drainage,	bowl material, element, and	Pressure	Т	Without pressure gauge (gauge port assembled sealed)	•	•	•	∔
regulator sections.		gauge	T8	Compatibility with pressure gauge option (gauge port assembled open)	•	•	•	∔
When selecting options for sev	veral items, list options in order			Compatibility with digital pressure sensor PPX	•	•	•	+
from the top.		X	(1	IN/OUT reverse flow (right to left)	•	•	•	1
te 3: The low-pressure gauge (0 to		🕒 Dis	played ι	unit				
selected for the pressure range		Bla	ank	MPa display, Rc thread	•	\bullet	•	
te 4: Minimum operating pressure o	r automatic drain is 0.1MPa for	J	1	MPa display, NPT, G thread	•			
option symbol "F".	d air are purged until pressure	🕞 Pip	ing ada	otor set (included)	Not	e 11,	Not	e
reaches 0.1 MPa.	a an are purged until pressure	Bla	ank .	No attachments	•		•	T
te 5: Minimum operating pressure of	automatic drain is 0.15MPa for	A6	*W	1/8 piping adaptor set	•			t
option symbol "F1".			*W	1/4 piping adaptor set	•	•	•	t
te 6: When "T" is selected, the gaug	je plug is assembled instead of		0*W	3/8 piping adaptor set	•	•	•	t
the pressure gauge.	-		5*W	1/2 piping adaptor set		•	•	t
te 7: When option "T6" is selected,	only "blank" or "R2" is selected		0*W	3/4 piping adaptor set		É	•	t
for the (H) pressure gauge (e	enclosed). The digital pressure	-	5*W	1 piping adaptor set			-	t
sensor PPX mounting port (Rc ²	 is assembled ventilated. 		2*W	1 1/4 piping adaptor set				t
te 8: Piping adaptor set A*00-**-W is			otor thre					ľ,
te 9: The piping adapter set and C b	-	-	ank	Rc thread				ſ
te 10: G threads and NPT threads a	re available for IN, OUT, gauge		N	NPT thread	•		•	+
		'	<u> </u>	G thread	•	•	•	+
	ort (metal bowl with automatic						-	1
drain).			-					
drain). te 11: The adapter port size can be	e selected from Rc, NPT or G.	G Atta	achment		-		Note	е
drain). te 11: The adapter port size can be Blank: Rc thread/N: NPT threa	e selected from Rc, NPT or G.	G Atta Bla	achmen ank	No attachments	•	•	•	e
drain). te 11: The adapter port size can be Blank: Rc thread/N: NPT threa (e.g.) A8G	e selected from Rc, NPT or G. ad/G: G thread	G Atta Bla B	achment ank W	No attachments C type bracket	•	•	•	e
drain). te 11: The adapter port size can be Blank: Rc thread/N: NPT threa (e.g.) A8G te 12: If NPT is selected for the "0	e selected from Rc, NPT or G. ad/G: G thread C" piping thread type, a NPT	G Atta Bla B	achment ank W 3W	No attachments C type bracket L type bracket	-	•	•	
drain). te 11: The adapter port size can be Blank: Rc thread/N: NPT threa (e.g.) A8G te 12: If NPT is selected for the " pressure gauge is enclosed. I	e selected from Rc, NPT or G. ad/G: G thread C" piping thread type, a NPT f Rc or G thread is selected, an	G Atta Bla B B G4	achment ank W 3W 15P	No attachments C type bracket L type bracket Pressure gauge: G45D-8-P10	•	-	•	
drain). te 11: The adapter port size can be Blank: Rc thread/N: NPT threa (e.g.) A8G te 12: If NPT is selected for the " pressure gauge is enclosed. I R thread pressure gauge is er	e selected from Rc, NPT or G. ad/G: G thread C" piping thread type, a NPT f Rc or G thread is selected, an nclosed.	G Atta Bla B B G4	achment ank W 3W	No attachments C type bracket L type bracket	•	•	•	
drain). te 11: The adapter port size can be Blank: Rc thread/N: NPT threa (e.g.) A8G te 12: If NPT is selected for the " pressure gauge is enclosed. I R thread pressure gauge is er	e selected from Rc, NPT or G. ad/G: G thread C" piping thread type, a NPT f Rc or G thread is selected, an nclosed.	G Atta Bla B B G 4 G 4	achment ank W 3W 15P	No attachments C type bracket L type bracket Pressure gauge: G45D-8-P10	•	•	•	
drain). te 11: The adapter port size can be Blank: Rc thread/N: NPT threa (e.g.) A8G te 12: If NPT is selected for the " pressure gauge is enclosed. I R thread pressure gauge is er	e selected from Rc, NPT or G. ad/G: G thread C" piping thread type, a NPT f Rc or G thread is selected, an nclosed.	© Atta Bla B B C G 4 G 4 G 5	achmen ank W 3W 45P 49P	No attachments C type bracket L type bracket Pressure gauge: G45D-8-P10 Pressure gauge: G49D-8-P10	•	•	• • • •	
drain). te 11: The adapter port size can be Blank: Rc thread/N: NPT threa (e.g.) A8G te 12: If NPT is selected for the "u pressure gauge is enclosed. I R thread pressure gauge is er te 13: A joiner set is included with the	e selected from Rc, NPT or G. ad/G: G thread C" piping thread type, a NPT f Rc or G thread is selected, an nclosed.	© Atta Bla B B B C G 4 G 4 G 4 G 4 G 4	achmen ank W 3W 5P 9P 59P	No attachments C type bracket L type bracket Pressure gauge: G45D-8-P10 Pressure gauge: G49D-8-P10 Pressure gauge: G59D-8-P10	• • • • • • • • • • • • • • • • • • • •	•	• • • •	
drain). te 11: The adapter port size can be Blank: Rc thread/N: NPT threa (e.g.) A8G te 12: If NPT is selected for the " pressure gauge is enclosed. I	e selected from Rc, NPT or G. ad/G: G thread C" piping thread type, a NPT f Rc or G thread is selected, an nclosed.	© Atta Bla B B B C C 4 G 4 G 5 G 4 G 5	achmen ank W 3W 5P 9P 9P	No attachments C type bracket L type bracket Pressure gauge: G45D-8-P10 Pressure gauge: G49D-8-P10 Pressure gauge: G59D-8-P10 Pressure gauge: G40D-8-P10	•	•	• • • • •	

R2 Note 7

Same as standard parts. Refer to page 73 to 75.

CKD

185



Reverse filter, regulator: ozone proof W1100/W3100 W4100/W8100-W-P11 Series

Fluorine rubber and hydrogenated nitrile rubber, etc., used for rubber part materials. • Port size: Rc1/8 to Rc1





How to order 8 1 W 3 1 0 0 W4100 - W - (Z) P11 - ((W1100) - (6) - (A6W) Ô Ö (White type) **G**Attachment Symbol Descriptions B Port size BPort size 1/8 6 • Model no. • 1/4• • 8 3/8 • • 10 Ozone • 15 1/2 specifications 20 3/4 • 25 1 OPort thread type Option C Port threa Note 2 d type 11 Blank Rc thread • • • Note 3 Ν NPT thread • • • • Note 4 G G thread • • • • Note 5 D Optior Note 6 Blank With manual drain cock Note 7 • • • • • • Automatic drain with manual override NO type • F * Refer top page 9 for an explanation Drainage F1 Automatic drain with manual override NC type • • • of the options. FF • Large automatic drain with manual override NO type FF1 Large automatic drain with manual override NC type • Displayed unit • • • Blank Polycarbonate bowl • • • • • Bowl z Nylon bowl Piping adaptor set • • materia Metal bowl • М (included) Metal bowl with manual drain cock • M1 • • Note 9 Blank 5µm • • • • Elemen Note 10 0.3µm (submicron) • • • Y 0.05 to 0.85MPa • • Blank • • Pressure Cautions for model No. selection Range н 0.05 to 0.35MPa • • • • With relief mechanism • • • Blank • Note 1: Refer to page 77 to 78 for specifications for specifications and Relief Ν Non-relief type • • • • attachments. With standard pressure gauge (G401) • • • • Blank Note 2: Select options per drainage, bowl material, element, and Pressur т Without pressure gauge (gauge port assembled sealed) • • • • regulator sections т8 Compatibility with pressure gauge option (gauge port assembled open • • gauge • • When selecting options for several items, list options in order Т6 Compatibility with digital pressure sensor PPX • • • • from the top. Note 3: The low-pressure gauge (0 to 0.4 MPa) is used when "L" is **X**1 IN/OUT reverse flow (right to left) • • • • selected for the pressure range option. **Displayed unit** Note 4: Position of the check valve and pressure gauge can not be changed. Blank MPa display, Rc thread • • • • If the reverse direction of IN and OUT are required, • • .11 MPa display, NPT, G thread • • indicate "X1" in the end of optional section. F Piping adaptor set (included) Note 12, Note 14 Note 5: Minimum operating pressure of automatic drain is 0.1MPa for No attachments • Blank • • • option symbol "F". Initially generated drainage and air are purged until pressure reaches 0.1 MPa. A6*W 1/8 piping adaptor set • Note 6: Minimum operating pressure of automatic drain is 0.15MPa for • A8*W • 1/4 piping adaptor set • option symbol "F1". A10*W 3/8 piping adaptor set • • • Note 7: When "T" is selected, the gauge plug is assembled instead of A15*W • 1/2 piping adaptor set • the pressure gauge. A20*W 3/4 piping adaptor set • • Note 8: When option "T6" is selected, only "blank" or "R2" is selected A25*W 1 piping adaptor set • for the (H) pressure gauge (enclosed). The digital pressure A32*W 1 1/4 piping adaptor set • sensor PPX mounting port (Rc1/8) is assembled ventilated. Adaptor thread type Note 9: A piping adaptor set A*00-**-W is included. Blank Rc thread • • • • Note 10: The piping adapter set and C bracket cannot be used together. NPT thread • • • Ν • Note 11: G threads and NPT threads are available for IN, OUT, gauge G G thread • • • . port and drain discharge port (metal bowl with automatic drain). G Attachment Note 13 Note 12: The adapter port size can be selected from Rc, NPT or G. Blank No attachments • • • Blank: Rc thread/N: NPT thread/G: G thread вw C type bracket • • • • (e.g.) A8G B3W • • L type bracket • Note 13: If NPT is selected for the "C" piping thread type, a NPT G45P Pressure gauge: G45D-8-P10 • • • • pressure gauge is enclosed. If Rc or G thread is selected, an G49P Pressure gauge: G49D-8-P10 • • • • R thread pressure gauge is enclosed. G59P Pressure gauge: G59D-8-P10 • • • • Note 14: A joiner set is included with the piping adapter set. G40P • Pressure gauge: G40D-8-P10 • • • G50P Pressure gauge: G50D-8-P10 • • • • Dimensions

