


LCM  
LCR  
LCG  
LCW  
LCX  
STM  
STG  
STS/STL  
STR2  
UCA2  
ULK\*  
JSK/M2  
JSG  
JSC3/JSC4  
USSD  
UFCD  
USC  
UB  
JSB3  
LMB  
LML  
HCM  
HCA  
LBC  
CAC4  
UCAC2  
CAC-N  
UCAC-N  
RCS2  
**RCC2**  
PCC  
SHC  
MCP  
GLC  
MFC  
BBS  
RRC  
GRC  
RV3\*  
NHS  
HRL  
LN  
Hand  
Chuk  
MechHnd/Chuk  
ShkAbs  
FJ  
FK  
SpdContr  
Ending



Rotary clamp cylinder Double acting/single rod

# RCC2 Series

● Bore size:  $\phi 16/\phi 20/\phi 25/\phi 32/\phi 40/\phi 50/\phi 63$

JIS symbol  ● Double acting



## Specifications

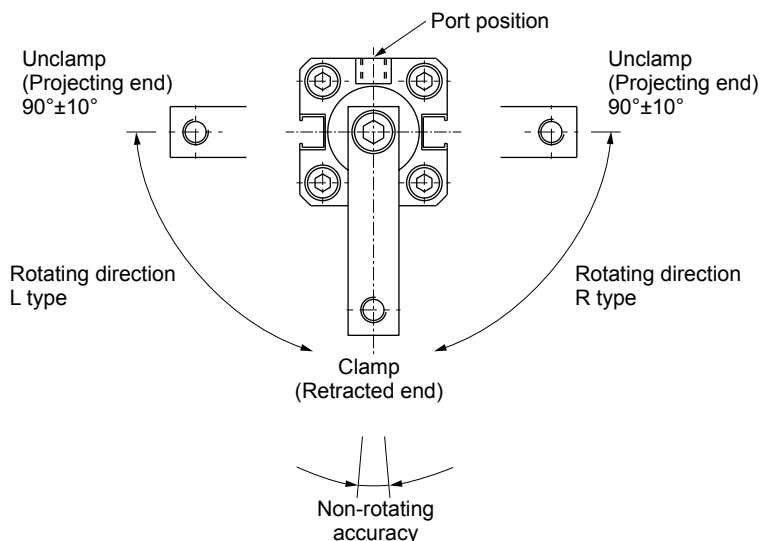
\* Made-to-order product.

Item		RCC2						
Bore size	mm	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$	$\phi 50$	$\phi 63$
Actuation		Double acting						
Working fluid		Compressed air						
Max. working pressure	MPa	1.0 ( $\approx 150$ psi, 10 bar)						
Min. working pressure	MPa	0.2 ( $\approx 29$ psi, 2 bar)						
Proof pressure	MPa	1.6 ( $\approx 230$ psi, 16 bar)						
Ambient temperature	$^{\circ}\text{C}$	-10 ( $14^{\circ}\text{F}$ ) to 60 ( $140^{\circ}\text{F}$ ) (no freezing)						
Port size		M5			Rc1/8		Rc1/4	
Working piston speed	mm/s	50 to 200						
Cushion		With rubber cushion						
Lubrication		Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication)						
Rotating angle		$90^{\circ} \pm 10^{\circ}$						
Rotating direction		Right/Left						
Non-rotating accuracy (clamping): Initial value		$\pm 1^{\circ}$			$\pm 0.9^{\circ}$		$\pm 0.7^{\circ}$	
Pressurized area	Pull	123	201	377	603	1055	1649	2626
	mm <sup>2</sup> Push	201	314	490	804	1256	1963	3117
Durability		1 million times						

## Stroke length

Bore size (mm)	Stroke length (mm)	Rotor stroke length (mm)	Clamp section stroke length (mm)
$\phi 16$	19, 29	9	10, 20
$\phi 20$	21, 31	11	10, 20
$\phi 25$			
$\phi 32$	25, 35	15	10, 20
$\phi 40$			
$\phi 50$	40, 70	20	20, 50
$\phi 63$			

## Rotating direction



### Switch specifications

● 1-color/2-color display/for AC magnetic field proof

Item	Proximity 2-wire			Proximity 3-wire				Reed 2-wire			Proximity 2-wire	
	T2H/T2V	T2YH/ T2YV	T2WH/ T2WV	T3H/T3V	T3PH/ T3PV	T3YH/ T3YV	T3WH/ T3WV	T0H/T0V	T5H/T5V	T2YD		
Applications	Dedicated for programmable controller			For programmable controller, relay				For programmable controller, relay		For programmable controller, relay, IC circuit (no indicator lamp), serial connection		For programmable controller
Output method	-			NPN output	PNP output	NPN output	NPN output	-				
Pwr. supp. V.	-			10 to 28 VDC				-				
Load voltage	10 to 30 VDC		24 VDC ±10%	30 VDC or less				12/24 VDC	110 VAC	5/12/24 VDC	110 VAC	24 VDC ±10%
Load current	5 to 20 mA (*3)			100 mA or less		50 mA or less		5 to 50 mA	7 to 20 mA	50 mA or less	20 mA or less	5 to 20 mA
Indicator lamp	LED (Lit when ON)	Red/green LED (Lit when ON)	Red/green LED (Lit when ON)	LED (Lit when ON)	Yellow LED (Lit when ON)	Red/green LED (Lit when ON)	Red/green LED (Lit when ON)	LED (Lit when ON)		Without indicator lamp		Red/green LED (Lit when ON)
Leakage current	1 mA or less			10 µA or less				0 mA				1 mA or less
Weight g	1 m:18	1 m:33	1 m:18	1 m:18		1 m:33	1 m:18	1 m:18 3 m:49 5 m:80				1 m:61
	3 m:49	3 m:87	3 m:49	3 m:49		3 m:87	3 m:49					3 m:166
	5 m:80	5 m:142	5 m:80	5 m:80		5 m:142	5 m:80					5 m:272

\*1 : Refer to Ending Page 1 for detailed switch specifications and dimensions.

\*2 : Switches other than the above models, such as switches with connectors, are also available. Refer to Ending Page 1.

\*3 : The max. load current is 20 mA at 25°C. The current is lower than 20 mA if the operating ambient temperature around the switch is higher than 25°C. (5 to 10 mA at 60°C)

\*4 : AC magnetic field proof switch (T2YD) cannot be used in DC magnetic fields.

### Cylinder weight

(Unit: kg)

Item/mounting	Stroke length (mm)								Rod side flange (FA)	Head side flange FB	Switch weight
	19	29	21	31	25	35	40	70			
ø16	0.22	0.28	-	-	-	-	-	-	0.07	0.07	Refer to the weight in the switch specifications.
ø20	-	-	0.35	0.43	-	-	-	-	0.13	0.13	
ø25	-	-	0.38	0.45	-	-	-	-	0.16	0.16	
ø32	-	-	-	-	0.8	0.9	-	-	0.16	0.16	
ø40	-	-	-	-	1.0	1.1	-	-	0.25	0.25	
ø50	-	-	-	-	-	-	1.6	2.2	0.5	0.5	
ø63	-	-	-	-	-	-	2.8	3.6	0.65	0.65	

### Theoretical thrust table

(Unit: N)

Bore size (mm)	Operating direction	Working pressure MPa									
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
ø16	Push	40.2	60.3	80.4	1.01 × 10 <sup>2</sup>	1.21 × 10 <sup>2</sup>	1.41 × 10 <sup>2</sup>	1.61 × 10 <sup>2</sup>	1.81 × 10 <sup>2</sup>	2.01 × 10 <sup>2</sup>	
	Pull	24.5	36.8	49.0	61.3	73.5	85.8	98.0	1.10 × 10 <sup>2</sup>	1.23 × 10 <sup>2</sup>	
ø20	Push	62.8	94.2	1.26 × 10 <sup>2</sup>	1.57 × 10 <sup>2</sup>	1.89 × 10 <sup>2</sup>	2.20 × 10 <sup>2</sup>	2.51 × 10 <sup>2</sup>	2.83 × 10 <sup>2</sup>	3.14 × 10 <sup>2</sup>	
	Pull	40.2	60.3	80.4	1.01 × 10 <sup>2</sup>	1.21 × 10 <sup>2</sup>	1.41 × 10 <sup>2</sup>	1.61 × 10 <sup>2</sup>	1.81 × 10 <sup>2</sup>	2.01 × 10 <sup>2</sup>	
ø25	Push	98.2	1.47 × 10 <sup>2</sup>	1.96 × 10 <sup>2</sup>	2.45 × 10 <sup>2</sup>	2.95 × 10 <sup>2</sup>	3.44 × 10 <sup>2</sup>	3.93 × 10 <sup>2</sup>	4.42 × 10 <sup>2</sup>	4.91 × 10 <sup>2</sup>	
	Pull	75.6	1.13 × 10 <sup>2</sup>	1.51 × 10 <sup>2</sup>	1.89 × 10 <sup>2</sup>	2.27 × 10 <sup>2</sup>	2.64 × 10 <sup>2</sup>	3.02 × 10 <sup>2</sup>	3.40 × 10 <sup>2</sup>	3.78 × 10 <sup>2</sup>	
ø32	Push	1.61 × 10 <sup>2</sup>	2.41 × 10 <sup>2</sup>	3.22 × 10 <sup>2</sup>	4.02 × 10 <sup>2</sup>	4.83 × 10 <sup>2</sup>	5.63 × 10 <sup>2</sup>	6.43 × 10 <sup>2</sup>	7.24 × 10 <sup>2</sup>	8.04 × 10 <sup>2</sup>	
	Pull	1.21 × 10 <sup>2</sup>	1.81 × 10 <sup>2</sup>	2.41 × 10 <sup>2</sup>	3.02 × 10 <sup>2</sup>	3.62 × 10 <sup>2</sup>	4.22 × 10 <sup>2</sup>	4.83 × 10 <sup>2</sup>	5.43 × 10 <sup>2</sup>	6.03 × 10 <sup>2</sup>	
ø40	Push	2.51 × 10 <sup>2</sup>	3.77 × 10 <sup>2</sup>	5.03 × 10 <sup>2</sup>	6.28 × 10 <sup>2</sup>	7.54 × 10 <sup>2</sup>	8.80 × 10 <sup>2</sup>	1.01 × 10 <sup>3</sup>	1.13 × 10 <sup>3</sup>	1.26 × 10 <sup>3</sup>	
	Pull	2.11 × 10 <sup>2</sup>	3.17 × 10 <sup>2</sup>	4.22 × 10 <sup>2</sup>	5.28 × 10 <sup>2</sup>	6.33 × 10 <sup>2</sup>	7.39 × 10 <sup>2</sup>	8.45 × 10 <sup>2</sup>	9.50 × 10 <sup>2</sup>	1.06 × 10 <sup>3</sup>	
ø50	Push	3.93 × 10 <sup>2</sup>	5.89 × 10 <sup>2</sup>	7.85 × 10 <sup>2</sup>	9.82 × 10 <sup>2</sup>	1.18 × 10 <sup>3</sup>	1.37 × 10 <sup>3</sup>	1.57 × 10 <sup>3</sup>	1.77 × 10 <sup>3</sup>	1.96 × 10 <sup>3</sup>	
	Pull	3.30 × 10 <sup>2</sup>	4.95 × 10 <sup>2</sup>	6.60 × 10 <sup>2</sup>	8.25 × 10 <sup>2</sup>	9.90 × 10 <sup>2</sup>	1.15 × 10 <sup>3</sup>	1.32 × 10 <sup>3</sup>	1.48 × 10 <sup>3</sup>	1.65 × 10 <sup>3</sup>	
ø63	Push	6.23 × 10 <sup>2</sup>	9.35 × 10 <sup>2</sup>	1.25 × 10 <sup>3</sup>	1.56 × 10 <sup>3</sup>	1.87 × 10 <sup>3</sup>	2.18 × 10 <sup>3</sup>	2.49 × 10 <sup>3</sup>	2.81 × 10 <sup>3</sup>	3.12 × 10 <sup>3</sup>	
	Pull	5.25 × 10 <sup>2</sup>	7.88 × 10 <sup>2</sup>	1.05 × 10 <sup>3</sup>	1.31 × 10 <sup>3</sup>	1.58 × 10 <sup>3</sup>	1.84 × 10 <sup>3</sup>	2.10 × 10 <sup>3</sup>	2.36 × 10 <sup>3</sup>	2.63 × 10 <sup>3</sup>	

