

RCC2

Rotary clamp cylinder

Special

ø16/ø20/ø25/ø32/ø40/ø50/ø63

Overview

The rotary clamp mechanism is incorporated into a square, space saving cylinder.

Ideal for clamping small workpieces such as electronic components.

Simple clean-room specifications (with exhaust port) can also be custom made. Ideal for alignment of liquid crystal glass, etc. Contact CKD for details.

Features

Space saving/square shape
All bore size switch mountable

Reed/proximity/
strong magnetic field proof
switch mountable

Two guide grooves and roller

Two guide grooves are provided on all bore sizes to improve the wear resistance of the grooves. Also, rollers are attached to the guide pins (ø32 to ø50).

Series variation



CONTENTS

● Double acting/single rod (RCC2)	1096
● Double acting/anti-spatter adherence (RCC2-G4)	1108
⚠ Safety precautions	1115

The cylinder switches T2YH, T2YV, T3YH, and T3YV are scheduled for end of production at the end of December 2023.

○: Made to order

Variation	Model No. JIS symbol	Bore size (mm)	Stroke (mm)								Rotor stroke (mm)	Clamp section stroke (mm)	Mounting				Option Rod end 2 widths across flats N4	Switch	Page
			19	21	25	29	31	35	40	70			Basic	Rod side flange	Head side flange	With spigot at head side			
			○			○							00	FA	FB	HI			
Double acting/ single rod	RCC2	ø16	○			○					9		○	○	○	○	○	○	1096
		ø20/ø25		○			○				11	10/20	○	○	○	○			
		ø32/ø40			○			○			15		○	○	○	○			
		ø50/ø63							○	○	20	20/50	○	○	○	○			
Double acting/ anti-spatter adherence	RCC2-G4	ø20/ø25		○			○				11	10/20	○	○	○			○	1108
		ø32/ø40			○			○			15		○	○	○				
		ø50/ø63							○	○	20	20/50	○	○	○				

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



Rotary clamp cylinder Double acting/single rod

RCC2 Series

● Bore size: ø16/ø20/ø25/ø32/ø40/ø50/ø63

JIS symbol  Double acting



Specifications

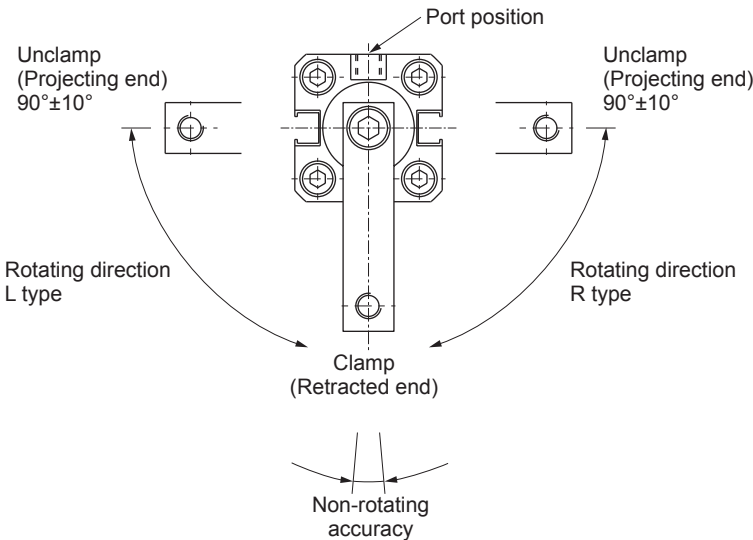
* Made-to-order product.

Item		RCC2						
Bore size	mm	ø16	ø20	ø25	ø32	ø40	ø50	ø63
Actuation		Double acting						
Working fluid		Compressed air						
Max. working pressure MPa		1.0 (≈150 psi, 10 bar)						
Min. working pressure MPa		0.2 (≈29 psi, 2 bar)						
Proof pressure MPa		1.6 (≈230 psi, 16 bar)						
Ambient temperature °C		-10 (14°F) to 60 (140°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°±10°						
Rotating direction		Right/Left						
Non-rotating accuracy (clamping): Initial value		±1°			±0.9°		±0.7°	
Pressurized area	Pull	123	201	377	603	1055	1649	2626
	mm ² Push	201	314	490	804	1256	1963	3117
Durability		1 million times						

Stroke

Bore size (mm)	Stroke (mm)	Rotor stroke (mm)	Clamp section stroke (mm)
ø16	19, 29	9	10, 20
ø20	21, 31	11	10, 20
ø25			
ø32	25, 35	15	10, 20
ø40			
ø50	40, 70	20	20, 50
ø63			

Rotating direction



Switch specifications

● 1-color/2-color LED/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 LED		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 (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	1.01x10 ²	1.21x10 ²	1.41x10 ²	1.61x10 ²	1.81x10 ²	2.01x10 ²	
	Pull	24.5	36.8	49.0	61.3	73.5	85.8	98.0	1.10x10 ²	1.23x10 ²	
ø20	Push	62.8	94.2	1.26x10 ²	1.57x10 ²	1.89x10 ²	2.20x10 ²	2.51x10 ²	2.83x10 ²	3.14x10 ²	
	Pull	40.2	60.3	80.4	1.01x10 ²	1.21x10 ²	1.41x10 ²	1.61x10 ²	1.81x10 ²	2.01x10 ²	
ø25	Push	98.2	1.47x10 ²	1.96x10 ²	2.45x10 ²	2.95x10 ²	3.44x10 ²	3.93x10 ²	4.42x10 ²	4.91x10 ²	
	Pull	75.6	1.13x10 ²	1.51x10 ²	1.89x10 ²	2.27x10 ²	2.64x10 ²	3.02x10 ²	3.40x10 ²	3.78x10 ²	
ø32	Push	1.61x10 ²	2.41x10 ²	3.22x10 ²	4.02x10 ²	4.83x10 ²	5.63x10 ²	6.43x10 ²	7.24x10 ²	8.04x10 ²	
	Pull	1.21x10 ²	1.81x10 ²	2.41x10 ²	3.02x10 ²	3.62x10 ²	4.22x10 ²	4.83x10 ²	5.43x10 ²	6.03x10 ²	
ø40	Push	2.51x10 ²	3.77x10 ²	5.03x10 ²	6.28x10 ²	7.54x10 ²	8.80x10 ²	1.01x10 ³	1.13x10 ³	1.26x10 ³	
	Pull	2.11x10 ²	3.17x10 ²	4.22x10 ²	5.28x10 ²	6.33x10 ²	7.39x10 ²	8.45x10 ²	9.50x10 ²	1.06x10 ³	
ø50	Push	3.93x10 ²	5.89x10 ²	7.85x10 ²	9.82x10 ²	1.18x10 ³	1.37x10 ³	1.57x10 ³	1.77x10 ³	1.96x10 ³	
	Pull	3.30x10 ²	4.95x10 ²	6.60x10 ²	8.25x10 ²	9.90x10 ²	1.15x10 ³	1.32x10 ³	1.48x10 ³	1.65x10 ³	
ø63	Push	6.23x10 ²	9.35x10 ²	1.25x10 ³	1.56x10 ³	1.87x10 ³	2.18x10 ³	2.49x10 ³	2.81x10 ³	3.12x10 ³	
	Pull	5.25x10 ²	7.88x10 ²	1.05x10 ³	1.31x10 ³	1.58x10 ³	1.84x10 ³	2.10x10 ³	2.36x10 ³	2.63x10 ³	

RCC2 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)

RCC2-00-20-21-R

With switch (built-in magnet for switch)

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

A Mounting

B Bore size

C Stroke

D Rotating direction

E Switch model No.