G41P

R2 Note

Pressure gauge: G41D-8-P10

Digital pressure sensor: PPX-R10N-6M

Same as standard parts. Refer to page 81 to 83.

• •

 \bullet \bullet \bullet \bullet



Regulator: ozone proof R1000 / R2000 / R3000 R4000 / R6000 / R8000-W-P11 Series

Fluorine rubber and hydrogenated nitrile rubber, etc., used for rubber part materials. Port size: Rc1/8 to Rc1

Pressure gauge: G50D-8-P10

Pressure gauge: G41D-8-P10

Digital pressure sensor: PPX-R10N-6M

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• •

JIS symbol



	er					P			del n	
R1000) - (6) — w - (L) P11 - 🔵 - (A6)	-			R 1	R 2	R 3	R 4	R 6
	(White type)				chment	0	0	0	0	0 0
		Ozone		CAlla		Ō	Ō	Ō	Õ	Ŏ
		specifications	Syn	nbol	Descriptions					
			B Por	t size		1				
Model no.	Port size		6	3	1/8	•				
			8	3	1/4	•	•	•	•	
			1	0	3/8		•	•	•	
			1	5	1/2				•	
GPO	ort thread type	Option	2	0	3/4					•
			2	5	1					•
			C Por	t thread	type				l	Not
			Bla	ank	Rc thread		\bullet		\bullet	٠
			1	J	NPT thread	•	\bullet	•	\bullet	٠
			0	G	G thread	•	\bullet	•	•	٠
			D Opt	ion						Not
			Pressure	Blank	0.05 to 0.85MPa					•
			Range	L	0.05 to 0.35MPa Note 4		•	•	•	•
		Displayed unit		Blank	With relief mechanism		•	•	•	•
			Relief	N	Non-relief type		•	•	•	•
				Blank	With standard pressure gauge (G401)	•	•	•	•	•
		Piping adaptor set	Pressure	Т	Without pressure gauge (gauge port assembled sealed) Note 5	•	•	•	•	•
		(included)	gauge	Т8	Compatibility with pressure gauge option (gauge port assembled open)		•		•	•
			guugo		Company mar procedie gaage opson (gaage por accombine opon)	-	-	-	-	-
				т6	Compatibility with digital pressure sensor PPX. Note 6					•
			x	Т6 1	Compatibility with digital pressure sensor PPX Note 6 IN/OUT reverse flow (right to left)	•	•	•	•	•
				1	IN/OUT reverse flow (right to left)	•	•	•	•	•
			Display	1 played u	IN/OUT reverse flow (right to left)	•	•	•	•	•
Cautions	s for model N	lo selection	E Dis Bla	1 played u ank	IN/OUT reverse flow (right to left) init MPa display, Rc thread	•	•	•	•	•
Cautions	s for model N	lo. selection	E Dis Bla J	1 played u ank 1	IN/OUT reverse flow (right to left) IN MPa display, Rc thread MPa display, NPT, G thread	• • • •	• • •	• • •	• • •	• • • • • • • • • • • • • • • • • • • •
te 1: Refer to pag	ge 113 to 114 for spe	Io. selection	E Dis Bla J F Pipi	1 played u ink 1 ing adap	IN/OUT reverse flow (right to left) init MPa display, Rc thread MPa display, NPT, G thread otor set (included)	• • •	•	• • •	• • • •	• • • •
te 1: Refer to pag and attachm	ge 113 to 114 for speneration of the speneration of	cifications for specifications	 Disj Bla J Fipi Bla 	1 played u ank 1 ing adap ank	IN/OUT reverse flow (right to left) init MPa display, Rc thread MPa display, NPT, G thread otor set (included) No attachments	• • • •	• • •	• • • •	• • • • •	• • • • •
te 1: Refer to pag and attachm	ge 113 to 114 for speneration of the speneration of		 Display Bla J F Pipi Bla A6 	1 played u ank 1 ing adap ank *W	IN/OUT reverse flow (right to left) init MPa display, Rc thread MPa display, NPT, G thread otor set (included) No attachments 1/8 piping adaptor set	• • • • • •	•	• • • •	•	• • • • •
te 1: Refer to pag and attachm te 2: G and NPT ports.	ge 113 to 114 for spen nents. Threads are availab	cifications for specifications	E Disp Bla J F Pipi Bla A6 A8	1 played u ank 1 ing adap ank *W *W	IN/OUT reverse flow (right to left) init MPa display, Rc thread MPa display, NPT, G thread itor set (included) No attachments 1/8 piping adaptor set 1/4 piping adaptor set	 • /ul>			•	• • • • •
te 1: Refer to pag and attachm te 2: G and NPT ports. te 3: When select from the top.	ge 113 to 114 for spenents. ⁻ threads are availab ting options for severa o.	cifications for specifications le for IN, OUT, and gauge al items, list options in order	E Dis Bla J F Pipi Bla A6 A8 A10	1 played u ank 1 ing adap ank *W *W	IN/OUT reverse flow (right to left) init MPa display, Rc thread MPa display, NPT, G thread itor set (included) No attachments 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set	 • /ul>			•	• • • • • • • • • • • • • • • • • • •
te 1: Refer to pag and attachm te 2: G and NPT ports. te 3: When select from the top. te 4: The low-pres	ge 113 to 114 for spenents. Threads are availab ting options for severa S. Sesure gauge (0 to 0.4	cifications for specifications le for IN, OUT, and gauge al items, list options in order 4 MPa) is used when "L" is	E Dis Bla J F Pipi Bla A6 A8 A10 A15	1 played u nk 1 ing adap nk *W *W)*W	IN/OUT reverse flow (right to left) IN/OUT reverse flow (right to left) IN/OUT reverse flow (right to left) IMPa display, Rc thread MPa display, NPT, G thread INPa display, NPT, G threa				•	• • • • • • • • • • • • • • • • • • •
te 1: Refer to pag and attachm te 2: G and NPT ports. te 3: When select from the top. te 4: The low-pres selected for t	ge 113 to 114 for spenents. Threads are availabing options for severable. Subscriptions for severable. Subscriptions for severable. The pressure gauge (0 to 0.4 the pressure range options for severable.	cifications for specifications le for IN, OUT, and gauge al items, list options in order 4 MPa) is used when "L" is	 Display Display Bla J Pipi Bla A6 A8 A10 A15 A20 	1 played u ank 1 ing adap ank *W *W 5*W	IN/OUT reverse flow (right to left) init MPa display, Rc thread MPa display, NPT, G thread otor set (included) No attachments 1/8 piping adaptor set 1/4 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set	 • /ul>			•	• • • • • • • • • • • • • • • • • • •
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G50P

G41P

R2 Note 5

Dimensions

CKD

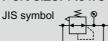
Same as standard parts. Refer to page 117 to 119.

