

Structure and material restriction

Filter/regulator W2000/W3000/W4000 Series

JIS symbol \$0!



SSD2 MDC2 SMG

LCM

LCR

R

SCPD3

SCM

i		Structure	Material restriction	Model No.
_	P7 Series	Exhaust treatment		– (P70)
_	F7 Selles	Exhaust treatment	Copper-based materials prohibited Silicon-based materials prohibited (fluorine, chlorine, bromine)	Custom order product

LCG Specifications

	Descriptions		W2000	W3000	W4000			
LCX	Working fluid			Compressed air				
STM	Max. working pressure	MPa	1.0					
01101	Proof pressure	MPa						
STG	Ambient temperature/fluid temperature °C		5 to 50					
	Filtration rating	μm	5	5 or	0.3			
STR2	Set pressure	MPa	0.05 to 0.85					
	Pressure relief		Nonrelief					
MRL2	Weight	kg	0.40	0.64	0.99			





How to order (custom order product)

How to order

How to order (custom order product)							SCPD3
W3000-8-0N-P74-B					lodel		SCM
Model No.				W2000	W3000	W4000	SSD2
		ode	Content				MDC2
B Port size		ort size					
		8	Rc1/4				SMG
		0	Rc3/8	-	•		
		5	Rc1/2				LCM
G Option	– © Op	otion '	1 *2 *3 *4		ļ,		LCR
		Blank	PC bowl: without drain discharge				
	Bowl	C6	PC bowl: drain discharge Rc1/8				LCG
		M6	Metal bowl: drain discharge Rc1/8				
	Element	Blank	5 μm		•	•	LCX
		Y	0.3 µm (submicron)				OTM
	Pressure		0.05 to 0.85 MPa				STM
	range	L	0.05 to 0.35 MPa				STG
	Pressure relief	N	Nonrelief				0.0
	Pressure	Т	Without pressure gauge (gauge port (Rc1/4) is assembled with sealed)	•	•		STR2
	gauge *9	Т8	For attaching pressure gauge (gauge port (Rc1/4) is assembled with ventilated)	•	•		MRL2
		Т6	For attaching pressure gauge (gauge port (Rc1/8) is assembled with ventilated)				GRC
	Flow	Blank	Standard flow (left \rightarrow right)				
	direction	X1	Reverse flow (right \rightarrow left)				Cylinder Switch
	D Clean room specifications						MN3E
Clean room		Structu					MN4E
specifications	P74	Exhaus treatmer					4GA/B
	🕒 🕒 Ot	her att	achments *5 *6				M4GA/B
Other attachments	Bla	ank	Without attachment				
A Precautions for model No. selection	A	8	Rc1/4 piping adaptor set				MN4GA/B
*1: Select options per drainage, bowl material, and element	A	10	Rc3/8 piping adaptor set				F.R.(module
sections. When selecting options for several items, list	A	15	Rc1/2 piping adaptor set				unit)
options in order from the top. Be sure to select "N"	A	20	Rc3/4 piping adaptor set				Clean
non-pressure relief. *2: If "L" is selected for pressure range, a low pressure	1	В	C bracket				F.R
gauge (0 to 0.4 MPa) is used.	E	33	L bracket				Precision
*3: For "T", "T8", "T6", a gauge plug is assembled instead	E	1	Fitting (pressure relief port) *8				R
of a pressure gauge. The gauge port for "T", "T8" is Rc1/4 and T6 is Rc1/8.	G١	(59	G59D-8-P10-P94 (L: G59D-8-P04-P94)				Press gauge Diff. press gauge
 *4: One pipe plug is attached for options "C6" and "M6". *5: Piping adaptor set A*00-*-P70 (page 804) is attached. *6: Refer to pages 804 to 806 for adaptor, 858 for pressure 						-	Electro- pneumatic R
gauge. The piping adaptor set and C bracket cannot be							Speed controller

- used at the same time. *7: Refer to page 781 for max. processing flow when option "Y" is selected.
- *8: For the fittings, copper-based materials are used.
- *9: When option "T6" is selected, the attachment "GY59" has a different thread size, so it cannot be selected together.

