



F.R. combination C1020/C2020/C2520 C3020/C4020/C6020/C8020-W-FP1 Series

Integrated filter and regulator





cylinders Specifications

Electric actuator

²neumatic

FP1

	ē ≔	opoom	outionio							
ľ	Pne	Item		C1020-W	C2020-W	C2520-W	C3020-W	C4020-W	C6020-W	C8020-W
	Assistive device	Appearan	ce							
	Pneumatic valves			TT	Ţ	F.	Ųť	ŲĐ	P	
	nents nent	System	Filter	F1000-W	F2000-W	F3000-W	F3000-W	F4000-W	F6000-W	F8000-W
	ompor	components	Regulator	R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
	F.R.L/Auxiliary Components Electronic Component	Working fl					Compressed air			
	/Auxi	Max. workir	ng pressure MPa				1.0 *2			
	Elec Elec	Proof pres	<u> </u>				1.5			·
	ş	Ambient/fluid	d temperatures °C				5 to 60			*1
	ner	Degree of	filtration µm				5			
	Vacuum components	Set pressu	ure MPa	0.05 to 0.85 *2			0.05 te	o 0.85		
	> uo	Pressure i	relief			Wi	th relief mechani	sm		
-		Drain capa	acity cm ³	12	25	45	45	80	80	80 (*3)
	e	Port size	Rc *7	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
	ner			(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)
	Main line components	Weight	kg	0.28	0.64	0.65	0.79	1.25	2.07	2.93
	≥ ວິ		accessories				gauge, bracket, b	owi guard		
┢	Fluid control valves	*2: When u max. w flow rat *3: The max *4: In the ca *5: In the ca *6: C2020-	using C1020 So vorking flow rate te. Set the work a capacity of the r se of "F" with aut se of "F1" with au W Series with	eries "F1" with a e table (Pneuma king flow rate to le manual drain cock i o-drain, the min. w uto-drain, the min. v "F1" (with auto-	tic, Vacuum, and ess than or equal s 170cm ³ . orking pressure of a vorking pressure of	n. working press Auxiliary Compo- to the max. work auto-drain is 0.1MP- auto-drain is 0.15M used at equal to	ure is 0.2MPa ar onents (CB-024S king flow rate. a. Air is purged with IPa. or less than the	A)) for F1000-F initial drainage un max. working t	1 auto-drain for t	IPa. Refer to the he max. working 0.1 MPa. to the F2000-W
:	Main line components	*7: NPT and Option	i G threads can b weight	e manufactured wit	h CKD Sales.	5 (OD-0240A)) IO	THAL IOW FALE,			Unit:kg

Option weight

* Add to the weight of the standard accessories. Unit:kg Code Drain discharge Bowl material Pressure gauge Pipe adaptor set														Unit:kg
	Cada	Drain di	scharge	Bowl m	naterial	Pressur	e gauge			Pipe	adaptor	' set		
	Joue	F	F1	М	M1	T *	RN/RP	A6W	A8W	A10W	A15W	A20W	A25W	A32W
<u> </u>	C1020		0.007			0	0.04	0.09	0.09	0.09				
P	C2020		0.02		0.1	0	0.04		0.16	0.16	0.16			
	C2520		0.02	0.1	0.1	0	0.04		0.16	0.16	0.16			
	C3020	0.02	0.02	0.1	0.1	0	0.04		0.16	0.16	0.16			
	C4020	0.02	0.02	0.1	0.1	0	0.04		0.16	0.16	0.16	0.16		
2 C	C6020	0.02	0.02	0.1	0.1	0	0.04					0.53	0.53	0.53
	C8020	0.02	0.02	0.1	0.1	0	0.04					0.53	0.53	0.53

Code			Pressur	e gauge		
Code	G45P	G49P	G59P	G40P	G52P	R2
C1020	0.074	0.086	0.115	0.085	0.15	0.04
C2020	0.074	0.086		0.085	0.15	0.04
C2520	0.074	0.086	0.115	0.085	0.15	0.04
C3020	0.074	0.086	0.115	0.085	0.15	0.04
C4020	0.074	0.086	0.115	0.085	0.15	0.04
C6020	0.074	0.086	0.115	0.085	0.15	0.04
C8020	0.074	0.086	0.115	0.085	0.15	0.04