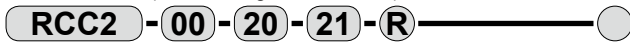
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UCAC2
CAC-N
UCAC-N
RCS2
<b>RCC2</b>
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MCP
GLC
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ShkAbs
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FK
SpdContr
Ending

# RCC2 Series

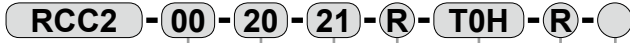
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USSD
UFCD
USC
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LBC
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UCAC-N
RCS2
<b>RCC2</b>
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BBS
RRC
GRC
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MecHnd/Chuk
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FK
SpdContr
Ending

## How to order

Without switch (built-in magnet for switch)



With switch (built-in magnet for switch)



**A** Mounting

**B** Bore size

**C** Stroke length

**D** Rotating direction

**E** Switch model No.

\*1  
\*2

**F** Switch quantity

**G** Option

Code	Description				
<b>A Mounting</b>					
00	Basic				
FA	Rod side flange				
FB	Head side flange *3				
HI	With spigot at head side				
<b>B Bore size (mm)</b>					
16	ø16				
20	ø20				
25	ø25				
32	ø32				
40	ø40				
50	ø50				
63	ø63				
<b>C Stroke length (mm)</b>					
Stroke length	Bore size	Rotor	Clamp		
19	ø16	9	10		
21	ø20/ø25	11	10		
25	ø32/ø40	15	10		
29	ø16	9	20		
31	ø20/ø25	11	20		
35	ø32/ø40	15	20		
40	ø50/ø63	20	20		
70	ø50/ø63	20	50		
<b>D Rotating direction</b>					
R	Clamp (Pull) looking from rod side: Rotated 90° in CW direction				
L	Clamp (Pull) looking from rod side: Rotated 90° in CCW direction				
<b>E Switch model No.</b>					
Axial lead wire	Radial lead wire	Contact	Voltage	Indicator	Lead wire
			ACDC		
T0H*	T0V*	Reed	● ●	1-color display	2-wire
T5H*	T5V*		● ●	Without indicator lamp	
T2H*	T2V*	Proximity	●	1-color display	2-wire
T3H*	T3V*		●		3-wire
T3PH*	T3PV*		●	1-color display	3-wire
T2WH*	T2WV*		●	2-color display	2-wire
T2YH*	T2YV*		●		2-wire
T3WH*	T3WV*		●		3-wire
T3YH*	T3YV*	●		3-wire	
T2YD*	-	●	●	2-color display	2-wire
T2YDT*	-	●	●	AC magnetic field	
<b>* Lead wire length (m)</b>					
Blank	1 m (standard)				
3	3 m (option)				
5	5 m (option)				
<b>F Switch quantity</b>					
R	1 on rod side				
H	1 on head side				
D	2				
<b>G Option</b>					
Blank	Rod end width across flats				
N4	Rod end 2 widths across flats (ø16 only)				

## ⚠ Precautions for model No. selection

\*1: Switches are shipped with the product. Contact CKD if assembling before shipment is necessary.

\*2: T3P\*, T2Y\*, T3Y\*, T2YD\*, and T2YDT\* switches cannot be used for ø16.

\*3: When the type with the switch is selected, the product could interfere with the fixing screws depending on the switch mounting surface and switch.

[Example of model No.]

**RCC2-00-20-21-R-T0H-R**

Model: Rotary clamp cylinder double acting

- A** Mounting : Basic
- B** Bore size : ø20 mm
- C** Stroke length : 21 mm
- D** Rotating direction : Clamp (Pull) looking from rod side: Rotated 90° in CW direction
- E** Switch model No. : Reed T0H switch, lead wire length 1 m
- F** Switch quantity : 1 on rod side

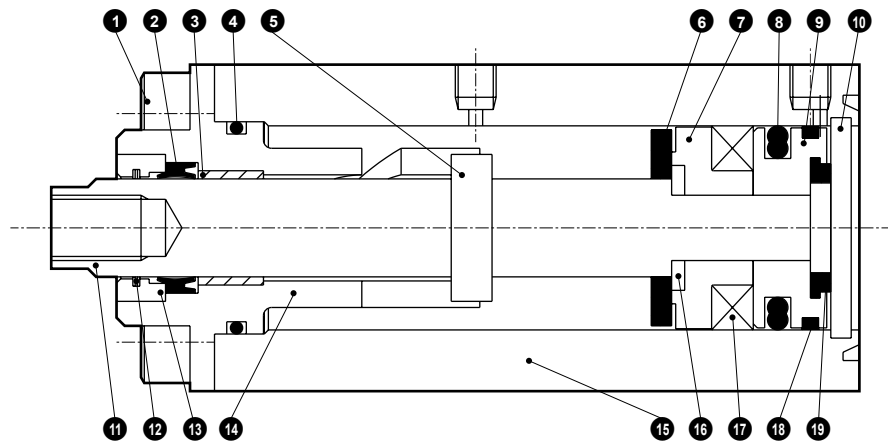
## How to order switch

**SW - T0H**

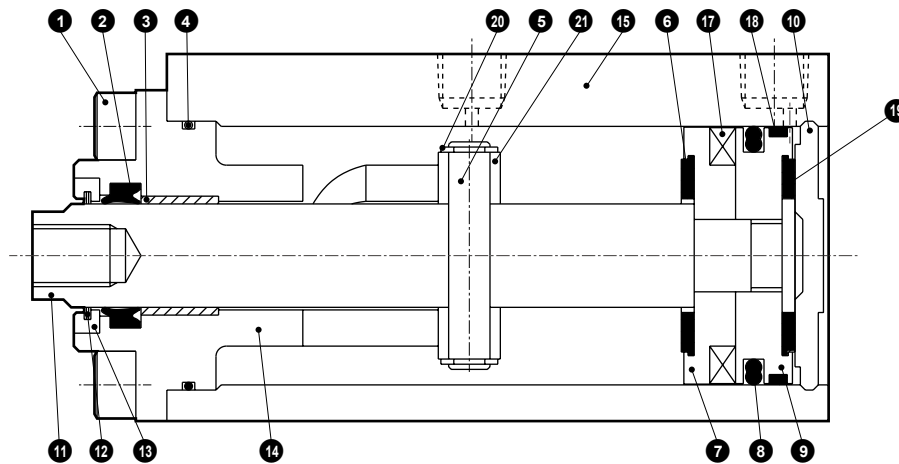
Switch model No.  
(Item **E** above)

### Internal structure and parts list

#### ● RCC2-16/20/25



#### ● RCC2-32/40/50/63



No.	Part name	Material	Remarks	No.	Part name	Material	Remarks
1	Hexagon socket head cap screw	Stainless steel		11	Piston rod	ø16: Stainless steel ø20 to ø63: Steel	
2	Rod packing	Nitrile rubber		12	Coil scraper	Copper alloy	Except for ø16
3	Bush	Copper-based		13	Holder	Aluminum alloy	
4	Cylinder gasket	Nitrile rubber		14	Rod cover	Steel	
5	Pin	Steel		15	Cylinder body	Aluminum alloy	
6	Cushion rubber (R)	Urethane rubber		16	Spacer washer	Stainless steel	Except for ø16
7	Spacer	ø20, ø25: Special resin ø16, ø32 to ø63: Aluminum alloy		17	Magnet	Plastic	
8	Piston packing	Nitrile rubber		18	Wear ring	Acetal resin	
9	Piston	Aluminum alloy		19	Cushion rubber (H)	Urethane rubber	
10	Cover	ø16, ø20, ø25: Stainless steel ø32 to ø63: Aluminum alloy		20	E type snap ring	Steel	
				21	Roller	Steel	

### Repair parts list

Bore size (mm)	Kit No.	Repair parts No.
ø16	RCC2-16K	
ø20	RCC2-20K	
ø25	RCC2-25K	
ø32	RCC2-32K	2 4 6 8 12 18 19
ø40	RCC2-40K	
ø50	RCC2-50K	
ø63	RCC2-63K	

Note: 12 Coil scraper is not supplied for ø16.

