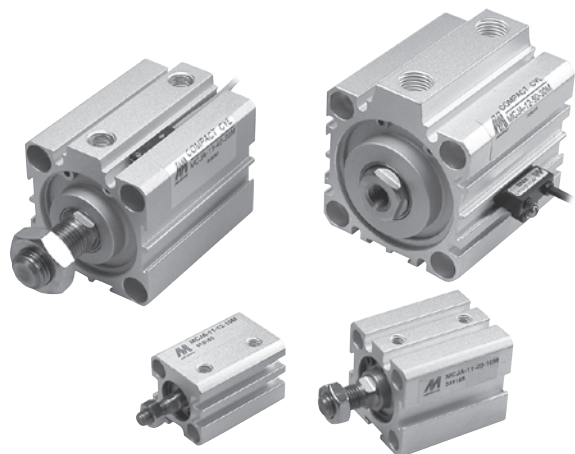




Order example

MCJA — 12 — 40 — 25 M — □

MODEL

TUBE I.D.

M: Magnet

STROKE

PORT THREAD
Blank: M5×0.8
(for ø12~ø25)
Blank: Rc thread
G: G thread
NPT: NPT thread
(for ø32~ø100)

1: Single rod
2: Double rod

STYLE

Code	Symbol	Description
1 1		Double acting / Male thread
1 2		Double acting / Female thread
1 3		Single acting / Normally extended male thread
1 4		Single acting / Normally extended female thread
1 5		Single acting / Normally returned male thread
1 6		Single acting / Normally returned female thread
2 1		Double rod / Male thread
2 2		Double rod / Female thread
2 3		Single acting / Double rod / Male thread
2 4		Single acting / Double rod / Female thread
2 7		Double rod / Adjustable male thread Please mark "adjustable stroke" at order list
2 8		Double rod / Adjustable female thread Please mark "adjustable stroke" at order list

* Order example for special specification, refer to page 0-7.

Features

- Ultra Compact, light weight and space saving cylinder.
- Wide range of bore sizes and strokes (12mm~100mm).
- Single and double acting available.
- Ideal for use in machinery where space is limited and incorporating sensor groove which enables flush fitting of sensors.

Specification

Model	MCJA				
Acting type	Double acting / Single acting				Double acting
Tube I.D. (mm)	12	16	20	25	32 40 50 63 80 100
Port size	M5×0.8		Rc1/8	Rc1/4	Rc3/8
Medium	Air				
Operating pressure range (MPa)	Double acting	0.05~1	0.03~1	0.02~1	
	Single acting	0.2~1	0.15~1	0.1~1	—
Proof pressure	1.5 MPa				
Ambient temperature	-5°C~+60°C (No freezing)				
Available speed range	50~500 mm/sec				
Sensor switch (*)	RCE, RCE1, RDEP				

* RCE, RCE1, RDEP specification, please refer to page 8-12, 13, 18. RDEP only for tube I.D. ø12~ø50.

Double acting – Table for standard stroke

Tube I.D.	Stroke (mm)	Max. stroke
ø12,16	5,10,15,20,25,30	300
ø20,25,32,40,50,63,80	5,10,15,20,25,30,35,40,45,50	300
ø100	5,10,15,20,25,30,35,40,45,50	125

* Please contact us if the stroke is out of specification.

Single acting – Table for standard stroke

Tube I.D.	Stroke (mm)
ø12,16,20,25,32,40	5,10,15,20,25,30
ø50	5,10,15,20

* Please contact us if the stroke is out of specification.