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Reverse regulator: ozone proof R1100/R2100/R3100 R4100/R6100/R8100-P11 Series

Fluorine rubber and hydrogenated nitrile rubber, etc., used for rubber part materials. Port size: Rc1/8 to Rc1





How to order R1100 - 6 - W - ((White type)	L P11 A6	-	– G Atta	chment	R 1 1 0	A R2100	Moo R 3 1 0	del n R 4 1 0 0	o. R 6 1 0 0
	Ozone	Syn	nbol	Descriptions	ľ	U	U		
	specifications	B Por		Decomptione					
Model no. BPort size				1/8					
		8		1/4	•	•	•	\bullet	
		1	0	3/8		•	•	•	
		1	5	1/2				\bullet	
Port thread type	Option	2	0	3/4					•
	Copulon	2	5	1					•
		Por	t thread	type					Note
			ank	Rc thread					
		N		NPT thread					
				G thread		•	•		
		D Opt	ion Blank	0.05 to 0.85MPa				NO	te 3,
		Pressure	Blank L	0.05 to 0.85MPa Note 5					
	Displayed unit	Range	∟ Blank	With relief mechanism					
		Relief	N	Non-relief type					
			Blank	With standard pressure gauge (G401)					
	Piping adaptor set	Pressure	Т	Without pressure gauge (gauge port assembled sealed) Note 6	-				
	(included)		т8	Compatibility with pressure gauge option (gauge port assembled open	-				
	Note 6	gauge	10	Companying with hissorie gauge option (gauge hold assembled oben		•	-		
			те	Compatibility with digital prossure sonsor PDX. Note 7				' A I	
	Note 7	×	T6	Compatibility with digital pressure sensor PPX Note 7	7	•	•		
		x	1	IN/OUT reverse flow (right to left)	7 • •	•	•	•	•
		🕒 Dis	1 played u	IN/OUT reverse flow (right to left)	7 • •	•	•	•	
Cautions for model No	Note 7	E Dis Bla	1 played ເ ink	IN/OUT reverse flow (right to left) init MPa display, Rc thread		•	•	•	
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Note 1: Refer to page 121 to 122 for spe and attachments. Note 2: G and NPT threads are availab ports. Note 3: When selecting options for sever from the top. Note 4: Position of the check valve and changed. If the reverse direction indicate "X1" in the end of option Note 5: The low-pressure gauge (0 to 0. selected for the pressure range of Note 6: When "T" is selected, the gauge of the pressure gauge. Note 7: When option "T6" is selected, on for the (H) pressure gauge (end sensor PPX mounting port (Rc1/ Note 8: Piping adaptor set A*00-**-W is i lote 9: A joiner set is included with the p Note 10: The adapter port size can be s Blank: Rc thread/N: NPT thread Note 11: If NPT is selected for the "C" pressure gauge is enclosed. If an R thread pressure gauge is of Note 12: The piping adapter set and 0	Note 7 5. Selection ecifications for specifications ble for IN, OUT, and gauge ral items, list options in order I pressure gauge can not be of IN and OUT are required, hal section. A MPa) is used when "L" is option. e plug is assembled instead hly "blank" or "R2" is selected closed). The digital pressure /8) is assembled ventilated. included. biping adapter set. selected from Rc, NPT or G. d/G: G thread (e.g.) A8G ' piping thread type, a NPT 'Rc or G thread is selected, enclosed.	E Dis Bla J Fipi Bla A66 A88 A10 A15 A20 A25 A32 * Adap Bla Bla Bla Bla Bla Bla Bla Bla G4 G4 G4	1 played u nk 1 ing adap ank *W *W 5*W 5*W 5*W 2*W 5*W 2*W 5*W 2*W 5*W 5*W 5*W 5*W 5*W 5*W 5*W 5*W 5*W 5	IN/OUT reverse flow (right to left) IN/OUT reverse flow (right to left) Init MPa display, Rc thread MPa display, NPT, G thread otor set (included) No attachments 1/8 piping adaptor set 1/4 piping adaptor set 3/8 piping adaptor set 1/2 piping adaptor set 3/4 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 piping adaptor set 1 fully piping adaptor set 1 full					((
Note 1: Refer to page 121 to 122 for spe and attachments. Note 2: G and NPT threads are availab ports. Note 3: When selecting options for sever from the top. Note 4: Position of the check valve and changed. If the reverse direction indicate "X1" in the end of option Note 5: The low-pressure gauge (0 to 0. selected for the pressure range of Note 6: When "T" is selected, the gauge of the pressure gauge. Note 7: When option "T6" is selected, on for the (H) pressure gauge (end sensor PPX mounting port (Rc1/ Note 8: Piping adaptor set A*00-**-W is i lote 9: A joiner set is included with the p Note 10: The adapter port size can be s Blank: Rc thread/N: NPT thread Note 11: If NPT is selected for the "C" pressure gauge is enclosed. If an R thread pressure gauge is of Note 12: The piping adapter set and 0	Note 7 5. Selection ecifications for specifications ble for IN, OUT, and gauge ral items, list options in order I pressure gauge can not be of IN and OUT are required, hal section. A MPa) is used when "L" is option. e plug is assembled instead hly "blank" or "R2" is selected closed). The digital pressure /8) is assembled ventilated. included. biping adapter set. selected from Rc, NPT or G. d/G: G thread (e.g.) A8G ' piping thread type, a NPT 'Rc or G thread is selected, enclosed.	Diss Bla J Pipi Bla A66 A88 A10 A15 A20 A22 A32 * Adap Bla N C C A15 A32 * Adap Bla Bla Bla Bla Bla Bla Bla Bla	1 played u ink 1 ing adap ink *W *W b*W b*W b*W b*W b*W b*W b*W b*W b	IN/OUT reverse flow (right to left) IN/OUT reverse flow (right to left) Init MPa display, Rc thread MPa display, NPT, G thread otor set (included) No attachments 1/4 piping adaptor set 3/8 piping adaptor set 3/4 piping adaptor set 1/2 piping adaptor set 1/2 piping adaptor set 1/4 piping adaptor set 1/2 piping adaptor set 1/4 piping adaptor set 1/2 piping adaptor set 1 piping adaptor set 1 fully piping adaptor set 1 keype Rc thread NPT thread G thread t No attachments C type bracket B type bracket Pressure gauge: G49D-8-P10 Pressure gauge: G59					

Jimensions

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Custom combination specifications

General Description

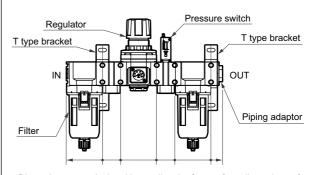
Customized combinations are customer-oriented combinations that meet user needs for diverse combinations.

Place orders by filling out the specifications below.

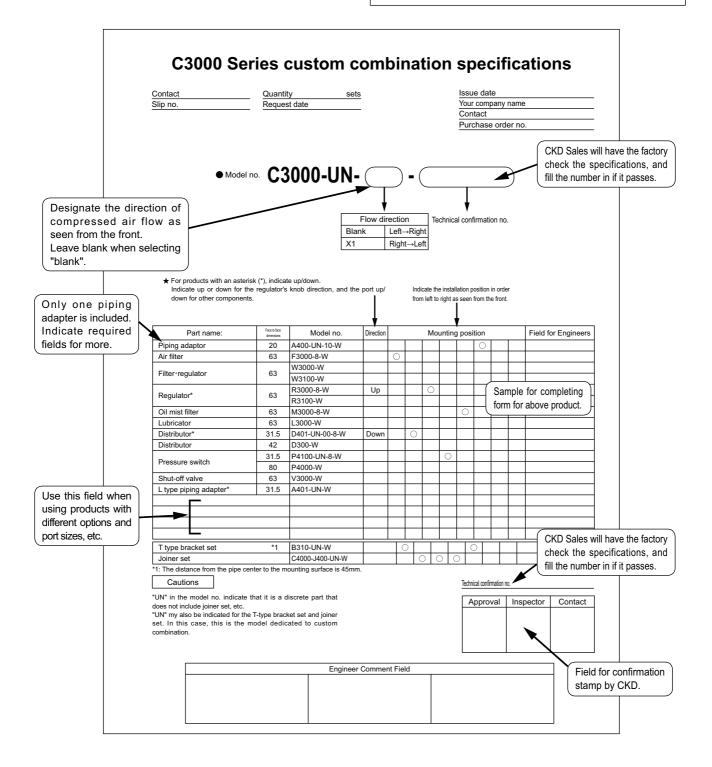
Preparing custom combination specifications

- See individual pages for component ordering and details, etc.
- 3000 and 4000 Series combinations are used for products other than the pressure switch.

Refer to specifications for C4000 in this case.



Dimensions are calculated by totaling the face to face dimensions of each component. The bracket mounting position is also calculated.



C1000 Series custom combination specifications

Contact	Quantity	se	ts	Issue date
Slip no.	Request date			Your company name
				Contact
				Purchase order no.
• Model no. C1000-	JN-	- (
	Flow d	lirection	Technical confirmation no.	
	Blank	Left→Right		
	X1	Right→Left		
			-	

★ For products with an asterisk (*), indicate up/down. Indicate up or down for the regulator's knob direction, and the port up/down for other components.

Indicate the installation position in order from left to right as seen from the front.