Note: 6 Cushion rubber (R) cannot be replaced for ø16 to ø25.

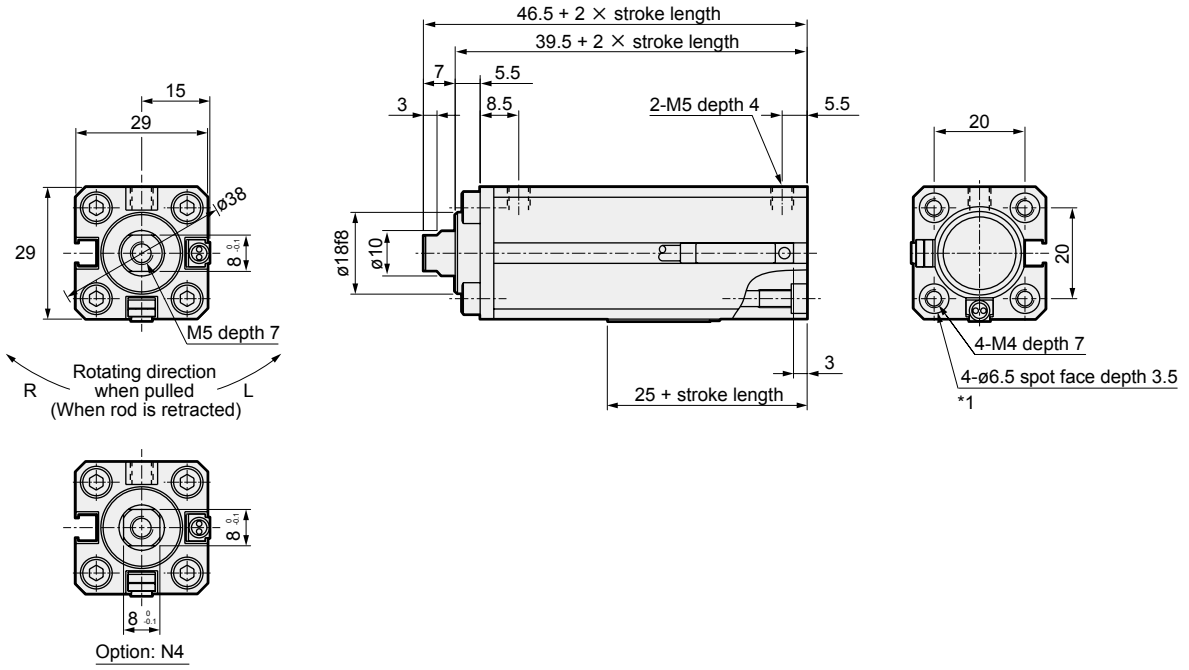
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LCW
LCX
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STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
<b>RCC2</b>
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Ending

# RCC2 Series

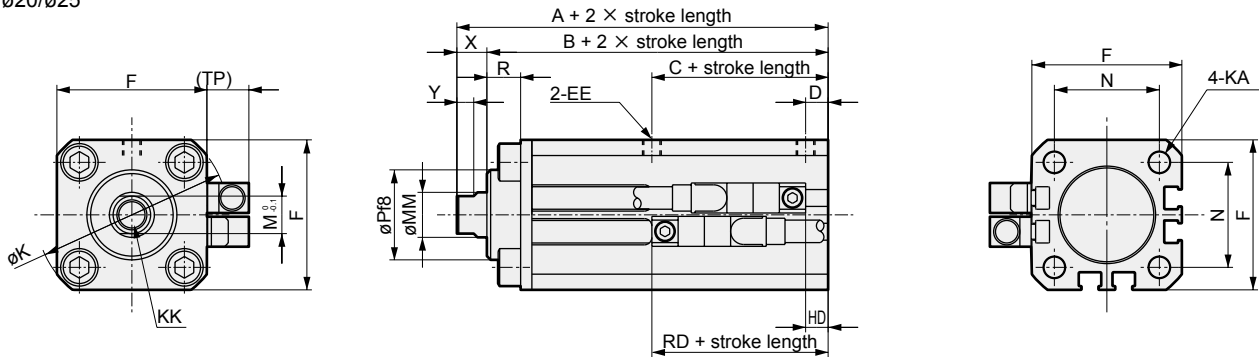
## Dimensions (ø16, ø20, ø25)

### ● Basic (00)

ø16



ø20/ø25



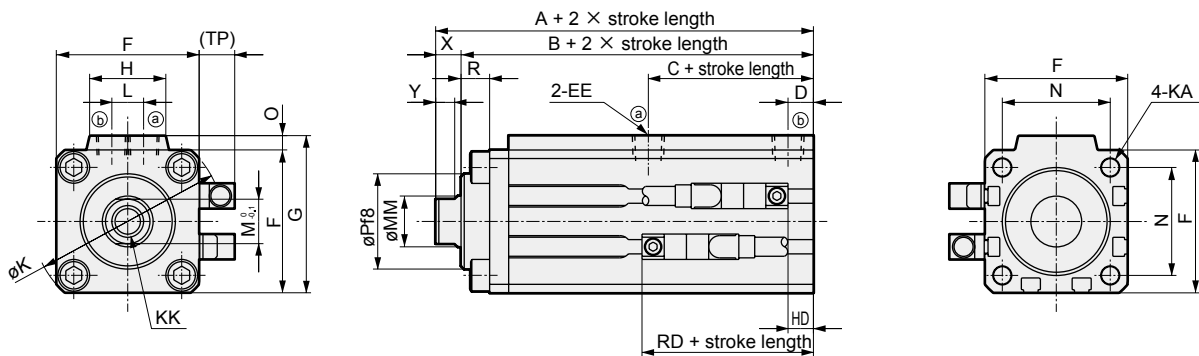
Code	Basic (00) dimensions table															
Bore size (mm)	A	B	C	D	EE	F	K	KA	KK	M	MM	N	P	R	X	Y
ø20	56	48	24	5.5	M5×0.8	36	47	M6 depth 11	M8 depth 15	10	12	25.5	24	9	8	4.5
ø25	57	49	26	6	M5×0.8	40	51	M6 depth 11	M8 depth 15	10	12	28	24	9	8	4.5
Code	With switch															
Bore size (mm)	T2/3H / T2/3V			T0/5H, T0/5V			T*YH/T*YV			T2YD*						
	HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP				
ø20	7	26	0	6	27	0	6	27	5	6	27	11				
ø25	6	25	0	5	26	0	5	26	5	5	26	11				

\*1: Cannot be mounted with a through bolt.

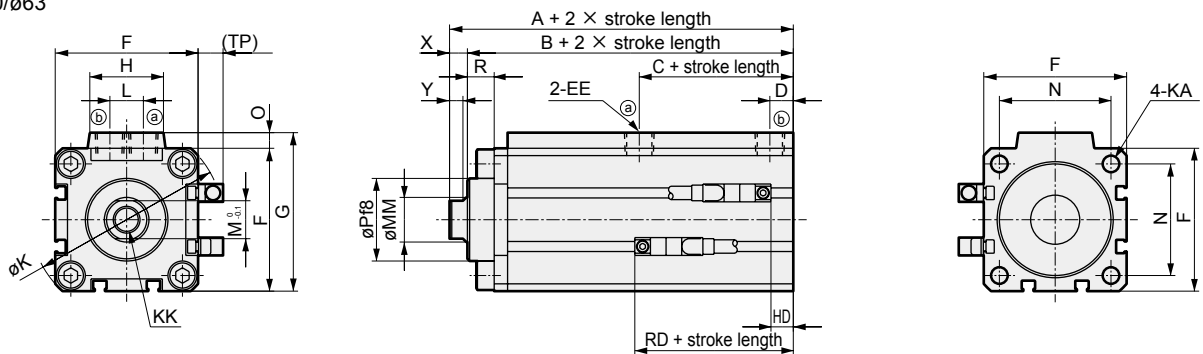
### Dimensions (ø32, ø40, ø50, ø63)

#### ● Basic (00)

ø32/ø40



ø50/ø63



Code	Basic (00) dimensions table																			
Bore size (mm)	A	B	C	D	EE	F	G	H	K	KA	KK	L	M	MM	N	O	P	R	X	Y
ø32	69	61	27	8	Rc1/8	45	49.5	24	60	M6 depth 11	M10 depth 15	10	14	16	34	4.5	30	9	8	6
ø40	70	62	29	8.5	Rc1/8	52	57	24	69	M6 depth 11	M10 depth 15	10	14	16	40	5	35	9	8	6
ø50	74	66	29	10.5	Rc1/4	64	71	33	86	M8 depth 13	M12 depth 15	15	17	20	50	7	37	12	8	6
ø63	85	75	38	11	Rc1/4	77	84	33	103	M10 depth 25	M16 depth 21	15	22	25	60	7	48	12	10	8

Code	With switch											
Bore size (mm)	T2/3H / T2/3V			T0/5H, T0/5V			T*YH/T*YV			T2YD*		
	HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP
ø32	9	28	0	8	29	0	8	29	5	8	29	11
ø40	10	29	0	9	30	0	9	30	5	9	30	11
ø50	11	30	0	10	31	0	10	31	5	10	31	11
ø63	19	37	0	18	38	0	18	38	5	18	38	11