*1
*2

F Switch quantity

G Option

⚠ Precautions for model No. selection

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

2: T3P^Δ, T2Y^Δ*, T3Y^Δ*, 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 : 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

Code	Description
A Mounting	
00	Basic
FA	Rod side flange
FB	Head side flange *3
HI	With spigot at head side

B Bore size (mm)	
16	ø16
20	ø20
25	ø25
32	ø32
40	ø40
50	ø50
63	ø63

C Stroke (mm)			
Stroke	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

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

E Switch model No.					
Axial lead wire	Radial lead wire	Contact	Voltage	Indicator	Lead wire
			ACDC		
T0H*	T0V*	Reed	● ●	1-color LED	2-wire
T5H*	T5V*		● ●	Without LED	
T2H*	T2V*	Proximity	●	1-color LED	2-wire
T3H*	T3V*		●		3-wire
T3PH*	T3PV*		●	1-color LED	3-wire
T2WH*	T2WV*		●	2-color LED	2-wire
T2YH*	T2YV*		●		2-wire
T3WH*	T3WV*		●		3-wire
T3YH*	T3YV*		●		3-wire
T2YD*	-		●	2-color LED	2-wire
T2YDT*	-		●	AC magnetic field	

* Lead wire length (m)

Blank	1 m (standard)
3	3 m (option)
5	5 m (option)

F Switch quantity	
R	1 on rod side
H	1 on head side
D	2

G Option	
Blank	Rod end width across flats
N4	Rod end 2 widths across flats (ø16 only)

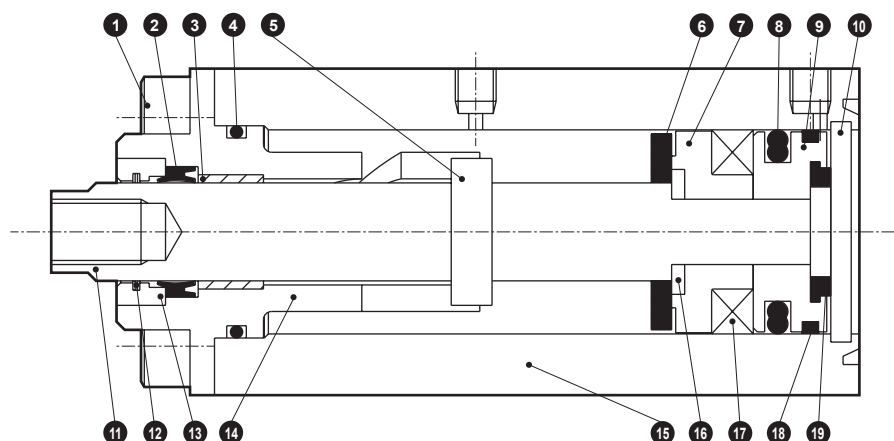
How to order switch

SW-T0H

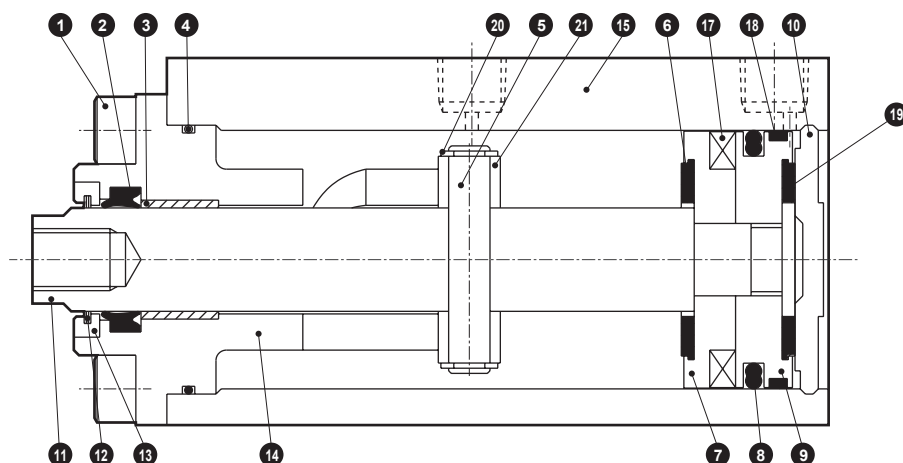
Switch model No.
(Item E above)

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	
ø40	RCC2-40K	
ø50	RCC2-50K	
ø63	RCC2-63K	



Note: 12 Coil scraper is not supplied for ø16.

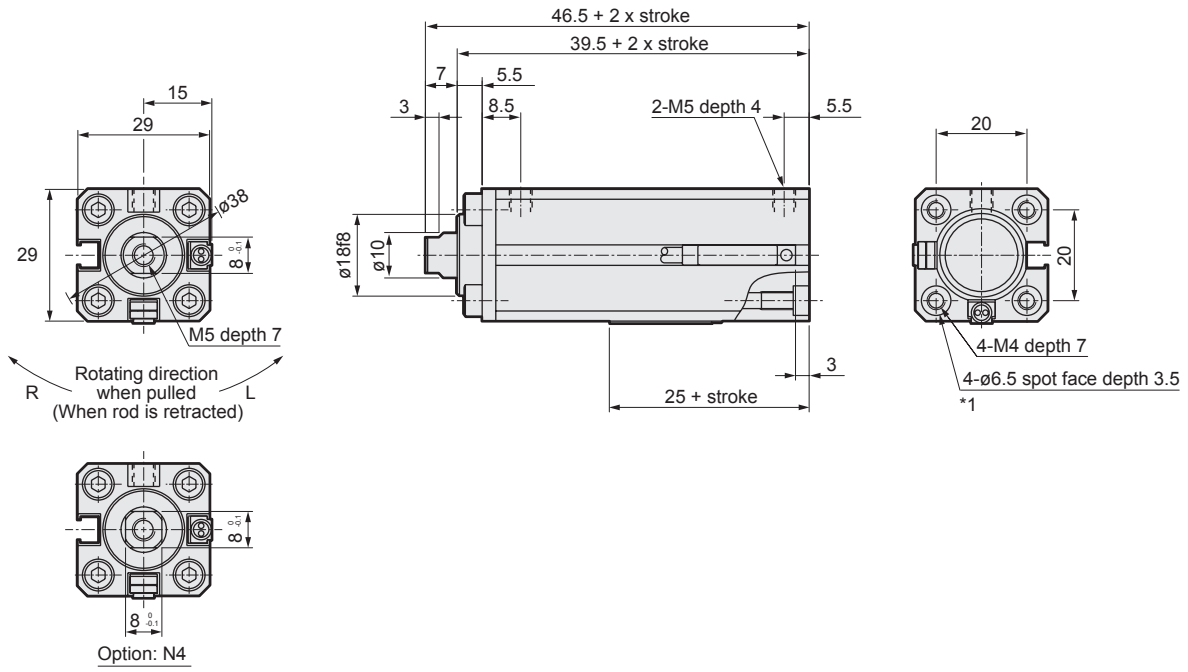
Note: 6 Cushion rubber (R) cannot be replaced for ø16 to ø25.