Rod nut

Code	NUT
Mounting Tube I.D.	
$\varnothing 12$	NUT-M5x0.8x4Hx8B
$\varnothing 16$	
$\varnothing 20$	NUT-M6x1.0x5Hx10B
$\varnothing 25$	NUT-M8x1.25x5Hx13B
$\varnothing 32$	NUT-M10x1.25x6Hx17B
$\varnothing 40$	NUT-M14x1.5x8Hx22B
$\varnothing 50$	NUT-M18x1.5x11Hx26B
$\varnothing 63$	
$\varnothing 80$	NUT-M22x1.5x13Hx32B
$\varnothing 100$	NUT-M26x1.5x14Hx35B

Flat washer kits

Code	WS
Fig Tube I.D.	
$\varnothing 12$	WS-MCJA-12
$\varnothing 16$	WS-MCJA-16
$\varnothing 20$	WS-MCJA-20
$\varnothing 25$	WS-MCJA-25
$\varnothing 32$	WS-MCJA-32
$\varnothing 40$	WS-MCJA-40
$\varnothing 50$	WS-MCJA-50
$\varnothing 63$	WS-MCJA-63
$\varnothing 80$	WS-MCJA-80
$\varnothing 100$	WS-MCJA-100

Weight

Cylinder weight

Unit: g

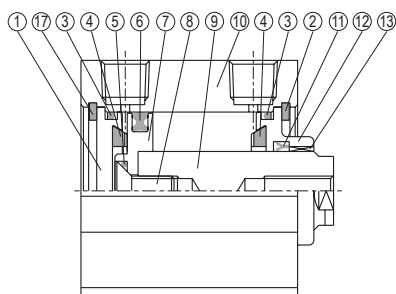
Model	Basic weight MCJA-11	Basic weight (magnet) MCJA-11	Stroke 5 mm MCJA-11	Basic weight MCJA-12	Basic weight (magnet) MCJA-12	Stroke 5 mm MCJA-12
Tube I.D.						
$\varnothing 12$	43	45	6	41	43	6
$\varnothing 16$	60	65	8	57	63	8
$\varnothing 20$	84	92	11	79	87	11
$\varnothing 25$	101	114	14	106	120	14
$\varnothing 32$	170	187	16	155	173	16
$\varnothing 40$	274	300	23	235	261	23
$\varnothing 50$	448	479	32	384	415	32
$\varnothing 63$	635	699	40	571	634	40
$\varnothing 80$	1178	1275	61	1057	1153	61
$\varnothing 100$	2058	2231	83	1806	1980	83

* The weight is based on 5 mm stroke.

Accessories weight

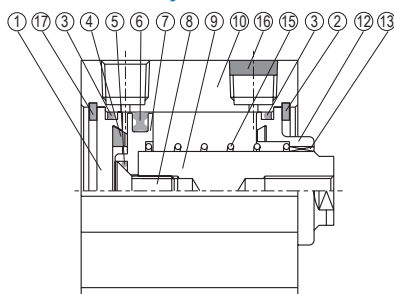
Model	Rod nut
Tube I.D.	
$\varnothing 12$	1
$\varnothing 16$	1
$\varnothing 20$	2
$\varnothing 25$	4
$\varnothing 32$	8
$\varnothing 40$	18
$\varnothing 50$	32
$\varnothing 63$	32
$\varnothing 80$	56
$\varnothing 100$	56