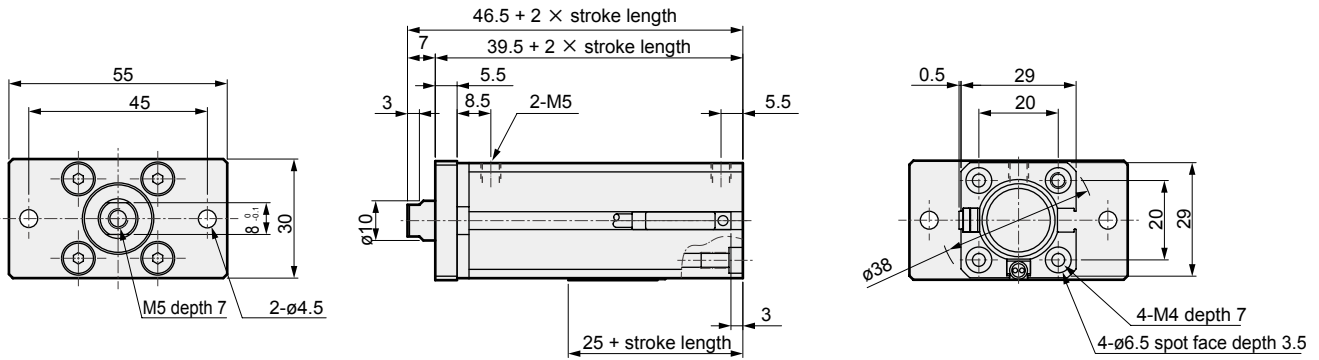
\*1: Cannot be mounted with a through bolt.

LCM
LCR
LCG
LCW
LCX
STM
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STS/STL
STR2
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ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
<b>RCC2</b>
PCC
SHC
MCP
GLC
MFC
BBS
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Ending

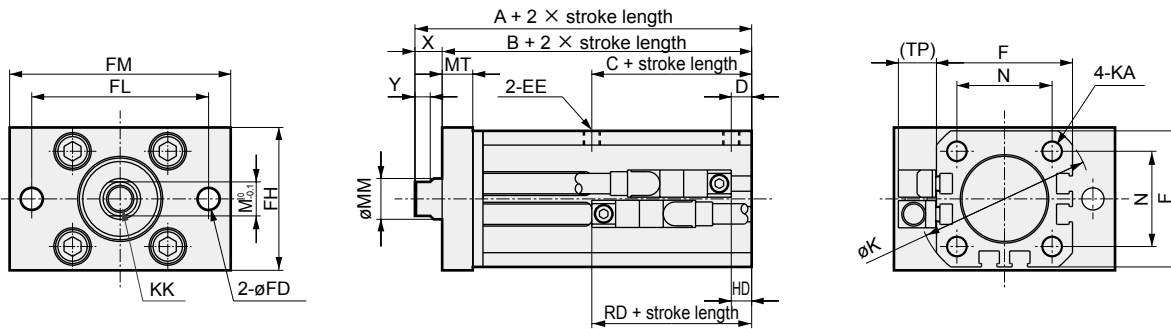
## Dimensions (ø16, ø20, ø25)

### ● Rod side flange (FA)

ø16



ø20/ø25

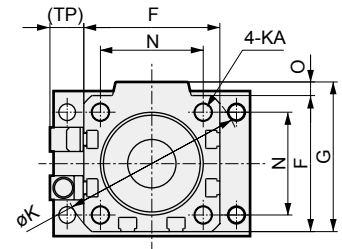
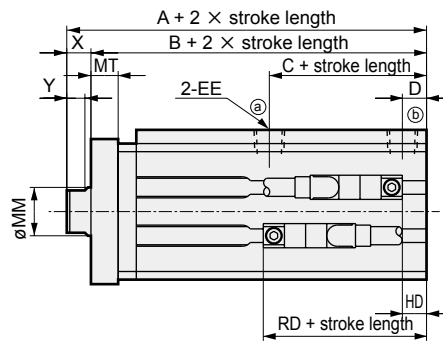
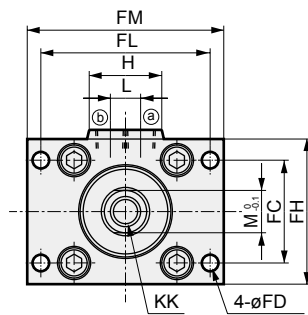


Code	Rod side flange (FA) basic dimensions																	
Bore size (mm)	A	B	C	D	EE	F	K	KA	KK	M	MM	N	X	Y	FD	FH	FL	FM
ø20	56	48	24	5.5	M5×0.8	36	47	M6 depth 11	M8 depth 15	10	12	25.5	8	4.5	6.5	38	48	60
ø25	57	49	26	6	M5×0.8	40	51	M6 depth 11	M8 depth 15	10	12	28	8	4.5	6.5	42	52	65
Code	With switch																	
Bore size (mm)	MT	T2/3H / T2/3V			T0/5H, T0/5V			T*YH/T*YV			T2YD*							
		HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP					
ø20	9	7	26	0	6	27	0	6	27	5	6	27	11					
ø25	9	6	25	0	5	26	0	5	26	5	5	26	11					

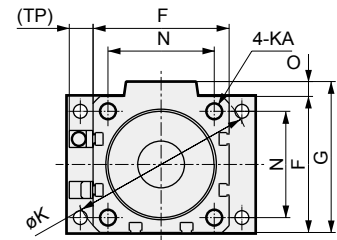
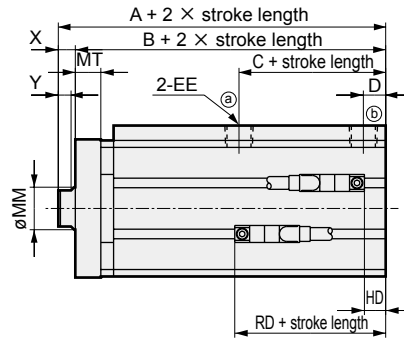
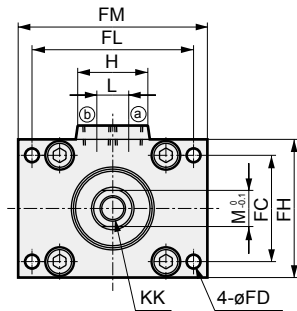
### Dimensions (ø32, ø40, ø50, ø63)

#### ● Rod side flange (FA)

ø32/ø40



ø50/ø63



Code	Rod side flange (FA) basic dimensions																		
Bore size (mm)	A	B	C	D	EE	F	G	H	K	KA	KK	L	M	MM	N	O	X	Y	
ø32	69	61	27	8	Rc1/8	45	49.5	24	60	M6 depth 11	M10 depth 15	10	14	16	34	4.5	8	6	
ø40	70	62	29	8.5	Rc1/8	52	57	24	69	M6 depth 11	M10 depth 15	10	14	16	40	5	8	6	
ø50	74	66	29	10.5	Rc1/4	64	71	33	86	M8 depth 13	M12 depth 15	15	17	20	50	7	8	6	
ø63	85	75	38	11	Rc1/4	77	84	33	103	M10 depth 25	M16 depth 21	15	22	25	60	7	10	8	
Code	With switch																		
Bore size (mm)	FD	FC	FH	FL	FM	MT	T2/3H / T2/3V			T0/5H, T0/5V			T*YH/T*YV			T2YD*			
							HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP	
ø32	5.5	34	48	56	65	9	9	28	0	8	29	0	8	29	5	8	29	11	
ø40	5.5	40	55	62	75	9	10	29	0	9	30	0	9	30	5	9	30	11	
ø50	6.5	50	66	76	89	12	11	30	0	10	31	0	10	31	5	10	31	11	
ø63	9	60	82	92	108	12	19	37	0	18	38	0	18	38	5	18	38	11	

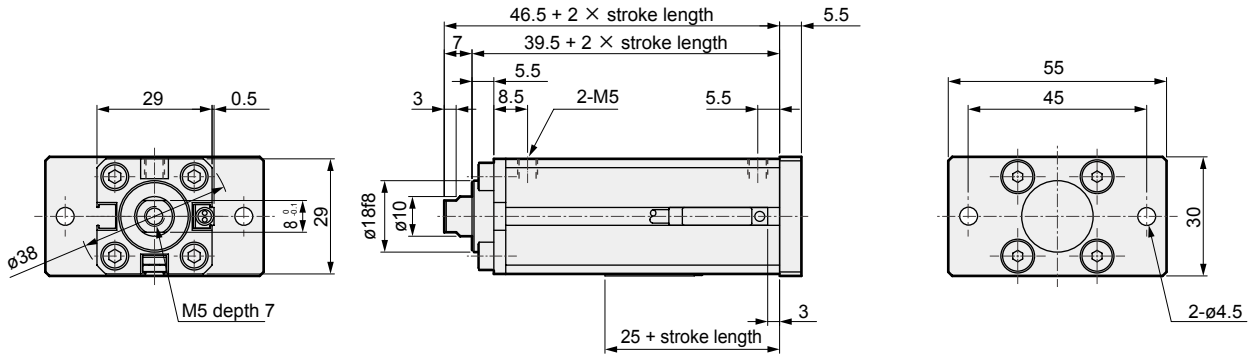
LCM
LCR
LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
<b>RCC2</b>
PCC
SHC
MCP
GLC
MFC
BBS
RRC
GRC
RV3*
NHS
HRL
LN
Hand
Chuk
MechHnd/Chuk
ShkAbs
FJ
FK
SpdContr
Ending