Part name:	Face to face dimensions	Model no.	Direction		Mounti	ing pos	sition		Field for Engineers
Piping adaptor	21.5	A100-UNW							
Air filter	40	F1000W							
Filter, regulator	40	W1000W							
Filter • regulator	40	W1100W							
Pogulator*	40	R1000W							
Regulator*	40	R1100W							
Oil mist filter	40	M1000W							
Lubricator	40	L1000W							
Distributor*	28	D101-UN-00W							
Pressure switch	28	P1100-UNW							
Shut-off valve	40	V1000W							
L type piping adapter*	28	A101-UNW							
T type bracket set	*1	B110-UN-W							
Joiner set		C1000-J100-UN-W							

Cautions

"UN" in the model no. indicate that it is a discrete part that does not include joiner set, etc.

"UN" my also be indicated for the T-type bracket set and joiner set. In this case, this is the model dedicated to custom combination.

When selecting the pressure switch P*100-UN-W for the combination end, select the piping adaptor A*00-UN-W on the end side. (The horizontal direction port does not have threads)

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

Approval	Inspector	Contact

Engineer Comment Field							

C2000 Series custom combination specifications

Contact		Quantity	sets				Issu	e date		
Slip no.		Request date					Your	compa	iny na	me
		<u>.</u>					Con			
							Purc	hase o	order	no.
• Model no. C20	00-	•UN		↓ ↓						
		Flow direction	Tech	nical con	firmatic	on no.				
		Blank Left→Rig	ht							
		X1 Right→Le								
★ For products with an Indicate up or down up/down for other co	for the	regulator's knob direction, an	d the poi			installation ght as see ↓				
Part name:	Face to face dimensions	Model no.	Direction		M	ounting	position			Field for Engineers
Piping adaptor	20	A400-UNW								
Air filter	50	F2000W								
	63	F3000W								
Filter•regulator	50	W2000W								
		W2100W								
Regulator*	50	R2000W								
		R2100W						_		
Oil mist filter	50	M2000W								
	63	M3000W						_		
Lubricator	63	L3000W								
Distributor*	31.5	D401-UN-00W								
Distributor	42	D300W								
Pressure switch	31.5	P4100-UNW								
	80	P4000W								
Shut-off valve	63	V3000W								
L type piping adapter*	31.5	A401-UNW								
T type bracket set	*1	B310-UN-W								
Joiner set		C4000-J400-UN-W	1							
L		ı	-1							

Cautions

"UN" in the model no. indicate that it is a discrete part that does not include joiner set, etc.

"UN" my also be indicated for the T-type bracket set and joiner set. In this case, this is the model dedicated to custom combination.

When selecting the pressure switch P*100-UN-W for the combination end, select the piping adaptor A*00-UN-W on the end side. (The horizontal direction port does not have threads)

Select the reverse regulator R2100-W or reverse filter regulator W2100-W when installing the shut-off valve V3000-W and lockout valve V3010-W onto the primary side of the regulator or filter regulator.

 $^{\star}1:$ The distance from the pipe center to the mounting surface is 45mm.

Engineer Comment Field							

C2000 Series custom combination specifications

Contact Slip no.		Quantity Request date	sets						-	e date comp	e any na	ame
									Cont	act		
									Purc	hase	orde	r no.
• Model no. C25	500-				ł			$\Big)$				
Flow direction Technical confirmation no.												
		Blank Left→F						•				
		X1 Right-	-									
		XI Ngh	LOIL									
★ For products with ar Indicate up or down up/down for other co	for the	regulator's knob direction,	and the p	oort					tion po seen f			
Part name:	Face to face dimensions	Model no.	Direction			Мс	untin	g pos	sition			Field for Engineers
Piping adaptor	20	A400-UNW										
Air filter	63	F3000W										
Filter•regulator	63	W3000W										
	00	W3100W										
Regulator*	50	R2000W R2100W										
Oil mist filter	63	M3000W										
Lubricator	63	L3000W										
Distributor*	31.5	D401-UN-00W										
Distributor	42	D300W										
Pressure switch	31.5	P4100-UNW										
Flessure switch	80	P4000W										
Shut-off valve	63	V3000W										
L type piping adapter*	31.5	A401-UNW										
T type bracket set	*1	B310-UN-W										
Joiner set		C4000-J400-UN-W										

Cautions

"UN" in the model no. indicate that it is a discrete part that does not include joiner set, etc.

"UN" my also be indicated for the T-type bracket set and joiner set. In this case, this is the model dedicated to custom combination.

When selecting the pressure switch P*100-UN-W for the combination end, select the piping adaptor A*00-UN-W on the end side. (The horizontal direction port does not have threads)

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

Approval	Inspector	Contact

Engineer Comment Field											

C3000 Series custom combination specifications

Contact Slip no.		Quantity Request date	sets					ue date ir compar	ny nam	20		
								ntact	ny nan			
								chase o	order n	10		
• Model no. C30	00-		-)					
	Flow direction Technical confirmation no.											
		Blank Left→										
		X1 Right-										
★ For products with ar Indicate up or down up/down for other co	for the omponer	regulator's knob direction,	and the po	ort Indi fron			ion positio seen from					
Part name:	Face to face dimensions	Model no.	Direction	Direction Mounting po					sition Field for Engineers			
Piping adaptor	20	A400-UNW										
Air filter	63	F3000W										
Filter • regulator	63	W3000W										
		W3100W										
Regulator*	63	R3000W R3100W										
Oil mist filter	63	M3000W										
Lubricator	63	L3000W										
Distributor*	31.5	D401-UN-00W										
Distributor	42	D300W										
Pressure switch	31.5	P4100-UNW										
Flessule Switch	80	P4000W										
Shut-off valve	63	V3000W										
L type piping adapter*	31.5	A401-UNW										
					1							
					1							
T type bracket set	*1	B310-UN-W										
Joiner set		C4000-J400-UN-W										

Cautions

"UN" in the model no. indicate that it is a discrete part that does not include joiner set, etc.

"UN" my also be indicated for the T-type bracket set and joiner set. In this case, this is the model dedicated to custom combination.

When selecting the pressure switch P*100-UN-W for the combination end, select the piping adaptor A*00-UN-W on the end side. (The horizontal direction port does not have threads)

 $^{\ast}1:$ The distance from the pipe center to the mounting surface is 45mm.

Technical confirmation no.

Approval	Inspector	Contact

[Engineer Comment Field										

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CKD

C4000 Series custom combination specifications

Contact		Quantity	sets				ls	Issue date			
Slip no.		Request date					Y	Your company name			
							C	Contact			
• Model no. C40							<u>γ</u>	urcha	se orde	er no.	
C40	.00.				7)				
 *1: Port size 8, 10, 15 are 2 25mm. *2: The distance from the pip the mounting surface is 55 ★ For products with an Indicate up or down 	be center 5 mm. n asterisk	to Blank Left→F X1 Right-	Right →Left	nnical co		tion no		ition in o	rder		
up/down for other c						right as					
Part name:	Face to face dimensions	Model no.	Direction		Mo	ounting	positio	on		Field for Engineers	
Piping adaptor	*1	A400-UNW									
Air filter	63	F3000W									
All liller	80	F4000W									
	63	W3000W									
Filter∙regulator	05	W3100W									
Filler regulator	80	W4000W									
	00	W4100W									
	63	R3000W									
Regulator*		R3100W									
regulator	80	R4000W									
	00	R4100W									
Oil mist filter	63	M3000W									
	80	M4000W									
Lubricator	63	L3000W									
	80	L4000W									
Distributor*	31.5	D401-UN-00W									
Distributor	42	D300W									
Pressure switch	31.5	P4100-UNW									
	80	P4000W									
Shut-off valve	63	V3000W									
L type piping adapter*	31.5	A401-UNW									
				\square	_						
T type bracket set	*2	B410-UN-W									
Joiner set		C4000-J400-UN-W									
Cautions				Cautions Technical confirmation no.							

"UN" in the model no. indicate that it is a discrete part that does not include joiner set, etc.

"UN" my also be indicated for the T-type bracket set and joiner set. In this case, this is the model dedicated to custom combination.

When selecting the pressure switch $\mathsf{P}^{\star}100\text{-}\mathsf{UN}\text{-}\mathsf{W}$ for the combination end, select the piping adaptor A*00-UN-W on the end side. (The horizontal direction port does not have threads)

Engineer Comment Field										

-	-
Inspector	Contact
	Inspector

CKD 194

C6000 Series custom combination specifications

Contact	Quantity	se	ts	Issue date
Slip no.	Request date			Your company name
				Contact
				Purchase order no.
• Model no. C6000-	UN- 🤇	- (
	Flow d	lirection	Technical confirmation no.	
	Blank	Left→Right		
	X1	Right→Left		

★ For products with an asterisk (*), indicate up/down. Indicate up or down for the regulator's knob direction, and the port up/down for other components.

ort Indicate the installation position in order from left to right as seen from the front.