CKD

bacteria-removing filter Anti-bacterial/

components Vacuum

Fluid control valves

F P 2

F.R Combination How to order

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How to order C1020 - 6 - W - L - FP1 - A6W Pressure gauge (included)	ge option	Auxiliar options.		C1020	C2020	C2520 👿		C4020	C6020	C8020	Electric actuator	
		ode	Description									
BPort size		rt size									Pneumatic cylinders	
		6	Rc1/8								inde	
		8	Rc1/4		•		•				atic	
		0	Rc3/8		•		•					
		15	Rc1/2								Ass	
		20	Rc3/4					*1	•		istiv	
	2	25	Rc1								e d	
	C Op	tion								*2	Assistive device	
• Option	Drain	Blank	Filter with manual drain cock		٠		\bullet	ullet	•	\bullet	ŏ	
	discharge	F	Filter/auto-drain with manual override (NO: Exhaust when not pressurized)				ullet	ullet		ullet	P	
	*3	F1	Filter/auto-drain with manual override (NC: No exhaust when not pressurized)		\bullet	ullet	ullet	ullet	ullet	\bullet	Pneumatic valves	
		Blank	Polycarbonate bowl								ves	
	Bowl	Z	Nylon bowl						•		lic	п
	material	М	Metal bowl								ᄪᇑ	P
		M1	Metal bowl with manual drain cock					\bullet	•		R.L./Au lectro	_
	Element	Blank	5 μm								jxiliary nic Q	
	Differential	Blank	Without differential pressure detection port	•				\bullet			F.R.L./Auxiliary Components Electronic Component	
	pressure detection	Q	With differential pressure detection port (Rc1/4)						•		bonen	
	Pressure	Blank	0.05 to 0.85 MPa						•			
	Range	L	0.05 to 0.35 MPa *4		•				•		cor <	
	Pressure	Blank	With relief mechanism						•		Vacuum omponer	
	relief	N	Non-relief						•		Vacuum components	
		Blank	With standard pressure gage (G401-W)						•		ts	
	Pressure	Т	No pressure gauge (gauge port (1/4) is assembled sealed)		•				•			
	gauge	T8	Pressure gauge ready (gauge port (1/4) is left open)								con Ma	
		T6	Digital pressure sensor PPX attachment option*5		•						Main line components	
	Flow	Blank	Standard flow (left \rightarrow right)		•						nent	
	direction	X1	IN/OUT reverse flow (right to left)		•	•					^S	
					-	- 10	-01	2.01	240			
Pipe adaptor se	et			6 R	ere	l to		3-02	240		Fluid control valves	
(attachments)		ank sw	Not included Rc1/8 pipe adaptor set	•			•		-		d co	
		6W									ntro	
		BW	Rc1/4 pipe adaptor set								_	
		0W	Rc3/8 pipe adaptor set								Q	
		5W	Rc1/2 pipe adaptor set		•		•				Main line components	
•		OW	Rc3/4 pipe adaptor set								Main line omponen	
Precautions for model No. selection		25W	Rc1 pipe adapter set								ne ents	
*1: Pipe adapters (A400-20-W) are assembled on both ends of		2W	Rc1 1/4 pipe adapter set						-			
the C4020-20-W model. "A20W" does not need to be	_		gauge option (attachment)	R	efe	r to	CE	3-02	248	A	Anti-bacterial/ bacteria-removing filter	
selected for the pipe adapter set. *2: Select options for the drainage, bowl material, element,		ank	Not included	•	•		•		•		Anti-bacterial eria-removing	
differential pressure detection and regulator. When selecting		45P	G45D-8-P10 (L: G45D-8-P04)	•	•				•		novi	
options for several items, list options in order from the top. *3: Refer to (Pneumatic, Vacuum, and Auxiliary		49P	G49D-8-P10(L:G49D-8-P04)	•	•				•		lal/ ng filt	-
Components (CB-024SA)) for the auto-drain use	G5	59P	G59D-8-P10(L:G59D-8-P04)	•			•		•		ter	FΡ
conditions.	G4	40P	G40D-8-P10(L:G40D-8-P04)	•	ullet		•		•		8	Ν
*4: The pressure gauge's indication range is 0 to 0.4MPa for option "L".	G5	52P	G52D-8-P10(L:G52D-8-P10)	•	ullet		•	ullet	•		Mac	
*5: When option "T6" is selected, only "Blank" or "R2" can be	R2	2 *5	Digital pressure sensor: PPX-R10N-6M		•		\bullet	\bullet	•		Vacuum components	
selected for () pressure gage (included). The digital pressure sensor PPX mounting port (Rc1/8) is assembled open.											nts	

*6: The joiner set is attached with the pipe adapter set.

For dimensions, refer to the F.R. combination in "Pneumatic, Vacuum and Auxiliary components (CB-024SA)".