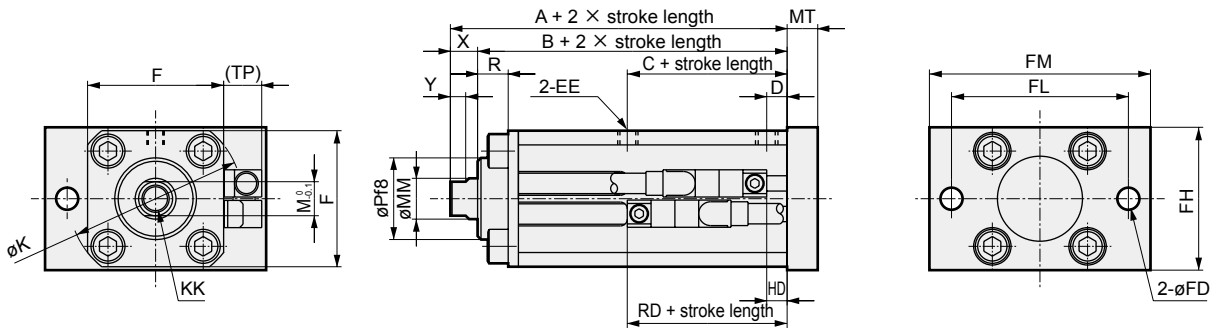
## Dimensions (ø16, ø20, ø25)

### ● Head side flange (FB)

ø16



ø20/ø25



Code	Head side flange (FB) basic dimensions																		
Bore size (mm)	A	B	C	D	EE	F	K	KK	M	MM	P	R	X	Y	FD	FH	FL	FM	MT
ø20	56	48	24	5.5	M5×0.8	36	47	M8 depth 15	10	12	24	9	8	4.5	6.5	38	48	60	9
ø25	57	49	26	6	M5×0.8	40	51	M8 depth 15	10	12	24	9	8	4.5	6.5	42	52	65	9

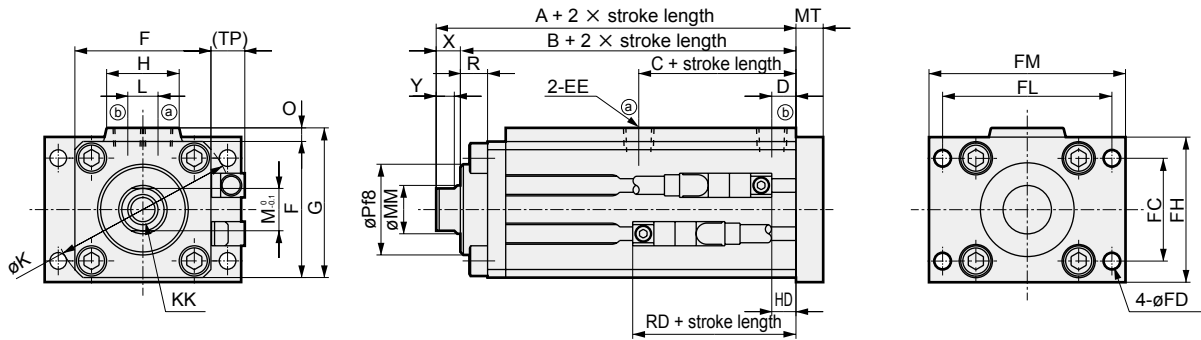
  

Code	With switch											
Bore size (mm)	T2/3H / T2/3V			T0/5H, T0/5V			T*YH/T*YV			T2YD*		
	HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP
ø20	7	26	0	6	27	0	6	27	5	6	27	11
ø25	6	25	0	5	26	0	5	26	5	5	26	11

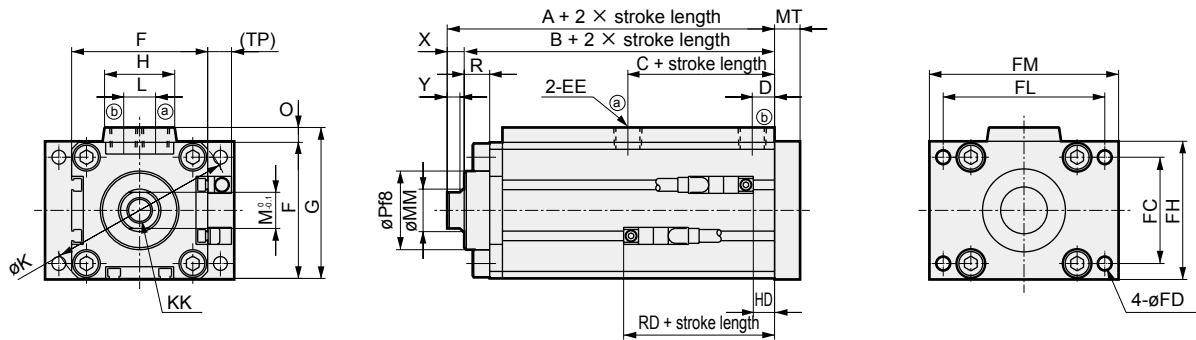
### Dimensions (ø32, ø40, ø50, ø63)

#### ● Head side flange (FB)

ø32/ø40



ø50/ø63



Code	Head side flange (FB) basic dimensions																		
Bore size (mm)	A	B	C	D	EE	F	G	H	K	KK	L	M	MM	O	P	R	X	Y	FD
ø32	69	61	27	8	Rc1/8	45	49.5	24	60	M10 depth 15	10	14	16	4.5	30	9	8	6	5.5
ø40	70	62	29	8.5	Rc1/8	52	57	24	69	M10 depth 15	10	14	16	5	35	9	8	6	5.5
ø50	74	66	29	10.5	Rc1/4	64	71	33	86	M12 depth 15	15	17	20	7	37	12	8	6	6.5
ø63	85	75	38	11	Rc1/4	77	84	33	103	M16 depth 21	15	22	25	7	48	12	10	8	9

Code	With switch																
Bore size (mm)	FC	FH	FL	FM	MT	T2/3H / T2/3V			T0/5H, T0/5V			T*YH/T*YV			T2YD*		
						HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP
ø32	34	48	56	65	9	9	28	0	8	29	0	8	29	5	8	29	11
ø40	40	55	62	75	9	10	29	0	9	30	0	9	30	5	9	30	11
ø50	50	66	76	89	12	11	30	0	10	31	0	10	31	5	10	31	11
ø63	60	82	92	108	12	19	37	0	18	38	0	18	38	5	18	38	11

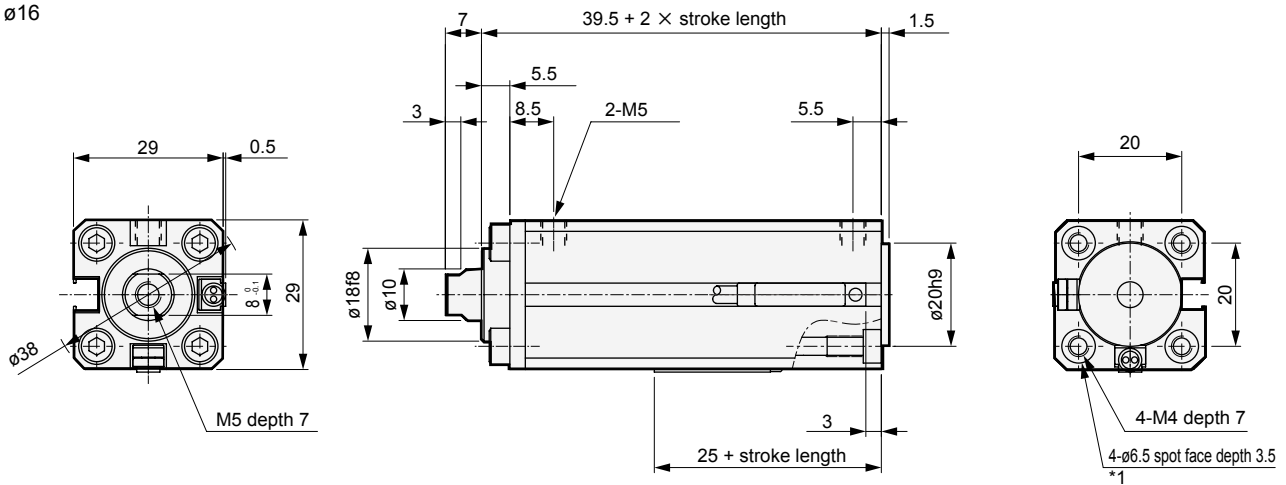
- LCM
- LCR
- LCG
- LCW
- LCX
- STM
- STG
- STS/STL
- STR2
- UCA2
- ULK\*
- JSK/M2
- JSG
- JSC3/JSC4
- USSD
- UFCD
- USC
- UB
- JSB3
- LMB
- LML
- HCM
- HCA
- LBC
- CAC4
- UCAC2
- CAC-N
- UCAC-N
- RCS2
- RCC2**
- PCC
- SHC
- MCP
- GLC
- MFC
- BBS
- RRC
- GRC
- RV3\*
- NHS
- HRL
- LN
- Hand
- Chuk
- MechHnd/Chuk
- ShkAbs
- FJ
- FK
- SpdContr
- Ending

