

Pneumatic actuator

Notes: Metal wear powder (copper-based metal is not included) from the mounting part will occur in oscillation mounting formats such as clevis mounting. To order a switch, refer to the switch compatibility table on pages 23 to 26 and order using the listed order model No.

Standard

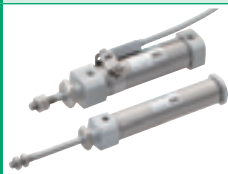
*1: Zinc plating is used for the sealing washer.

*2: Zinc plating is used for the cushion packing.

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

SCPD3

Pencil shaped cylinder



Page 2

How to order		SCPD3-[Variation]-[Mounting]- [Bore size]-[Stroke length]-[Switch]-[Number]- [Option]P4□[Accessory]										
Applicable bore size		Double acting/ single rod	Double acting/ high load	Single acting/ push	Single acting/ pull	Double acting/ double rod	Double acting/ fine speed	Double acting/ low speed	Double acting/ heat resistance	Double acting/ rubber-air cushioned	Double acting/ rotation-stop	Double acting/ with valve
			K	SCPS3	SCPH3	D	F	O	T	* C	M	V
ø6 to 16	P4	●		○	○	○				○	○	
	P40	●		○	○	○				○	○	
	P42	▲				▲				▲		

CMK2



Small bore size cylinder



Page 4

How to order		CMK2-[Variation]-[Mounting]- [Bore size][Cushion]-[Stroke length]-[Switch]-[Number]- [Option]P4□[Accessory]															
Applicable bore size		Double acting/ single rod	Double acting/ position locking	Single acting/ push	Single acting/ pull	Double acting/ double rod	Double acting/ back to back	Stroke adjustable (push)	Stroke adjustable (pull)	Double acting/ fine speed	Double acting/ heat resistance	Double acting/ rubber-air cushioned	Double acting/ with speed controller	Double acting/ rotation-stop	Double acting/ coolant proof	Double acting/ low hydraulic	Double acting/ air cushion
			Q	S	SR	D	B	P	R	F	T	* C	Z	M	G2/G3	H	C
ø20 to 40	P4	●	●	○	○	○	○	○	○			○	○	▲			○
	P40	●	●	○	○	○	○	○	○*1			○	▲	▲			○*2
	P42																

SCM



Round shaped cylinder



Page 6

How to order		SCM-[Variation]-[Mounting]- [Bore size][Cushion]-[Stroke length]-[Switch]-[Number]-[Switch mounting][Option]P4□[Accessory]															
Applicable bore size		Double acting/ single rod	Double acting/ position locking	Single acting/ push	Single acting/ pull	Double acting/ double rod	Double acting/ back to back	Double acting/ two-stage	Stroke adjustable (push)	Stroke adjustable (pull)	Double acting/ low speed	Double acting/ low friction	Double acting/ heat resistance	Double acting/ rubber scraper	Double acting/ tandem	Double acting/ direct mounting foot	Double acting/ rotation-stop
			Q	X	Y	D	B	W	P	R	O	U	T	G	W4	LD	M
ø20 to 100	P4	●	●	○	○	○	○	○	○	○				○ ø40 and over	○	○	▲
	P40	●*2	●*2	○	○	○*2	○	○	○	○*1				○*2 ø40 and over	○	○	▲
	P42	▲*2	▲*2			▲*2	▲	▲	▲	▲*1					▲	▲	

SCG



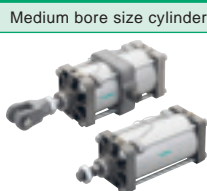
Tie rod cylinder



Page 8

How to order		SCG-[Variation]-[Mounting]- [Bore size][Cushion]-[Stroke length]-[Switch]-[Number]- [Option]P4□[Accessory]								
Applicable bore size		Double acting/ single rod	Double acting/ position locking	Double acting/ double rod	Double acting/ low speed	Double acting/ low friction	Double acting/ rubber scraper	Double acting/ rotation-stop	Double acting/ coolant proof	Double acting/ anti-spatter adherence
			Q	D	O	U	G	M	G2/G3	G1/G4
ø32 to 100	P4	●	●	○			○			
	P40	●*2	●*2	○*2			○*2			

SCS2



Page 10

How to order		SCS2-N-[Mounting]- [Bore size][Cushion]-[Stroke length]-[Option]P4[Accessory]									
Applicable bore size		Double acting/ Lubrication	Double acting/ No lubrication	Double acting/ With switch	Stroke Adjustable (Push)	Double acting/ Heat resistance	Double acting/ Double rod	Double acting/ Back to back	Double acting/ Two-stage	Double acting/ Low hydraulic	Double acting/ Powerful Scraper
			N	LN	P	T	D	B	W	H	G
ø125 to 250	P4		○	○	▲		▲	▲	▲		▲

SCA2



Page 12

How to order		SCA2-[Mounting]- [Bore size][Cushion]-[Stroke length]-[Switch]-[Number]-P4, [Accessory]	
Applicable bore size			Double acting/ single rod
ø40 to Φ100	P4		▲
	P40		▲*2

Pneumatic actuator


Notes: Metal wear powder (copper-based metal is not included) from the mounting part will occur in oscillation mounting formats such as clevis mounting. To order a switch, refer to the switch compatibility table on pages 23 to 26 and order using the listed order model No.

Space saving structure

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

MDC2

Compact direct mounting cylinder



Page 14

How to order		MDC2-L-[Bore size]-[Stroke length]-[Switch]-[Number]-P4□															
Applicable bore size		Double acting/ single rod	Single acting/ push	Single acting/ pull	Double acting/ fine speed												
			X	Y	F												
ø6 to 10	P4	●	○	○													
	P40	●	○	○													
	P42	▲															

SSD2 

Compact cylinder



Page 16

How to order		SSD2-[Variation]L-[Bore size]-[Stroke length]-[Switch]-[Number]- [Option]P4□- [Mounting bracket]- [Accessory]																
Applicable bore size		Double acting/ single rod	Double acting/ single rod High load	Double acting/ single rod long stroke length	Single acting/ push	Single acting/ pull	Double acting/ rubber-air cushioned High load	Double acting/ position locking	Double acting/ double rod	Double acting/ back to back	Double acting/ two-stage	Double acting/ fine speed	Double acting/ low speed	Double acting/ low friction High load	Double acting/ heat resistance	Double acting/ packing Fluoro rubber	Double acting/ rubber scraper	Double acting/ rotation-stop
			K		X	Y	KC	Q	D	B	W	F	0	KU	T1	T2	G	M
ø12 to 200	P4	●	●	○	○	○	○	○	○	○	○					○	○	▲
	P40	●	●	○	○	○	○	○	○	○	▲					○	○	▲
	P42	▲	▲	▲			▲	▲	▲	▲	▲					▲		

SSD 

Compact cylinder



Page 20

How to order		SSD-[Variation]L-[Bore size]-[Stroke length]-[Switch]-[Number]- [Option]P4□- [Mounting bracket]- [Accessory]														
Applicable bore size		Double acting/ single rod	Double acting/ position locking	Single acting/ push	Single acting/ pull	Double acting/ double rod	Double acting/ back to back	Double acting/ two-stage	Double acting/ fine speed	Double acting/ low speed	Double acting/ heat resistance	Double acting/ rubber scraper	Double acting/ anti-spatter adherence	Double acting/ coolant proof	Double acting/ double rod/ anti-spatter adherence	Double acting/ rotation-stop
			Q	X	Y	D	B	W	F	O	T	G	G1/G4	G2/G3	DG1 DG4	M
ø12 to 160	P4	●	●	○	○	○	○	○				○				▲
	P40	●	●	○	○	○	○	○				○				▲
	P42	▲	▲			▲	▲	▲								

SSD-K 

Compact cylinder high load



Page 22

How to order		SSD-K[Variation] L-[Bore size]-[Stroke length]-[Switch]-[Number]- [Option]P4□- [Mounting bracket]- [Accessory]						
Applicable bore size		Double acting/ single rod	Double acting/ fine speed	Double acting/ low friction	Double acting/ rubber-air cushioned	Double acting/ rubber scraper	Double acting/ anti-spatter adherence	Double acting/ coolant proof
			F	U	* C	G	G1/G4	G2/G3
ø12 to 160	P4	●			○	○		
	P40	●			○	○		
	P42	▲			▲			

SSG 

Guided super compact cylinder



Page 24

How to order		SSG-L-[Bore size]-[Stroke length]-[Switch]-[Number]-P4□															
Applicable bore size		Double acting															
ø12 to 100	P4	●															
	P40	●															
	P42																

MSD/MSDG

Small compact cylinder



Page 26

How to order		MSD/MSDG-L-[Bore size]-[Stroke length]-[Switch]-[Number]- [Piping port position]P4□															
Applicable bore size		Double acting/ single rod	Double acting/ single rod high load	Single acting/ push	Single acting/ pull	Double acting/ fine speed											
			K	X	Y	F											
MSD ø6 to 16	P4	●	●	○	○												
	P40	●	●	○	○												

Applicable bore size		Double acting/ guided	Double acting/ guided/ fine speed														
			F														
MSDG ø6 to 16	P4	●															
	P40	●															

Pneumatic actuator

Notes: Metal wear powder (copper-based metal is not included) from the mounting part will occur in oscillation mounting formats such as clevis mounting. To order a switch, refer to the switch compatibility table on pages 23 to 26 and order using the listed order model No.

