

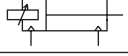
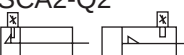
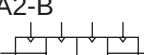
Series variation



Medium bore size cylinder SCA2 Series

* For the environment-resistant/
valve, refer to pages 576 and 613.

SCP*3
CMK2
CMA2
SCM
SCG
SCA2
SCS2
CKV2
CAV2/ COVPIN2
SSD2
SSG
SSD
CAT
MDC2
MVC
SMG
MSD/ MSDG
FC*
STK
SRL3
SRG3
SRM3
SRT3
MRL2
MRG2
SM-25
ShkAbs
FJ
FK
Spd Contr
Ending

Variation	Model No. JIS symbol	Bore size (mm)	Standard stroke (mm)												Min. stroke (mm)	Max. stroke (mm)	Available stroke (mm)	Custom stroke (per mm)	Basic		
			25	50	75	100	150	200	250	300	350	400	450	500							
																			00		
Double acting		ø40/ø50	●	●	●	●	●	●	●	●	●	●	●	●	1	600	1600 2000	1	●		
		ø63																			
		ø80	●	●	●	●	●	●	●	●	●	●	●	●			700		2500		●
		ø100	●	●	●	●	●	●	●	●	●	●	●	●			800				●
Double acting/stroke adjustable (push)		ø40 to ø63	●	●	●	●	●	●	●	●	●	●	●	●	25	600	600	1	●		
		ø80	●	●	●	●	●	●	●	●	●	●	●	●		700	700		●		
		ø100	●	●	●	●	●	●	●	●	●	●	●	●		800	800		●		
Double acting/stroke adjustable (pull)		ø40 to ø63	●	●	●	●	●	●	●	●	●	●	●	●	25	600	600	1	●		
		ø80	●	●	●	●	●	●	●	●	●	●	●	●		700	700		●		
		ø100	●	●	●	●	●	●	●	●	●	●	●	●		800	800		●		
Double acting/heat resistant		ø40 to ø63	●	●	●	●	●	●	●	●	●	●	●	●	1	600	600	1	●		
		ø80	●	●	●	●	●	●	●	●	●	●	●	●		700	700		●		
		ø100	●	●	●	●	●	●	●	●	●	●	●	●		800	800		●		
Double acting/position locking		ø40 to ø63	●	●	●	●	●	●	●	●	●	●	●	●	5	600	600	1	●		
		ø80	●	●	●	●	●	●	●	●	●	●	●	●		700	700		●		
		ø100	●	●	●	●	●	●	●	●	●	●	●	●		800	800		●		
Double acting/low friction (low pressure (≤ 0.2 MPa))		ø40 to ø63	●	●	●	●	●	●	●	●	●	●	●	●	1	600	600	1	●		
		ø80	●	●	●	●	●	●	●	●	●	●	●	●		700	700		●		
		ø100	●	●	●	●	●	●	●	●	●	●	●	●		800	800		●		
Double acting/low friction (constant friction when pressurized)		40 to ø63	●	●	●	●	●	●	●	●	●	●	●	●	1	600	600	1	●		
		ø80	●	●	●	●	●	●	●	●	●	●	●	●		700	700		●		
		ø100	●	●	●	●	●	●	●	●	●	●	●	●		800	800		●		
Double acting/double rod		ø40 to ø63	●	●	●	●	●	●	●	●	●	●	●	●	1	600	800	1	●		
		ø80	●	●	●	●	●	●	●	●	●	●	●	●		700					●
		ø100	●	●	●	●	●	●	●	●	●	●	●	●		800					●
Double acting/back to back		ø40 to ø63	●	●	●	●	●	●	●	●	●	●	●	●	1	600	600	1	●		
		ø80	●	●	●	●	●	●	●	●	●	●	●	●		700	700		●		
		ø100	●	●	●	●	●	●	●	●	●	●	●	●		800	800		●		
Double acting/2-stage		ø40 to ø63	●	●	●	●	●	●	●	●	●	●	●	●	2	600	600	1	●		
		ø80	●	●	●	●	●	●	●	●	●	●	●	●		700	700		●		
		ø100	●	●	●	●	●	●	●	●	●	●	●	●		800	800		●		
Double acting/steel tube		ø40	●	●	●	●	●	●	●	●	●	●	●	●	1	600	1600	1	●		
		ø50	●	●	●	●	●	●	●	●	●	●	●	●							
		ø63	●	●	●	●	●	●	●	●	●	●	●	●			1900		●		
		ø80	●	●	●	●	●	●	●	●	●	●	●	●			700				●
		ø100	●	●	●	●	●	●	●	●	●	●	●	1	800				●		
Double acting/low hydraulic		ø40 to ø63	●	●	●	●	●	●	●	●	●	●	●			●	600	600	1	●	
		ø80	●	●	●	●	●	●	●	●	●	●	●			●	700	700		●	
		ø100	●	●	●	●	●	●	●	●	●	●	●			●	800	800		●	