Part name:	Face to face dimensions	Model no.	Direction	 Ma		nacit	ian		Field for Engineers
			Direction		ounting	posit			Field for Engineers
Piping adaptor	*1	A800-UNW							
Air filter	90	F6000W							
	100	F8000W							
Filtorroqulator	100	W8000W							
Filter • regulator	100	W8100W							
	90	R6000W							
De sudete st	90	R6100W							
Regulator*	100	R8000W							
	100	R8100W							
	90	M6000W							
Oil mist filter	100	M8000W							
Lubricator	100	L8000W							
Distributor*	50	D801-UN-00W							
Pressure switch	50	P8100-UNW							
L type piping adapter*	50	A801-UNW							
T type bracket set	*2	B810-UN-W							
Joiner set		C8000-J800-UN-W							

Cautions

"UN" in the model no. indicate that it is a discrete part that does not include joiner set, etc.

"UN" my also be indicated for the T-type bracket set and joiner set. In this case, this is the model dedicated to custom combination.

When selecting the pressure switch P^{100} -UN-W for the combination end, select the piping adaptor A^{00} -UN-W on the end side. (The horizontal direction port does not have threads)

*1: Port size 20, 25 are 35mm, 32is 38mm.

 $^{\ast}2$: The distance from the pipe center to the mounting surface is 65mm.

Engineer Comment Field		

Approval	Inspector	Contact

C8000 Series custom combination specifications

Contact Slip no.						Issue date Your compa	
		Request date				Contact	
						Purchase	order no
• Model no. C80	100-	·UN-()	- ()	
		\square					
		*		★			
		Flow direction	n Te	chnical cor	firmation no.		
*1: Port size 8, 10, 15 are 35r	mm, 32	Blank Left→l	Right				
is 38mm. *2: The distance from the pipe	center	X1 Right-	-				
to the mounting surface is	65mm.	0 *					
★ For products with ar Indicate up or down up/down for other ce	n for the	regulator's knob direction,	and the			allation position as seen from the	
Part name:	Face to face dimensions	Model no.	Direction	,	Mounting	position	Field for Engineers
Piping adaptor	*1	A800-UNW					
Air filter	100	F8000W					
	100	W8000W					
Filter•regulator	100	W8100W					
Dogulator*	100	R8000W					
Regulator*	100	R8100W					
Oil mist filter	100	M8000W					
Lubricator	100	L8000W					
Distributor*	50	D801-UN-00W					
Pressure switch	50	P8100-UNW					
L type piping adapter*	50	A801-UNW					
T type bracket set	*2	B810-UN-W					

Cautions

Joiner set

"UN" in the model no. indicate that it is a discrete part that does not include joiner set, etc.

C8000-J800-UN-W

"UN" my also be indicated for the T-type bracket set and joiner set. In this case, this is the model dedicated to custom combination.

When selecting the pressure switch P*100-UN-W for the combination end, select the piping adaptor A*00-UN-W on the end side. (The horizontal direction port does not have threads)

Approval	Inspector	Contact

Engineer Comment Field		

MEMO

Pressure gauge/indicator

Related products

Components for air preparation/F.R.L. unit

CONTENTS	
Pressure gauge	
Pressure gauge assembly (G401-W)	199
Pressure gauge with safety sign (G40D, G50D)	200
Pressure gauge with limit mark (G45D)	201
Pressure gauge with limit mark (G41D)	202
	203
• General purpose pressure gauge (G49D, G59D)	
Pressure gauge for panel mount (G53D)	205
 Pressure gauge for panel mount (G53D) Pressure gauge with switch (G52D) 	
Pressure gauge for panel mount (G53D)	205
 Pressure gauge for panel mount (G53D) Pressure gauge with switch (G52D) 	205
 Pressure gauge for panel mount (G53D) Pressure gauge with switch (G52D) Pressure switch 	205 207

▲ Handling the pressure gauge

Repeated and sudden increase and decrease in the pressure and pressure pulsation must be avoided because this could adversely affect the life of the pressure gauge. Either ease the pressure fluctuation in the circuit or check with CKD so that a pressure gauge with a cushioning screw is prepared.

Refer to "Pneumatics, Vacuum, Auxiliary Components Catalog" (No. CB-024SA) for general precautions fo pneumatic components, refer to "ASafety Precautions" in this catalog for detailed precautions for each series.

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Thin pressure gauge

G401-W Series

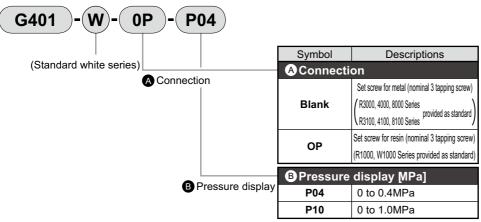
Thin, compact design ideal for incorporating devices. Suitable for filter regulator, regulator, and pressure switch (P4000-W). Connection: O ring seal, set screw JIS symbol



Specifications

Descriptions		G401-W
Working fluid	d	Compressed air
Fluid temper	rature °C	5 to 60
Ambient tempe	erature °C	5 to 60
Precision	Class	±3%F.S. (at 5 to 35℃)
Shape		Square shaped, set screw
Length of display section		ø26
Material Housing Lens		PBT Resin
		Polycarbonate resin
Pressure range MPa		0 to 0.4
		0 to 1.0
Connection		O ring seal, set screw
Weight g		11

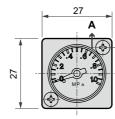
How to order



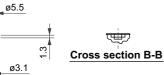
Dimensions and parts matrial



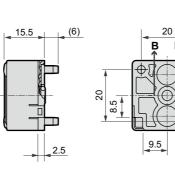




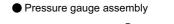
Pressure display: P04 Pressure display: P10

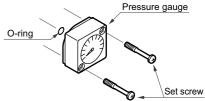


Cross section A-A



Part name:	Material
Bourdon tube	Phosphor bronze
Case	PBT Resin
Lens	Polycarbonate resin





* Tighten the mounting screw to 0.6 N·m or less.

Applications





Pressure gauge with safety mark

G40D/G50D Series

Green zone and red zone for easy management. ● Port size: Rc1/8 to Rc1/4

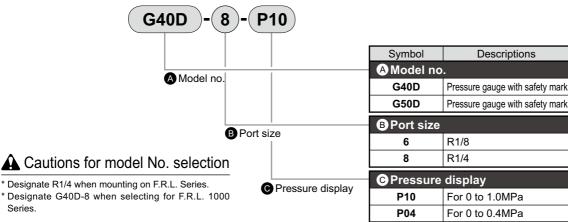




Specifications

Descriptions		G40D, G50D			
Descriptions		P10	P04		
Working fluid		Compressed air			
Full scale MI	Ра	1	0.4		
Safety mark setting range M	/IPa	0.15 to 1.0	0.06 to 0.4		
Maximum setting range M	/IPa	0.45	0.18		
Ambient temperature	°C	5 to 60			
Fluid temperature	°C	5 to 60			
Port size	R	1/8, 1/4			
Precision		±3%F.S. (at 5 to 35°C)			
Weight	g	G40D: 85	G50D: 100		

How to order



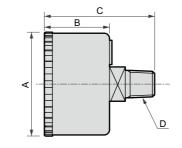
Dimensions and parts matrial

How to adjust pressure range



Pressure display: P04

G40D

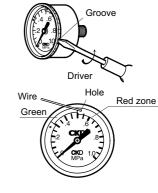


Pressure display: P10

Part name:	Material
Bourdon tube, stock	Brass
Housing	Steel sheet+paint
Lens	Polyamide resin
Mark section	PBT Resin

Model no.	Α	В	С	D
G40D-6	ø	26.5	44	R1/8
G40D-8	42.5	20.5	46	R1/4
G50D-6	ø	27.5	44	R1/8
G50D-8	52.5	27.5	46	R1/4

When opening the transparent case



Remove the transparent cover and insert a wire to the hole in red zone to move the red zone. After the adjustment, always supply compressed air after assembling the transparent cover.





Pressure gauge with limit mark

G45D Series

Easy visual inspection with green arrow. ● Port size: Rc1/8 to Rc1/4



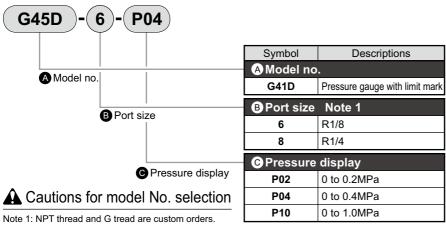


Specifications

Descriptions		G45D
Working fluid		Compressed air
Fluid tempe	erature °C	5 to 60
Ambient tem	perature °C	5 to 60
Precision	Note 1	JIS Class 2.5 equivalent
Shape		Back side thread
Length of d	isplay section	ø39
	Stud	Brass
Material	Housing	Steel sheet+paint (white)
Material	Lens	Polyamide resin
	Mark section	Polyacetal resin
Pressure range MPa		0 to 0.2
(Setting range)		0 to 0.4 0 to 1.0
Port size		R1/8, 1/4
Weight g		74

Note 1: The guaranteed display accuracy temperature is $20 \pm 15^{\circ}$ C.