Space saving structure

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

SMG

Compact cylinder



Page 30

How to order		SMG-L-[Mounting]-[Bore size]-[Stroke length]-[Switch]-[Number]-P4□					
Applicable bore size		Double acting/ single rod	Single acting/ push	Single acting/ pull	Double acting/ fine speed	Double acting/ rotation-stop	
			X	Y	F	M	
ø6 to 32	P4	●	○	○		○	
	P40	●	○	○		○	
	P42	▲				▲	

FC*

Flat cylinder



Page 32

How to order		FCD/FCS/FCH-L-[Bore size]-[Stroke length]-[Switch]-[Number]-[Option]P4□			
Applicable bore size		Double acting/ single rod	Single acting/ push	Single acting/ pull	Double acting/ double rod
		FCD	FCS	FCH	FCD-D
ø25 to 63	P4	○	○	○	○
	P40	○	○	○	○

STK

Stopper cylinder



Page 34

How to order		STK-[I.D.]-[Stroke length]-[Switch]-[Number]-[Option]P4□				
Applicable bore size		Double acting/ single rod	Single acting/ push	Single acting/ pull	Contact CKD for other variations.	
			X	Y		
ø20 to 50	P4	●		○		
	P40	●		○		

MVC

Compact cylinder with suction pad



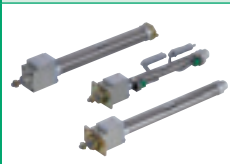
Page 36

How to order		MVC-[Bore size]-[Stroke length]-[Switch]-[Number]-[Pad type]-[Buffer]-P4□				
Applicable bore size		Double acting				
ø6, ø10	P4	●				
	P40	●				

With brake

ULK/ULKP

Brake cylinder



Page 38

How to order		ULK-[Mounting]-[Bore size]-[Stroke length]-[Switch]-[Number]-[Option]P4□[Accessory]				
Applicable bore size		Double acting	Double acting/ With solenoid valve			
						V
ø16 to 40	P4	▲				
	P40	▲				

Note: Standard grease used

USSD

Position locking compact cylinder



Page 42

How to order		USSD-L-[Bore size]-[Stroke length]-[Lock direction]-[Switch]-[Number]-[Option]P4□-[Mounting bracket]				
Applicable bore size		Double acting	Double acting/ High load			
						K
ø20 to 100	P4	○	○			
	P40	○	○			


Note: Standard grease used

Pneumatic actuator

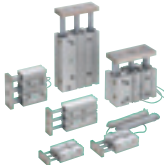
Notes: Metal wear powder (copper-based metal is not included) from the mounting part will occur in oscillation mounting formats such as clevis mounting. To order a switch, refer to the switch compatibility table on pages 23 to 26 and order using the listed order model No.

Combined functions

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

STG-B/M 

Guided cylinder



Page 44

How to order		STG-[Bearing]- [Bore size]-[Stroke length]-[Switch]-[Number]- [Option]P4□							
Applicable bore size		Double acting/ single rod	Double acting/ position locking	Double acting/ rubber-air cushioned	Double acting/ air cushioned	Double acting/ rubber scraper	Double acting/ coil scraper	Double acting/ coolant proof	Double acting/ anti-splatter adherence
		Q	* C	C	G	G1	G2/G3	G4	
ø12 to 100	P4	●	●	○	○	○			
	P40	●	●	○	○	○			
	P42	▲	▲	▲	▲				

*1: Not compatible with STG-K.

STM-B/M

Guided cylinder



Page 46

How to order		STM-[Bearing]- [Bore size]-[Stroke length]-[Switch]-[Number]-[Option]-P4□							
Applicable bore size		Double acting/ single rod							
ø6/10	P4	○							
	P40	○							
	P42	▲							


STS/L-B/M

Guided cylinder




Page 48

How to order		STS/STL-[Bearing]- [Bore size]-[Stroke length]-[Switch]-[Number]-P4□													
Applicable bore size		Double acting/ Single rod	Double acting/ position locking	Double acting/ air cushioned	Double acting/ rubber scraper										
		Q	C	G											
ø8 to 100	P4	●	▲	▲	▲										
	P40	●	▲	▲	▲										
	P42	▲	▲	▲											

LCR 

Linear slide cylinder



Page 52

How to order		LCR-[Variation]-[Bore size]-[Stroke length]-[Switch]-[Number]- [Option]P4□									
Applicable bore size		Double acting/ single rod	Double acting/ position locking	Double acting/ fine speed							
			Q	F							
ø6 to 25	P4	●	●								
	P40	●	●								
	P42	▲	▲								

*1: Even when P40 is selected for the external stopper option, Electrolytic nickel plating is used for the stopper part.

LCG 

Linear slide cylinder



Page 56

How to order		LCG-[Variation]-[Bore size]-[Stroke length]-[Switch]-[Number]- [Option]P4□							
Applicable bore size		Double acting/ single rod	Double acting/ position locking						
		Q							
ø6 to 25	P4	●	●						
	P40	●	●						
	P42	▲	▲						

*1: Even when P40 is selected for the external stopper option, electrolytic nickel plating is used for the stopper part.
*2: If P4 is chosen, rust proofing (option code: U) is recommended for LCG-20, 25.
(ø20, ø25 P40 has rust proofing added.)

STR2

Twin rod cylinder



Page 60


How to order		STR2-[Bearing][Variation]-[Bore size]-[Stroke length]-[Switch]-[Number]- [Option]P4□				
Applicable bore size		Double acting/ single rod	Double acting/ position locking	Double acting/ fine speed	Double acting/ low speed	Double acting/ double rod
			Q	F	O	D
ø6 to 32	P4	●	●			○
	P40	●	●			○
	P42	▲	▲			▲

Pneumatic actuator

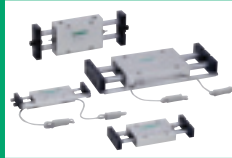
Note: To order a switch, refer to the switch compatibility table on pages 23 to 26 and order using the listed order model No.

Combined functions

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

UCA2 

Unit cylinder



Page 62

How to order		UCA2-[Fixing method]-[Bore size]-[Stroke length]-[Switch]-[Number]- [Option]P4□			
Applicable bore size		Metal bush Bearing Type	Ball Bearing Type		
			B		
ø10 up to 32	P4	●	●		
	P40	●	●		

Rodless

SRL3

Rodless cylinder



Page 64

How to order		SRL3-[Variation]-[Mounting]- [Bore size][Cushion]-[Stroke length]-[Switch]-[Number]- [Option]P4□				
Applicable bore size		Double acting/ standard	Double acting/ position locking	Double acting/ resin guide	Resin guide/ position locking	
			Q	G	GQ	
ø12 to 100	P4	●	●			
	P40	●	●			

SRM3

Rodless cylinder with high precision guide



Page 66

How to order		SRM3-[Variation]-[Mounting]- [Bore size][Cushion]-[Stroke length]-[Switch]-[Number]- [Option]P4□				
Applicable bore size		Double acting/ standard	Double acting/ position locking			
			Q			
ø25/32 to 63	P4	●	●			
	P40	●	●			

*1: Square nut, a standard accessory, is not included.

*2: The grease nipple is not assembled.

*3: If the switch model No. is not selected, select "CO" (for reed switch), "C1" (for proximity switch) after [stroke].

MRL2 

Magnet rodless cylinder



Page 68

How to order		MRL2-[Variation]-[Mounting]- [Bore size][Cushion]-[Stroke length]-[Switch]-[Number]- [Option]P4□				
Applicable bore size		Double acting/ basic				
ø6 to 32	P4	●				
	P40	●				

*1: Electrolytic nickel plating is used in the magnet.

MRG2

Magnet rodless cylinder with high precision guide



Page 70


How to order		MRG2-[Variation]-[Mounting]- [Bore size][Cushion]-[Stroke length]-[Switch]-[Number]- [Option]P4□				
Applicable bore size		Double acting/ basic				
ø10/16/25	P4	●				
	P40	▲				

*1: Electrolytic nickel plating is used in the magnet.

Rotary actuator

GRC

Table Rotary actuator



Page 72

How to order		GRC-[K]-[Torque size]-[Angle]-[Switch]-[Number]- [Option]P4□				
Applicable size		Standard	High accuracy	Fine speed	High accuracy/ fine speed	
			K	F	KF	
Torque 0.5 to 8.1 N·m	P4	●	●			
	P40	●(*1)	●(*1)			
	P42	▲	▲			

*1: Even when P40 is selected for the external stopper option, electrolytic nickel plating is used for the stopper part.