Double acting



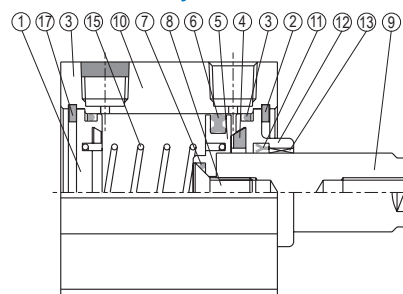
Single acting

Normally returned



Single acting

Normally extended

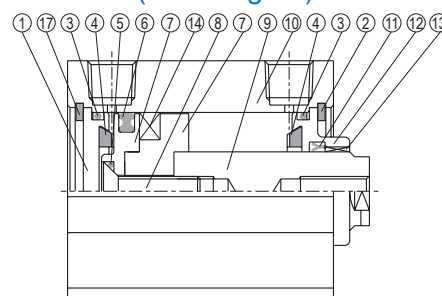


Seal kit

Acting type	Rod packing		Piston packing		Cover ring	Piston gasket
	Double action normally extended	Normally returned	Double acting	Single acting	Double acting single acting	Double acting single acting
Q'y	1	0	1	1	2	1
ø12	KSYR-6	—	OPA-12	OPA-12	S-12	d4×w1
ø16	KSYR-6	—	OPA-16	OPA-16	S-14	d4×w1
ø20	KSYR-8	—	OPA-20	OPA-20	S-18	d6×w1
ø25	KSYR-10	—	OPA-25	OPA-25	S-22	d8×w1
ø32	KSYR-12	—	OPA-32	OPA-32	d28×w2	S-9
ø40	KSYR-16	—	OPA-40	OPA-40	S-36	S-9
ø50	KSYR-20	—	OPA-50	OPA-50	AS-31	S-16
ø63	KSYR-20	—	OPA-63	—	AS-35	S-16
ø80	ORA-25	—	OPA-80	—	AS-41	d20×w1
ø100	SDR-30	—	OPA-100	—	S-95	S-26

Double acting

(with magnet)



Order example Component parts

Tube I.D.	Component parts
ø12	CP-MCJA-12(M)
ø16	CP-MCJA-16(M)
ø20	CP-MCJA-20(M)
ø25	CP-MCJA-25(M)
ø32	CP-MCJA-32(M)
ø40	CP-MCJA-40(M)
ø50	CP-MCJA-50(M)
ø63	CP-MCJA-63(M)
ø80	CP-MCJA-80(M)
ø100	CP-MCJA-100(M)

M: With magnet

Material

No.	Tube I.D. Part name	12	16	20	25	32	40	50	63	80	100	Q'y	Component parts (inclusion)	Repair kits (inclusion)
1	Head cover	Aluminum alloy										1	●	
2	Snap ring (Front end)	*2	spring steel		*2		Spring steel					1	●	
3	Cover ring	NBR										2	●	●
4	Cushion packing	—		NBR								2	●	●
5	Piston gasket	NBR										1	●	●
6	Piston packing	NBR										1	●	●
7	Piston	Aluminum alloy										1	●	
8	Screw	With magnet		Stainless steel			SCM					1	●	
		Without magnet		SCM	Stainless steel		SCM					1	●	
9	Piston rod *1	With magnet		Stainless steel			Carbon steel					1		
		Without magnet		*2		Carbon steel						1		
10	Body	Aluminum alloy										1		
11	Rod packing	NBR										1*3	●	●
12	Rod cover	Aluminum alloy										1	●	
13	Bush	—				Bearing alloy						1	●	
14	Magnet ring	Magnet material										1	●	
15	Spring	SWP							—			1	●	
16	Silencer	Brass							—			1	●	
17	Snap ring (Rear end)	Stainless steel					Spring steel					1	●	

*1. When customized material is bearing steel, only two-side across flat (wrench flat) is available.

*2. Stainless steel

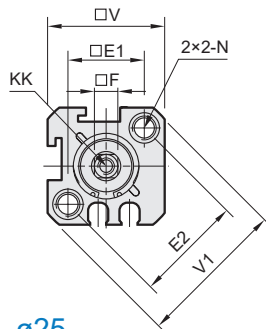
*3. Single acting / Normally returned, Q'y=0.

Repair kits

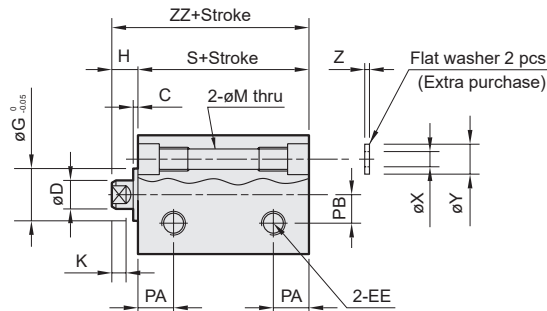
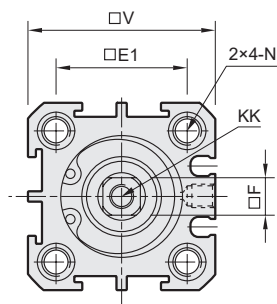
Tube I.D.	Repair kits
ø12	PS-MCJA-12
ø16	PS-MCJA-16
ø20	PS-MCJA-20
ø25	PS-MCJA-25
ø32	PS-MCJA-32
ø40	PS-MCJA-40
ø50	PS-MCJA-50
ø63	PS-MCJA-63
ø80	PS-MCJA-80
ø100	PS-MCJA-100