# RCC2 Series

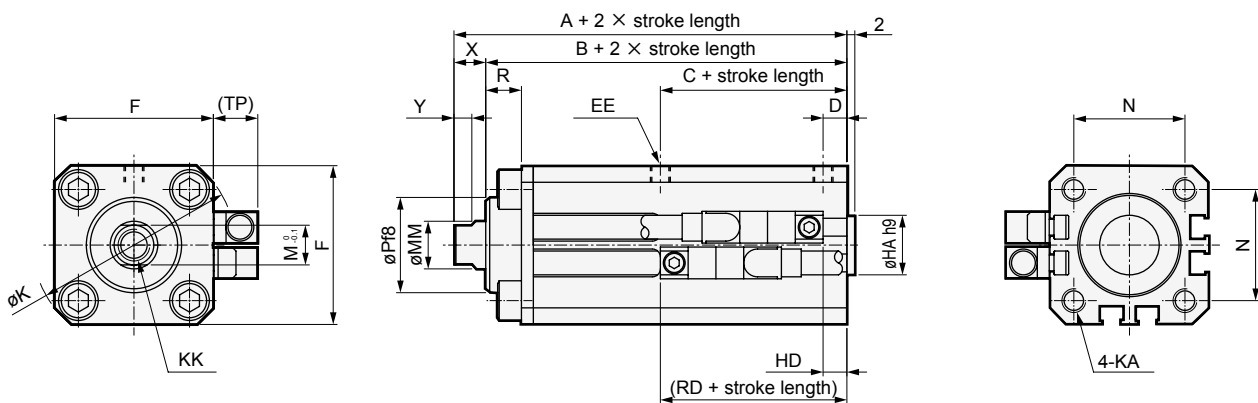
## Dimensions (ø16, ø20, ø25)

● With spigot at head side (HI)

ø16



ø20/ø25



Code	Basic dimensions with spigot at head side (HI)																
Bore size (mm)	A	B	C	D	EE	F	HA	K	KA	KK	M	MM	N	P	R	X	Y
ø20	56	48	24	5.5	M5×0.8	36	13	47	M6 depth 11	M8 depth 15	10	12	25.5	24	9	8	4.5
ø25	57	49	26	6	M5×0.8	40	15	51	M6 depth 11	M8 depth 15	10	12	28	24	9	8	4.5
Code	With switch																
Bore size (mm)	T2/3H / T2/3V			T0/5H, T0/5V			T*YH/T*YV			T2YD*							
	HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP					
ø20	7	26	0	6	27	0	6	27	5	6	27	11					
ø25	6	25	0	5	26	0	5	26	5	5	26	11					

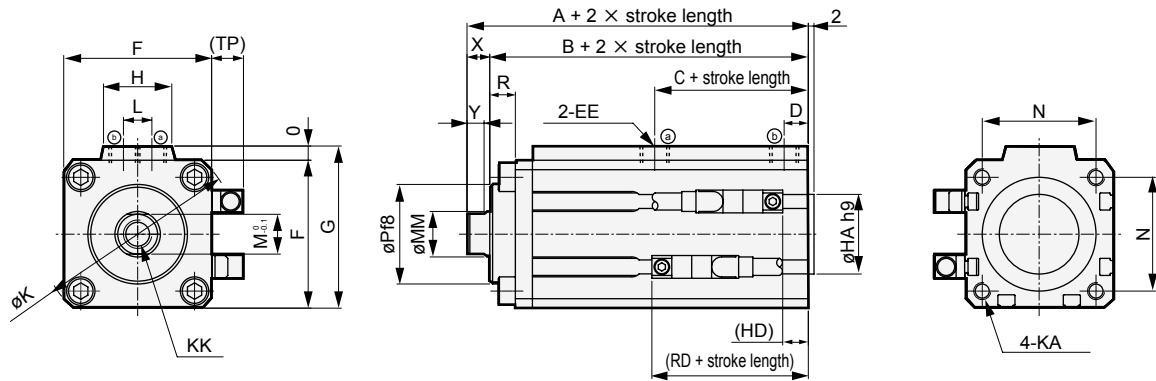
\*1: Cannot be mounted with a through bolt.

- LCM
- LCR
- LCG
- LCW
- LCX
- STM
- STG
- STS/STL
- STR2
- UCA2
- ULK\*
- JSK/M2
- JSG
- JSC3/JSC4
- USSD
- UFCD
- USC
- UB
- JSB3
- LMB
- LML
- HCM
- HCA
- LBC
- CAC4
- UCAC2
- CAC-N
- UCAC-N
- RCS2
- RCC2**
- PCC
- SHC
- MCP
- GLC
- MFC
- BBS
- RRC
- GRC
- RV3\*
- NHS
- HRL
- LN
- Hand
- Chuk
- MecHnd/Chuk
- ShkAbs
- FJ
- FK
- SpdContr
- Ending

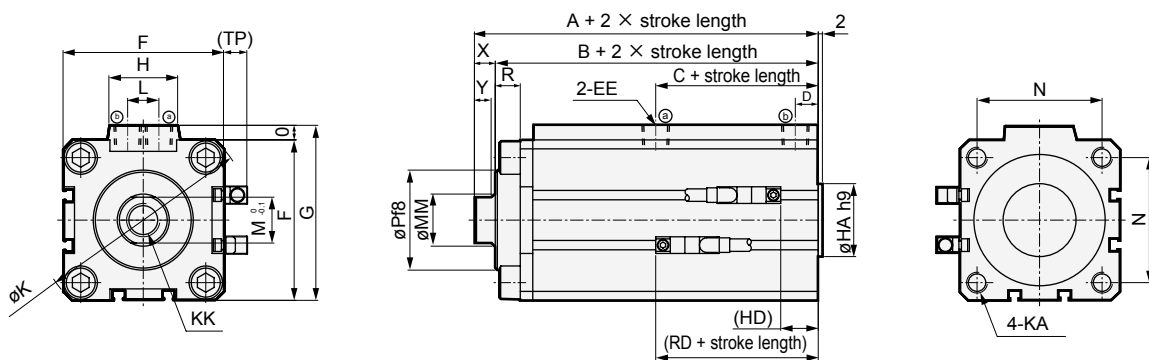
### Dimensions (ø32, ø40, ø50, ø63)

● With spigot at head side (HI)

ø32, ø40



ø50, ø63



Code	Basic dimensions with spigot at head side (HI)																				
Bore size (mm)	A	B	C	D	EE	F	G	H	HA	K	KA	KK	L	M	MM	N	O	P	R	X	Y
ø32	69	61	27	8	Rc1/8	45	49.5	24	21	60	M6 depth 11	M10 depth 15	10	14	16	34	4.5	30	9	8	6
ø40	70	62	29	8.5	Rc1/8	52	57	24	28	69	M6 depth 11	M10 depth 15	10	14	16	40	5	35	9	8	6
ø50	74	66	29	10.5	Rc1/4	64	71	33	35	86	M8 depth 13	M12 depth 15	15	17	20	50	7	37	12	8	6
ø63	85	75	38	11	Rc1/4	77	84	33	35	103	M10 depth 25	M16 depth 21	15	22	25	60	7	48	12	10	8

Code	With switch											
Bore size (mm)	T2/3H / T2/3V			T0/5H, T0/5V			T*YH/T*YV			T2YD*		
	HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP
ø32	9	28	0	8	29	0	8	29	5	8	29	11
ø40	10	29	0	9	30	0	9	30	5	9	30	11
ø50	11	30	0	10	31	0	10	31	5	10	31	11
ø63	19	37	0	18	38	0	18	38	6	18	38	11


\*1: Cannot be mounted with a through bolt.

LCM
LCR
LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
<b>RCC2</b>
PCC
SHC
MCP
GLC
MFC
BBS
RRC
GRC
RV3*
NHS
HRL
LN
Hand
Chuk
MechHnd/Chuk
ShkAbs
FJ
FK
SpdContr
Ending

Rotary clamp cylinder Double acting/anti-spatter adherence

# RCC2-G4 Series

● Bore size:  $\phi 20/\phi 25/\phi 32/\phi 40/\phi 50/\phi 63$

JIS symbol 



## Specifications

\* Made-to-order product.

Item		RCC2-G4					
		$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$	$\phi 50$	$\phi 63$
Bore size	mm	$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$	$\phi 50$	$\phi 63$
Actuation		Double acting					
Max. working pressure	MPa	1 ( $\approx 150$ psi, 10 bar)					
Min. working pressure	MPa	0.2 ( $\approx 29$ psi, 2 bar)					
Proof pressure	MPa	1.6 ( $\approx 230$ psi, 16 bar)					
Ambient temperature	$^{\circ}\text{C}$	-10 (14 $^{\circ}\text{F}$ ) to 60 (140 $^{\circ}\text{F}$ ) (no freezing)					
Port size		M5		Rc1/8		Rc1/4	
Working piston speed	mm/s	50 to 200					
Cushion		With rubber cushion					
Lubrication		Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication)					
Rotating angle		90 $\pm 10^{\circ}$					
Rotating direction		Right/Left					
Non-rotating accuracy (clamping): Default value		$\pm 1^{\circ}$		$\pm 0.9^{\circ}$		$\pm 0.7^{\circ}$	
Pressurized area	mm <sup>2</sup>	Pulling side		Pushing side			
		201	377	603	1055	1649	2626
		314	490	804	1256	1963	3117

## Stroke length

Bore size (mm)	Stroke length (mm)	Rotor stroke length (mm)	Clamp section stroke length (mm)
$\phi 20$	21, 31	11	10, 20
$\phi 25$			
$\phi 32$	25, 35	15	10, 20
$\phi 40$			
$\phi 50$	40, 70	20	20, 50
$\phi 63$			

## Switch specifications

● 1-color/2-color display/for AC magnetic field proof

Item	Proximity 2-wire			Proximity 3-wire				Reed 2-wire				Proximity 2-wire
	T2H/T2V	T2YH/ T2YV	T2WH/ T2WV	T3H/T3V	T3PH/ T3PV	T3YH/ T3YV	T3WH/ T3WV	T0H/T0V	T5H/T5V		T2YD	
Applications	Dedicated for programmable controller			For programmable controller, relay				For programmable controller, relay	For programmable controller, relay, IC circuit (no indicator lamp), serial connection		For programmable controller	
Output method	-			NPN output	PNP output	NPN output	NPN output	-				
Pwr. supp. V.	-			10 to 28 VDC				-				
Load voltage	10 to 30 VDC		24 VDC $\pm 10\%$	30 VDC or less				12/24 VDC	110 VAC	5/12/24 VDC	110 VAC	24 VDC $\pm 10\%$
Load current	5 to 20 mA (*3)			100 mA or less		50 mA or less		5 to 50 mA	7 to 20 mA	50 mA or less	20 mA or less	5 to 20 mA
Indicator lamp	LED (Lit when ON)	Red/green LED (Lit when ON)	Red/green LED (Lit when ON)	LED (Lit when ON)	Yellow LED (Lit when ON)	Red/green LED (Lit when ON)	Red/green LED (Lit when ON)	LED (Lit when ON)		Without indicator lamp		Red/green LED (Lit when ON)
Leakage current	1 mA or less			10 $\mu\text{A}$ or less				0 mA				1 mA or less
Weight g	1 m:18	1 m:33	1 m:18	1 m:18	1 m:33	1 m:18	1 m:18	1 m:18 3 m:49 5 m:80			1 m:61	
	3 m:49	3 m:87	3 m:49	3 m:49	3 m:87	3 m:49	3 m:49				3 m:166	
	5 m:80	5 m:142	5 m:80	5 m:80	5 m:142	5 m:80	5 m:80				5 m:272	

\*1 : Refer to Ending Page 1 for detailed switch specifications and dimensions.