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
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HRL
LN
Hand
Chuk
MechHnd/Chuk
ShkAbs
FJ
FK
SpdContr
Ending

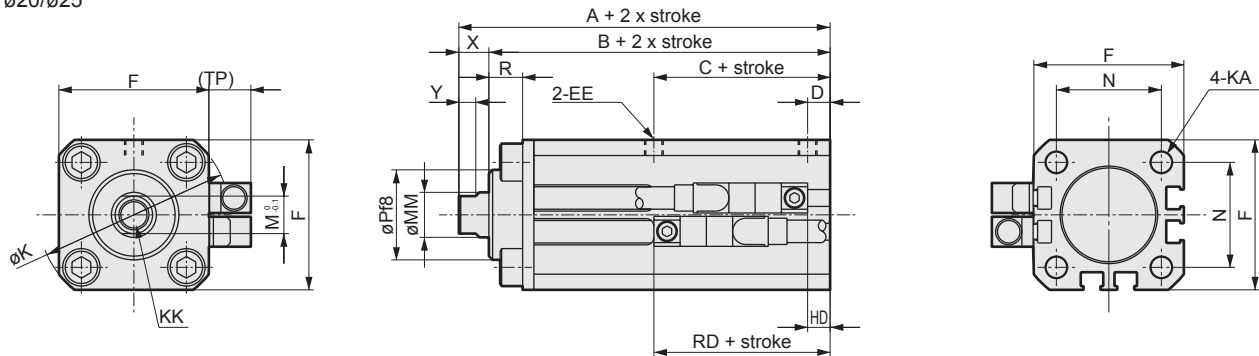
Dimensions (ø16, ø20, ø25)

● 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	M5x0.8	36	47	M6 depth 11	M8 depth 15	10	12	25.5	24	9	8	4.5
ø25	57	49	26	6	M5x0.8	40	51	M6 depth 11	M8 depth 15	10	12	28	24	9	8	4.5

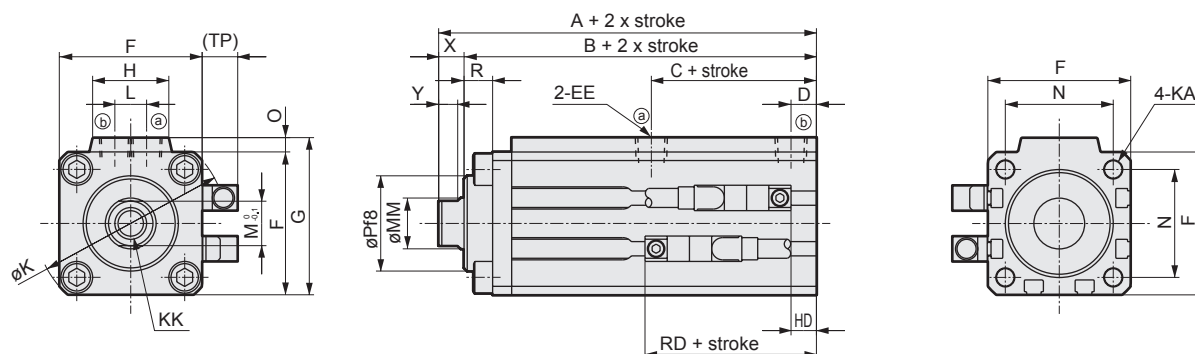
Code	With switch											
Bore size (mm)	T2/3H / T2/3V			T0/5H, T0/5V			T*YH/T*YV			T2YD*		
	HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP
ø20	7	26	0	6	27	0	6	27	5	6	27	11
ø25	6	25	0	5	26	0	5	26	5	5	26	11

*1: Cannot be mounted with a through bolt.

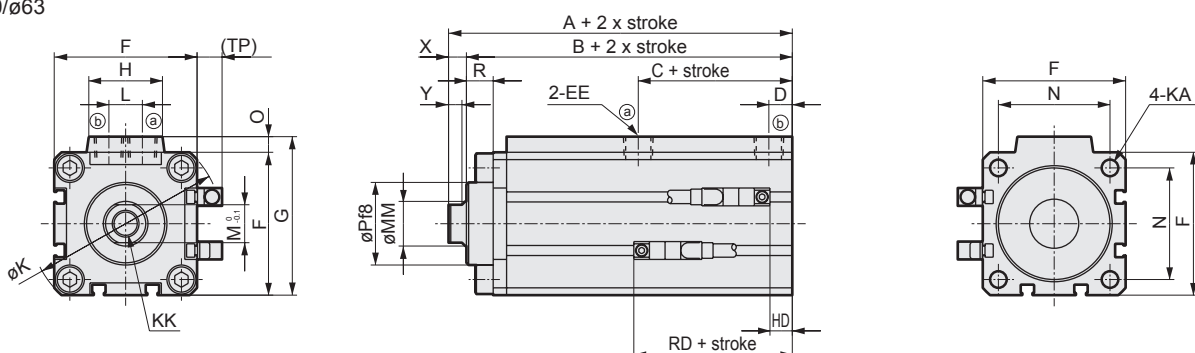
Dimensions (ø32, ø40, ø50, ø63)

• 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
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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

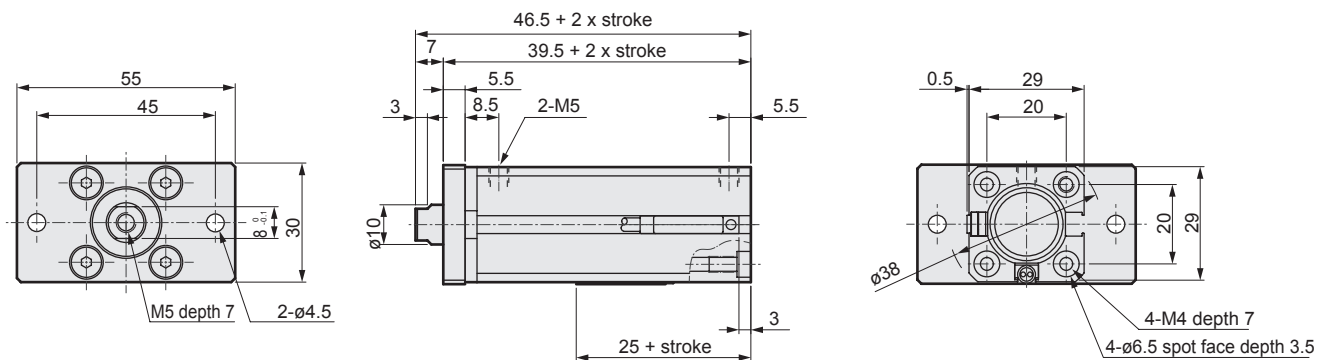
Dimensions



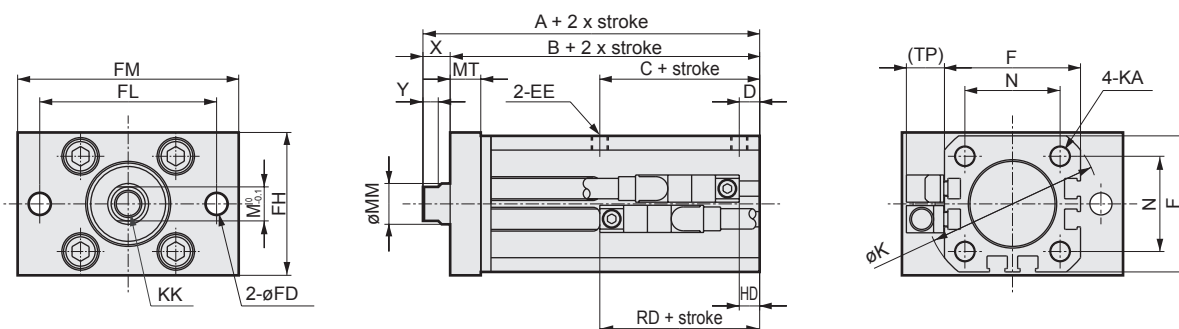
(ø16, ø20, ø25)

● Rod side flange (FA)

