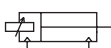


Series variation



Medium bore size cylinder CMK2 Series

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)	Custom stroke (per mm)			
														Basic	Axial foot	Two sides
			00	LB												
Double acting	CMK2 	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	5	750	1	●	●	
Single acting/ push	CMK2-S 	ø20/ø25	●	●	●	●	●				5	300	1	●	●	
		ø32/ø40	●	●	●	●	●	●				300		●	●	
Single acting/pull	CMK2-SR 	ø20/ø25	●	●	●	●	●				5	300	1	●	●	
		ø32/ø40	●	●	●	●	●	●				300		●	●	
Double acting/ stroke adjustable (push)	CMK2-P 	ø20/ø25	●	●	●	●	●	●	●	●	25	450	1	●	●	
		ø32	●	●	●	●	●	●	●	●		430		●	●	
		ø40	●	●	●	●	●	●	●	●		400		●	●	
Double acting/stroke adjustable (pull)	CMK2-R 	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	25	750	1	●	●	
Double acting/heat resistant	CMK2-T 	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	5	750	1	●	●	
Double acting/rubber-air cushioned	CMK2-*C	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	5	750	1	●	●	
Double acting/air cushioned	CMK2-C 	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	5	750	1	●	●	
Double acting/position locking	CMK2-Q 	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	5	750	1	●	●	
Double acting/fine speed	CMK2-F 	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	5	750	1	●	●	
Double acting/ double rod	CMK2-D 	ø20/ø25	●	●	●	●	●	●	●	●	5	500	1	●	●	
		ø32	●	●	●	●	●	●	●	●		480		●	●	
		ø40	●	●	●	●	●	●	●	●		450		●	●	
Double acting/back to back	CMK2-B 	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	5	750	1	●	●	
Double acting/rotation-stop	CMK2-M 	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	5	750	1	●	●	
Double acting built-in speed controller	CMK2-Z	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	5	750	1	●	●	
Double acting/low hydraulic	CMK2-H 	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	5	750	1	●	●	
Double acting/coolant proof	CMK2-G2/G3 	ø20/ø25/ø32/ø40	●	●	●	●	●	●	●	●	5	750	1	●	●	
Double acting/exterior 100% stainless steel/water resistance	CMK2- JG2/JG3 	ø20/ø25/ø32/ø40	○	○	○	○	○	○	○	○	5	750	1	○	○	

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

Mounting										Option								Accessory			Switch	Page
	Axial foot One side	Rod side flange	Head side flange	Eye bracket	Eye bracket integrated	Eye bracket bush pressfit	Clevis bracket	Rod side trunnion	Head side trunnion	Bellows (100°C)	Bellows (250°C)	With push-in fitting, straight	With push-in fitting, elbow	Piston rod material change	Boss cutoff	Food-grade (NSF H1) grease	Copper and PTFE free	Rod eye	Rod clevis	Clevis bracket		
	LS	FA	FB	CA	CC	CC1	CB	TA	TB	J	L	F	FE	M	V	FP1	P6	I	Y	B2		
	●	●	●	●	●	●	●	●	●	◎	◎	◎	◎	◎	◎	■	◎	◎	◎	◎	◎	86
	●	●	●	●	●	●	●	●	●	◎	◎	◎	◎	◎	◎	■	◎	◎	◎	◎	◎	100
	●	●	●	●	●	●	●	●	●	◎	◎	◎	◎	◎	◎	■	◎	◎	◎	◎	◎	
	●	●	●	●	●	●	●	●	●	◎	◎	◎	◎	◎	◎	■	◎	◎	◎	◎	◎	106
	●	●	●	●	●	●	●	●	●	◎	◎	◎	◎	◎	◎	■	◎	◎	◎	◎	◎	
	●	●	●	■	■	■	■	●	●	◎	◎	◎	◎	◎	■	■	◎	◎	◎	◎	◎	112
	●	●	●	■	■	■	■	●	●	◎	◎	◎	◎	◎	■	■	◎	◎	◎	◎	◎	
	●	●	●	■	■	■	■	●	●	◎	◎	◎	◎	◎	■	■	◎	◎	◎	◎	◎	
	●	●	●	■	■	■	■	●	●	◎	◎	◎	◎	◎	■	■	◎	◎	◎	◎	◎	118
	●	●	●	●	●	●	●	●	●	■	◎	■	■	◎	◎	■	■	◎	◎	◎	■	124
	●	●	●	●	●	●	●	●	●	◎	◎	◎	◎	◎	◎	■	◎	◎	◎	◎	◎	128
	●	●	●	●	●	●	●	●	●	◎	◎	◎	◎	◎	◎	■	◎	◎	◎	◎	◎	136
	●	●	●	●	○ ^{*1}	○ ^{*1}	●	● ^{*2}	● ^{*1}	■	■	◎	◎	◎	○ ^{*1}	■	◎	◎	◎	◎	◎	142
	●	●	●	●	●	●	●	●	●	■	■	■	■	■	◎	■	■	◎	◎	◎	◎	148
	●	●	■	■	■	■	■	●	■	◎	◎	◎	◎	◎	■	■	◎	◎	◎	◎	◎	154
	●	●	■	■	■	■	■	●	■	◎	◎	◎	◎	◎	■	■	◎	◎	◎	◎	◎	
	●	●	■	■	■	■	■	●	■	◎	◎	◎	◎	◎	■	■	◎	◎	◎	◎	◎	
	■	●	■	■	■	■	■	■	■	◎	◎	◎	◎	◎	■	■	◎	◎	◎	◎	◎	160
	●	●	●	●	●	●	●	●	●	◎	◎	◎	◎	◎	◎	■	■	◎	◎	◎	◎	166
	●	●	●	●	●	○	●	●	●	◎	◎	◎	◎	◎	◎	■	◎	◎	◎	◎	◎	172
	●	●	●	●	●	●	●	●	●	◎	◎	■	■	◎	◎	■	◎	◎	◎	◎	◎	178
	●	●	●	●	●	●	●	●	●	■	■	○ ^{*3}	○ ^{*3}	■	■	■	■	◎	◎	◎	◎	182
	○	○	○	■	○	■	■	■	■	■	■	■	■	■	○	○	■	○	○	■	○	188