\*2 : Switches other than the above models, such as switches with connectors, are also available. Refer to Ending Page 1.

\*3 : The max. load current is 20 mA at 25 $^{\circ}\text{C}$ . The current is lower than 20 mA if the operating ambient temperature around the switch is higher than 25 $^{\circ}\text{C}$ . (5 to 10 mA at 60 $^{\circ}\text{C}$ )

\*4 : AC magnetic field proof switch (T2YD) cannot be used in DC magnetic fields.

# RCC2-G4 Series

## Specifications

### Theoretical thrust table

(Unit: N)

Bore size (mm)	Operating direction	Working pressure MPa								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
ø20	Push	62.8	94.2	$1.26 \times 10^2$	$1.57 \times 10^2$	$1.89 \times 10^2$	$2.20 \times 10^2$	$2.51 \times 10^2$	$2.83 \times 10^2$	$3.14 \times 10^2$
	Pull	40.2	60.3	80.4	$1.01 \times 10^2$	$1.21 \times 10^2$	$1.41 \times 10^2$	$1.61 \times 10^2$	$1.81 \times 10^2$	$2.01 \times 10^2$
ø25	Push	98.2	$1.47 \times 10^2$	$1.96 \times 10^2$	$2.45 \times 10^2$	$2.95 \times 10^2$	$3.44 \times 10^2$	$3.93 \times 10^2$	$4.42 \times 10^2$	$4.91 \times 10^2$
	Pull	75.6	$1.13 \times 10^2$	$1.51 \times 10^2$	$1.89 \times 10^2$	$2.27 \times 10^2$	$2.64 \times 10^2$	$3.02 \times 10^2$	$3.40 \times 10^2$	$3.78 \times 10^2$
ø32	Push	$1.61 \times 10^2$	$2.41 \times 10^2$	$3.22 \times 10^2$	$4.02 \times 10^2$	$4.83 \times 10^2$	$5.63 \times 10^2$	$6.43 \times 10^2$	$7.24 \times 10^2$	$8.04 \times 10^2$
	Pull	$1.21 \times 10^2$	$1.81 \times 10^2$	$2.41 \times 10^2$	$3.02 \times 10^2$	$3.62 \times 10^2$	$4.22 \times 10^2$	$4.83 \times 10^2$	$5.43 \times 10^2$	$6.03 \times 10^2$
ø40	Push	$2.51 \times 10^2$	$3.77 \times 10^2$	$5.03 \times 10^2$	$6.28 \times 10^2$	$7.54 \times 10^2$	$8.80 \times 10^2$	$1.01 \times 10^3$	$1.13 \times 10^3$	$1.26 \times 10^3$
	Pull	$2.11 \times 10^2$	$3.17 \times 10^2$	$4.22 \times 10^2$	$5.28 \times 10^2$	$6.33 \times 10^2$	$7.39 \times 10^2$	$8.45 \times 10^2$	$9.50 \times 10^2$	$1.06 \times 10^3$
ø50	Push	$3.93 \times 10^2$	$5.89 \times 10^2$	$7.85 \times 10^2$	$9.82 \times 10^2$	$1.18 \times 10^3$	$1.37 \times 10^3$	$1.57 \times 10^3$	$1.77 \times 10^3$	$1.96 \times 10^3$
	Pull	$3.30 \times 10^2$	$4.95 \times 10^2$	$6.60 \times 10^2$	$8.25 \times 10^2$	$9.90 \times 10^2$	$1.15 \times 10^3$	$1.32 \times 10^3$	$1.48 \times 10^3$	$1.65 \times 10^3$
ø63	Push	$6.23 \times 10^2$	$9.35 \times 10^2$	$1.25 \times 10^3$	$1.56 \times 10^3$	$1.87 \times 10^3$	$2.18 \times 10^3$	$2.49 \times 10^3$	$2.81 \times 10^3$	$3.12 \times 10^3$
	Pull	$5.25 \times 10^2$	$7.88 \times 10^2$	$1.05 \times 10^3$	$1.31 \times 10^3$	$1.58 \times 10^3$	$1.84 \times 10^3$	$2.10 \times 10^3$	$2.36 \times 10^3$	$2.63 \times 10^3$

LCM
LCR
LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
<b>RCC2</b>
PCC
SHC
MCP
GLC
MFC
BBS
RRC
GRC
RV3*
NHS
HRL
LN
Hand
Chuk
MechHnd/Chuk
ShkAbs
FJ
FK
SpdContr
Ending

# RCC2-G4 Series

- LCM
- LCR
- LCG
- LCW
- LCX
- STM
- STG
- STS/STL
- STR2
- UCA2
- ULK\*
- JSK/M2
- JSG
- JSC3/JSC4
- USSD
- UFCD
- USC
- UB
- JSB3
- LMB
- LML
- HCM
- HCA
- LBC
- CAC4
- UCAC2
- CAC-N
- UCAC-N
- RCS2
- RCC2**
- PCC
- SHC
- MCP
- GLC
- MFC
- BBS
- RRC
- GRC
- RV3\*
- NHS
- HRL
- LN
- Hand
- Chuk
- MecHnd/Chuk
- ShkAbs
- FJ
- FK
- SpdContr
- Ending

## How to order

Without switch (built-in magnet for switch)

**RCC2-G4-00-20-21-R**

With switch (built-in magnet for switch)

**RCC2-G4-00-20-21-R-T0H-R**

Model No.

**A** Mounting

**B** Bore size

**C** Stroke length

**D** Rotating direction

**E** Switch model No.  
\*1

### ⚠ Precautions for model No. selection

\*1: Switches are shipped with the product. Contact CKD if assembling before shipment is necessary.

\*2: When the type with the switch is selected, the product could interfere with the fixing screws depending on the switch mounting surface and switch.

[Example of model No.]

**RCC2-G4-00-20-21-R-T2YD3-D**

Model: Rotary clamp cylinder Double acting/  
anti-spatter adherence

- A** Mounting : Basic
- B** Bore size :  $\varnothing 20$
- C** Stroke length : 21 mm
- D** Rotating direction : Clamp (Pull) looking from rod side, rotated 90° in CW direction
- E** Switch model No. : Strong magnetic field proof proximity T2YD switch, Lead wire length 3 m
- F** Switch quantity : 2

## How to order switch

**SW - T0H**

Switch model No.  
(Item **E** above)

**F** Switch quantity

Code	Description
<b>A Mounting</b>	
<b>00</b>	Basic
<b>FA</b>	Rod side flange
<b>FB</b>	Head side flange *2
<b>HI</b>	With spigot at head side

<b>B Bore size (mm)</b>	
<b>20</b>	$\varnothing 20$
<b>25</b>	$\varnothing 25$
<b>32</b>	$\varnothing 32$
<b>40</b>	$\varnothing 40$
<b>50</b>	$\varnothing 50$
<b>63</b>	$\varnothing 63$

<b>C Stroke length (mm)</b>			
Stroke length	Bore size	Rotor	Clamp
<b>21</b>	$\varnothing 20/\varnothing 25$	11	10
<b>25</b>	$\varnothing 32/\varnothing 40$	15	10
<b>31</b>	$\varnothing 20/\varnothing 25$	11	20
<b>35</b>	$\varnothing 32/\varnothing 40$	15	20
<b>40</b>	$\varnothing 50/\varnothing 63$	20	20
<b>70</b>	$\varnothing 50/\varnothing 63$	20	50

<b>D Rotating direction</b>	
<b>R</b>	Clamp (Pull) looking from rod side: Rotated 90° in CW direction
<b>L</b>	Clamp (Pull) looking from rod side: Rotated 90° in CCW direction

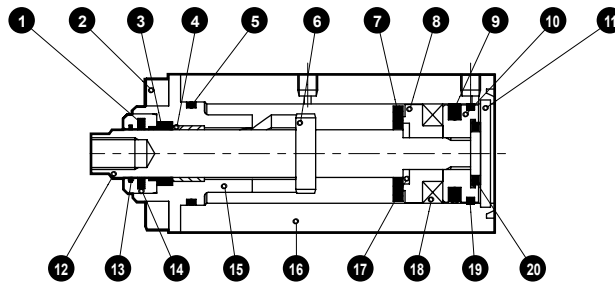
<b>E Switch model No.</b>						
Axial lead wire	Axial lead wire	Contact	Voltage		Indicator	Lead wire
			AC	DC		
<b>T0H*</b>	<b>T0V*</b>	Reed	●	●	1-color display	2-wire
<b>T5H*</b>	<b>T5V*</b>		●	●	Without indicator lamp	
<b>T2H*</b>	<b>T2V*</b>	Proximity	●	●	1-color display	2-wire
<b>T3H*</b>	<b>T3V*</b>		●	●	1-color display	3-wire
<b>T3PH*</b>	<b>T3PV*</b>		●	●	1-color display	3-wire
<b>T2WH*</b>	<b>T2WV*</b>		●	●	2-color display	2-wire
<b>T2YH*</b>	<b>T2YV*</b>		●	●		2-wire
<b>T3WH*</b>	<b>T3WV*</b>		●	●		3-wire
<b>T3YH*</b>	<b>T3YV*</b>		●	●	3-wire	
<b>T2YD*</b>	-	●	●	2-color display for AC magn field	2-wire	