How to order

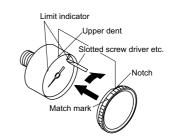


How to adjust

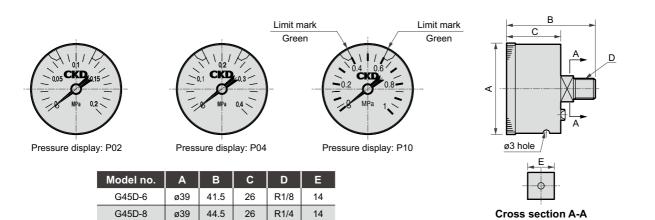
Turn the clear case counterclockwise and pull forward.

Move the green arrow with a slotted driver to set the limit mark. After the adjustment, always supply compressed air after assembling the transparent cover.

Do not bend other indicators and scale when setting the limit mark.



Dimensions





Pressure gauge with limit mark

G41D Series

Easy visual inspection with green arrow. ● Port size: Rc1/8 to Rc1/4



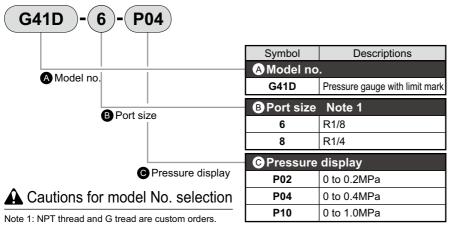


Specifications

Descriptions		G41D	
Working fluid		Compressed air	
Fluid tempe	erature °C	5 to 60	
Ambient temp	perature °C	5 to 60	
Precision	Note 1 Class	±3%F.S. (at 5 to 35℃)	
Shape		Back side thread	
Length of d	isplay section	ø42	
	Stud	Brass	
Material	Housing	Stainless steel	
Material	Lens	Polycarbonate resin	
	Mark section	Polyacetal resin	
Pressure ra	ange MPa	0 to 0.2	
(setting range)		0 to 0.4 0 to 1.0	
Port size	Note 1	R1/8, 1/4	
Weight	g	82	

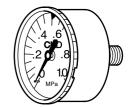
Note 1: The guaranteed display accuracy temperature is $20 \pm 15^{\circ}$ C.

How to order



How to adjust

Remove the transparent cover, then move the green arrow with a screw driver, etc. After the adjustment, always supply compressed air after assembling the transparent cover.



Remove the transparent cover by turning it counterclockwise and pulling it off.

Dimensions

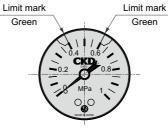


Pressure display: P02

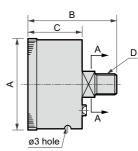


Pressure display: P04

Model no.	Α	В	С	D	Е
G41D-6	ø42	40.5	24.5	R1/8	12
G41D-8	ø42	44.5	24.5	R1/4	14



Pressure display: P10





202



General purpose pressure gauge

G49D/G59D Series

Port size: Rc1/8 to Rc1/4





Specifications

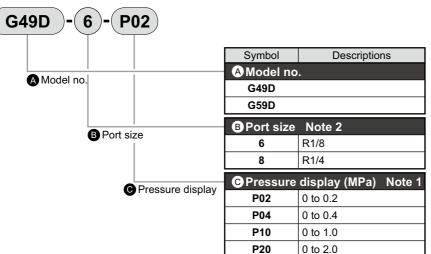
Descriptions		G49D	G59D	
Working fluid		Compressed air		
Fluid temperature °C		5 to 60		
Ambient temp	erature °C	5 to 60		
Precision	Note 1	±3%F.S. (a	t 5 to 35℃)	
Shape		Back sid	e thread	
Length of di	splay section	ø42	ø52	
	Stud	Brass	Note 2	
Material	Housing	Steel sheet+chrome plating		
	Lens	Glass		
		0 to 0.2		
Pressure ra	nge MPa	0 to 0.4		
Ũ		0 to 1.0 0 to 2.0		
Port size	R		1/4	
Weight	g	86	115	
		· · · · · · · · · · · · · · · · · · ·		

Clean specification (Catalog No. CB-033SA)
Dust generation preventing structure for use in cleanrooms
G49D P9%
G59D P9※
Copper and PTFE free specification (Page 179)
Copper and PTFE free specification (Page 179)
G49D - · · · · · P6

Note 1: The guaranteed display accuracy temperature is $20 \pm 15^{\circ}$ C.

Note 2: The material of the Bourdon's tube is phosphor bronze only for pressure indication "P20."

How to order



A Cautions for model No. selection

Note 1: Consult with CKD for indications other than MPa. Note 2: NPT thread are custom orders.

Dimensions



Pressure display: P02



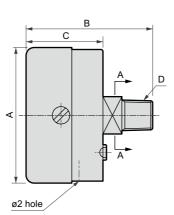
CKD



Pressure display: P04



Pressure display: P20





Cross section A-A

Model no.	Α	В	С	D	Е
G49D-6	ø43.5	40.5	24.5	R1/8	12
G49D-8	ø43.5	44	24.5	R1/4	14
G59D-6	ø52	44.5	28	R1/8	12
G59D-8	ø52	46.5	28	R1/4	14
G49D-6-P6	ø42.8	43.5	27.5	R1/8	12
G59D-8-P6	ø51.8	52.5	30	R1/4	14



MEMO



Pressure gauge for panel mount

G53D Series





Main features

Pressure gauge for panel mount

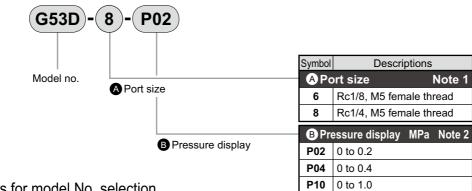
M3 female thred port provided as standard

Specifications

Model no.		G53D
Working fluid		Compressed air
Fluid temperature °C		5 to 60
Ambient tempera	iture °C	-5 to 60 (to be unfrozen)
Precision	Note 1	±3% F.S. (at 5 to 35°C)
Shape		Back side thread
Length of display section		ø52
	Stud	Brass
Material	Housing	Steel sheet+chrome plating
	Lens	Glass
Pressure range	MPa	0 to 0.2 0 to 0.4 0 to 1.0
Port size	R	1/8 (with M5 female thread), 1/4 (with M5 female thread)
Weight	g	100

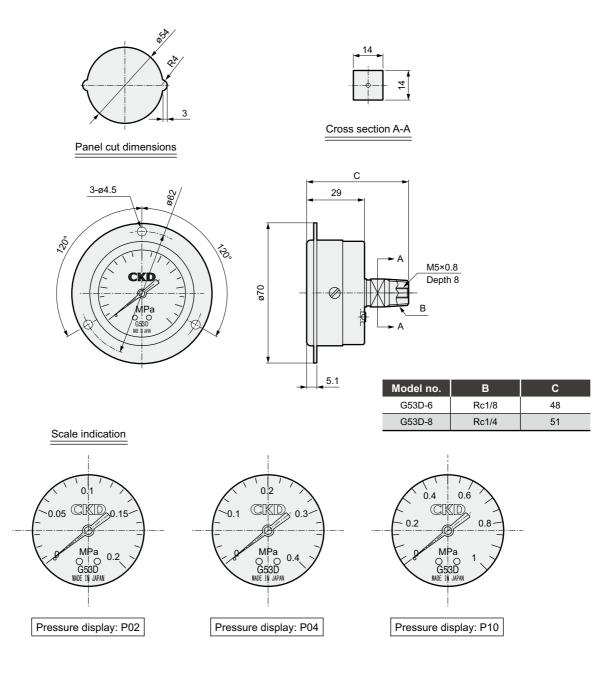
Note 1: The guaranteed display accuracy temperature is 20 ± 15°C.

How to order



A Cautions for model No. selection

Note 1: Consult with CKD when ordering NPT thread. Note 2: Consult with CKD for indications other than MPa.



▲ Safety precautions

Check that no impact or vibration is applied directly to the product.

Repeated and sudden increase and decrease in pressure and pressure pulsation must be avoided because it could adversely affect the life of the pressure gauge.

Ease the pressure fluctuation in the circuit.



Pressure gauge with switch







Main features

- Introducing a pressure switch function to the analog pressure gauge
- Optional non polarized connector
- Optional operation indicator light

Specifications

•			
Desc	riptions	Pressure gauge	
Working fluid		Compressed air	
Fluid tempera	iture ℃	5 to 60	
Ambient temp	erature °C	-5 to 60 (to be unfrozen)	
Precision	Note 1	±3% F.S. (at 5 to 35°C)	
Shape		Back side thread	
	Stud	Brass	
	Bourdon tube	Phosphor bronze	
Material	Housing	Steel sheet+chrome plating	
	Lens	Polycarbonate resin	
	Setting needle	ABS resin (green)	
Pressure range Note 2		0 to 1.0MPa	
Port size R		1/4	
Weight g		150	

Note 1: The guaranteed display accuracy temperature is 20 ± 15°C. Note 2: Do not apply pressure beyond max.indicated pressure. Otherwise, malfunctioning may occur.