●: Standard, ◎: Option, ○: Made to order, ■: Not available

	Mounting												Cushion				Option						Accessory						Switch	Page	
	Axial foot	Rod side flange	Head side flange	Head side special flange	Eye bracket	Clevis bracket	Intermediate trunnion	Rod side trunnion	Head side trunnion	Intermediate supporting hole trunnion	Rod side hole trunnion	Head side hole trunnion	Without cushion	Both sides cushioned	Rod side cushioned	Head side cushioned	Bellows (100°C)	Bellows (250°C)	Piston rod material (stainless steel)	Cushion needle position S	Cushion needle position T	Copper and PTFE free	Rod eye	Rod clevis	Eye bracket	Clevis bracket	Eye bracket	Trunnion No. 2 bracket			
	LB	FA	FB	FC	CA	CB	TC	TA	TB	TF	TD	TE	N	B	R	H	J	L	M	S	T	P6	I	Y	B1	B2	B3	B4			
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	450
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	472
	●	●	●				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○				○	○	○	480
	●	●					●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○				○	○	○	488
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		○	○	○	○		○	○	○	○	○	○	○	○	494
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		○	○	○	○		○	○	○	○	○	○	○	○	526
	●	●	●	●	●	●	●	●	●	●	●	●	●						○			○	○	○	○	○	○	○	○	○	534
	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○				○	○	540
	●	●	●				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○				○	○	○	548
	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	556
	●	●	●	●	●	●	●	●	●				●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	564
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	568

Note: ø40 is not available for hole trunnion (TF, TD and TE).

Note: TA mounting with R position locking mechanism is not available.

Note: TB mounting with H position locking mechanism is not available.

SCP*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/
COVP/IN2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/
MSDG

FC*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd
Contr

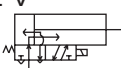
Ending

Series variation



Medium bore size cylinder SCA2 Series

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Spd Contr
Ending

Variation	Model No. JIS symbol	Bore size (mm)	Standard stroke (mm)												Min. stroke (mm)	Max. stroke (mm)	Available stroke (mm)	Custom stroke (per mm)	Basic
			25	50	75	100	150	200	250	300	350	400	450	500					
Double acting/ rubber scraper	SCA2-G 	ø40												1	600	1600	1	●	
		ø50	●	●	●	●	●	●	●	●	●	●	●			2000			
		ø63																	
		ø80	●	●	●	●	●	●	●	●	●	●	●			700			
		ø100	●	●	●	●	●	●	●	●	●	●	●			800			
Double acting/ coolant proof	SCA2-G2/G3 	ø40												1	600	1600	1	●	
		ø50	●	●	●	●	●	●	●	●	●	●	●			2000			
		ø63																	
		ø80	●	●	●	●	●	●	●	●	●	●	●			700			
		ø100	●	●	●	●	●	●	●	●	●	●	●			800			
Double acting/ coil scraper Double acting/ anti-spatter adherence	SCA2-G1/G4 	ø40												1	600	1600	1	●	
		ø50	●	●	●	●	●	●	●	●	●	●	●			2000			
		ø63																	
		ø80	●	●	●	●	●	●	●	●	●	●	●			700			
		ø100	●	●	●	●	●	●	●	●	●	●	●			800			
Double acting/ with valve	SCA2-V 	ø40 to ø63		●	●	●	●	●	●	●	●	●	●	50	600	600	1	●	
		ø80		●	●	●	●	●	●	●	●	●	●			700			
		ø100		●	●	●	●	●	●	●	●	●	●			800			