*2: Zinc plating is used in part of the bearings - the sealing washer of the angle adjustment unit.

Pneumatic actuator

Notes To order a switch, refer to the switch compatibility table on pages 23 to 26 and order using the listed order model No.

Air bearing actuator

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

LBC

Air bearing actuator



Page 74

How to order	LBC-[Thrust]
	LBC
P4	Standard compliance

Hand/chuck

HAP

Parallel hand



Page 76

How to order		HAP-[Size]-[Option]-[Switch]-[Number]-P4□		
Applicable bore size		Double acting	Single acting Normally open	Single acting Normally closed
			O	C
ø20/ 25/40	P4	●	●	●
	P40	●	●	●

BHA

Compact cross roller parallel hand



Page 78

How to order		BHA-[Size]-[Option]-[Switch]-[Number]-P4□		
Applicable bore size		Double acting	Single acting Normally open	Single acting Normally closed
			O	C
ø12/16/20/25	P4	●	●	●
	P40	●	●	●

LHA

Linear guide hand



Page 80

How to order		LHA-[Size]-[Option]-[Switch]-[Number]-P4□		
Applicable bore size		Double acting	Single acting Normally open	Single acting Normally closed
			O	C
ø6 to 32	P4	●	●	●
	P40	●	●	●

LHAG



Linear guide hand (with rubber cover)



Page 82

How to order		LHAG-[Size]-[Option]-[Switch]-[Number]P4□		
Applicable bore size		Double acting	Single acting/ Normally open	Single acting/ Normally closed
			O	C
ø12 to 32	P4	●	●	●
	P40	●	●	●

BHG

Compact crossover roller parallel hand (with rubber cover)



Page 84

How to order	BHG-[Size]-[Option]-[Switch]-[Number]-P4□			
Applicable bore size		Double acting	Single acting Normally open	Single acting Normally closed
			O	C
ø12/16/ 20/25	P4	●	●	●
	P40	●	●	●

HKP

Cross roller parallel hand



Page 86

How to order		HKP-[Size]-[Option]-[Switch]-[Number]-P4□			
Applicable bore size		Double acting	Single acting Normally open	Single acting Normally closed	Rubber cover (Nitrile rubber)
			O	C	G
ø32 to 80	P4	●	●	●	●
	P40	●	●	●	●

Note: 80 cs is double-acting only

Pneumatic actuator

Notes To order a switch, refer to the switch compatibility table on pages 23 to 26 and order using the listed order model No.

Hand/chuck

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

HCP

Lateral parallel hand



Page 88

How to order HCP-[Size]-[Option]-[Switch]-[Number]-P4□

Applicable bore size	Double acting	
	P4	P40
ø12/20/32	●	●

HLB

Bearing thin parallel hand



Page 90

How to order HLB-[Size]-[Switch]-[Number]-P4□

Applicable bore size	Double acting	
	P4	P40
ø12/15/20	▲	▲

HLBG

Bearing thin parallel hand (With rubber cover)



Page 92

How to order HLBG-[Size]-[Switch]-[Number]-P4□

Applicable bore size	Double acting	
	P4	P40
ø12/15/20	●	●

HMF

Compact wide parallel hand



Page 94

How to order HMF-[Size]-[Option]-[Switch]-[Number]-P4□

Applicable bore size		Double acting		
		Standard	Long stroke 1	Long stroke 2
			L1	L2
ø12 x 2 to ø40x2	P4	●	●	●
	P40	●	●	●

HLC

Thin long stroke parallel hand



Page 96

How to order HLC-[Size]-[Option]-[Switch]-[Number]-P4□

Applicable bore size	Double acting	
	P4	P40
ø8 x 2 to ø30 x 2	●	●

HLD

Ultra thin parallel hand



Page 100

How to order HLD-[Size]-[Switch]-[Number]-P4□

Applicable bore size	Double acting	
	P4	P40
ø8x4 to ø20x4	●	●

HLF2

Low-profile long stroke hand



Page 102

How to order HLF2-[Size]-[Stroke length]-[Switch]-[Number]-P4□

Applicable bore size	Double acting	
	P4	P40
ø8x2 to ø20x2	▲	▲

Pneumatic actuator

Notes To order a switch, refer to the switch compatibility table on pages 23 to 26 and order using the listed order model No.

Hand/chuck

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

HMD

Thin wide angle hand



Page 104

How to order		HMD-[Size]-[Switch]-[Number]-P4□	
Applicable bore size		Double acting	
		Standard	
ø16/25	P4	●	
	P40	●	

BHE

Centering hand



Page 106

How to order		BHE-[Size]-[Option]-[Switch]-[Number]-P4□			
Applicable bore size		Double acting			
		Standard	Open stroke adjustment mechanism	Close stroke adjustment mechanism	Open and close stroke adjustment mechanism
			D	E	DE
ø12 to 32	P4	●	●	●	●
	P40	●	●	●	●

CKG

3-way finger bearing chuck (With rubber cover)



Page 108

How to order		CKG-[Size]-[Option]G-[Switch]-[Number]-P4□		
Applicable bore size		Double acting	Single acting Normally open	Single acting Normally closed
			O	C
ø16/25/32/40/50	P4	●	●	●
	P40	●	●	●

CKL2

Powerful chuck



Page 110

How to order		CKL2-[Size]-[Option]-[Switch]-[Number]-P4□		
Applicable bore size		Double acting	Single acting Normally open	Single acting Normally closed
			O	C
ø20/25/32/40/50/63/80/100	P4	●	●	●
	P40	●	●	●

CKLB2

2-way powerful chuck



Page 112

How to order		CKLB2-[Size]-[Option]-[Switch]-[Number]-P4□		
Applicable bore size		Double acting	Single acting Normally open	Single acting Normally closed
			O	C
ø20/25/32/40/50/63/80/100	P4	●	●	●
	P40	●	●	●

CKF

Hollow chuck



Page 114

How to order		CKF-[Size]-[Option]-[Switch]-[Number]-P4□		
Applicable bore size		Double acting	Single acting Normally open	Single acting Normally closed
			O	C
ø30 to 80	P4	▲	▲	▲
	P40	▲	▲	▲

Pneumatic actuator

Notes To order a switch, refer to the switch compatibility table on Intro pages 23 to 26 and order using the listed order model No.

Related products

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

NCK 

Shock absorber



Page 118

How to order		
NCK-[Mounting]-[Series]-[Option]-P4□		
Applicable size		
	Basic	
All sizes	P4	●
	P40	●


FCK

Shock absorber

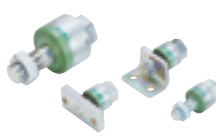


Page 120

How to order				
FCK-[Series]-[Option]-P4				
Applicable size		Low speed	Medium speed	High speed
		L	M	H
FCK-*0.15 to 8.1	P4	●	●	●

FJ 

Floating fitting



Page 122

How to order				
FJ-*3-P4/FJ-*4-P4/FJ-*5-P4				
Applicable size		Basic	Foot	Flange
FJ-*3 FJ-*4 FJ-*5	P4	●	●	●
	P40	▲	▲	▲
FJ-*6 to 45	P4	Standard compliance		
	P40	▲		

FK 

Simplified floating fitting



Page 123

How to order			
FK-[Thread size]-P40			
Applicable size		Male thread	Female thread
		N	
All sizes	P4	Standard compliance	
	P40	●	●

Cylinder switch

T/F/M/K

Cylinder switch



Page 124

[How to order switch]

If you order switches for the P4 Series separately, do as follows.

SW-□□□-P4 example SW-T2H-P4

(*1) When ordering Low-Voltage Directive compliant products separately, do as follows.

SW-□□□-ST-P4 example SW-T5H-ST-P4

(*2) If you order products with resin connector Discrete, do as follows. Applies to the above T2H, T2YH, T2WH, K2YH, M2WV, F2H only.

SW-□□□-P4J example SW-T2H-P4J

[Incorporated switch]

For cylinder specification P4 and P40, switch indicating "P4" is supplied. Cylinder mountable switch differs according to each cylinder.

Refer to the switch compatibility table on pages 23 to 26.


Example) GRC: Reed switch TO* and T5* cannot be mounted.

SRM3: Proximity 1-color display T2*, T3* cannot be installed.