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Fluid control valves



Catalog No. CB-024SA

NSF H1 F.M.R. combination C1030/C2030/C2530 C3030/C4030/C6030/C8030-W-FP1 Series

Integrated filter, oil mist filter and regulator Port size: Rc1/8 to Rc1

JIS symbol \wedge <u>.</u>



Specifications

Electric actuator

FP1

Fluid control

Main line

Anti-bacterial/

Vacuum

FP2

valves

Pneumatic cylinders	Specifications							
	Item	C1030-W	C2030-W	C2530-W	C3030-W	C4030-W	C6030-W	C8030-W
Assistive device	Appearance				E.P.	f.h		
Pneumatic valves		<u>Ö</u> Ün	ŲŲ.	ÅÅ.	ŲŲ "	ŲŲ •	ÛÛ	Ψ ij
<i>6</i> 1	윭 Filter	F1000-W	F2000-W	F3000-W	F3000-W	F4000-W	F6000-W	F8000-W
onent	ଞ୍ଚୁ ତା mist filter	M1000-W	M2000-W	M3000-W	M3000-W	M4000-W	M6000-W	M8000-W
Somp	Filter Oil mist filter	R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
liary (Working fluid				Compressed air			
/Auxi tron	Max. working pressure MF	a			1.0 *3			
F.R.L/Auxiliary Components Electronic Component	Proof pressure MPa				1.5			
s S	Ambient/fluid temperatures °C				5 to 60			*2
Vacuum	Set pressure MPa	0.05 to 0.85 *3			0.05 t	o 0.85		
npc	Pressure relief			W	th relief mechani	sm		
CO C	Port size Rc ³	7 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)	(11/4uses an adaptor)
ts		g 0.40	0.98	1.02	1.10	1.86	3.19	4.45
Main line components	Secondary oil concentration (Oil mist filter outlet side)		0.01mg/m	³ Less than or ed	qual to (0.1mg/m	after oil saturatio	on ³ or less)	
Mai	Max. flow rate (*1) m ³ /m	in 0.15	0.25	0.36	0.36	0.825	1.27	2.6
- 2	*1:The max. flow is for a			PPY attached "P	P is 5 to 50°C			

*2: The ambient/fluid temperature of the digital pressure sensor with PPX attached "R2" is 5 to 50°C.

*3: When using C1030-W Series "F1" with auto-drain, the NC auto-drain is provided with both the filter and oil mist filter. Min. working pressure is 0.2MPa and max. working pressure is 0.7MPa. Refer to the max. working flow rate table (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for M1000-W-F1 auto-drain for the max. working flow rate.

*4: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for details on other oil mist filters.

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

*6: When "F1" with an auto-drain is selected, the filter, oil mist filter, and NC auto-drain are assembled, but the supply air pressure must be 0.15 MPa and over. *7: NPT and G threads can be manufactured with CKD Sales.

Option weight

ents	*7: NPT and (G threads ca	an be manu	factured wit	th CKD Sale	es.								
components	Option N * Add to the	•	the standa	ard access	ories.									Unit:kg
	Carla	Drain di	scharge	Bowl n	naterial	Pressur	e gauge			Pip	e adaptor	set		
Anti-bacterial/ bacteria-removing filter	Code	F	F1	М	M1	T*	RN/RP	A6W	A8W	A10W	A15W	A20W	A25W	A32W
Anti-bacterial/ eria-removing	C1030		0.014			0	0.04	0.09	0.09	0.09				
	C2030		0.04		0.2	0	0.04		0.16	0.16	0.16			
ia-re	C2530		0.04	0.2	0.2	0	0.04		0.16	0.16	0.16			
A	C3030	0.04	0.04	0.2	0.2	0	0.04		0.16	0.16	0.16			
q	C4030	0.04	0.04	0.2	0.2	0	0.04		0.16	0.16	0.16	0.16		
ß	C6030	0.04	0.04	0.2	0.2	0	0.04					0.53	0.53	0.53
unum	C8030	0.04	0.04	0.2	0.2	0	0.04					0.53	0.53	0.53
vacuum components	Code			Pressur	e gauge									
202		G45P	G49P	G59P	G40P	G52P	R2							

Code			Pressur	e gauge		
Code	G45P	G49P	G59P	G40P	G52P	R2
C1030	0.074	0.086	0.115	0.085	0.15	0.04
C2030	0.074	0.086		0.085	0.15	0.04
C2530	0.074	0.086	0.115	0.085	0.15	0.04
C3030	0.074	0.086	0.115	0.085	0.15	0.04
C4030	0.074	0.086	0.115	0.085	0.15	0.04
C6030	0.074	0.086	0.115	0.085	0.15	0.04
C8030	0.074	0.086	0.115	0.085	0.15	0.04