ø16



ø20/ø25



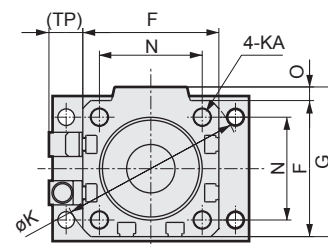
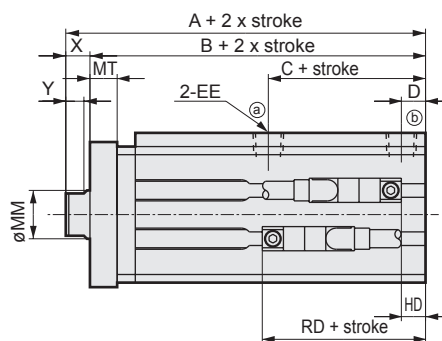
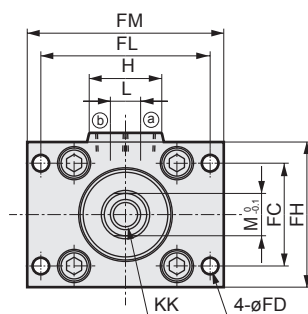
Code	Rod side flange (FA) basic dimensions																	
Bore size (mm)	A	B	C	D	EE	F	K	KA	KK	M	MM	N	X	Y	FD	FH	FL	FM
ø20	56	48	24	5.5	M5x0.8	36	47	M6 depth 11	M8 depth 15	10	12	25.5	8	4.5	6.5	38	48	60
ø25	57	49	26	6	M5x0.8	40	51	M6 depth 11	M8 depth 15	10	12	28	8	4.5	6.5	42	52	65

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

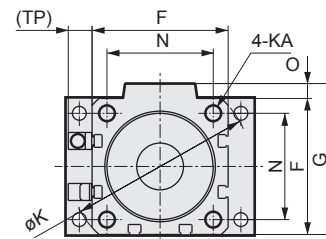
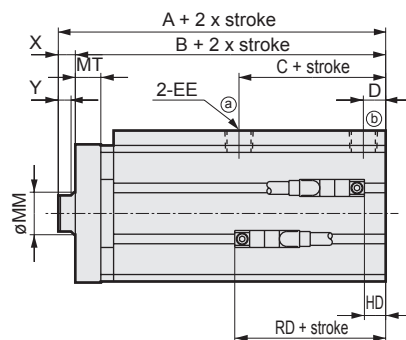
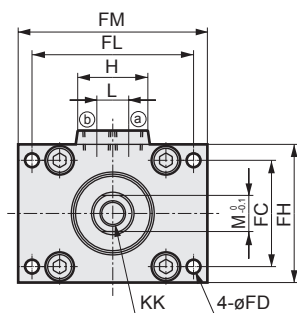
Dimensions (ø32, ø40, ø50, ø63)

● Rod side flange (FA)

ø32/ø40



ø50/ø63

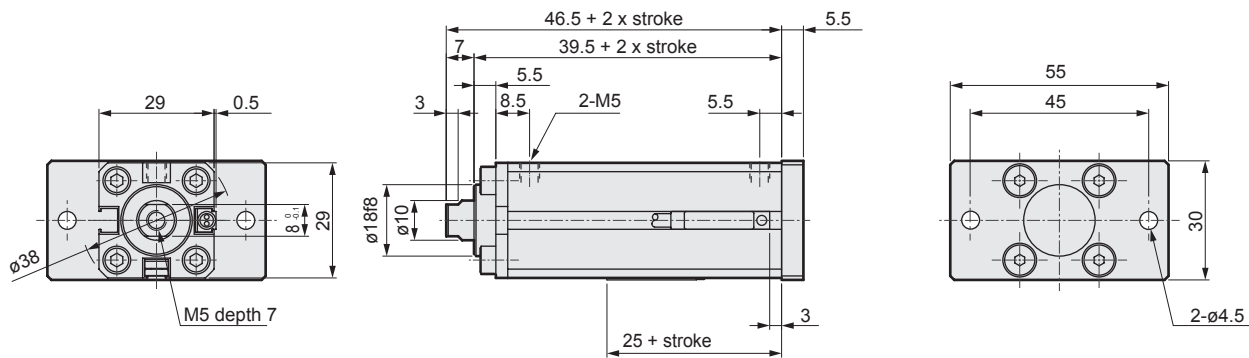


Code	Rod side flange (FA) basic dimensions																	
Bore size (mm)	A	B	C	D	EE	F	G	H	K	KA	KK	L	M	MM	N	O	X	Y
ø32	69	61	27	8	Rc1/8	45	49.5	24	60	M6 depth 11	M10 depth 15	10	14	16	34	4.5	8	6
ø40	70	62	29	8.5	Rc1/8	52	57	24	69	M6 depth 11	M10 depth 15	10	14	16	40	5	8	6
ø50	74	66	29	10.5	Rc1/4	64	71	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

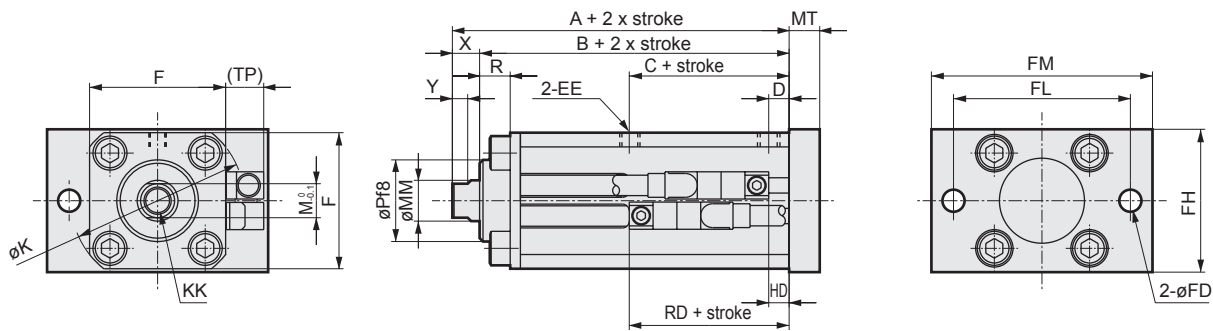
LCM
LCR
LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
RCC2
PCC
SHC
MCP
GLC
MFC
BBS
RRC
GRC
RV3*
NHS
HRL
LN
Hand
Chuk
MechHnd/Chuk
ShkAbs
FJ
FK
SpdContr
Ending

- Head side flange (FB)

Ø16



ø20/ø25

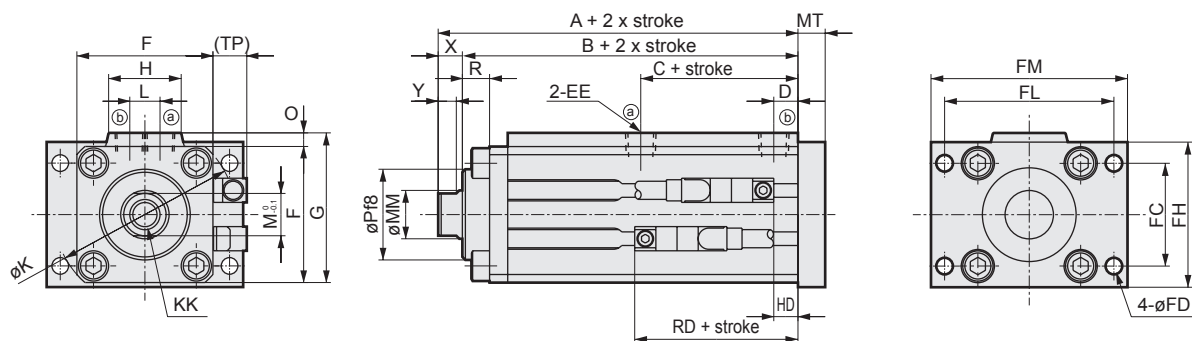


Code	Head side flange (FB) basic dimensions																		
Bore size (mm)	A	B	C	D	EE	F	K	KK	M	MM	P	R	X	Y	FD	FH	FL	FM	MT
ø20	56	48	24	5.5	M5x0.8	36	47	M8 depth 15	10	12	24	9	8	4.5	6.5	38	48	60	9
ø25	57	49	26	6	M5x0.8	40	51	M8 depth 15	10	12	24	9	8	4.5	6.5	42	52	65	9
Code	With switch																		
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							