*1: Available for the rod-side position locking. *2: Available for the head-side position locking. *3: Available for G2.

SCP*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/COVP/N2

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

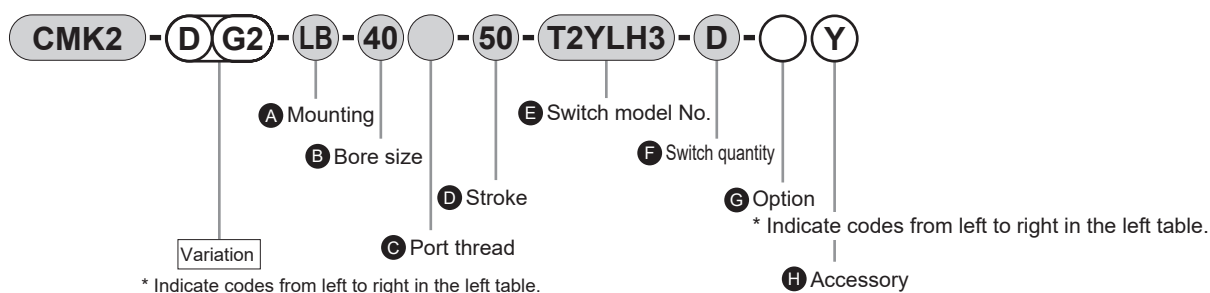
◎ : Option
 ○ : Available (made-to-order product)
 △ : Available depending on conditions (Contact CKD.)
 x : Not available