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F.M.R Combination

How to order

							HC	SW	to (orc	ler				
How to order C1030 - 6 - W - L - FP1 - A6 Model No.	Pressure gauge (included)	option	Auxiliary options.		C1030		C2530 👿	900 C3030 C3030	C4030		C8030	Electric actuator			
	, ,	Co		Description								o P			
B Port size	<u> </u>	B Por	t size									Pneumatic cylinders			
UT OIT SIZE			6	Rc1/8	\bullet							Imat			
		8	3	Rc1/4	\bullet		\bullet	\bullet				s			
		1	0	Rc3/8			\bullet	\bullet	\bullet			⊳			
		1	5	Rc1/2								SSis			
		2	0	Rc3/4					•1	\bullet		stive			
		2	5	Rc1								de			
		C Opt	tion							1	*2	Assistive device			
© Option		Drain	Blank	With manual drain cock											
		discharge	F	Auto-drain with manual override (NO: Exhaust when not pressurized)			\bullet					Pn			
		*3, *4	F1	Auto-drain with manual override (NC: No exhaust when not pressurized)			\bullet			•		Pneumatic valves			
			Blank	Polycarbonate bowl			\bullet	\bullet				nati es			
		Bowl Z Nylon bowl material M Metal bowl										C	т		
			F	-		•	•			EIe	P 1				
			M1	Metal bowl with manual drain cock				•	•			L./Aux			
		Element Blank 5 µm	5 um				•	•			iliary (lic Co				
		Differential		Without differential pressure detection port	-	•						Compo			
		pressure	Q	With differential pressure detection port (Rc1/4)			-	-	-			F.R.L./Auxiliary Components Electronic Component			
				0.05 to 0.85 MPa											
		pressure detection										Vacuum components			
		Pressure									Vacuum omponer				
		relief	N	Non-relief								Im			
			Blank	With standard pressure gage (G401-W)								0			
	F	Pressure	T	No pressure gauge (gauge port (1/4) is assembled sealed)								0			
		gauge	T8	Pressure gauge ready (gauge port (1/4) is left open)								Ma			
		_		32.30	T6	Digital pressure sensor PPX attachment option *6	-							Main line components	
			Flow	Blank	Standard flow (left \rightarrow right)								ne ents		
		Direction	X1	Reverse flow (right \rightarrow left)											
				(3)		- (-						끄			
Ē	Pipe adaptor set				b R	ere	r to		3-02	245	A	Fluid contro valves			
-	(attachments)		ank	Not included		•	-	•	•	-	-	con			
			W	Rc1/8 pipe adaptor set								trol			
A Precautions for model No. selec	ction	A8		Rc1/4 pipe adaptor set				-	-	\rightarrow	_				
*1: Pipe adapters (A400-20-W) are assembled on bo	th ends of		0W	Rc3/8 pipe adaptor set	-			-		\rightarrow	_	cor N			
the C4030-20-W model. "A20W" does not ne			5W	Rc1/2 pipe adaptor set	-	-		-	•			npc			
selected for the pipe adapter set.	alamant		OW	Rc3/4 pipe adaptor set					•			Main line components			
*2: Select options for the drainage, bowl material differential pressure detection and regulator. When			5W 2W	Rc1 pipe adaptor set Rc1 1/4 pipe adaptor set	-							ts			
options for several items, list options in order from					_					\equiv		bac			
*3: Refer to (Pneumatic, Vacuum, and Auxiliary Co (CB-024SA)) for the auto-drain use conditions.	mponents			gauge option (attachment)	R	efe	r to	CE	3-02	24S	A	Anti-bacterial/ bacteria-removing filter			
*4: When option code "F" is selected, the NO aut			ank	Not included		•			•			Anti-bacterial. eria-removing			
attached for the air filter and the NC auto-drain is a the oil mist filter. For "FF" and "FF1", only the filter I		G4		G45D-8-P10 (L: G45D-8-P04)								erial/			
discharge rate. The oil mist filter is normal NC auto-	•	G4	9P	G49D-8-P10(L:G49D-8-P04)		•		•				filter	F		
*5: The pressure gauge's indication range is 0 to 0	.4MPa for	G5	9P	G59D-8-P10(L:G59D-8-P04)				•	•			0	P 2		
option "L". *6: When option "T6" is selected, only ", Blank" or "F	R2" can be	G40	0P	G40D-8-P10(L:G40D-8-P04)		•		•				imo:			
selected for () Pressure gage (attachment). The digit	al pressure	G5		G52D-8-P10(L:G52D-8-P10)		•		•				Vacuum components			
sensor PPX mounting port (Rc1/8) is assembled ope *7: The joiner set is attached with the pipe adapter set		R2	*6	Digital pressure sensor: PPX-R10N-6M								Im			
. The joiner set is allached with the pipe adapter set												S			
												П			
												Fluid control valves			
												iid con valves			
For dimensions, refer to the F.M.R co	mbination in	"Pneu	matic	Vacuum and Auxiliary compor	nen	nts (CF	3-01	24.9	۶A۱	"	1trol	ľ		
				tasaan ana raxiiary oompor				. 01	0		•				

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Pneumatic, Vacuum and Auxiliary Components Catalog No. CB-024SA

W.M. combination Standard White Series



C1040/C2040/C3040/C4040/C8040-W-FP1 Series

Filter/regulator and oil mist filter integrated.

Port size: Rc1/8 to Rc1





Unit:kg

A32*W

0.53

A25*W

0.53

Specifications

Electric actuator

FP1

Fluid contro valves

Fluid control valves

FP2

Pneumatic cylinders	Spe Item	cifications	C1040-W	C2040-W	C3040-W	C4040-W	C8040-W
Assistive device				ST-FO			
Pneumatic valves	Appe	arance					TP Inte
F.R.L/Auxilary Components Electronic Component	stilla stilla Workfring	Filter regulator	W1000-W	W2000-W	W3000-W	W4000-W	W8000-W
F.R.L./ Elect	System	Oil mist filter	M1000-W	M2000-W	M3000-W	M4000-W	M8000-W
					Compressed air		
Vacuum components	Max. v	working pressure MPa			1.0 *3		
bon	Proof	pressure MPa			1.5		
l≫ moi	Ambie	nt/fluid temperatures °C		1	5 to 60		*2
	· ·	ressure MPa	0.1 to 0.85 *3		0.1 to 0.8	35 *5, *6	
ts		sure relief		1	With relief mechanism		
line	Port s	size Ro	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 1/4uses an adaptor)
Main line components	Weigl		1	0.74	0.97	1.52	3.52
S no	Secon	idary oil concentration		0.01mg/m ³ Less than o	r equal to (0.1mg/m afte	er oil saturation ³ or less)	
\vdash	Max. f	flow rate (*1) m ³ /min	0.15	0.25	0.36	0.825	2.6
5	*1: Ma	ax. flow rate is for th	ne regulator set pressure	e 0.7MPa.			