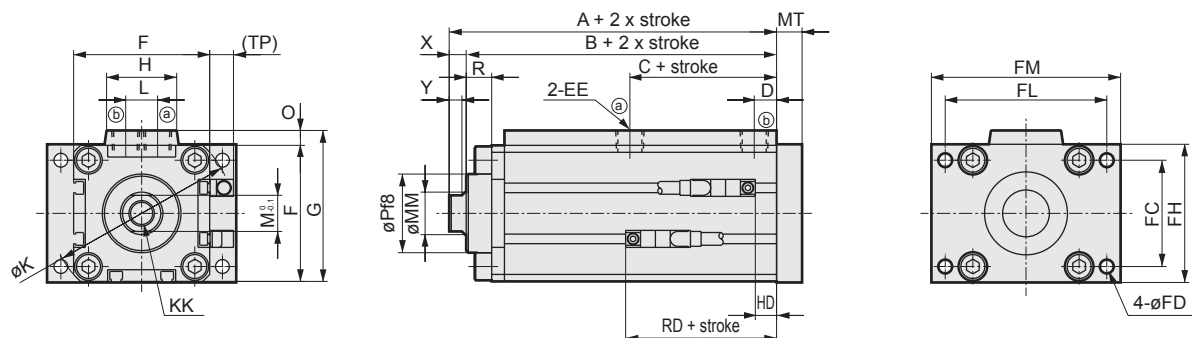
Dimensions (ø32, ø40, ø50, ø63)

● 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
ø32	34	48	56	65	9	9	28	0	8	29	0	8	29	5	8	29
ø40	40	55	62	75	9	10	29	0	9	30	0	9	30	5	9	30
ø50	50	66	76	89	12	11	30	0	10	31	0	10	31	5	10	31
ø63	60	82	92	108	12	19	37	0	18	38	0	18	38	5	18	38

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

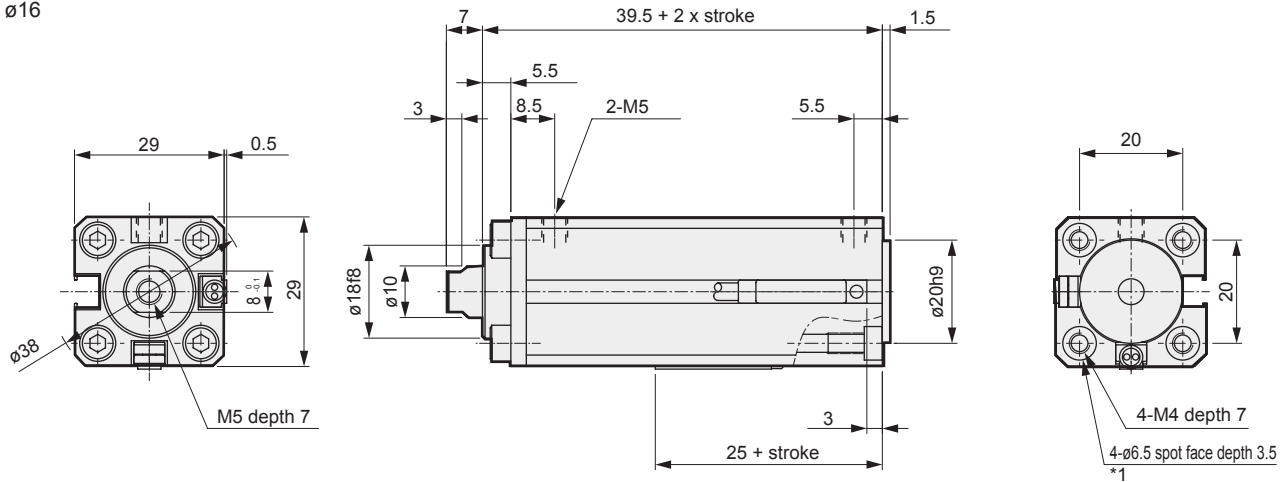
Dimensions



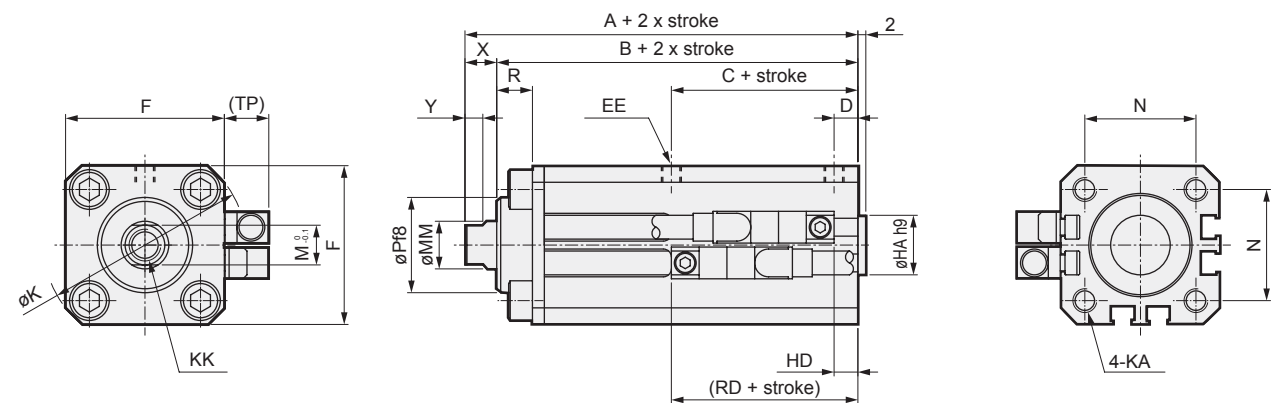
(ø16, ø20, ø25)

● 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	M5x0.8	36	13	47	M6 depth 11	M8 depth 15	10	12	25.5	24	9	8	4.5
ø25	57	49	26	6	M5x0.8	40	15	51	M6 depth 11	M8 depth 15	10	12	28	24	9	8	4.5

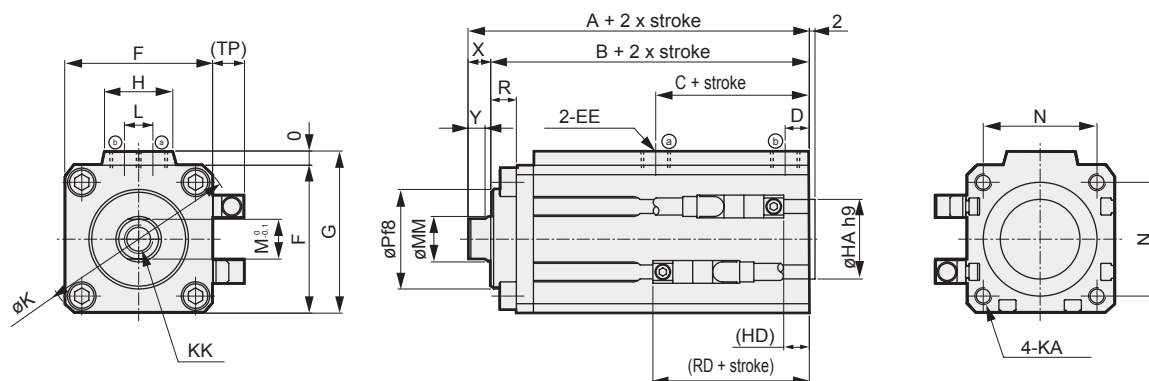
Code	With switch											
Bore size (mm)	T2/3H / T2/3V			T0/5H, T0/5V			T*YH/T*YV			T2YD*		
	HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP
ø20	7	26	0	6	27	0	6	27	5	6	27	11
ø25	6	25	0	5	26	0	5	26	5	5	26	11

*1: Cannot be mounted with a through bolt.