Vacuum components

PVP

Precise suction plate



Page 130

How to order			
PVP-[Shape]- [Porous material size]- [Vacuum port position]- [Option]			
		PVP	
P4		Standard compliance	

Vacuum components

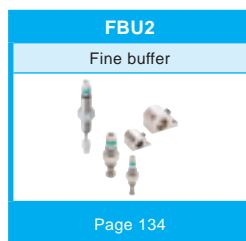
●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable



How to Order	
Suction pad	VSP-[Holder shape][Pad diameter/pad size] [stroke option] [Pad shape][Pad material][Surface-treated]- [Port size/shape]-[Pad Swing]-P4
Pad rubber only	VSPG-[Pad diameter/pad size][Pad shape][Pad material][Surface-treated]
Pad rubber + set with fixing screw	VSPG-[Pad diameter/pad size][Pad shape][Pad material][Surface-treated]A-P4

	Suction pad	Pad rubber only	Pad rubber + set with fixing screw	
	VSP	VSPG	VSPG*A	
P4	●	Standard compliance	●	

*1: Holder shape: LFC, LFD is not supported.
 *2: Only Blank stroke option is available for models other than HC holder shape.
 *3: Holder shape: HD, HDW, HE and HEW are pad shape: L and LB only.
 *4: Pad material: N, E, NE, G and NH are not supported.
 *5: Port sizes/shapes: 2, 8, 10 and 12 are not supported.
 *6: Free holders (F1, F2) and position locking valve (V) are not supported.



How to order	
	FBU2-[shape]- [Bearing precision]- [Pressure]-[Buffer stroke length] -[Tail shape]- [Head shape]

	FBU2
P4	Standard compliance



How to order	
Single unit	VSX-[Vacuum characteristics][Nozzle diameter][Valve]-[Port]-3-[Switch specifications]- [Mounting method]-P4
Manifold	VSXM-[Vacuum characteristics][Nozzle diameter][Valve]-[Port]-3-[Station No.]- [Switch specifications]-P4

	VSX	VSXM
Port size	ø4, ø6	ø4, ø6, ø8, ø10
P4	●	▲

*1: Applicable only for common exhaust.



How to order	
Single unit	VSXP-[Valve][Port]-3-[Switch specifications]- [Mounting method]-P4
Manifold	VSXPM-[Valve][Port]-3-[Station No.]- [Switch specifications]-P4

	VSXP	VSXPM
Port size	ø4, ø6	ø4, ø6, ø8, ø10
P4	●	▲

*1: Applicable only for 2-way valve.



How to order	
	VFA1000/3000/4000-[Bore size]- [Option]P4- [Attachment]

	VFA1000	VFA3000	VFA4000
Port size	Rc1/8, 1/4	Rc1/4, 3/8	Rc3/8, 1/2
P4	●	●	●

Note: Metal bowl is not available.



How to order	
	VRA2000-[Bore size]- [Option]P4

	VRA2000
Port size	Rc1/4, 3/8
P4	●

*1: Available pressure gauge is PPX only.
 *2: Pressure gauge/pressure sensor must be ordered separately. (Attachment options not available.)



How to order	
	VSFU-[Filter size]-[Bore size]-P4, FSL[Filter size]-[Bore size]-[Bracket]-P4

	VSFU	FSL
Port size	ø4, ø6, ø8, ø10	ø4, ø6, ø8, ø10
P4	●	▲

Pneumatic valves

How to order P4 Series

"-P4": Indicates the product that requires modification to SUS fitting with P4 specification against standard products.

P4 compliant as standard: Indicates products that comply with P4 specifications as standard products and do not require "-P4" at the end of the model number.

P4 Series (flow path, sliding part material restrictions)

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

Pilot operated 3, 5-port valve

4G 

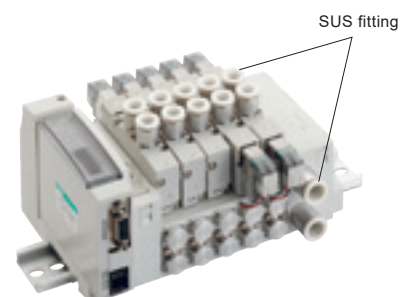
Pilot operated 5-port valve 4G Series



Page 148

Descriptions	4GA/B1	4GA/B2	4GA/B3	4GA/B4
Valve width [mm]	10	15	18	24.3
Flow characteristics [dm ³ /(s·bar)]	P → A/B	0.86 to 1.4	1.7 to 2.6	2.9 to 4.5
	A/B → R	0.7 to 1.3	2.1 to 2.9	3.3 to 4.2
Max. working pressure [MPa]	0.7			
Min. working pressure [MPa]	0.2			
Proof pressure [MPa]	1.05			
Ambient temperature [°C]	-5 to 55 (no freezing)			
Fluid temperature [°C]	5 to 55			
Rated voltage [V]	12 DC, 24 DC, 3 DC, 5 DC, 100 AC, 200 AC			

* 1: 4G4 Series is not compatible with 3 VDC, 5VDC, or 200 VAC.



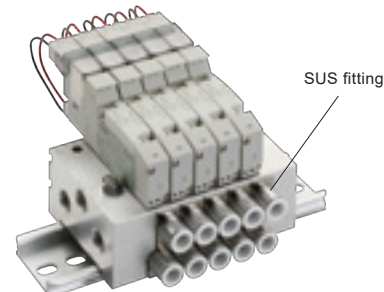
4G 

Pilot operated 5-port valve 4G Series



Page 278

Descriptions	4GD/E1	4GD/E2	4GD/E3
Valve width	10	15	18
Flow characteristics [dm ³ /(s·bar)]	P → A/B	0.86 to 1.4	1.7 to 2.5
	A/B → R	0.7 to 1.3	2.1 to 2.9
Max. working pressure [MPa]	0.7		
Min. working pressure [MPa]	0.2		
Proof pressure [MPa]	1.05		
Ambient temperature [°C]	-5 to 55 (no freezing)		
Fluid temperature [°C]	5 to 55		
Rated voltage [V]	12 DC, 24 DC, 100 AC		



How to order	
Single unit	$\frac{3}{4}$ G $\frac{A}{B}$ [Size][Switching section]0R-[Bore size]- [Wiring][Option]-[Voltage]-P4
Manifold Replacement valve	$\frac{3}{4}$ G $\frac{A}{B}$ [Size][Switching section]9R-[Bore size]- [Wiring][Option]-[Voltage]-P4
M4G Series (Metal base)	M $\frac{3}{4}$ G $\frac{A/D}{B/E}$ [Size][Switching section]0R-[Bore size]- [Wiring][Option][Mount type]-[Station No.]- [Voltage]-P4
MN4G Series (Block manifold)	MN $\frac{3}{4}$ G $\frac{A/D}{B/E}$ [Size][Switching section]0R-[Bore size]- [Wiring][Option]-[Station No.]- [Voltage]-P4
Single unit (Large flow rate)	4 G $\frac{A}{B}$ 4 [Switching section]0-[Bore size]- [Wiring][Option]-[Voltage]-P4

	4G Series		M4G Series *5) *6)			MN4G Series *7) *9)	
	Push-in fitting straight (Model No.: C*)	Screw-in (Model No.: M5, 06, 08)	Push-in fitting straight (Model No.: C*)	Push-in fitting elbow (Model No.: CL/CD/)	Screw-in (Model No.: M5, 06, 08)	Push-in fitting straight (Model No.: C*)	Push-in fitting elbow (Model No.: CL/CD/)
P4	● *8)	●	● *8)		●	● *8)	

*1: Base piping (B) type Discrete and 4GA/D1-M5 type are standard products and equivalent to P4 specifications.

*2: Copper-free material applies to flow rate part.

*3: Refer to "Pneumatic Valves (Catalog No.CB-023SA)" for serial communication specifications.

*4: Push-in fitting elbow is not supported.

*5: Due to the attached M5 plug change, external pilot is available with P4 specification with or without fitting.

*6: In-stop valve spacer and spacer pilot check valve are not supported.

*7: External pilot specification is not available as standard.

*8: The following are not supported for push-in fitting straight.

$\frac{3}{4}$ G $\frac{A}{B}$ 1, MN4G $\frac{A}{B}$ 1: CF, C18
 $\frac{3}{4}$ GA/D3: C6, C10
 $\frac{3}{4}$ GB/E3: C6
 $\frac{3}{4}$ GA4: C10, C12

*9: Atmosphere opening type cannot be selected for MN4G end block and supply and exhaust block.

*10: Contact CKD for European Standards compliant products.

Pilot check valve

4G2R-PCS

Pilot check valve



Page 179

Descriptions	4G2R-PCS-P4
Flow characteristics [dm ³ /(s·bar)]	2.2
Max. working pressure [MPa]	0.7
Min. working pressure [MPa]	0.2
Proof pressure [MPa]	1.05
Ambient temperature [°C]	-5 to 55 No freezing
Fluid temperature [°C]	5 to 55

4G1R-PC

Pilot check valve



Page 178

Descriptions	4G1R-PC
Valve width [mm]	10
Flow characteristics [dm ³ /(s·bar)]	0.3
Max. working pressure [MPa]	0.7
Min. working pressure [MPa]	0.2
Proof pressure [MPa]	1.05
Ambient temperature [°C]	-5 to 55 (No freezing)
Fluid temperature [°C]	5 to 55

Pneumatic valves

Direct acting 3-port valve

The direct acting 3-port valve 3QR Series supports P4 Series as standard.