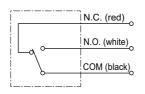
Descriptions	Pressure switch
Pressure switch setting range	0.1 to 0.8 MPa
Hysteresis	0.07MPa
Contact configuration	Without indicator light: 1ab (NO, NC),
Contact configuration	with indicator light: 1a (NO)
Setting indicator margin of error	±0.05MPa
Lead wire length	300mm
Electric connection	Without light: lead wire 3 pcs. With light:M12 connector (4 pin)
Indicator light	LED (load current: 8 to 30 mA)

Microswitch rated

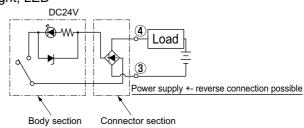
Load	Resistance load		
Rated voltage	DC30V	AC125V	
Working current range	0.1 to 1A	0.1 to 1A	

Wiring drawing

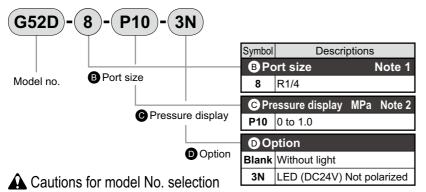
○ Without light



⊖ With light, LED

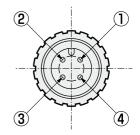


How to order



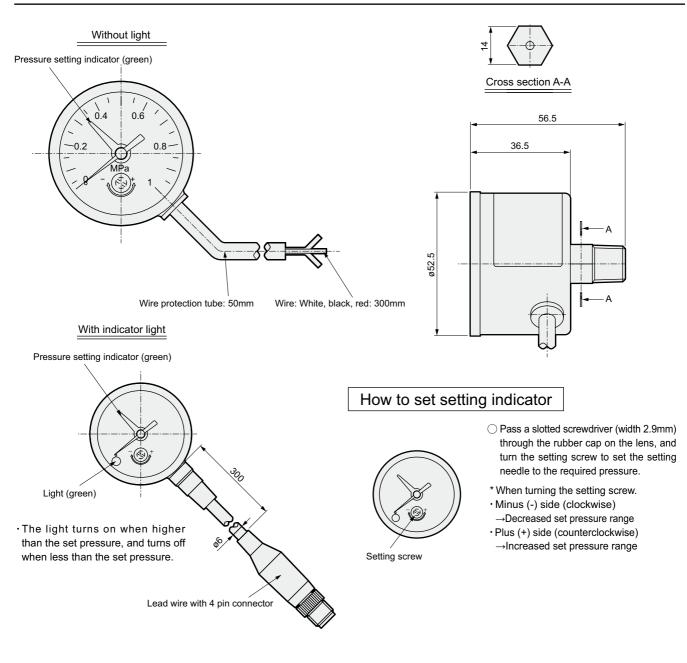
Note 1: Consult with CKD when ordering NPT thread. Note 2: Consult with CKD for indications other than MPa.

Terminal layout of male connector





Dimensions



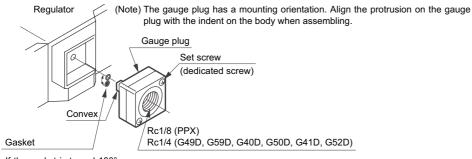
A Safety precautions

- Do not apply impact or vibration directly to the product.
- Repeated and sudden increase and decrease in pressure and pressure pulsation must be avoided because it could adversely affect the life of the pressure gauge. Ease the pressure fluctuation in the circuit.
- The pressure switch uses disable operation if set pressure cannot be reached. Set the pressure switch value so that the setting indicator turns clockwise. If the setting indicator passes the setting position, turn the setting indicator counterclockwise once, then reset.
- Set the setting with a difference of 0.1 MPa or more from the working pressure (including pressure drop). Malfunctions could result if the difference is small. Refer to the drawings above for details on setting the setting needle. When using the pressure switch in the normal open state, the switch may not turn on when the pressure drops unless a pressure, to which the set indication error (± 0.05 MPa), hysteresis (0.07 MPa), and indicated accuracy (± 3%F/S) have been added, has been applied.
- Add the pressure gauge's indication accuracy to the maximum value of the setting indicator and indicator's error (set indicator error).
- When the DC light is used, the internal voltage drop is to be 4 V or less and load current 8 to 30 mA at 24 VDC.
- Wire the lead so that the repeated bending strain and tensile strength are not applied to the wire. Otherwise, braking faults may occur.

Pressure Gauge Series

Gauge Plug Assembly (gauge plug, gasket, set screw assembly)

Use when mounting the pressure gauge.



If the gasket is turned 180° as shown in the drawing, regulator pressure flows to the pressure gauge.

- * Tighten the pressure gauge with a torque of 10 to 15N·m.
- * This can also be used to measure the pressure inside the regulator externally.

* Contact CKD for NPT or G thread.

Gauge plug assembly model no.	Applicable model	Applicable pressure gauge	
R1000-W-G-PLUG	1000-W Series	G49D, G59D, G40D, G50D, G41D, G52D	
R1000-W-T6-PLUG		РРХ	
R3000-W-G-PLUG	2000-W, 3000-W, 4000-W,	G49D, G59D, G40D, G50D, G41D, G52D	
R3000-W-T6-PLUG	6000-W, 8000-W	РРХ	



Compact mechanical pressure switch

APS-W Series

· General purpose discrete specifications (APS)

JIS symbol



Specifications

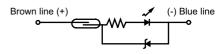
Descriptions	APS-W	
Working fluid	Compressed air	
Max. working pressure MPa	1.0	
Set pressure range MPa	0.1 to 0.6	
Hysteresis MPa	0.08 or less	
Repeatability MPa	±0.02 or less	
Contact configuration	1a Note 1	
Wiring	Lead wire 1m (oil resistant vinyl cabtire cable 2-conductor 0.2 mm ²)	
Ambient temperature and fluid temperature	5 to 60°C	
Protective structure Note 2	IP 65 equivalent	

Note 1: The contact turns on if air pressure exceeding the scale setting pressure is applied.

Note 2: However mounting direction must be vertical. When water entrains into the bleed port from bottom, connect an optional joint, and extend the tube until water does not entrain. This port can not be used outdoors.

Electric component section specification					
Load voltage	DC12/24V AC100V				
Load voltage	5 to 50mA 7 to 20mA				
Internal voltage drop	3V or less				
Light	LED (ON lighting)				
Maximum shock resistance	294m/S ²				
Insulation resistance	$20M\Omega$ and over at 500 VDC megger				
Withstanding voltage	No abnormality after application of AC1000V for 1 minute.				

Internal circuit diagram



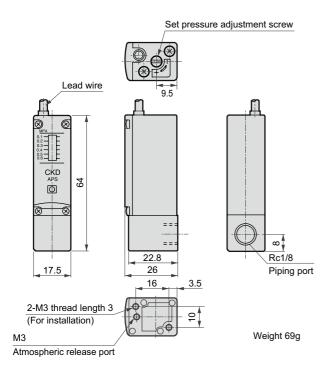
How to order

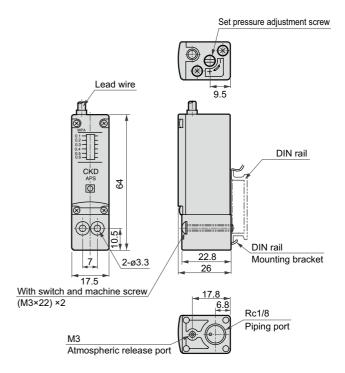
APS -	6D 3 - W - 2	2				
	(White type)		Symbol	Descriptions		
 		, port size, scale direction	A Piping port position, port size, scale direction			
Model	A Piping port position,		6B	Rear Rc1/8, vertical	Note 1	
			6D	Bottom Rc1/8, vertical		
			6F	Bottom flange, vertical		
			6L	Both sides Rc1/8, vertical	Note 1	
			6Y	Rear slange, side		
			BLead wire length			
	B Lead wire length	Blank	1m			
			3	3m		
			5	5m		
			COption			
	© Option		Blank	None		
			1	DIN rail bracket attached (6D) only		
			2	Nipple attached (6D) only		
			4	Fitting for atmospheric release port attached (elbow for M3)	
	for LiB production	(Catalog No.CC-947A)	Note 1: When ins	talling on the bottom, be careful not to block the ble	ed port.	
 Specification for 	r LiB manufacturing proces	55				



APS-6B-W

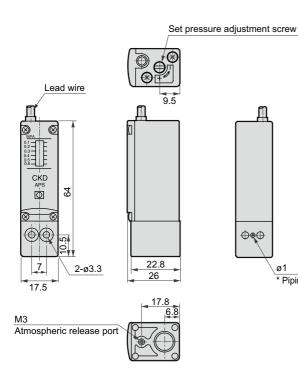
● APS-6D-W



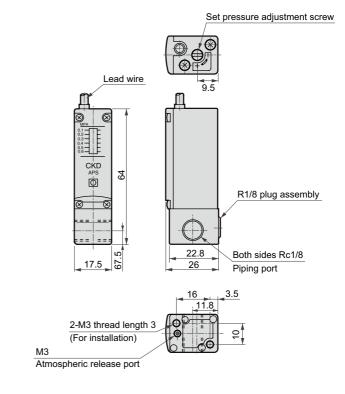


Note: When installing on the bottom, be careful not to block the bleed port.