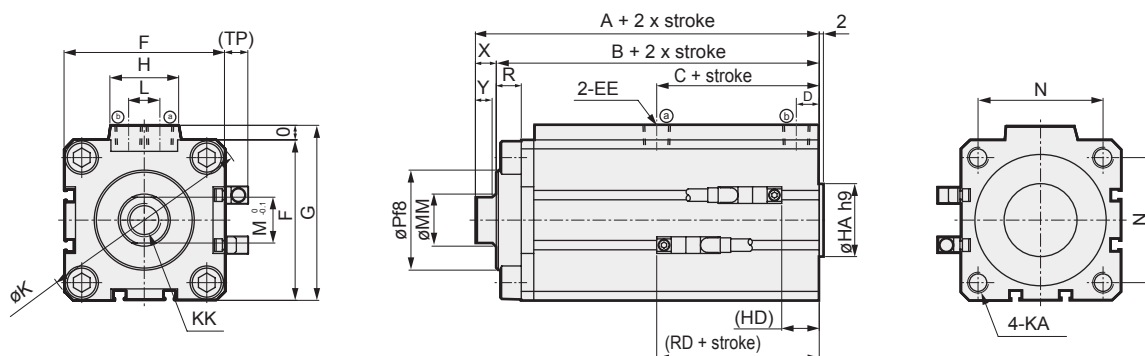
Dimensions (ø32, ø40, ø50, ø63)

● 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
RCC2
PCC
SHC
MCP
GLC
MFC
BBS
RRC
GRC
RV3*
NHS
HRL
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Hand
Chuk
MechHnd/Chuk
ShkAbs
FJ
FK
SpdContr
Ending

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



Rotary clamp cylinder Double acting/anti-spatter adherence

RCC2-G4 Series

● Bore size: ø20/ø25/ø32/ø40/ø50/ø63

JIS symbol



Specifications

* Made-to-order product.

Item			RCC2-G4						
Bore size			mm	ø20	ø25	ø32	ø40	ø50	ø63
Actuation				Double acting					
Max. working pressure			MPa	1 (≈150 psi, 10 bar)					
Min. working pressure			MPa	0.2 (≈29 psi, 2 bar)					
Proof pressure			MPa	1.6 (≈230 psi, 16 bar)					
Ambient temperature			°C	-10 (14°F) to 60 (140°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°±10°					
Rotating direction				Right/Left					
Non-rotating accuracy (clamping): Default value				±1°		±0.9°		±0.7°	
Pressurized area	mm ²	Pulling side	201	377	603	1055	1649	2626	
		Pushing side	314	490	804	1256	1963	3117	

Stroke

Bore size (mm)	Stroke (mm)	Rotor stroke (mm)	Clamp section stroke (mm)
ø20	21, 31	11	10, 20
ø25			
ø32	25, 35	15	10, 20
ø40			
ø50	40, 70	20	20, 50
ø63			

Switch specifications

● 1-color/2-color LED/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 LED		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.

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	1.26x10 ²	1.57x10 ²	1.89x10 ²	2.20x10 ²	2.51x10 ²	2.83x10 ²	3.14x10 ²
	Pull	40.2	60.3	80.4	1.01x10 ²	1.21x10 ²	1.41x10 ²	1.61x10 ²	1.81x10 ²	2.01x10 ²
ø25	Push	98.2	1.47x10 ²	1.96x10 ²	2.45x10 ²	2.95x10 ²	3.44x10 ²	3.93x10 ²	4.42x10 ²	4.91x10 ²
	Pull	75.6	1.13x10 ²	1.51x10 ²	1.89x10 ²	2.27x10 ²	2.64x10 ²	3.02x10 ²	3.40x10 ²	3.78x10 ²
ø32	Push	1.61x10 ²	2.41x10 ²	3.22x10 ²	4.02x10 ²	4.83x10 ²	5.63x10 ²	6.43x10 ²	7.24x10 ²	8.04x10 ²
	Pull	1.21x10 ²	1.81x10 ²	2.41x10 ²	3.02x10 ²	3.62x10 ²	4.22x10 ²	4.83x10 ²	5.43x10 ²	6.03x10 ²
ø40	Push	2.51x10 ²	3.77x10 ²	5.03x10 ²	6.28x10 ²	7.54x10 ²	8.80x10 ²	1.01x10 ³	1.13x10 ³	1.26x10 ³
	Pull	2.11x10 ²	3.17x10 ²	4.22x10 ²	5.28x10 ²	6.33x10 ²	7.39x10 ²	8.45x10 ²	9.50x10 ²	1.06x10 ³
ø50	Push	3.93x10 ²	5.89x10 ²	7.85x10 ²	9.82x10 ²	1.18x10 ³	1.37x10 ³	1.57x10 ³	1.77x10 ³	1.96x10 ³
	Pull	3.30x10 ²	4.95x10 ²	6.60x10 ²	8.25x10 ²	9.90x10 ²	1.15x10 ³	1.32x10 ³	1.48x10 ³	1.65x10 ³
ø63	Push	6.23x10 ²	9.35x10 ²	1.25x10 ³	1.56x10 ³	1.87x10 ³	2.18x10 ³	2.49x10 ³	2.81x10 ³	3.12x10 ³
	Pull	5.25x10 ²	7.88x10 ²	1.05x10 ³	1.31x10 ³	1.58x10 ³	1.84x10 ³	2.10x10 ³	2.36x10 ³	2.63x10 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
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

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

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 : 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
A Mounting	
00	Basic
FA	Rod side flange
FB	Head side flange *2
HI	With spigot at head side

B Bore size (mm)	
20	$\varnothing 20$
25	$\varnothing 25$
32	$\varnothing 32$
40	$\varnothing 40$
50	$\varnothing 50$
63	$\varnothing 63$

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

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

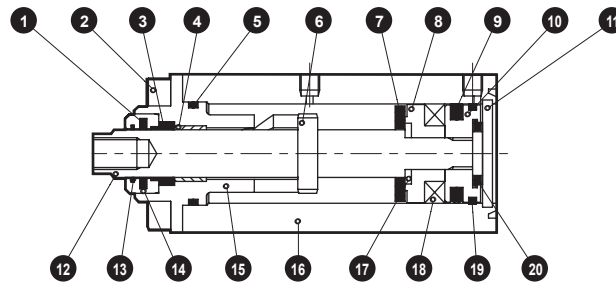
E Switch model No.						
Axial lead wire	Axial lead wire	Contact	Voltage		Indicator	Lead wire
			AC	DC		
T0H*	T0V*	Reed	●	●	1-color LED	2-wire
T5H*	T5V*		●	●	Without LED	
T2H*	T2V*	Proximity		●	1-color LED	2-wire
T3H*	T3V*			●		3-wire
T3PH*	T3PV*			●	1-color LED	3-wire
T2WH*	T2WV*			●	2-color LED	2-wire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

* Lead wire length (m)	
Blank	1 m (standard)
3	3 m (option)
5	5 m (option)

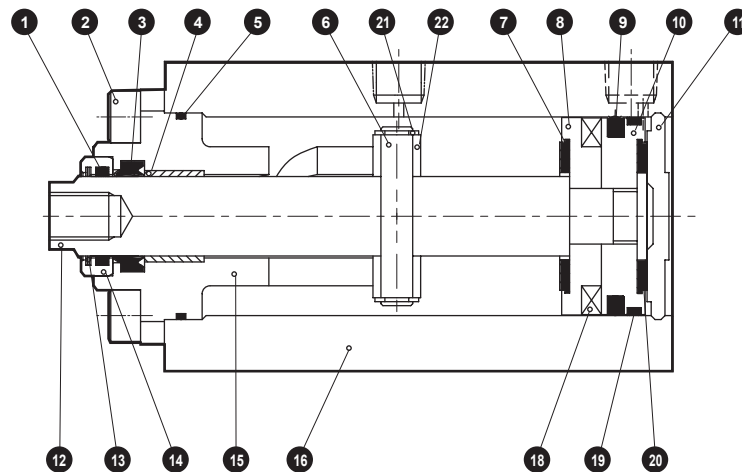
F Switch quantity	
R	1 on rod side
H	1 on head side
D	2