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

3QRA/B **CE**

Direct acting 3-port solenoid valve



Page 362

Descriptions	Standard	Large flow rate
Flow characteristics P→A [dm ³ /(s·bar)]	0.3	0.36
	A→R 0.32 to 0.36	0.38 to 0.4
Max. working pressure [MPa]	0.7	
Min. working pressure [MPa]	-0.1	
Proof pressure [MPa]	1.05	
Ambient temperature [°C]	0 to 50	
Fluid temperature [°C]	5 to 50	
Rated voltage [V]	12 DC, 24 DC	
How to order		
Single unit	3QRB1 [Solenoid position]0-M5 - [Electrical connections][Flow rate]- [Voltage]	
Replacement valve	3QRA1 [Solenoid position]9-M5 - [Electrical connections][Flow rate]- [Voltage] 3QRB1 [Solenoid position]9-00 - [Electrical connections][Flow rate]- [Voltage]	
Manifold	M3QRA1 [Solenoid position]0-M5 - [Electrical connections][Flow rate]- [Station No.]- [Voltage]	

Note: Supports P4 specifications as standard

3QB **CE**

Direct acting 3-port solenoid valve



Page 364

Descriptions	3QB1-H	3QB1-HP	3QB1-HV
Flow characteristics P→A [dm ³ /(s·bar)]	0.11	0.11	0.18
	A→R 0.11	0.11	0.11
Max. working pressure [MPa]	0.3	0.65	0
Min. working pressure [MPa]	-0.1	0.1	-0.1
Proof pressure [MPa]	1.05		
Ambient temperature [°C]	0 to 50		
Fluid temperature [°C]	5 to 50		
Rated voltage [V]	24 DC		
How to order			
Single unit	3QB1 [Solenoid position]0-M5 - [Electrical connections]H [Pressure specification]- [Voltage]		
Manifold Replacement valve	3QB1 [Solenoid position]9-00 - [Electrical connections]H [Pressure specification]- [Voltage]		
Manifold	M3QB1 [Solenoid position]0-M5 - [Electrical connections]H [Pressure specification]- [Station No.]- [Voltage]		

Note: Supports P4 specifications as standard

Explosion-proof 3, 5-port valve

4G EJ/EX **CE**

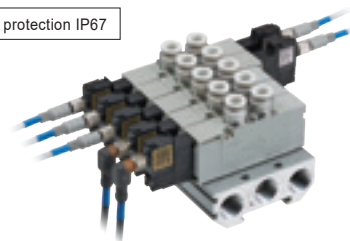
Intrinsically safe explosion-proof pilot 3, 5-port valve 4G EJ/EX Series



Page 372

Descriptions	4GD/E1	4GD/E2	4GD/E3	4GD/E4
Valve width	10	15	18	24.3
Flow characteristics P → A/B [dm ³ /(s·bar)]	0.86 to 1.4	1.7 to 2.5	3.0 to 4.5	6.3 to 11.0
	A/B→R 0.7 to 1.3	2.1 to 2.9	3.3 to 4.2	6.8 to 13.9
Max. working pressure [MPa]	0.7			
Min. working pressure [MPa]	0.2			
Proof pressure [MPa]	1.05			
Ambient temperature [°C]	-5 to 55°C (no freezing)			
Fluid temperature [°C]	5 to 55°C			
Rated voltage [V]	12 DC			
Explosion-proof grade	Ex ib IIC T4 Gb			
Standards	JPEX (Japan), IECEx (International), GBEx (China), KCs (South Korea)			
Degree of protection	IP67			

Degree of protection IP67



How to order	
Single unit	³ G ^D _E [Size] [Solenoid position]0 ^{EJ} _{EX} -[ConnectionBore size]- [Electric wireConnection][Option]-4-P4
Manifold Replacement valve	³ G ^D _E [Size][Solenoid position]9 ^{EJ} _{EX} -[ConnectionBore size]- [Electric wireConnection][Option]-4-P4
Manifold	M ³ G ^D _E [Size] [Solenoid position]0 ^{EJ} _{EX} -[ConnectionBore size]- [Electric wireConnection][Option][Mount type]-[Station No.]-4 -P4

P40 Series (Material restrictions for all parts)

W4G **CE**

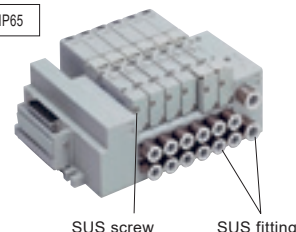
Plug-in manifold W4G Series



Contact CKD for details.

Descriptions	W4G2	W4G4
Valve width	15	24.3
Flow characteristics P → A/B [dm ³ /(s·bar)]	1.7 to 2.4	6.4 to 7.7
	A/B→R 1.7 to 2.5	6.4 to 8.3
Max. working pressure [MPa]	0.7	1.0
Min. working pressure [MPa]	0.2	0.2
Proof pressure [MPa]	1.05	1.5
Ambient temperature [°C]	-5 to 55°C (no freezing)	
Fluid temperature [°C]	5 to 55°C	
Rated voltage [V]	12 DC, 24 DC	
Degree of protection	IP65	

Degree of protection IP65



How to order	
Single unit	W4G ² ₂ [Size][Switching section]0-[Bore size]- [Wiring][Option]-[Voltage]-P40
Manifold Replacement valve	W ³ ₄ G ² ₂ [Size][Switching section]9-[Bore size]-[Option]-[Voltage]-P40
Individual wiring manifold	MW ³ ₄ G ² ₂ [Size][Switching section]0-[Bore size]- [Wiring][Option]-[Station No.]- [Voltage]-P40
Reduced wiring manifolds	

	MW4G ² ₂ Series	MW4G ² ₄ Series
Electrical connections	R1, T10, T20, T30, T51, T8D*, T8G*	R1, T10, T6D1, T6G1, T7EC*
Manual override	Blank, M	
Available options	H, A, F, Z6	H, A, F, Z1, Z3

	W4G2 Series	W4G4 Series	
	Push-in fitting Straight type (Model No.: C*)	Screw-in fitting (Model No.: 08, 10)	Push-in fitting Straight type (Model No.: C*)
P40	●	●	●* Excluding C12

*1: Refer to "Pneumatic Valves (Catalog No.CB-023SA)" for serial communication specifications.

*2: M12 connector is resin connector.

*3: End block atmosphere release/common exhaust type is not available.

*4: Manifold external pilot specification is not available as standard.

*5: Maximum size is C10 for push-in fitting straight.

*6: Push-in fitting elbow is not applicable.

*7: The degree of protection is equivalent to IP40 for T30 and T51.

8: M12 connector is used for T7EC and FG terminal is used for T8G*. These are copper-based metal + nickel plating.

*9: Contact CKD when ordering parts only.

*10: Contact CKD for other options.

*11: Accessories cannot be selected from the manifold specifications sheet. Contact CKD separately.

*12: Contact CKD for European Standards compliant products.

W4G2-PC **CE**

Spacer pilot check valve



Contact CKD for details.

Descriptions	W4G2-PC-P40
Flow characteristics [dm ³ /(s·bar)]	0.8
Max. working pressure [MPa]	0.7
Min. working pressure [MPa]	0.2
Proof pressure [MPa]	1.05
Ambient temperature [°C]	-5 to 55 (No freezing)
Fluid temperature [°C]	5 to 55

Pneumatic auxiliary components

Note: The photos on this page are standard products. Appearance may differ from actual P4 specification products.

Clean air components

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

SU300_E-W/SU400_E-W

Super dryer (High polymer membrane air dryer)



Page 416

How to order	SU301 _E /302 _E /401 _E /402 _E - [Inlet air pressure]-W-[Unit]-[Option]-P4□
	SU
Port size	Rc3/8
P4	●
P40	▲

*1: Applicable only for common exhaust.

*2: Auto-drain is not available.

*3: For unit option C3, zinc die-casting is used in the diaphragm part of the regulator. For pressure adjustment springs without regulator gas contact and pressure adjustment screws in P40, zinc plating is used.

SD300_E-W/SD400_E-W

Super dryer (High polymer membrane air dryer)



Page 416

How to order	SD30□□/SD40□□-[Inlet air pressure]-W-[Option]-P4□
	SD
Port size	Rc3/8
P4	●
P40	▲

*1: Applicable only for common exhaust.

SU3000-W/SU4000-W

Super dryer (High polymer membrane air dryer)



Page 424

How to order	SU30□□/SU40□□-[Outlet air atmospheric dew point]- [Inlet air pressure]-W-[Option]-P4□
	SU
Port size	Rc3/8, 1/2
P4	●
P40	▲

*1: Applicable only for common exhaust.

*2: Auto-drain is not available.