APS-6F-W



 $\oplus \odot \oplus$ ø1 * Piping port APS-6L-W



* CAUTION: The I.D. of the sealing O ring is ø1.2. Drill a ø1 or less pressure outlet hole on the mounting face.

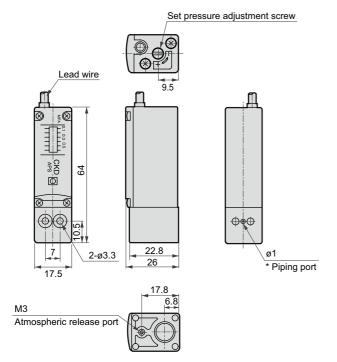
CKD

Note: When installing on the bottom, be careful not to block the bleed port.

Dimensions



APS-6Y-W



* CAUTION: The I.D. of the sealing O ring is ø1.2. Drill a ø1 or less pressure outlet hole on the mounting face.





Automatic drain

DT3000-W/DT4000-W Series

Lightweight, compact automatic drain discharger. applicable compressor: 0.75kW to 75kW.



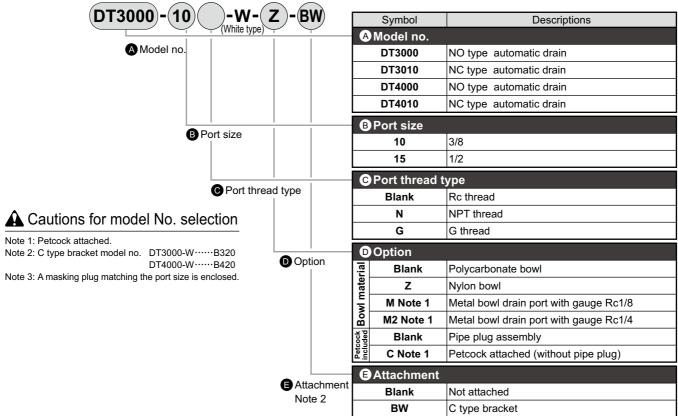


Specifications

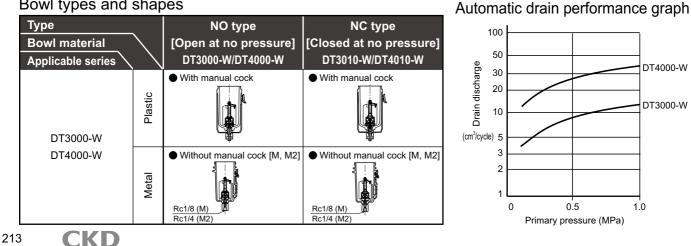
Descriptions		DT3000-W	DT4000-W	DT3010-W	DT4010-W		
Туре		Normally open (Note 1)		Normally closed			
Working fluid		Drain withing compressed air (water or oil)					
Withstanding pressure MPa		1.5					
Working pressure range MPa		0.1 to 1		0.15 to 1			
Ambient temperature range °C		5 to 60					
Port size Rc, N	PT, G	3/8, 1/2					
Drain port		Barbed nipple (ø5.7 to ø6 dia. Soft nylon tube can be directly connected.)					
Product weight	kg	0.3	0.45	0.3	0.45		

Note 1: If the working compressor is less than 0.75 kW (discharge flow 0.09 m³/min), select the normal close type.

How to order



Bowl types and shapes

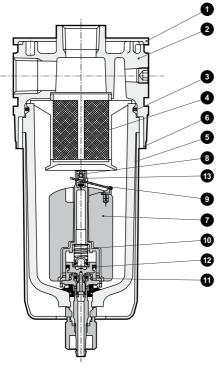


DT3000-W / DT4000-W Series

Internal structure and parts list

Internal structure and parts list

NO type (open at no pressure) DT3000-W/DT4000-W

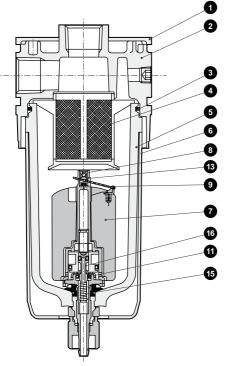


When pressure is not applied in the bowl, valve \mathbf{O} is pressed down by spring \mathbf{O} , and is separated from stem packing \mathbf{O} . When a pressure of 0.1 MPa or more is applied to the bowl, pressure on valve 12 increases to more than the force of spring \mathbf{O} , valve \mathbf{O} is pressed up and is sealed by the stem packing \mathbf{O} .

When drainage accumulates in the bowl, float $\boldsymbol{0}$ rises, and orifice spring $\boldsymbol{0}$ is pressed up by float level arm $\boldsymbol{9}$.

Orifice seat assembly ③ opens with a snap action of the orifice spring ④, and compressed air is led into the upper chamber of valve ④ to pressurize it. When valve ④ is pressed downward and separated from the stem packing ①, drainage is released into the atmosphere. Once released, the float ④ drops and orifice seat assembly ④ is closed by float level arm ④ and the compressed air pressurizing the upper chamber of valve ④ is released into the atmosphere through valve ④ orifice. The pressure applied to valve ④ from the bottom exceeds the force of spring ①, causing valve ④ to rise and be sealed by stem packing ①.

NC type (closed at no pressure) DT3010-W/DT4010-W



When pressure is not applied to the bowl, valve 0 is pressed up by spring 0 and sealed by stem packing 0.

When a pressure of 0.15 MPa or more is applied to the bowl and drainage accumulates, float **()** rises and orifice spring **()** is pressed up by float level arm **()**.

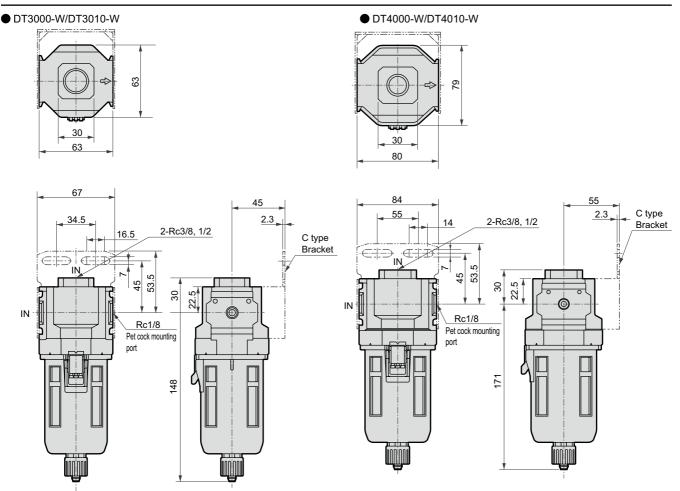
Orifice seat assembly (3) opens with a snap action of the orifice spring (3), and compressed air is led into the upper chamber of valve (5) to pressurize it. When valve (5) is pressed downward and separated from stem packing (1), drainage is released into the atmosphere.

Once released, float **?** lowers and orifice seat assembly **3** is closed by float level arm **9**, and the compressed air pressurizing the upper chamber of valve **1** is released into the atmosphere through the valve **1** orifice. Valve **1** is pressed up by the force of spring **1** from below, and is sealed by stem packing **1**.

No.	Part name:	Material	Model no.				
NU.	Fait name.		DT3000-W	DT3010-W	DT4000-W	DT4010-W	
1	Plate cover	ABS resin	-	-	-	-	
2	Body	Aluminum alloy die-casting	-	-	-	-	
3	O-ring	Special nitrile rubber	F3000-ORING	F3000-ORING	F4000-ORING	F4000-ORING	
4	Screen	Polyacetal resin, polyester	DT3000-SCREEN	DT3000-SCREEN	DT4000-SCREEN	DT4000-SCREEN	
5	Bowl assembly (including O ring)	-	DT3000-W-BOWL	DT3010-W-BOWL	DT4000-W-BOWL	DT4010-W-BOWL	
6	Bowl guard	Polyamide resin, steel	DT3000-W-BOWL-GUARD	DT3000-W-BOWL-GUARD	DT4000-W-BOWL-GUARD	DT4000-W-BOWL-GUARD	

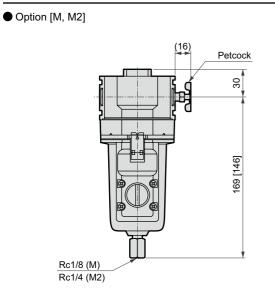
DT3000-W / DT4000-W Series

Dimensions



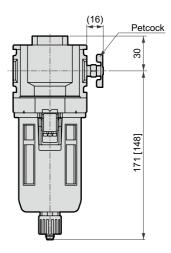
Note: A ø5.7 to ø6 bore size soft nylon tube is directly connected to the drainage discharge port. Note: Provide a space of 60 mm or more under the bowl for maintenance.

Metal bowl specification



Petcock specification

Option [C]



CKD



MEMO