●: Standard, ◎: Option, ○: Made to order, ■: Not available

	Mounting												Cushion				Option						Accessory						Switch	Page	
	Axial foot	Rod side flange	Head side flange	Head side special flange	Eye bracket	Clevis bracket	Intermediate trunnion	Rod side trunnion	Head side trunnion	Intermediate supporting hole trunnion	Rod side hole trunnion	Head side hole trunnion	Without cushion	Both sides cushioned	Rod side cushioned	Head side cushioned	Bellows (100°C)	Bellows (250°C)	Piston rod material (stainless steel)	Cushion needle position S	Cushion needle position T	Copper and PTFE free	Rod eye	Rod clevis	Eye bracket	Clevis bracket	Eye bracket	Trunnion No. 2 bracket			
	LB	FA	FB	FC	CA	CB	TC	TA	TB	TF	TD	TE	N	B	R	H	J	L	M	S	T	P6	I	Y	B1	B2	B3	B4			
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	◎	◎	◎	○	◎	◎	◎	◎	◎	◎	◎	◎	◎
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Note: ø40 is not available for hole trunnion (TF, TD and TE).

SCP*3
CMK2
CMA2
SCM
SCG
SCA2
SCS2
CKV2
CAV2/ COVP/IN2
SSD2
SSG
SSD
CAT
MDC2
MVC
SMG
MSD/ MSDG
FC*
STK
SRL3
SRG3
SRM3
SRT3
MRL2
MRG2
SM-25
ShkAbs
FJ
FK
Spd Contr
Ending

Variation and option combination selection table

- : Standard
 ◎ : Option
 ○ : Available (made-to-order product)
 △ : Available depending on conditions (Contact CKD.)
 x : Not available
 H : Head side position locking only (made-to-order product)
 R : Rod side position locking only (made-to-order product)

Category		Category	Variation																				Port thread	Option							
			Double acting basic	Double acting double rod	Back to back	Double piston	Adjustable stroke Push	Adjustable stroke Pull	Position locking	With valve	Cylinder tube Steel pipe	Low hydraulic	Heat resistance (120°C)	Low friction (at low pressure)	Low friction (when pressurized)	Rubber scraper	Coil scraper	Coolant proof scraper (NBR)	Coolant proof scraper (FKM)	Anti-spatter adherence	With cylinder switch	Strong magnetic field proof/cylinder switch	Heat resistant with cylinder switch	NPT	G	Polyolefin with bellows	Silicone rubber with bellows	Piston rod material (stainless steel)	Cushion needle position specification	Copper and PTFE free	Specify piston rod end form
		Code	None	D	B	W	P	R	Q2	V	K	H	T	O	U	G	G1	G2	G3	G4	None	L2	L2T	N	G	J	L	M	R, S, T	P6	N**
Variation	Double acting basic	Blank																		●				○		*7	*7	◎	◎	◎	◎
	Double acting double rod	D		x	*1	x	x	○	△	○	△	△	*2	*2	○	○	○	○	○	○	●				○	○	◎	◎	◎	◎	◎
	Back to back	B				x	x	x	○	△	○	○	○	△	○	○	○	○	○	○	●				○	○	◎	◎	◎	◎	◎
	Double piston	W					x	x	x	*3	○	○	○	*4	*4	○	○	○	△	△	●				○	○	◎	◎	◎	◎	◎
	Adjustable stroke Push	P						x	H	○	○	△	△	*2	*2	△	△	△	△	△	●				○	○	◎	◎	◎	◎	◎
	Adjustable stroke Pull	R							R	○	○	x	△	○	○	△	○	○	○	○	●				○	○	◎	◎	◎	◎	◎
	Position locking	Q2							x		○	x	x	△	x	△	△	△	△	△	●	○	x	○	○	△	△	◎	◎	◎	◎
	With valve	V								○	x	x	x	x	x	○	○	x	x	○	●	○	x	○	○	◎	◎	◎	◎	◎	x
	Cylinder tube Steel pipe	K									○	○	○	△	○	○	x	x	○	x	x	x	x	○	○	◎	◎	◎	◎	◎	◎
	Low hydraulic	H										x	x	x	△	x	x	x	x	x	●	○	x	○	○	◎	◎	◎	◎	◎	◎
	Heat resistance (120°C)	T											x	x	x	○	x	x	x	x	x	x	○	○	x	◎	◎	◎	◎	◎	◎
	Low friction (low pressure→low friction)	O												x	x	x	x	x	x	x	●	○	x	○	○	*5	*5	◎	◎	◎	◎
	Low friction (pressurized→constant friction)	U													x	x	x	x	x	x	●	○	x	○	○	x	x	◎	◎	◎	x
Rubber scraper	G																			●	○	x	○	○	○	◎	◎	◎	◎	◎	
Coil scraper	G1																			●	○	x	○	○	○	x	x	◎	◎	x	
Coolant proof scraper (NBR)	G2																			●	○	x	○	○	○	x	x	◎	◎	◎	
Coolant proof scraper (FKM)	G3																			●	○	x	○	○	○	x	x	◎	◎	◎	
Anti-spatter adherence	G4																			●	○	x	○	○	○	x	x	◎	◎	x	
With cylinder switch	Blank																				x	x	○	○	○	◎	◎	◎	◎	◎	
Strong magnetic field proof/cylinder switch	L2																				x	○	○	○	○	◎	◎	◎	◎	◎	
Heat resistant with cylinder switch	L2T																					○	○	○	○	◎	◎	◎	◎	◎	
Port thread	NPT	N																							◎	◎	◎	◎	◎	◎	
	G	G																							◎	◎	◎	◎	◎	◎	
Option	Polyolefin with bellows	J																							◎	◎	◎	◎	◎	◎	
	Silicone rubber with bellows	L																							◎	◎	◎	◎	◎	◎	
	Piston rod material (stainless steel)	M																							◎	◎	◎	◎	◎	◎	
	Cushion needle position specification	R, S, T																							◎	◎	◎	◎	◎	◎	
	Copper and PTFE free	P6																							◎	◎	◎	◎	◎	◎	
Accessory	Specify piston rod end form	N**																							◎	◎	◎	◎	◎	◎	
Accessory	Cylinder switch	Separate list	◎	◎	◎	◎	◎	◎	◎	x		x	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	
	Rod eye	I	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	△	
	Rod clevis	Y	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	△	
	Eye bracket	B1	◎	x	x	◎	x	x	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	
	Clevis bracket	B2	◎	x	x	◎	x	x	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	
	Eye bracket	B3	◎	x	x	◎	x	x	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	
	Trunnion bracket	B4	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎		