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	

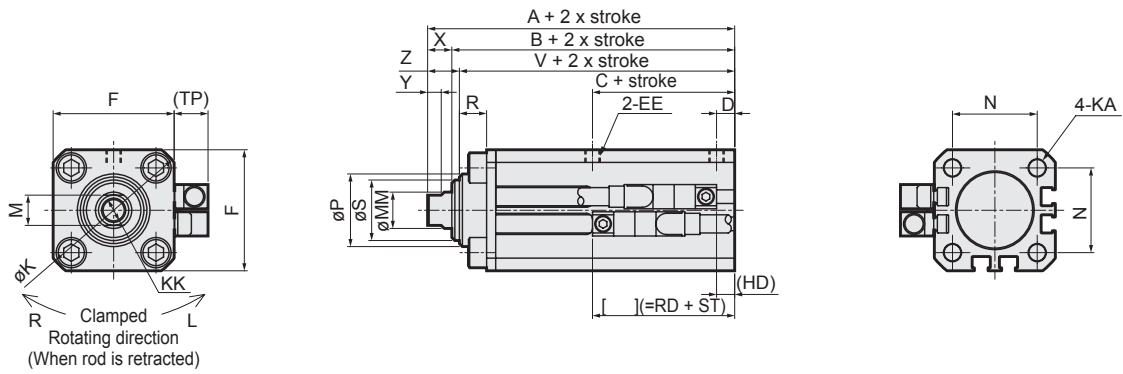
Note: 7 Cushion rubber (R) cannot be replaced for ø20 and ø25.
Note: Contact CKD separately if 1 Lube keeping structure is required.

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

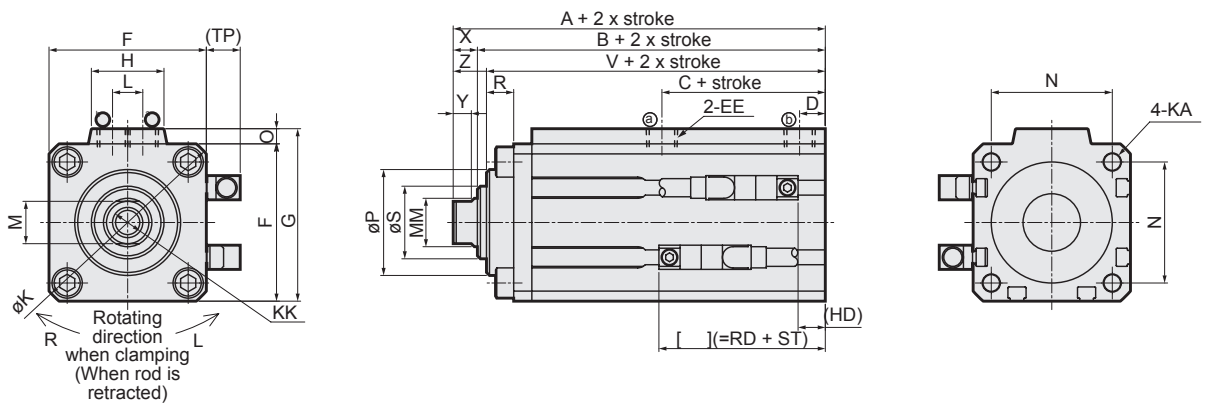
RCC2-G4 Series

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
Bore size														
$\varnothing 20$	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
Bore size									
$\varnothing 20$	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

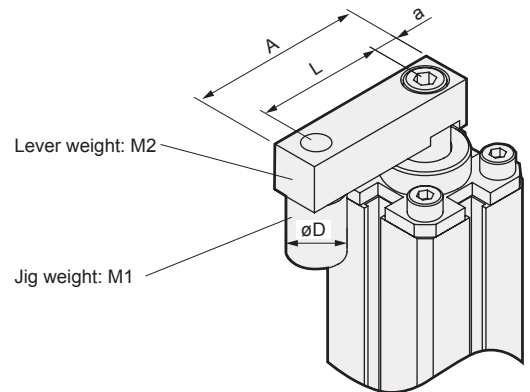
Switch code	T2/3H, T2/3V			T0/5H, T0/5V			T*YH, T*YV			T2YD*		
Bore size	HD	RD	TP	HD	RD	TP	HD	RD	TP	HD	RD	TP
ø20	7	26	0	6	27	0	6	27	5	6	27	11
ø25	6	25	0	5	26	0	5	26	5	5	26	11
ø32	9	28	0	8	29	0	8	29	5	8	29	11
ø40	10	29	0	9	30	0	9	30	5	9	30	11
ø50	11	30	0	10	31	0	10	31	5	10	31	11
ø63	19	37	0	18	38	0	18	38	5	18	38	11

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

Technical data (selection example)

[Specifications]

- Required clamping force: 400 N
- Working pressure: 0.5 MPa
- Maximum piston speed: 100 mm/s
- Lever shape
 - M2:0.31 kg L:0.080 m
 - A:0.1 m a:0.010 m
- Jig shape
 - M1:0.04 kg D:0.020 m



1. Calculate the required pressurized area.

$$\text{Required pressurized area (mm}^2\text{)} = \frac{\text{Required clamping force (N)}}{\text{Working pressure (MPa)} \times \text{efficiency}} = \frac{400}{0.5 \times 80\%} = 1,000 \text{ (mm}^2\text{)}$$

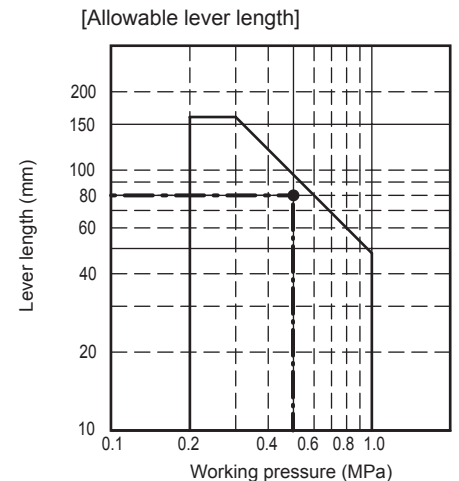
Note) Efficiency varies depending on lever length or cylinder resistance.

2. Select the cylinder size from the pressurized area (retracted side) given in the specifications list.

ø40 pressurized area: 1,055 (mm²) > required pressurized area: 1,000 (mm²)

3. Confirm the allowable lever length.

Working pressure 0.5 MPa, lever length 80 mm
 Confirm with the graph on page 1115
 → Within usable range



4. Confirm the allowable moment of inertia for lever.

Calculating moment of inertia
 (Use the formula for concentrated load on page 1114)

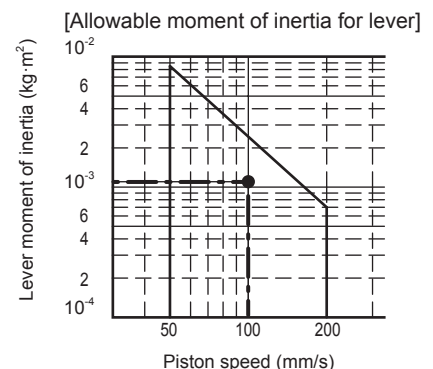
$$\text{Moment of inertia } I = M_1 (R_1^2 + K_1^2) + \frac{M_2 R_2^2}{3}$$

$$R_1 = L, R_2 = A - a, K_1^2 = \frac{D^2}{8}$$

$$I = 0.04 \times (0.08^2 + \frac{0.02^2}{8}) + \frac{0.31 \times (0.1 - 0.01)^2}{3}$$

$$= 1.10 \times 10^{-3} \text{ kg} \cdot \text{m}^2$$

Moment of inertia $1.10 \times 10^{-3} \text{ kg} \cdot \text{m}^2$
 Maximum piston speed 100 mm/s
 Confirm with the graph on page 1115
 → Within usable range



Based on the above, size ø40 is selected.