<b>* Lead wire length (m)</b>	
<b>Blank</b>	1 m (standard)
<b>3</b>	3 m (option)
<b>5</b>	5 m (option)

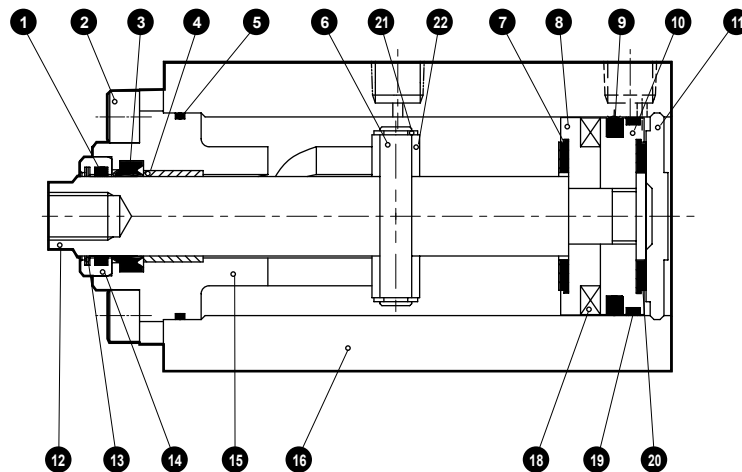
<b>F Switch quantity</b>	
<b>R</b>	1 on rod side
<b>H</b>	1 on head side
<b>D</b>	2

## Internal structure and parts list

● RCC2-G4-20/25



● RCC2-G4-32/40/50/63



No.	Part name	Material	Remarks	No.	Part name	Material	Remarks
1	Lube keeping structure	Special rubber		12	Piston rod	Steel	
2	Hexagon socket head cap screw	Stainless steel		13	Coil scraper	Copper alloy	
3	Rod packing	Nitrile rubber		14	Holder	Aluminum alloy	
4	Bush	Copper-based		15	Rod cover	Steel	
5	Cylinder gasket	Nitrile rubber		16	Cylinder body	Aluminum alloy	
6	Pin	Steel		17	Spacer washer	Stainless steel	
7	Cushion rubber (R)	Urethane rubber		18	Magnet	Plastic magnet	
8	Spacer	ø20/ø25: Special resin ø32 to ø63: Aluminum alloy		19	Wear ring	Acetal resin	
9	Piston packing	Nitrile rubber		20	Cushion rubber (H)	Urethane rubber	
10	Piston	Aluminum alloy		21	E type snap ring	Steel	
11	Cover	ø20/ø25: Stainless steel ø32 to ø63: Aluminum Alloy		22	Roller	Steel	

## Repair parts list

Bore size (mm)	Kit No.	Repair parts No.
ø20	RCC2-20K	
ø25	RCC2-25K	
ø32	RCC2-32K	3 5 7 9
ø40	RCC2-40K	13 19 20
ø50	RCC2-50K	
ø63	RCC2-63K	

Note: 7 Cushion rubber (R) cannot be replaced for ø20 and ø25.  
 Note: Contact CKD separately if 1 Lube keeping structure is required.

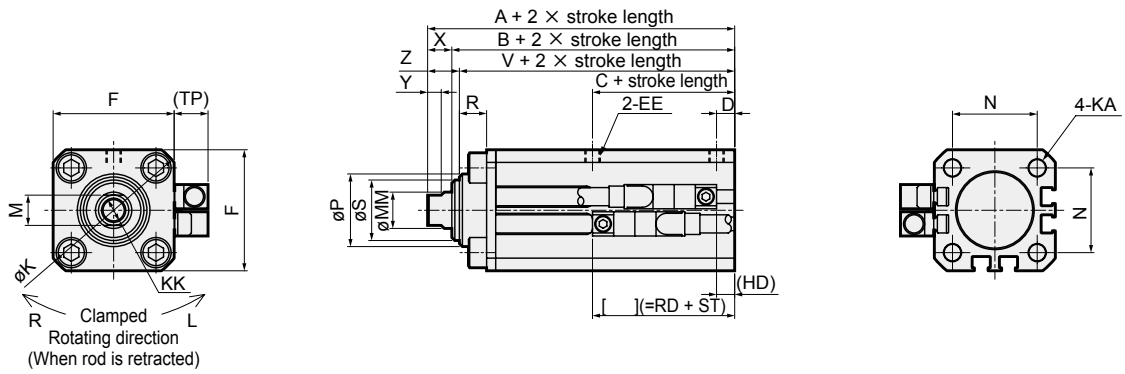
- LCM
- LCR
- LCG
- LCW
- LCX
- STM
- STG
- STS/STL
- STR2
- UCA2
- ULK\*
- JSK/M2
- JSG
- JSC3/JSC4
- USSD
- UFCD
- USC
- UB
- JSB3
- LMB
- LML
- HCM
- HCA
- LBC
- CAC4
- UCAC2
- CAC-N
- UCAC-N
- RCS2
- RCC2**
- PCC
- SHC
- MCP
- GLC
- MFC
- BBS
- RRC
- GRC
- RV3\*
- NHS
- HRL
- LN
- Hand
- Chuk
- MechHnd/Chuk
- ShkAbs
- FJ
- FK
- SpdContr
- Ending



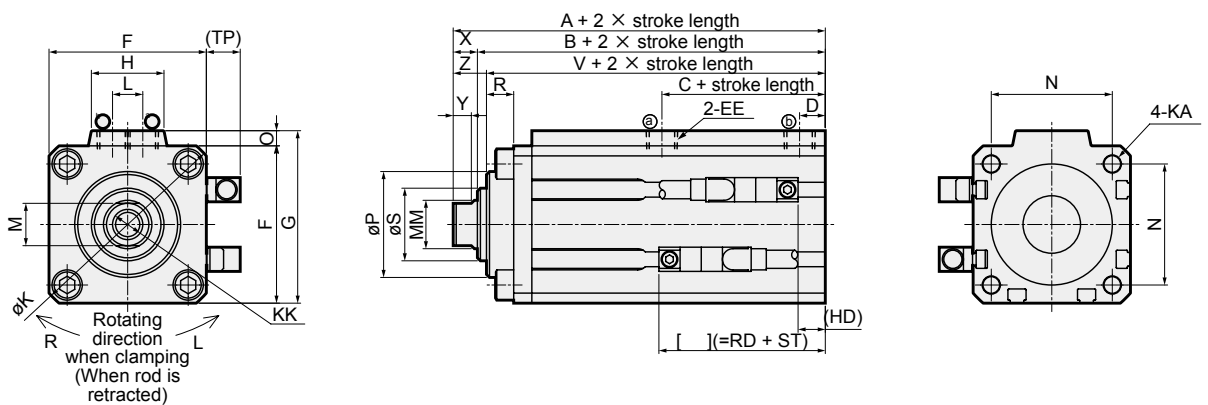
# RCC2-G4 Series

## Dimensions

●  $\varnothing 20, \varnothing 25$



●  $\varnothing 32$  to  $\varnothing 63$



Note) The  $\varnothing 50$  and  $\varnothing 63$  switch grooves differ from the dimensions above. Refer to RCC2 Series double acting/single rod.

Code	A	B	C	D	EE	F	G	H	K	KA	KK	L	M	MM
<b>Bore size</b>														
$\varnothing 20$	58.5	50.5	24	5.5	M5x0.8	36	-	-	47	M6 depth 11	M8 depth 15	-	10	12
$\varnothing 25$	59.5	51.5	26	6	M5x0.8	40	-	-	51	M6 depth 11	M8 depth 15	-	10	12
$\varnothing 32$	72	64	27	8	Rc1/8	45	49.5	24	60	M6 depth 11	M10 depth 15	10	14	16
$\varnothing 40$	73	65	29	8.5	Rc1/8	52	57	24	69	M6 depth 11	M10 depth 15	10	14	16
$\varnothing 50$	77	69	29	10.5	Rc1/4	64	71	33	86	M8 depth 13	M12 depth 15	15	17	20
$\varnothing 63$	88	78	38	11	Rc1/4	77	84	33	103	M10 depth 25	M16 depth 21	15	22	25

Code	N	O	P	R	X	Y	V	Z	S
<b>Bore size</b>									
$\varnothing 20$	25.5	-	24	9	8	4.5	48	10.5	20
$\varnothing 25$	28	-	24	9	8	4.5	49	10.5	20
$\varnothing 32$	34	4.5	30	9	8	6	61	11	24
$\varnothing 40$	40	5	35	9	8	6	62	11	24
$\varnothing 50$	50	7	37	12	8	6	66	11	30
$\varnothing 63$	60	7	48	12	10	8	75	13	36

Switch code	T2/3H, T2/3V			T0/5H, T0/5V			T*YH, T*YV			T2YD*		
	HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP
<b>Bore size</b>												
$\varnothing 20$	7	26	0	6	27	0	6	27	5	6	27	11
$\varnothing 25$	6	25	0	5	26	0	5	26	5	5	26	11
$\varnothing 32$	9	28	0	8	29	0	8	29	5	8	29	11
$\varnothing 40$	10	29	0	9	30	0	9	30	5	9	30	11
$\varnothing 50$	11	30	0	10	31	0	10	31	5	10	31	11
$\varnothing 63$	19	37	0	18	38	0	18	38	5	18	38	11

Note: Installation method of the mountings are the same as those of RCC2 (double acting). Refer to pages 1100 to 1107.