*3: For unit option C3, zinc die-casting is used in the diaphragm part of the regulator. For pressure adjustment springs without regulator gas contact and pressure adjustment screws in P40, zinc plating is used.

SD3000/4000

Super dryer (High polymer membrane air dryer)



Page 427

How to order	SD30□□/SD4□□□-[Outlet air atmospheric dew point]- [Inlet air pressure]-[Option]-P4□
	SD
Port size	Rc3/8, 1/2
P4	●
P40	▲

*1: Applicable only for common exhaust.

SHD

Desiccant air dryers



Page 431

How to order	Contact CKD for model numbers.
	SHD
P4	▲

AF2

Medium main line filter



Page 434

How to order	AF2-[Flow rate classification][Element] [Bore size]-P4
	AF2
Port size	Rc1, 1 1/4, 1 1/2, 2, 2 1/2
P4	▲

AF3000/AF5000

Large main line filter



Page 435

How to order	AF3□□□/AF5□□□-[Bore size]-[Option]-P4
	AF3000/AF5000
Port size	Flange 2B, 3B, 4B, 6B, 8B
P4	▲

Pneumatic auxiliary components

Clean air components

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

RB500

Compact regulator



Page 447

How to order	RB500-[Direction][Bore size]-NT[option]P4□	
	RB500	
Port size	Push-in fitting ø4/ø6	
P4	●	
P40	▲	

- *1: Pressure gauge/pressure sensor must be ordered separately. (Pressure gauge option is "T" only)
 *2: Non-relief only is available.
 *3: Only straight direction is available for fittings.
 *4: For pressure adjustment springs without gas contact and pressure adjustment screw units in P40, zinc plating is used.

RP1000/2000

Precision regulator



Page 448

How to order	RP1000/2000-[Bore size]- [Pressure range]P4□- [Bracket]	
	RP1000	RP2000
Port size	Rc1/4	Rc3/8
P4	●	●
P40	▲	▲

- *1: Pressure gauge/pressure sensor must be ordered separately. (Attachment options not available.)
 *2: Zinc plating is used for pressure adjustment springs without gas contact in P40.
 *3: Dimensions differs from the standard products. There are mounting restrictions because of bleed port connection. Check the dimensions for each case.

RPE

Precision regulator



Page 452

How to order	RPE1000-[Port size]- [Pressure range] P4-[Bracket]	
	RPE1000	
P4	●	

- *1: Pressure gauge/pressure sensor must be ordered separately. (Attachment options not available.)
 *2: RPE1000 dimensions are different from the standard dimensions.

EVD

Electro-pneumatic regulator



Page 454

How to order	Standard: EVD-1/3 [pressure control range]- [Input signal][Port size][Output signal]-[Option]-3-P4 IO-Link type: EVD-1/3 [pressure control range]-C [port size][Unit change]-[Option]-3-P4	
	EVD-1100/1500/1900	EVD-3100/3500/3900
Port size	Rc1/4	Rc1/4, Rc3/8
P4	●	●

Note: The bracket option of EVD-1*00-~P4 is blank or L11 (L type, wall mounted for exhaust fitting).
 Standard B1 and L1 types cannot be selected.

F1000/F2000/F3000/ F4000/F6000/F8000

Filter



Page 463

How to order	F1000/2000/3000/4000/6000/8000-[Bore size]-W-[Option]P4□- [Bracket]					
	F1000-W	F2000-W	F3000-W	F4000-W	F6000-W	F8000-W
Port size	Rc1/8, 1/4	Rc1/4, 3/8	Rc1/4, 3/8	Rc1/4, 3/8, 1/2	Rc3/4, 1	Rc3/4, 1
P4	●	●	●	●	●	●
P40		●	●	●	●	

- *1: Auto-drain is not available.
 *2: Metal bowl is not available.
 *3: Y element is not available for P40.

M1000/M2000/M3000/ M4000/M6000/M8000

Oil mist filter



Page 466

How to order	M1000/2000/3000/4000/6000/8000-[Bore size]-W-[Option]P4□- [Bracket]					
	M1000-W	M2000-W	M3000-W	M4000-W	M6000-W	M8000-W
Port size	Rc1/8, 1/4	Rc1/4, 3/8	Rc1/4, 3/8	Rc1/4, 3/8, 1/2	Rc3/4, 1	Rc3/4, 1
P4	●	●	●	●	●	●
P40		●	●	●	●	

- *1: Auto-drain is not available.
 *2: Metal bowl is not available.
 *3: With differential pressure indicator option is not available.

R1000/R2000/R3000/ R4000/R6000/R8000

Regulator
Reverse regulator

Page 468

How to order	R1□00/2□00/3□00/4□00/6□00/8□00-[Bore size]-W-[Option]P4□- [Pipe adaptor set] [Bracket]					
	R1000-W R1100-W	R2000-W R2100-W	R3000-W R3100-W	R4000-W R4100-W	R6000-W R6100-W	R8000-W R8100-W
Port size	Rc1/8, 1/4	Rc1/4, 3/8	Rc1/4, 3/8	Rc1/4, 3/8, 1/2	Rc3/4, 1	Rc3/4, 1
P4	●	●	●	●	●	●
P40		▲	▲	▲	▲	

- *1: Pressure gauge/pressure sensor must be ordered separately. (Pressure gauge option is "T", "T8", "T6" only)
 *2: R1 option is not available.
 *3: R6000 Dimensions is different from the standard.
 *4: For pressure adjustment springs without gas contact and pressure adjustment screw units in P40, zinc plating is used.
 *5: R2 option is not available.
 *6: For R1000, R1100, R8000, and R8100, only non-relief (option code: N) is available.
 *7: Zinc die-casting is used in the diaphragm part of R3000 to R8000 and R3100 to 8100.

Pneumatic auxiliary components

Clean air components

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

W1000/W2000/W3000/ W4000/W8000

Filter/Regulator Reverse regulator/
Regulator



Page 478

How to order	W1□00/2□00/3□00/4□00/8□00-[Bore size]-W-[Option]P4□- [Pipe adaptor set] [Bracket]				
	W1000-W W1100-W	W2000-W W2100-W	W3000-W W3100-W	W4000-W W4100-W	W8000-W W8100-W
Port size	Rc1/8, 1/4	Rc1/4, 3/8	Rc1/4, 3/8	Rc1/4, 3/8, 1/2	Rc3/4, 1
P4	●	●	●	●	●
P40		▲	▲	▲	

*1: Pressure gauge/pressure sensor must be ordered separately. (Pressure gauge option is "T", "T8", "T6" only)

*2: Auto-drain is not available.

*3: Metal bowl is not available.

*4: R1 option is not available.

*5: For pressure adjustment springs without gas contact and pressure adjustment screw units in P40, zinc plating is used.

*6: R2 option is not available.

*7: For W1000, W1100, W8000, and W8100, only non-relief (option code: N) is available.

*8: Zinc die-casting is used in the diaphragm part of W3000 to W8000 and W3100 to W8100.

*9: Y element is not available for P40.

FX

Drain separator



Page 488

How to order	FX1004/1011/1037-[Port size]-W-[Option]-P4-[Attachment]		
	FX1004	FX1011	FX1037
Port size	Rc1/4, 3/8	Rc1/4, 3/8, 1/2	Rc3/4, 1
P4	●	●	●
P40	▲	▲	▲

*1: Auto-drain is not available.

*2: Metal bowl is not available.

G40D/G41D/G49D/G59D

Pressure gauge



Page 492

How to order	G40D/G41D/G49D/G59D-[Bore size]-P [Pressure]-P4			
	G40D	G41D	G49D	G59D
	Display ø42.5 with safety marker	Display ø42 with limit marker	Display ø42	Display ø52
Port size	R 1/8	R1/8, 1/4	R 1/8	1/4
P4	●	●	●	●

FCS500/FCS1000

Inline clean filter



Page 495

How to order	FCS500/FCS1000-[H push-in fitting bore size]- [Attachment]-P40			
	FCS500		FCS1000	
Port size	Push-in fitting ø4 to 8	Screw type/ SUS type (P9)	Push-in fitting ø8 to 12	Screw type/ SUS type (P9)
P4		Supports P4 specifications as standard		Supports P4 specifications as standard
P40	▲	Supports P40 specifications as standard	▲	Supports P40 specifications as standard

FAC

Clean exhaust filter



Page 496

How to order	FAC10/100/200-[Port size] FAC3000-[Port size]- [Attachment]			
	FAC10	FAC100	FAC200	FAC3000
Port size	ø4, 6, 8, 10	R1/8, 1/4	R3/8, 1/2	Rc3/8, 1/2
P4	Standard compliance			

P1100/P4100/P8100

Pressure switch



Page 500

How to order	P1100/P4100/P8100-[Bore size][Branch direction]-W-P4- [Attachment]- [Lead wire length]		
	P1100	P4100	P8100
Port size	Rc1/8, 1/4	Rc1/4, 3/8, 1/2	Rc3/4, 1
P4	▲	●	▲

*1: The atmospheric pressure inlet port is M5.