Category		Category	Variation																	Port thread	Cushion	Option										
			Double acting basic	Single acting push	Single acting pull	Double acting double rod	Back to back	Stroke adjustable (push)	Stroke adjustable (pull)	With position locking	Rotation-stop	With air cushion	With speed controller	Low hydraulic	Heat resistance (120°C)	Fine speed	Coolant proof scraper (NBR)	Coolant proof scraper (FKM)	Double acting/exterior 100% stainless steel/water resistant	NPT	G	Rubber-air cushioned	With bellows (polyolefin)	With bellows (silicone rubber)	With push-in fitting	Piston rod material stainless steel	Boss cutoff	Copper and PTFE free	With non-locking manual override	With locking manual override	Specify piston rod end form	
		Code	None	S	SR	D	B	P	R	Q	M	C	Z	H	T	F	G2	G3	JG2/3	N	G	C	J	L	F/FE	M	V	P6	M0	M1	N**	
Variation	Double acting basic	Blank		x	x																	◎	◎	◎	◎	◎	◎	◎	x	x	○	
	Single acting push	S			x	x	○	△	○	x	△	x	x	x	△	x	△	△	△	○	○	x	◎	◎	◎	◎	◎	◎	◎	x	x	○
	Single acting pull	SR				x	○	△	x	x	△	x	x	x	△	x	△	△	△	○	○	x	◎	◎	◎	◎	◎	◎	x	x	○	
	Double acting double rod	D					x	x	x	○	○	○	○	○	*4	○	○	○	△	○	○	○	◎	◎	◎	◎	x	◎	x	x	○	
	Back to back	B						x	x	*1	*2	○	○	○	○	○	○	○	△	○	○	○	◎	◎	◎	◎	x	◎	x	x	○	
	Stroke adjustable (push)	P							x	*11	○	x	○	○	○	*4	x	x	x	○	○	x	◎	◎	◎	◎	◎	x	◎	x	x	○
	Stroke adjustable (pull)	R								*8	○	x	x	x	○	○	○	○	x	○	○	x	◎	◎	◎	◎	x	◎	x	x	○	
	With position locking	Q									x	*3	x	x	x	x	x	x	x	○	○	x	△	△	◎	◎	*8	◎	◎	◎	◎	
	Rotation-stop	M										x	x	x	x	x	x	x	x	○	○	x	◎	◎	◎	*10	◎	△	x	x	○	
	With air cushion	C											x	x	x	*5	△	x	x	○	○	x	◎	◎	◎	◎	◎	◎	△	x	x	○
	With speed controller	Z												x	x	x	△	x	x	○	○	x	◎	◎	◎	◎	◎	○	x	x	○	
	Low hydraulic	H													x	x	△	x	x	○	○	x	◎	◎	x	◎	◎	◎	x	x	○	
	Heat resistance (120°C)	T														x	x	x	x	○	○	x	*6	◎	x	◎	◎	x	x	x	○	
	Fine speed	F															x	x	x	○	○	*5	*7	*7	x	◎	◎	x	x	x	○	
	Coolant proof scraper (NBR)	G2																x		○	○	○	x	x	○	*9	○	○	x	x	○	
	Coolant proof scraper (FKM)	G3																		○	○	x	x	x	x	*9	○	○	x	x	○	
	Double acting/exterior 100% stainless steel/water resistant	JG2/3																			△	△	△	x	x	x		○	x	x	x	○
	Port thread	NPT	N																			x	○	x	x	x	x	x	x	x	x	x
	Cushion	G	G																				○	x	x	x	x	x	x	x	x	x
Option	Rubber-air cushioned	C																					○	○	○	○	○	○	x	x	○	
	With bellows (polyolefin)	J																						x	○	○	○	○	○	○	○	
	With bellows (silicone rubber)	L																							○	○	○	○	○	○	○	
	With push-in fitting	F/FE																								○	○	○	○	○	○	
	Piston rod material stainless steel	M																									○	○	○	○	○	
	Boss cutoff	V																										○	*8	*8	○	
	Copper and PTFE free	P6																											◎	◎	◎	
Accessory	With non-locking manual override	M0																												x	○	
	With locking manual override	M1																													○	
	Specify piston rod end form	N**																														
	Cylinder switch	Separate list	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	x	◎	◎	◎		◎	◎		◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	
	Rod eye	I	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎		◎	◎		◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
Rod clevis	Y	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎		◎	◎		◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	
B2 bracket	B2	◎	◎	◎	x	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎		◎	◎		◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	

Caution

- *1 : Specify the cylinder to which the position locking mechanism is attached. Also specify whether to attach it to rod side or head side. (Provide a sketch)
- *2 : Specify the cylinder to which the rotation-stop mechanism is attached.
- *3 : Cushion can be attached to the cover side where the position locking mechanism is not attached. (Example: For CMK2-Q-32-ST-H, a cushion can be attached to the rod side.)
- *4 : The friction resistance will be higher than that of the standard low speed (or fine speed).
- *5 : The expected low speed performance cannot be obtained in the cushion area of the stroke end.
- *6 : Compatible with working temperatures of up to 100°C.
- *7 : The expected low speed performance may not be obtained due to bellows reaction force.
- *8 : Available for the rod side position locking only.
- *9 : G2 and G3 piston rod and nut are stainless steel (M) as standard. (M code is not required.)
- *10 : Piston rod material of the rotation-stop is stainless steel (M) as standard. (If M is selected, the rod nut material will also be stainless steel.)
- *11 : Available for the head side position locking only.

[Example of model No.]



Model No.: Double acting/standard

- Variation : Double rod/coolant proof scraper
- A Mounting : Two-sided foot
- B Bore size : ø40 mm
- C Port thread : Rc thread
- D Stroke : 50 mm
- E Switch model No. : Coolant proof switch, lead wire length 3 m
- F Switch quantity : 2
- G Option : None
- H Accessory : Rod clevis

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

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

(Example) CMK2-B-32-H25-50: S1 only is low hydraulic.

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

(Example) CMK2-B-32-25-H50: Only S2 is the low hydraulic.

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

(Example) CMK2-BH-32-25-50: Both S1 and S2 are low hydraulic.

SCP*3
CMK2
CMA2
SCM
SCG
SCA2
SCS2
CKV2
CAV2/ COVP/N2
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