Ending

Auxiliary

Fitting/

valve

tube

Clean

air unit Pressure sensor Flow rate sensor Valve for air blow

Flow characteristics SCPD3 • W2000-8 SCM 0.7 0.6 SSD2 0.5 0.4

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder switch

MN3E

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R (module unit)

Clean

Precision

Press gauge

Diff. press gauge

pneumatic R

Speed

controller Auxiliary valve Fitting/ tube Clean air unit Pressure sensor Flow rate sensor Valve for air blow

Ending

Electro-

F.R

R





Primary pressure (MPa)

0.8

0.2

0.4

Primary pressure (MPa)

0.6

0

0.2

0.4

Primary pressure (MPa)

0.6

0.8

Dimensions



771

15.3

CKD







772

R

Electro-

valve

tube

Dimensions

Dimensions





Reverse filter/regulator W2100/W3100/W4100 Series





Model No.

- (P70)

MDC2 Structure and material restriction Structure **Material restriction** SMG Exhaust treatment LCM

P7 Series	Exhauor rodamont		
F7 Selles	Exhaust treatment	Copper-based materials prohibited Silicon-based materials prohibited Halogen-based materials prohibited (fluorine, chlorine, bromine)	d – P74 Custom order product

LCG Specifications

SCPD3

SCM

SSD2

LCR

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R (module unit)

Clean

Precision

Press gauge

Electro-

Diff. press gauge

pneumatic R

controller

Auxiliary

Fitting/

Clean

air unit

Pressure

Flow rate

Valve for

air blow

Ending

sensor

sensor

valve

tube

Speed

F.R

R

1.01/	Descriptions		W2100	W3100	W4100				
LCX	Working fluid			Compressed air					
STM	Max. working pressure	MPa	1.0						
01101	Proof pressure	MPa							
STG	Ambient temperature/fluid temperature °C		5 to 50						
	Filtration rating	μm	5 5 or 0.3						
STR2	Set pressure	MPa	0.05 to 0.85						
	Pressure relief			Nonrelief					
MRL2	Weight	kg	0.40	0.64	0.99				
	Note 1: Check that the primary	araaaura ia highar th	an the accorders, processing by 0	05 MDa or more					

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

GRC Note 2: Refer to the set pressure range for the back pressure given on Cylinder switch How to order MN3E



*5: For "T", "T8", "T6", a gauge plug is assembled D Clean roo

specification

*6: One pipe plug is attached for options "C6" and "M6".

instead of a pressure gauge. The gauge port for

*7: Piping adaptor set A*00-*-P70 (page 804) is attached.

"T", "T8" is Rc1/4 and T6 is Rc1/8.

- *8: Refer to pages 804 to 806 for adaptor, 858 for pressure gauge. The piping adaptor set and C bracket cannot be used at the same time.
- *9: Refer to page 761 for max. processing flow when option "Y" is selected.
- *10: When option "T6" is selected, the attachment "GX59", "GY59" has a different thread size, so it cannot be selected together.

KD

re given on page	A Model No.					
				W2100	W3100	W4100
0) — (B)	Co	de	Content			
\rightarrow	B Po	rt size				
	8	3	Rc1/4			
	1	-	Rc3/8			
	1	5	Rc1/2			
	O Op	tion *	2 *3 *4 *5			
		Blank	PC bowl: without drain discharge			
	Bowl	C6	PC bowl: drain discharge Rc1/8			
		M6	Metal bowl: drain discharge Rc1/8			
		Blank	5 µm			
	Element	Y	0.3 µm (submicron)			
	Pressure	Blank	0.05 to 0.85 MPa			
	range	L	0.05 to 0.35 MPa			\bullet
	Pressure relief	Ν	Nonrelief			
		Blank	With standard pressure gauge (G401) *1			
	Pressure	Т	Without pressure gauge (gauge port (Rc1/4) is assembled with sealed)			
		T8	For attaching pressure gauge (gauge port (Rc1/4) is assembled with ventilated)			
		T6	For attaching pressure gauge (gauge port (Rc1/8) is assembled with ventilated)			
	Flow	Blank	Standard flow (left \rightarrow right)			
	direction	X1	Reverse flow (right \rightarrow left)			
		an roo	om specifications			
Clean room		Jan Too	Structure			
specifications	P7	70	Exhaust treatment			
Other			achments *7 *8			
attachment	ts Bla		Without attachment			•
			Rc1/4 piping adaptor set			•
	A		Rc3/8 piping adaptor set			•
	A		Rc1/2 piping adaptor set	•	•	•
	A2	-	Rc3/4 piping adaptor set C bracket			
	E			•	•	•
		-	L bracket Fitting (pressure relief port) *1	-	-	
	E GX		Fitting (pressure relief port) *1 G59D-8-P10-P70 (L: G59D-8-P04-P70) *1		•	•
			· · · · · · · · · · · · · · · · · · ·			
	GY	29	G59D-8-P10-P94 (L: G59D-8-P04-P94)			