*2: Fitting attachment option for atmospheric introduction port is not available.

APS

Compact mechanical pressure switch



Page 502

How to order	APS-[Piping port position/bore size/scale plate direction] [Lead wire length]-W-[Option]-P4	
	APS	
Port size	Rc1/8	
P4	●	

*1: The atmospheric pressure inlet port is M5.

*2: Fitting attachment option for atmospheric introduction port is not available.

Pneumatic auxiliary components

Clean air components

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

PPX 

Digital pressure sensor



Page 504

How to order	PPX-R10P-6M-J-P40/PPX-R10N-6M-J-P40	
	PPX	
Port size	Rc1/8 M5 female thread	
P4	Standard compliance	
P40	● Product is limited to the above model numbers	


*1: Bracket mounting is not possible for P40.

*2: P40 is compatible only with PPX-R10P-6M-J-P40/PPX-R10N-6M-J-P40.

*3: P40 Connector must be ordered separately. PPX-C2-FL401967-P40

FSM3

Compact flow rate sensor (RAPIFLOW)



Page 508

How to order	FSM3-[Display][Flow rate range] [Flow direction][Body material/applicable fluids][Port size][Piping specifications][Output specifications] [Unit specifications][Valve option]-[Lead wire][Mounting attachments] [Included documents]- [Clean-room specifications]	
	FSM3	
P4	Standard compliance	

*1: Stainless steel body is P4 compatible as standard.

*2: Resin body and products with needle valve are not P4 compatible.

V3301

Slow start valve



Page 520

How to order	V3301-[Bore size]-W-FL □	
	V3301	
Port size	Rc1/4 to Rc1/2	
P4	▲	
P40	▲	

Note: Only LS is available for electrical connection.

V3000/V3010/V6010

Residual pressure exhaust valve



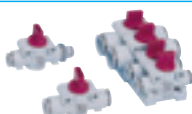
Page 521

How to order	V3000/V3010/V6010-[Bore size]-W-[Option]P4 □- [Attachment]	
	V3000/V3010	V6010
Port size	Rc1/4 to Rc1/2	Rc3/4, Rc1
P4	●	●
P40	▲	▲

*1: For P40, zinc plating is used in the exhaust air flow path part.

2QV

Quick valve



Page 523

How to order	2QV-[Bore size]-P4	
	2QV	
Port size	ø4, ø6, ø8, ø10, ø12	
P4	●	

SNS

Residual pressure exhaust valve with spool position detection



Page 524


How to order	SNS-[Station No.]-[Bore size]-[Option]-3	
	SNS	
Port size	Rc3/8, Rc1/2	
P4	Standard compliance	

Products certified for safety standard ISO13849-1

Speed controller

SCL2/SCD2

Speed controller Line type



Page 528

How to order	SCL2-[Body size]-[Compatible tube O.D.]-P4		* Needle valve is not available now.
	SCL2/SCD2		
Port size	ø4, ø6, ø8, ø10		
P4	●		

Note: Only ● part of the table below is supported.

		Body size			
		04	06	08	10
Compatible tube O.D.	H44	●			
	H66		●		
	H88			●	
	H1010				●

Pneumatic auxiliary components

Speed controller

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

SC3W

Speed controller, elbow



Page 530

How to order	SC3W-[Port size]- [Compatible tube O.D.]-[Option]-P4	
	SC3W	
Port size	M3, M5, R1/8, 1/4, 3/8, 1/2	
P4	●	

*1: The dimensions of pipe size M5 product is different from the standard SC3W.

*2: Compatible tube O.D. 3 (ø3, 2) is not available.

*3: Option is meter-in only.

DSC

Speed controller with adjusting dial



Page 532

How to order	DSC-[Port size]- [Compatible tube O.D.]- [Control method][Flow rate]-P4	
Standard	DSC-[Port size]- [Compatible tube O.D.]- [Control method][Flow rate]-P4	
Compact	DSC-C-[Port size]- [Compatible tube O.D.]- [Control method][Flow rate]-P4	
	DSC	DSC-C
Port size	M5, R1/8, 1/4, 3/8, 1/2	M5, R1/8
P4	●	▲

SC3F/SCLF

Speed controller
Polypropylene resin

Page 535

How to order	SC3F/SCLF-[Piping size]-[Compatible tube O.D.]-[Option]-P4	
	SC3F	SCLF
Port size	M3, M5, R1/8, R1/4, R3/8, R1/2	ø4, ø6, ø8, ø10, ø12
P4	●	●

Fitting

FTS4-FPL

Miniature fitting



Page 537

How to order	FTS4-M3-P4, FPL-M5-P4	
	FTS4	FPL
Port size	M3	M5
P4	▲	▲

Note: M3 gasket dimensions are different from the standard dimensions.

ZW

Fitting (stainless steel)



Page 538

How to order	ZW-[Shape][Compatible tube O.D.]- [Piping size] -P4	
	ZW	
Port size	ø4, ø6, ø8, ø10, ø12	
P4	●	

ZSF

Fitting (polypropylene resin)



Page 545

How to order	ZSF-[Shape][Compatible tube O.D.]- [Piping size] -P4	
	ZSF	
Port size	ø4, ø6, ø8, ø10, ø12	
P4	●	

Auxiliary valve

QEL

Quick exhaust valve inline type



Page 546

How to order	QEL-[Tube O.D.]-P4	
	QEL	
Port size	ø4, ø6	
P4	▲	

*1: Applicable only for type with exhaust port fitting.

Pneumatic auxiliary components

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

Auxiliary valve

QEV2

Quick exhaust valve



Page 548

How to order	QEV2-[Port size]- [Option][Accessory]
	QEV2
Port size	Rc1/8 to 1
P4	Standard compliance

SHV2

Shuttle valve



Page 550

How to order	SHV2-[Port size]- [Option][Accessory]
	SHV2
Port size	Rc1/8 to 1
P4	Standard compliance

Note: Select a fluoro rubber specification

CHV2

Check valve



Page 552

How to order	CHV2-[Port size]-[Flow rate] -[Option][Accessory]
	CHV2
Port size	Rc1/8 to 1/1/2
P4	Standard compliance

Note: Select a fluoro rubber specification

Silencer

SMW2

Metering valve with silencer



Page 553

How to order	SMW2-[Port size]
	SMW2
Port size	R1/8, 1/4
P4	Standard compliance

FA

Exhaust cleaner



Page 554

How to order	FA [Series classification]31-[Port size]- [Option]
	FA
Port size	Rc3/8 to 2
P4	Standard compliance

Tube

UP/F/U/NU/KX/SR2

Tube



Page 556

How to order	Tube-[Size]-[Option]
	UP/F/U/NU/KX/SR2
O.D.	ø1.8, ø3.2, ø4, ø6, ø8, ø10, ø12, ø15
P4	Standard compliance

ET

Fluoro resin tube



Page 560

How to order	ET-[Size]- [Option]
	ET
O.D.	ø4, ø6, ø8, ø10, ø12
P4	Standard compliance

Pneumatic auxiliary components

Tube

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

PFH/S

Polyolefin tube



Page 561

How to order	PF[type]- [Size]-[Option]-P4
	PFH/S
O.D.	ø4, ø6, ø8, ø10, ø12
P4	●

Gas generator

NS

Nitrogen Gas Extraction Unit



Page 564

How to order	NS-[Body size][Membrane unit size][Number of units][Bore size][Option] [Installation direction]-P4
Port size	Rc3/8,Rc1
P4	▲

*1: Applicable only for common exhaust.

Fluid control components

Fluid control components

AB3/AB4-Z GAB3/GAB4-Z

General purpose valve for dry air



Page 568

How to order	AB [Model No.]- [Port size]- [Orifice size]- [Body material/sealant combination] [Coil] [Option]ZP4□- [Voltage]
Single unit	AB [Model No.]- [Port size]- [Orifice size]- [Body material/sealant combination] [Coil] [Option]ZP4□- [Voltage]
Manifold	GAB [Model No.][Thread]- [Orifice size]- [Station No.]- [Body material/sealant combination] [Coil] [Option]ZP4□- [Voltage]
	AB3/AB4-Z GAB3/GAB4-Z
Classification	Direct acting 2-port valve for dry air
Body material	Stainless steel
P4	●
P40	●

*1: Body material Select from stainless steel products.

*2: Body material/Seal combination code M only.

*3: Pipe material is SUS316.