*1: Max. flow rate is for the regulator set pressure 0.7MPa. *2: The ambient/fluid temperatures for "RN""RP" (pressure switch with display PPR is mounted) and "R2" (digital pressure sensor PPX is attached) are 5 to 50°C.

*3: When using C1040-W Series "F1" with auto-drain, the min. working pressure is 0.2MPa and max. working pressure is 0.7MPa. Refer to the max. working flow rate table (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for F1000-W-F1 auto-drain for the max. *4: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for details on other oil mist filters.

*5: In the case of "F" with auto-drain, the supply air pressure is 0.2 MPa or more. The minimum set pressure is 0.15 MPa. The supply air pressure of the auto-drain of the filter regulator is 0.1 MPa. Air is purged with initial drain until pressure reaches 0.1 MPa.

Option weight

CKD

	line nents	*6: In the o	0				air pressure					ressure is	0.15 MPa	I.					
	Main line components	Option * Add to t			tandard a	accessor	ies.												
	ilter	Code Drain discharge Bowl material Pressure gauge												adapto	r set				
	Anti-bacterial/ bacteria-removing filter	Code	F	F 1	FF	FF1	М	M1	T *	RN/RP	A6*W	A8*W	A10*W	A15*W	A20*W	ŀ			
	Anti-bacterial/ eria-removing	C1040		0.014					0	0.04	0.09	0.09	0.09						
	Anti- eria-ı	C2040		0.04				0.2	0	0.04		0.16	0.16	0.16					
۱	bact	C3040	0.04	0.04			0.2	0.2	0	0.04		0.16	0.16	0.16					
:	s	C4040	0.04	0.04			0.2	0.2	0	0.04		0.16	0.16	0.16	0.16				
	Vacuum components	C8040	0.04	0.04	0.04	0.04	0.2	0.2	0	0.04					0.53				
	Vacuum mponen			1		^ 		~	· · ·	· ,			·		·`				
Code Assembled components Pressure gauge																			
	ö	Coue	e	D	V	K	C/5D	CIOP	C50D	CAOP	C52D	DO							

Code	Asse	mbled	compor	nents		I	Pressur	e gauge	9	
Code	S	Р	V	K	G45P	G49P	G59P	G40P	G52P	R2
C1040	0.15		0.18		0.074	0.086	0.115	0.085	0.15	0.04
C2040	0.23	0.54	0.29	0.34	0.074	0.086		0.085	0.15	0.04
C3040	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C4040	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C8040	0.51			0.34	0.074	0.086	0.115	0.085	0.15	0.04

