

Small bore size cylinder Double acting/ Single rod

CMK2 Series

■ Bore size:ø20/ø25/ø32/ø40

JIS symbol Double acting cylinder single





Specifications

Specifications							
Descriptions	CMK2						
Bore size mm	ø20	ø20 ø25 ø32					
Actuation		Double	acting				
Working fluid		Compre	ssed air				
Max. working pressure MPa		1.	.0				
Min. working pressure MPa	0.1						
Proof pressure MPa	1.6						
Ambient temperature °C	-10 to 60 (no freezing)						
Port size	Rc1/8						
Stroke tolerance mm	+2.0 (up to 200), +2.4 (over 200)						
Working piston speed mm/s	50 to 500						
Cushion	Rubber cushion						
Lubrication	Not available						
Allowable absorbed energy J	0.166	0.308	0.424	0.639			

Stroke

Bore size(mm)	Standard Stroke (mm)	Max. Stroke (mm)	Min. Stroke (mm)
ø20	- 25/50/75/100/		
ø25	150/200/250/	750	_
ø32		750	5
ø40	300		

^{*1:} The custom Stroke is available in 1mm increments.

How to order switch mounting bracket

P4	CMK2-T-[Bore size]
P40	CMK2-T-[Bore size]-P40

How to order mounting bracket P4

Bore size (mm) Mounting bracket	ø20	ø25	ø32	ø40
Axial foot (LB/LS)	M1-LB-20	M1-LB-30	M1-LB-30	M1-LB-30
Flange (FA/FB)	M1-FA-20	M1-FA-30	M1-FA-30	M1-FA-30
Trunnion (TA/TB)	M1-TA-20	M1-TA-30	M1-TA-30	M1-TA-40
Eye bracket (CA)	M1-CA-20	M1-CA-30	M1-CA-30	M1-CA-30
Clevis bracket (CB)	M1-CB-20	M1-CB-30	M1-CB-30	M1-CB-30

^{*1:} Regarding mounting brackets, mounting nuts and toothed washers are attached with the axial foot type and flange type. Trunnions are supplied with mounting nuts.
*2: For axial foot types (two-sided), 2 sets of "M1-LB0** or [Bore size]" in the table above are required.

How to order mounting bracket P40

Bore size (mm) Mounting bracket	ø20	ø25	ø32	ø40
Axial foot (LB/LS)	M1-LB-20-P40	M1-LB-25-P40	M1-LB-30-P40	M1-LB-30-P40
Flange (FA/FB)	M1-FA-20-P40	M1-FA-25-P40	M1-FA-30-P40	M1-FA-30-P40
Trunnion (TA/TB)	M1-TA-20-P40	M1-TA-25-P40	M1-TA-30-P40	M1-TA-30-P40
Eye bracket (CA)	M1-CA-20-P40	M1-CA-25-P40	M1-CA-30-P40	M1-CA-30-P40
Clevis bracket (CB)	M1-CB-20-P40	M1-CB-25-P40	M1-CB-30-P40	M1-CB-30-P40

^{*1:} For axial foot types (two-sided), 2 sets of "M1-LB-** or [Bore size]-P40" in the table above are required.

^{*2:} One side foot (LS) has the max. stroke length of 50mm.

^{*2:} Regarding mounting brackets, mounting nuts are attached with the axial foot type, flange type and trunnion type.

: Applicable models : Semi-applicable models ▲:Contact CKD for details.

In 1 mm

increments

Compatibility table by variation

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/ rubber-air cushioned *C	Double acting/ with speed controller	Double acting/ rotation- stop	Double acting/ coolant proof	Double acting/ air cushion	
	P4	•	•	0	0	0	0	0	0		0	0	A		0	Applicable models
ø20 to 40	P40	•	•	0	0	0	0	0	O*1		0	A	A		O*2	: Semi-applicable r
40	P42															▲:Contact CKD for o

- *1: Zinc plating is used for the sealing washer.
- *2: Zinc plating is used for the cushion packing

How to order Code Description **A** Mounting Without switch (built-in magnet for switch) 00 CMK2)-(00)-(20)-(100 LB Axial foot (both sides) With switch (built-in magnet for switch) LS Axial foot (one side) CMK2)-(00)-(20)-(100) FΑ Rod side flange FΒ Head side flange CA Eye bracket A Mounting CC Eye bracket integrated CB Clevis Bracket (pin and split washer pin included) TΑ Rod side trunnion ТВ Head side trunnion Bore size (mm) B Bore size 20 ø20 *5 *5 25 ø25 32 ø32 40 ø40 © Stroke (mm) Stroke Bore size **Stroke Custom Stroke** ø20 5 to 750

Switch model No.

Switch quantity

Option

G Accessory

Precautions for model No. selection

- *1 : One side foot (LS) has the max. stroke length of 50mm.
- *2: "I" and "Y" cannot be selected together.
- *3: Refer to "Pneumatic Cylinders I (Catalog No.CB-029SA)" for made-to-order specifications of rod end form.
- *4: Up to three switches can be installed. If four or more switches are required, switch mounting brackets for the extra switches must be prepared separately.
- *5: For 20 or 25 bore size, the rod material is stainless steel as standard and the rod nut is zinc chromate. If a stainless steel rod nut is necessary, select the "M" option code.

Related products

Speed controller							
	Model No.	Appearance	Port size (Rc or R)	Compa	Page		
			1/8	4(ø4)	6(ø6)	8(ø8)	
	SC3W-6- *-P4		•	•	•	•	530

Specify the compatible tube O.D. code for *.

Switch model No.

ø25

ø32

ø40

Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.

5 to 750

5 to 750

5 to 750

-	Switch quantity						
	R	1 on rod side					
	Н	1 on head side					
	D	2					
	T	3					

€ Option						
М	Piston rod, rod nut material (stainless steel)	,				
V	Boss cutoff					

-	G Acce	essory
	I	Rod eye
	Υ	Rod clevis (pin and split washer pin attached)
	B2	Clevis bracket (pin and snap ring included)