12

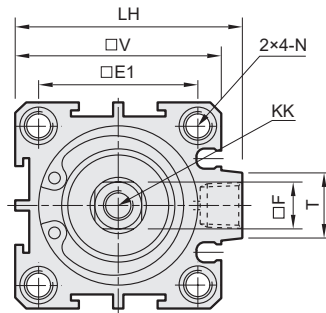
$\phi 12, \phi 16$



$\phi 20, \phi 25$



$\phi 32 \sim \phi 100$



Long stroke

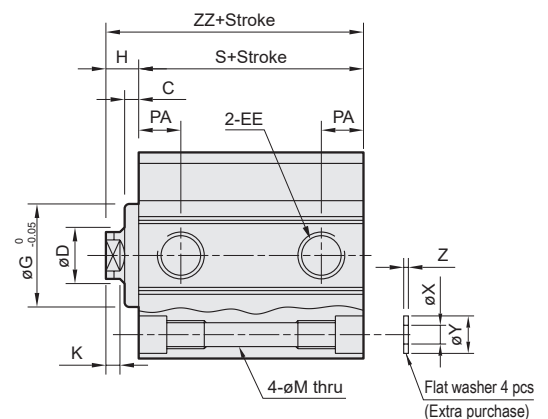
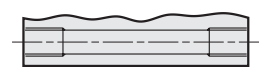
Without counter bore

With magnet type:
The stroke length must be over 100mm.
Without magnet type:
The stroke length must be over 110mm.

$\phi 12, \phi 16$



$\phi 20 \sim \phi 100$



Code Tube I.D.	C	D	EE	E1	E2	F	G	H	K	KK	LH	M	N	PA	PB
12	1	6	M5×0.8	16.3	23	5	11	5	3	M3×0.5×6depth	—	4.3	φ6.5×4.5depth, M5×0.8×7.5depth	6.5	6
16	1.5	6	M5×0.8	19.8	28	5	11	5.5	3	M3×0.5×6depth	—	4.3	φ6.5×4.5depth, M5×0.8×7.5depth	7	6.5
20	1.5	8	M5×0.8	24	—	6	15	5.5	3	M4×0.7×8depth	—	4.3	φ6.5×4.5depth, M5×0.8×7.5depth	7.5	—
25	2	10	M5×0.8	28	—	8	17	6	3	M5×0.8×10depth	—	5.1	φ9×7depth, M6×1.0×10depth	8	—
32	3	12	Rc1/8 (*1)	34	—	10	22	7	3	M6×1.0×12depth	48.5	5.1	φ9×7depth, M6×1.0×10depth	9	—
40	3	16	Rc1/8 (*1)	40	—	14	28	7	3	M8×1.25×12depth	56.5	6.9	φ10.5×8depth, M8×1.25×12depth	10	—
50	4	20	Rc1/4 (*2)	48	—	17	38	9	3	M10×1.5×15depth	70	6.9	φ11×8.5depth, M8×1.25×16.5depth	10	—
63	4	20	Rc1/4 (*2)	60	—	17	40	9	3	M10×1.5×15depth	83	6.9	φ11×8.5depth, M8×1.25×16.5depth	12	—
80	5	25	Rc3/8 (*3)	74	—	22	45	11	4	M14×1.5×20depth	102	10.5	φ14×10.5depth, M12×1.75×12depth	13	—
100	5	30	Rc3/8 (*3)	90	—	27	55	12	4	M18×1.5×20depth	122	12.3	φ18.5×13depth, M14×2×17depth	17	—