*1 : S2 side only

*2 : Increasing rod sealant and bearings leads to a larger resistance and thus causes a change in the min. starting pressure.

*3 : The valve installation position differs from that of the standard.

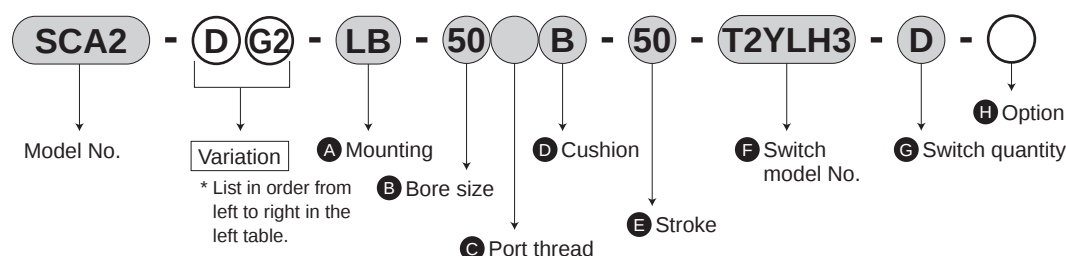
*4 : The min. starting pressure on the S2 side will be larger than that of the standard value of the low friction. Contact CKD for details.

*5 : The min. starting pressure is larger due to the resistance of expansion and contraction of the bellows. Contact CKD for details.

*6 : For P7 and P71 New Fine, refer to "Components for clean room specifications" (catalog No. CB-033SA). For G2 and G3 coolant proof scraper, refer to "Guide of pneumatic devices compatible with coolants" (CC-N-375A).

*7 : The max. stroke available for ø63 to ø100 bore size models with bellows is 2000 mm.

[How to order]



Model No.: Medium bore size cylinder

- Variation : Double rod/coolant proof scraper
- A Mounting : Axial foot
- B Bore size : ø50 mm
- C Port thread : Rc thread
- D Cushion : Both sides cushioned
- E Stroke : 50 mm
- F Switch model No. : Coolant proof switch, 3 m lead wire
- G Switch quantity : 2
- H Option : None

*1: The back to back includes two cylinders. Specify the model No. as below when ordering variation.

For S1 variations only, insert the variation code before the stroke of S1.

(Example) SCA2-B-40-O100-150: Only S1 is the low friction.

For S2 variations only, insert the variation code before the stroke of S2.

(Example) SCA2-B-40-100-O150: Only S2 is the low friction.

When ordering the same variation for S1 and S2, insert the variation code before the bore size.

(Example) SCA2-BO-40-100-150: Both S1 and S2 are the low friction.

SCP*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/
COVP/IN2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/
MSDG

FC*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd
Contr

Ending