W.M Combination lor

					Н	OW	to	orde	r
How to order (C1040)-6-W-F1-FP1-(A6W	Com		matic, Vacuum and Auxiliary (CB-024SA) for options. Description	C1040	C2040 Z	C3040	C4040 C8040	Electric actuator
A Model No.		B Po	rt size						
BPort size			6	Rc1/8					0 2
			8	Rc1/4					Pneumatic cylinders
		1	0	Rc3/8					der
		1	5	Rc1/2					
	Pressure gauge antian (attachment)	2	20	Rc3/4					
	option (attachment)	2	25	Rc1					ן sis
		C Op	tion					*	Assistive device
© Option			Blank	With manual drain cock				• •) dev
		Drain	F	Auto-drain with manual override (NO: Exhaust when not pressurized)			• •	2 ice
		discharge	F1	Auto-drain with manual override (NC: No exhaust when not pressurized	-				기 📃
		*3, *4	FF	Large auto-drain with manual override (NO: Exhaust when not pressurized	<i>'</i>				Pneumatic valves
			FF1	Large auto-drain with manual override (NC: No exhaust when not pressurized					i alve
			Blank	Polycarbonate bowl					i s atio
÷ ,	adaptor set	Bowl material	Z	Nylon bowl	┛				<u> </u>
(inclu	uded)	Indiendi	M M1	Metal bowl Metal bowl with manual drain cock					FR.L.
		Element	Blank	5 µm					Auxili
		Differential	Blank	Without differential pressure detection por					F.R.L./Auxiliary Components Electronic Component
		pressure detection	Q	With differential pressure detection port (Rc1/4	-				npone
		Pressure	Blank	0.1 to 0.85 MPa				• •	
		Range	L	0.1 to 0.35 MPa *5					5 8
		Pressure	Blank	With relief mechanism					Vacuum components
		relief	N	Non-relief				•	
			Blank	With standard pressure gage (G401-W) Its
		Pressure	Т	No pressure gauge (gauge port (1/4) is assembled sealed)			\bullet	• •)
		gauge	T8	Pressure gauge ready (gauge port (1/4) is left open)					기음≤
			T6	Digital pressure sensor PPX attachment option *6					<u>i po</u> ain
		Flow	Blank	Standard flow (left \rightarrow right)					Main line components
		Direction	X1	Reverse flow (right \rightarrow left)					
							-024	1SA *7	
A Precautions for model No	. selection		ank	Not included					Fluid control valves
1: C4040-20-W has pipe adapters (A400-20-W)	assembled on both		6W BW	Rc1/8 pipe adaptor set					
ends. "A20W" does not need to be selected for t			0W	Rc1/4 pipe adaptor set Rc3/8 pipe adaptor set					s ntro
*2: Select Items for the drainage, bowl material,			5W	Rc1/2 pipe adaptor set					
pressure detection and regulator. When se several items, list options in order from the top			0W	Rc3/4 pipe adaptor set	-			• •	
*3: Refer to (Pneumatic, Vacuum, and Auxi			5W	Rc1 pipe adapter set					
(CB-024SA)) for the auto-drain use cond *4: When option code "F" is selected, the NO au			2W	Rc1 1/4 pipe adapter set					Main line components
with the filter/regulator and the NC auto-drain	is included with the	B Pre	ssure (gauge option (attachment) Re	fer	to (:B-(024SA	nts
oil mist filter. When option code "F1" is sele drain is included with the filter/regulator oil mis			ank	Not included					
"FF1", only the filter/regulator has a large dis			ISP	G45D-8-P10 (L: G45D-8-P04)	Ī		•		Ar.
mist filter is normal NC auto-drain. *5: The pressure gauge's indication range is 0 to 0.	4MPa for option "I "		I9P	G49D-8-P10(L:G49D-8-P04)					a-ren
*6: When option "T6" is selected, only ", Blank" or "		G	59P	G59D-8-P10(L:G59D-8-P04)					novin
for () Pressure gage (attachment). The digital p		G4	IOP	G40D-8-P10(L:G40D-8-P04)					Anti-bacterial/ bacteria-removing filter
mounting port (Rc1/8) is assembled open. *7: The joiner set is attached with the pipe adapte	r set.	G	52P	G52D-8-P10(L:G52D-8-P10)		\bullet	ullet		
		R2	2 *6	Digital pressure sensor: PPX-R10N-6M					

For dimensions, refer to the W.M. combination in "Pneumatic, Vacuum and Auxiliary Components (CB-024SA)".

CKD

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FP2

Vacuum components

Fluid control valves

FP1



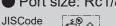
Pneumatic, Vacuum and Auxiliary Components Catalog No. CB-024SA

R.M. combination Standard White Series C1050/C2050/C2550

NSF H1

C3050/C4050/C6050/C8050-W-FP1 Series

Integrated regulator and oil mist filter Port size: Rc1/8 to Rc1





Unit:kg

Specifications

Electric actuator

FP1

Fluid control

Main line components

bacteria-removing filter Anti-bacterial/

components Vacuum

valves

valves

Pneumatic cylinders	· ·	cificatio	ons							
	Item			C1050-W	C2050-W	C2550-W	C3050-W	C4050-W	C6050-W	C8050-W
Assistive device	Арре	arance								
Pneumatic valves				٥Û		۹Ŵ	e û		ģ	Ų
<i>6</i> +	nents	Regulator		R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
F.R.L/Auxiliary Components Electronic Component	System compo	Regulator Oil mist filter		M1000-W	M2000-W	M3000-W	M3000-W	M4000-W	M6000-W	M8000-W
Comp		ing fluid					Compressed air			
ixiliary nic C	Max. v	working press	sure MPa				1.0 *3			
R.L./Au	Proof	pressure N	/IPa				1.5			
ΕŪ	Ambie	nt/fluid tempe	ratures °C				5 to 60		*2	
L L	Set p	ressure MF	Pa 🛛	0.1 to 0.85 *3			0.1 to (0.85 *4		
nun	Press	sure relief				Wi	th relief mechani	sm		
Vacuum components	Port s	size	Rc	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 1/4uses an adaptor)
	Weig	ht	kg	0.29	0.65	0.66	0.82	1.32	2.12	3.12
nts	Secor	ndary oil cond	centration		0.01mg/m	³ Less than or ec	ual to (0.1mg/m	after oil saturatio	on ³ or less)	
Main line omponent	Max.	flow rate (*1)	m ³ /min	0.15	0.25	0.36	0.36	0.825	1.27	2.6
Main line components				gulator set pressur ay PPR assembly '		uid temperature of	'RP" and "R2" with	digital pressure se	nsor PPX attached	is 5 to 50°C.

*3: When using C1040-W Series "F1" with auto-drain, the min. working pressure is 0.2MPa and max. working pressure is 0.7MPa. Refer to the max. working flow rate table (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for F1000-W-F1 auto-drain for the max. working flow rate. Set the working flow rate to less than or equal to the max. working flow rate. *4: The supply air pressure is 0.2 MPa and over with a min. set pressure of 0.15 MPa.

*5: In the case of "F1" with auto-drain, the supply air pressure is 0.2MPa or more. The minimum set pressure is 0.15 MPa.