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

Figure for moment of inertia calculation

Shape	Sketch	Requirements	Moment of inertia I kg·m ²	Rotation radius	K _i ²	Remarks
Dial plate		● Diameter d (m) ● Weight M (kg)	$I = \frac{Md^2}{8}$	$\frac{d^2}{8}$		● No mounting direction
Circular stepped plate		● Diameter d₁(m) ● Diameter d₂(m) ● Weight d₁ Part M₁ (kg) ● Weight d₂ Part M₂ (kg)	$I = \frac{1}{8}(M_1d_1^2 + M_2d_2^2)$	$\frac{d_1^2 + d_2^2}{8}$		● Ignore when the d ₂ section is extremely small compared to the d ₁ section
Bar (center of rotation at end)		● Bar length R (m) ● Weight M (kg)	$I = \frac{MR^2}{3}$	$\frac{R^2}{3}$		● The mounting direction is horizontal.
Thin rod		● Bar length R₁ ● Bar length R₂ ● Weight M₁ ● Weight M₂	$I = \frac{M_1R_1^2}{3} + \frac{M_2R_2^2}{3}$	$\frac{R_1^2 + R_2^2}{3}$		● The mounting direction is horizontal.
Bar (center of rotation / gravity)		● Bar length R (m) ● Weight M (kg)	$I = \frac{MR^2}{12}$	$\frac{R^2}{12}$		● No mounting direction
Thin rectangle plate (rectangular parallelepiped)		● Plate length a₁ ● Side length a₂ ● Side length b ● Weight M₁ ● Weight M₂	$I = \frac{M_1}{12}(4a_1^2 + b^2) + \frac{M_2}{12}(4a_2^2 + b^2)$	$\frac{(4a_1^2 + b^2) + (4a_2^2 + b^2)}{12}$		● The mounting direction is horizontal.
Rectangular parallelepiped		● Side length a (m) ● Side length b (m) ● Weight M(kg)	$I = \frac{M}{12}(a^2 + b^2)$	$\frac{a^2 + b^2}{12}$		● No mounting direction
Concentrated load		● Shape of concentrated load ● Length to center of gravity of concentrated load R₁ ● Arm length R₂ (m) ● Concentrated load weight M₁ (kg) ● Arm weight M₂ (kg)	$I = M_1(R_1^2 + k_1^2) + \frac{M_2R_2^2}{3}$	Calculate k ₁ ² according to shape of concentrated load		● The mounting direction is horizontal. ● When M₂ is extremely small compared to M₁, it may be calculated as M₂ = 0



Pneumatic components

Safety Precautions

Be sure to read this section before use.

Refer to Intro Page 73 for general information of the cylinder, and to Intro Page 80 for general information of the cylinder switch.

Product-specific cautions: Rotary clamp cylinder RCC2 Series

Design/selection

1. Common

⚠ WARNING

- In this cylinder, the piston rod strokes while rotating (90°) during its operation.

Make sure that the lever mounted to the piston rod end does not interfere with the exterior while rotating.

If the rotation of the lever attached to the piston rod end could cause bodily injury, be sure to provide safety measures by installing a protective cover, etc.

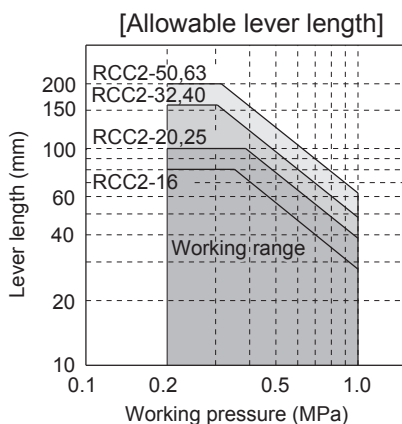
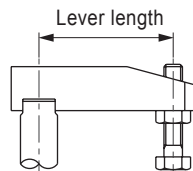
⚠ CAUTION

- Clamp position

- Do not clamp during a rotation operation.
Adjust the clamping position to be approx. 3 mm or more before the stroke end position.
- Do not clamp the product so as to apply rotational force to the piston rod.
(a) Do not clamp the product in the rotational direction.
(b) Do not clamp the inclined portion.
(c) Do not use if the workpiece moves while clamping.

- Lever length and working pressure

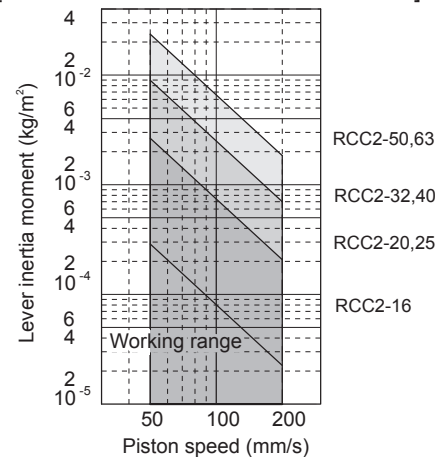
Set the lever length and working pressure within the range shown below.



- Lever inertia moment and piston speed

Set the lever's moment of inertia and the piston speed within the range shown below.

[Allowable moment of inertia for lever]



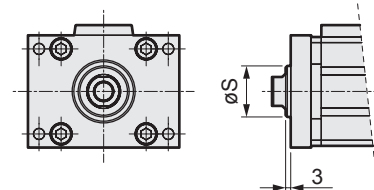
Note: The allowable lever inertia moment graph is only compatible with vertical installation

- Working environment

Coil scraper for welding environment is not built in for ø16.

2. Anti-spatter adherence RCC2-G4

- The durability of this cylinder is improved in comparison to standard cylinders when used in an atmosphere exposed to spatter. However, durability may be shorter than the standard cylinder when used other than in an atmosphere exposed to spatter. Do not use this cylinder in atmospheres other than those with spatter.
- Spatter adherence prevention agent is volatile. If the agent starts drying up on the rod surface, apply the agent to the rod surface again.
- When using the FA mounting (rod side flange), use caution with the holder protruding from the flange end.



Bore size	S
ø20	20
ø25	20
ø32	24
ø40	24
ø50	30
ø63	36

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

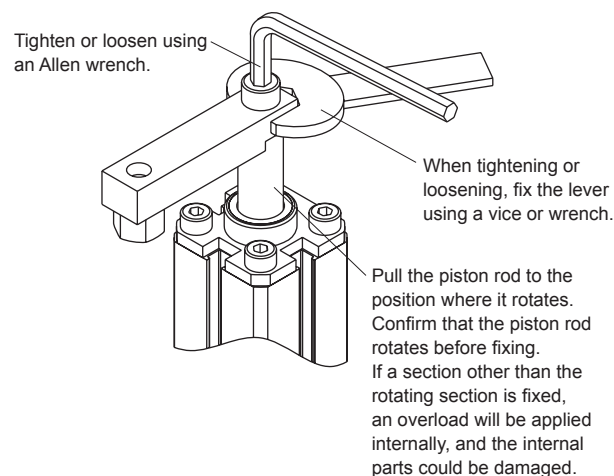
Mounting, installation and adjustment

⚠ WARNING

- In this cylinder, the piston rod strokes while rotating (90°) during its operation.
As the lever mounted to the piston rod end rotates, do not insert your hands or enter the drive zone during operation.

⚠ CAUTION

- Mounting and removing the lever
Use the following procedures to attach and remove the lever. (Applying excessive rotational force to the piston rod may cause damage to the internal parts.)



■ Piston speed

Adjust the speed within the range given in the lever moment of inertia and piston speed graphs.

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