How to order

How to order (custom order produ	uct)							SCPD3
	4 -B			ſ	A M	lodel	No.	SCM
Model No.					W2100	W3100	W4100	SSD2
					Ň	Ň	Ň	MDC2
				Content				<u>ento</u>
B Port size		B Por		Rc1/4			•	SMG
		1		Rc3/8		•		LCM
		1	-	Rc1/2			•	
		C Opt	-	1 *2 *3 *4 *5				LCR
Option				PC bowl: without drain discharge			•	LCG
		Bowl	С6	PC bowl: without drain discharge PC bowl: drain discharge Rc1/8		•		LUG
			M6	Metal bowl: drain discharge Rc1/8		•		LCX
			Blank	5 μm		•		-
		Element	Y	0.3 µm (submicron)		•		STM
		Pressure	Blank	0.05 to 0.85 MPa		•	•	070
		range	L	0.05 to 0.35 MPa	•	•	•	STG
		Pressure relief	N	Nonrelief	•	•		STR2
		Pressure	Т	Without pressure gauge (gauge port (Rc1/4) is assembled with sealed)	•	•	•	MRL2
		gauge *10	Т8	For attaching pressure gauge (gauge port (Rc1/4) is assembled with ventilated)	•	•	•	GRC
			T6	For attaching pressure gauge (gauge port (Rc1/8) is assembled with ventilated)	•	•	•	Cylinder
		Flow	Blank	Standard flow (left \rightarrow right)		•	•	Switch
		direction	X1	Reverse flow (right \rightarrow left)				MN3E
	Clean room	D Cle		m specifications				MN4E
	specifications		Structur					4GA/B
Precautions for model No. selection		P74	Exhaust treatmen			•	•	M4GA/B
*1: Select options per drainage, bowl material, and element sections. When selecting options for		🕒 Oth	er atta	chments *6 *7				
several items, list options in order from the top. Be	Other attachments	Bla	ank	Without attachment				MN4GA/B
sure to select "N" non-pressure relief.	allachiments	A	8	Rc1/4 piping adaptor set				F.R.(module
*2: If "L" is selected for pressure range, a low pressure gauge (0 to 0.4 MPa) is used.		A1	10	Rc3/8 piping adaptor set				unit)
*3: Positions of a check valve and pressure gauge		A1	15	Rc1/2 piping adaptor set	•	•		Clean
cannot be changed. If the IN and OUT direction		A2		Rc3/4 piping adaptor set			•	F.R
must be reversed, indicate "X1" at the end of the option field.		E	3	C bracket	•	•	•	Precision R
*4: For "T", "T8", "T6", a gauge plug is assembled		В		L bracket	•	•	•	Press gauge
instead of a pressure gauge. The gauge port for		E		Fitting (pressure relief port) *9		•	•	Diff. press gauge
"T", "T8" is Rc1/4 and T6 is Rc1/8. *5: One pipe plug is attached for options "C6" and		GY	′59	G59D-8-P10-P94 (L: G59D-8-P04-P94)		•	•	Electro- pneumatic R
"M6". *6: Piping adaptor set A*00-*-P70 (page 804) is attached.								Speed controller
 *7: Refer to pages 804 to 806 for adaptor, 858 for pressure gauge. The piping adaptor set and C 								Auxiliary valve
bracket cannot be used at the same time. *8: Refer to page 781 for max. processing flow when								Fitting/ tube
option "Y" is selected.								tabo

- *8: Refer to page 781 for max. processing flow when option "Y" is selected.
- *9: For the fittings, copper-based materials are used.
- *10: When option "T6" is selected, the attachment "GY59" has a different thread size, so it cannot be selected together.

Clean

air unit

Pressure sensor

Flow rate sensor Valve for air blow

Ending



pressure and spring load. When primary pressure is released by a switching 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: For the regulator's set pressure, set the back pressure A when the primary pressure is released within the range shown in the graph "Set pressure range for back pressure". (Refer to the graph above)

Circuit diagram



When using shut-off valve in front of reverse filter and regulator.

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air unit

Pressure

Flow rate

Ending

sensor Valve for air blow

sensor

CKD

Dimensions



777

CKD







2.5

15.3

60

Dimensions



'KD