AG3/AG4-Z GAG3/GAG4-Z

General purpose valve for dry air



Page 572

How to order	AG [Model No.][Port size]- [Orifice size]- [Body material/sealant combination] [Coil] [Option]ZP4□- [Voltage]
Single unit	AG [Model No.][Port size]- [Orifice size]- [Body material/sealant combination] [Coil] [Option]ZP4□- [Voltage]
Manifold	GAG [Model No.][NO port size]- [Orifice size]- [Station No.]- [Body material/sealant combination] [Coil] [Option]ZP4□- [Voltage]
	AG3/AG4-Z GAG3/GAG4-Z
Classification	Direct acting 3-port valve for dry air
Body material	Stainless steel
P4	●
P40	●

*1: Body material Select from stainless steel products.

*2: Body material/Seal combination code M only.

*3: Pipe material is SUS316.

ADK11-Z

General purpose valve for dry air



Page 578

How to order	ADK11-[Port size]- [Body material/sealant combination] [Coil] [Option]ZP4□- [Voltage]
	ADK11-Z
Classification	Pilot kick 2-port valve for dry air
Body material	Stainless steel
P4	●
P40	●

*1: Body material Select from stainless steel products.

*2: Body material/Seal combination code M only.

*3: Pipe material is SUS316.

EXA

Pilot operated 2-port solenoid valve for air



Page 580

How to order	EXA-[Port size]- [Sealant material][Coil][Option]-[Voltage]
	EXA
Port size	Rc1/4,3/8,G1/4,3/8,1/4NPT,3/8NPT
P4	Standard compliance

Fluid control components

Fluid control components

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

CHB

Air operated 2-port ball valve



Page 582

How to order	CHB-[Port size]- [Body material]-P4	
	CHB-N	
Port size	Rc3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	
P4	●	

Note: Body material code N only.

CHG

Air operated 3-port ball valve



Page 584

How to order	CHG-[Port size]- [Body material]-P4	
	CHG-N	
Port size	Rc1/2, 3/4, 1, 1 1/4, 1 1/2, 2	
P4	●	

Note: Body material code N only.

SAB/SVB

Air operated 2-port valve



Page 586

How to order	SAB [Actuation][Working fluid]- [Port size][Thread/flange]-[Body/sealant combination][Other options]-[Assembly direction]-P4	
	SVB [Actuation][Working fluid]- [Port size][Thread/flange]-[Body/sealant combination][Coil][Other options]-[Assembly direction]- [Voltage]-P4	
	SAB	SVB
Port size	Rc1/4 to Rc2, 32 flange, 40 flange, 50 flange	Rc1/4 to Rc2, 32 flange, 40 flange, 50 flange
P4	●	▲

NAB/GNAB

Air operated 2-port valve



Page 596

How to order		
Single unit	NAB [Actuation][Working fluid]- [Port size]- [Cylinder cover/body/sealant combination] [Option]-P4	
Manifold	GNAB [Actuation][Working fluid]- [Air supply category]- [Manifold station No.]- [Cylinder cover/body/sealant combination]-P4	
	NAB/GNAB	
Port size	Rc1/4, 3/8	
P4	●	

NAD/GNAD

Diaphragm cylinder valve



Page 600

How to order		
Single unit	NAD [Actuation][Working fluid]- [Port size]- [Body/sealant combination] [Option]-P4	
Manifold	GNAD [Actuation][Working fluid]- [Air supply category]- [Manifold station No.]- [Cylinder cover/sub-plate/body/sealant combination]-P4	
	NAD	
Port size	Rc3/8	
P4	●	

LAD

Diaphragm cylinder valve



Page 602

How to order	LAD [Actuation]-[Port size]- [Material combination] [Option]-P4	
	LAD	
Port size	Rc3/8, 1/2, 3/4, 1	
P4	●	

NP13/NP14 

3-port solenoid valve for air



Page 604

How to order	NP1 [Actuation]- [Port size]-1[Coil housing][Option]-[Voltage]-P4	
	NP13/NP14	
Bore size	Rc3/8 to Rc2	
P4	●	

*1: Coil option is 2G, 2H, 2GS, 2HS only.

*2: Voltage: 24 VDC only.

*3: Rc1 1/4 to Rc2 is a made-to-order product.

Fluid control components

Fluid control components

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

NAP11

Air operated 3-port valve



Page 606

How to order	NAP11-[port size]- [Body/sealant combination] -P4				
	NAP11				
Port size	Rc3/8 to 2				
P4	●				

NVP11



Air operated 3-port valve with solenoid valve



Page 607

How to order	NVP11-[port size]- [Body/sealant combination] [Coil housing] [Option]]-[Voltage]-P4				
	NVP11				
Port size	Rc3/8 to 2				
P4	●				

*1: Coil option is 2G, 2H, 2GS, 2HS only.

*2: Voltage: 24 VDC only.

*3: Rc1 1/4 to Rc2 is a made-to-order product.

SNP

3-port solenoid valve with spool position detection



Page 608

How to order	SNP-[Station No.]- [Port size]- [Sealant material][Coil option][Limit switch][Bracket][Silencer]-[Voltage]-P4				
	SNP				
Port size	Rc3/8, 1/2, 3/4				
P4	●				

HVB

Solenoid valve for high vacuum



Page 612

How to order	HVB2 to 5 Series: HVB[Series size]12-[Connection method]- [Orifice size]- [Coil option] [Mounting plate]- [Voltage]	
	HVB6, 7 Series:HVB[Series size]12-[Connection method]- [OrificeDiameter][Thermal class]-[Option]-[Voltage]	
	HVB2 to 5	HVB6, 7
P4	Standard compliance	

*1: Fluorine grease is used.

Wet Fine system

AMD**3R

Air operated valve for chemical liquids



Page 616

How to order	AMD[Size][Actuation]3R-[Connection method]- [Actuator option] [Body option] [Operating port direction][Mounting method]				
	AMDZ*3R	AMD0*3R	AMD3*3R	AMD4*3R	AMD5*3R
Connection	1/8", 1/4"	1/4", 3/8"	3/8", 1/2"	3/4"	1 "
P4	Standard compliance				

*1:AMDZ*3R, 0*3R, 4*3R, and 5*3R specifications are described in Wet Fine System/High Purity Chemical Liquid System (Catalog No. CB-031A).

Dry Fine system

AVB

Air operated valve for high vacuum



Page 618

How to order	AVB**7-X****,AVB**3-X****	
	AVB**7	AVB**3
Port size	NW16, NW25, NW40, NW50, NW63	NW25, NW40, NW50, NW80
P4	▲	

Note: Use after checking the compatibility of the working fluid with the gas-contacting materials.

Electric actuator

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details □: Not applicable

EBS-G
Electric actuator



Page 622

How to order	EBS-[Body size] G[Motor mounting direction]- [Screw lead] [Stroke length] [Brake] [Encoder] N-C [Relay cable] - [Anti-rust treatment][Fitting]-P4
	EBS-G
P4	●

EBR-G
Electric actuator



Page 624

How to order	EBR-[Body size] G[Motor mounting direction]- [Mounting]- [Screw lead] [Stroke length] [Brake] [Encoder] N-C [Relay cable] - [Fitting]-P4
	EBR-G
P4	●

EBS-L
Electric actuator



Page 626

How to order	EBS-[Body size][Motor][Motor mounting direction]-[Screw lead][Stroke length][Brake] NN-[Mounted motor specification] [Motor size][Origin sensor][Limit sensor]-[Anti-rust treatment]-P4
	EBS-L
P4	●

Note: The attached origin sensor and limit sensor do not have material restrictions on the components.

EBR-L
Electric actuator



Page 630

How to order	EBR-[Body size][Motor][Motor mounting direction]-00-[Screw lead][Stroke length][Brake]NN-[Mounted motor specification][Motor size][Origin sensor][Limit sensor]-P4
	EBR-L
P4	●

Note: The attached origin sensor and limit sensor do not have material restrictions on the components.

ETS
Electric actuator



Page 634

How to order	ETS-[Body size]-[Screw lead][Stroke length]-[Motor mounting direction][Mounted motor specification][Motor size][Brake] [Origin sensor][Limit sensor][Grease nipple][Positioning pin hole]- [Magnet slider method]- [Anti-rust treatment]-P4
	ETS
P4	●

Note: The attached origin sensor and limit sensor do not have material restrictions on the components.

ECS
Electric actuator



Page 638

How to order	ECS-[Body size]-[Screw lead][Stroke length]-[Motor mounting direction][Mounted motor specification][Motor size][Brake] [Origin sensor][Limit sensor][Grease nipple][Positioning pin hole]- [Magnet slider method]- [Anti-rust treatment]-P4
	ECS
P4	●

Note: The attached origin sensor and limit sensor do not have material restrictions on the components.

EKS
Electric actuator



Page 642

How to order	EKS-[Body size][Motor][Motor mounting direction]-[Screw lead][Stroke length][Brake] NN-[Mounted motor specification] [Motor size] [Motor shaft fixing method][Origin sensor] [Limit sensor] [Anti-rust treatment]N-P4
	EKS
P4	●
P40	●

Note: The attached origin sensor and limit sensor do not have material restrictions on the components.