Option weight

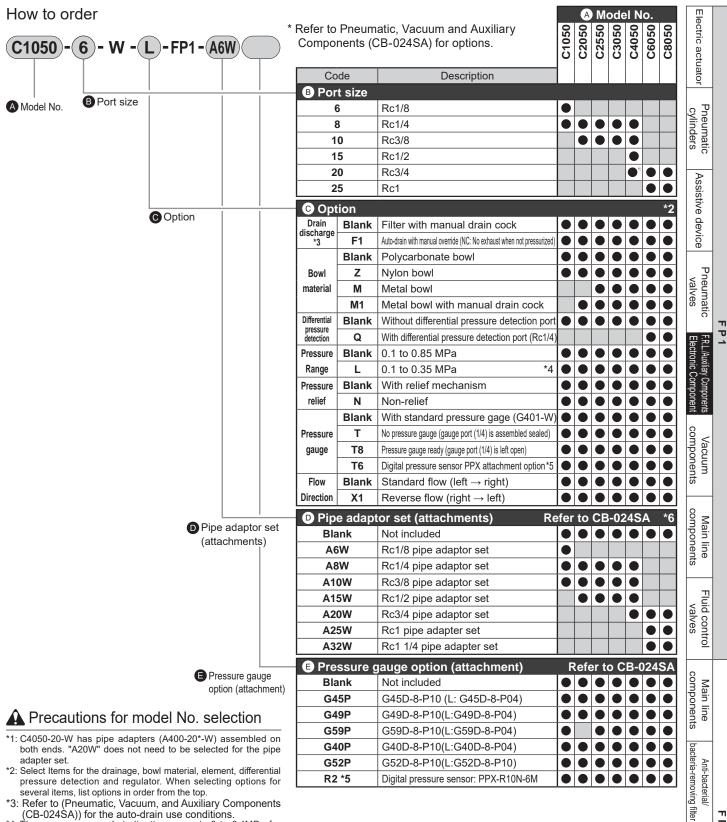
* Add to the weight of the standard accessories.

												onning
Code		Drain di	scharge		Bowl n	naterial	Pressur	e gauge		Pipe ada	aptor set	
Code	F	F1	FF	FF1	М	M1	T*	RN/RP	A6*W	A8*W	A10*W	A15*W
C1050		0.007					0	0.04	0.09	0.09	0.09	
C2050		0.02				0.1	0	0.04		0.16	0.16	0.16
C2550		0.02			0.1	0.1	0	0.04		0.16	0.16	0.16
C3050	0.02	0.02			0.1	0.1	0	0.04		0.16	0.16	0.16
C4050	0.02	0.02			0.1	0.1	0	0.04		0.16	0.16	0.16
C6050	0.02	0.02			0.1	0.1	0	0.04				
C8050	0.02	0.02	0.02	0.02	0.1	0.1	0	0.04				

Code	Pip	e adaptor	set	Pressure gauge								
Code	A20*W	A25*W	A32*W	G45P	G49P	G59P	G40P	G52P	R2			
C1020				0.074	0.086	0.115	0.085	0.15	0.04			
C2020				0.074	0.086		0.085	0.15	0.04			
C2520				0.074	0.086	0.115	0.085	0.15	0.04			
C3020				0.074	0.086	0.115	0.085	0.15	0.04			
C4020	0.16			0.074	0.086	0.115	0.085	0.15	0.04			
C6020	0.53	0.53	0.53	0.074	0.086	0.115	0.085	0.15	0.04			
C8020	0.53	0.53	0.53	0.074	0.086	0.115	0.085	0.15	0.04			

FP2

R.M Combination How to order



- several items, list options in order from the top. *3: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for the auto-drain use conditions.
- *4: The pressure gauge's indication range is 0 to 0.4MPa for option "L".
- *5: When option "T6" is selected, only ", Blank" or "R2" can be selected for () Pressure gage (attachment). The digital pressure sensor PPX mounting port (Rc1/8) is assembled open.
- *6: The joiner set is included with the pipe adapter set.

For dimensions, refer to the R.M. combination in "Pneumatic, Vacuum and Auxiliary Components (CB-024SA)".

СКД

Fluid control valves

components

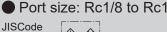
Vacuum

FP2



F.M. combination C1060/C2060/C3060/ C4060/C6060/C8060-W-FP1 Series

Filter and oil mist filter integrated.





NSF H1

CAD RoHS

Specifications

Electric actuator

FP1

components Main line

Fluid control

Main line components

valves

Pneumatic cylinders	Spe Item	cifications	C1060-W	C2060-W	C3060-W	C4060-W	C6060-W	C8060-W
Pneumatic Assistive device	Арре	arance						
t s	System components	Filter	F1000-W	F2000-W	F3000-W	F4000-W	F6000-W	F8000-W
F.R.L/Auxiliary Components Electronic Component	Systen compo	Oil mist filter	M1000-W	M2000-W	M3000-W	M4000-W	M6000-W	M8000-W
/ Com	Work	ing fluid			Compre	essed air		
uxiliary onic (Max. v	working pressure MPa			1.0	*2, 3, 4		
R.L./A	Proof	pressure MPa			1.5	5 *2		
	Ambie	nt/fluid temperatures °C		1	5 to	60	1	
ants	Port s	size Rc *6	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 1/4uses an adaptor)
Vacuum	Weigl	ht kg	0.22	0.58	0.62	1.06	2.02	2.68
Vacuum components		idary oil concentration		0.01mg/m ³ Les	s than or equal to (0).1mg/m after oil sat	uration ³ or less)	
ы С	Max. f	flow rate (*1) m ³ /min	0.15 *2	0.25	0.36	0.825	1.27	2.6

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

*2: When "F1" with auto-drain is selected, the NC auto-drain is provided with both the filter and oil mist filter. The min. working pressure is 0.2MPa, the max. working pressure is 0.7MPa and the proof pressure is 1.05MPa. For the max. working flow rate, refer to the max. working flow rate table of M1000-W-F1 with auto-drain (Pneumatic, Vacuum, and Auxiliary components (CB-024SA)). The working flow must be less than the max. working flow.

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

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

*5: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for details on other oil mist filters. *6: Contact CKD for the NPT and G threads.

Option weight

* Add to the w	eight of the	standard ac	cessories.								Unit:kg
Cada	Drain di	scharge	Bowl n	naterial			Pip	e adaptor	set		
Code	F	F1	М	M1	A6W	A8W	A10W	A15W	A20W	A25W	A32W
C1060		0.014			0.09	0.09	0.09				
C2060		0.04		0.2		0.16	0.16	0.16			
C3060	0.04	0.04	0.2	0.2		0.16	0.16	0.16			
C4060	0.04	0.04	0.2	0.2		0.16	0.16	0.16			
C6060	0.04	0.04	0.2	0.2					0.53	0.53	0.53
C8060	0.04	0.04	0.2	0.2					0.53	0.53	0.53

CKD

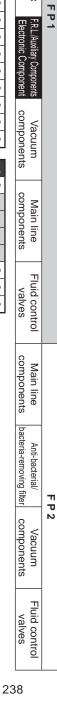
F.M Combination

How to order C1060 - 6 - W - Z - FP1 Model No.	- (A6W)			eumatic, Vacuum and Auxiliary ts (CB-024SA) for options.		C2060			OR C 6060	C8060	Electric actuator
		Co	ode	ContentVolume							ᆔ
B Port size		B Po	rt size							Cyllinders	Pneumatic
BPoit size			6	Rc1/8	\bullet						uma
			В	Rc1/4	\bullet	ullet		\bullet		<i>u</i>	; ti
	Pipe adaptor set (attachments)	1	0	Rc3/8							
	()	1	5	Rc1/2							ssis
		2	20	Rc3/4				*1			tive
		2	25	Rc1							Assistive device
C Option		С Ор	tion			_			k	2 –	lice
C .		Drain	Blank	With manual drain cock							₽
		discharge	F	Auto-drain with manual override (NO: Exhaust when not pressurized)							Pneumatic
		*3, *4	F1	Auto-drain with manual override (NC: No exhaust when not pressurized)						• k	mati
			Blank	Polycarbonate bowl							ō
		Bowl	Z	Nylon bowl	\bullet	ullet			\bullet		F.F.
		material	м	Metal bowl							L./Aux
			M1	Metal bowl with manual drain cock							iliary C
		Element	Blank	5 μm	\bullet		•				ompo
		Differential pressure	Blank	Without differential pressure detection port			•	\bullet			F.R.L./Auxiliary Components
		detection	Q	With differential pressure detection port (Rc1/4)							2
		Flow	Blank	Standard flow (left \rightarrow right)							, ⊲
		Direction	X1	Reverse flow (right \rightarrow left)							Vacuun

A Precautions for model No. selection

- *1: C4060-20-W has pipe adapters (A400-20-W) assembled on both ends. "A20W" does not need to be selected for the pipe adapter set.
- *2: Select Items for the drainage, bowl material, element and differential pressure detection. When selecting options for several items, list options in order from the top.
- *3: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for the auto-drain use conditions.
- *4: When option code "F" is selected, the NO auto-drain is supplied with the air filter and the NC auto-drain is supplied with the oil mist filter. When option code "F1" is selected, the NC auto-drain is included with the air filter and oil mist filter. For "FF" and "FF1", only the filter has a large discharge rate. The oil mist filter is normal NC auto-drain.
- *5: The joiner set is attached with the pipe adapter set.

Pipe adaptor set (attachments) *5 Refer to CB-024						SA	
Blank	Not included						
A6W	Rc1/8 pipe adaptor set						
A8W	Rc1/4 pipe adaptor set						
A10W	Rc3/8 pipe adaptor set						
A15W	Rc1/2 pipe adaptor set						
A20W	Rc3/4 pipe adaptor set						
A25W	Rc1 pipe adapter set						
A32W	Rc1 1/4 pipe adapter set						



For dimensions, refer to the F.M. combination in "Pneumatic, Vacuum and Auxiliary Components (CB-024SA)".