*1. Without magnet with stroke=5mm, EE=M5×0.8

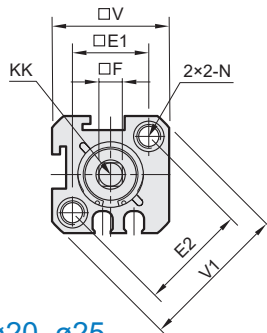
*2. Without magnet with stroke=5mm, EE=Rc1/8

*3. Without magnet with stroke=5mm, EE=Rc1/4

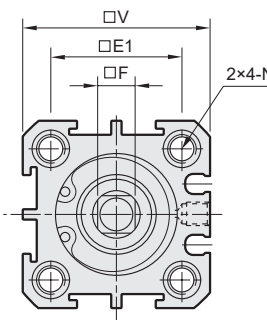
Code Tube I.D.	T	V	V1	X	Y	Z	Without magnet		Magnet	
							S	ZZ	S	ZZ
12	—	25	32	3.2	6.3	1	17	22	27	32
16	—	29	38	3.2	6.3	1	18.5	24	28.5	34
20	—	34	—	3.2	6.3	1	19.5	25	29.5	35
25	—	40	—	4.2	7.8	1	21	27	31	37
32	14	44	—	4.2	7.8	1	24.5	31.5	34.5	41.5
40	14	52	—	6.2	10.3	1.6	26	33	36	43
50	19	62	—	6.2	10.8	1.6	28	37	38	47
63	20	75	—	6.2	10.8	1.6	32	41	42	51
80	27	94	—	8.2	13.8	1.6	41	52	51	62
100	26	114	—	10.2	17.3	2	51	63	61	73

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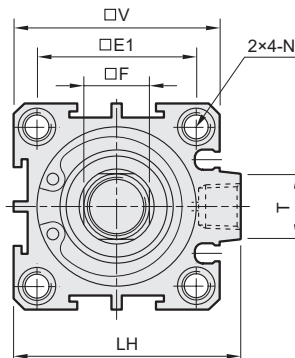
$\phi 12, \phi 16$



$\phi 20, \phi 25$



$\phi 32 \sim \phi 100$



Long stroke

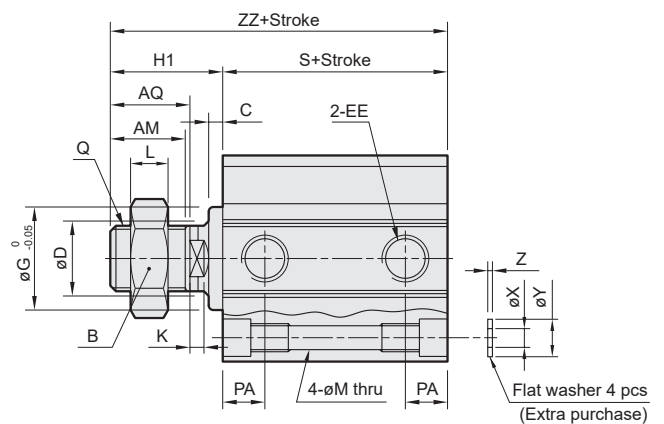
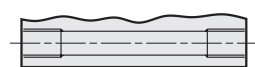
Without counter bore

With magnet type:
The stroke length must be over 100mm.
Without magnet type:
The stroke length must be over 110mm.

$\phi 12, \phi 16$



$\phi 20 \sim \phi 100$



Code Tube I.D.	AM	AQ	B	C	D	EE	E1	E2	F	G	H1	K	L	LH	M	N	PA	PB
12	10	12	8	1	6	M5×0.8	16.3	23	5	11	17	3	4	—	4.3	ø6.5×4.5depth, M5×0.8×7.5depth	6.5	6
16	10	12	8	1.5	6	M5×0.8	19.8	28	5	11	17.5	3	4	—	4.3	ø6.5×4.5depth, M5×0.8×7.5depth	7	6.5
20	13	15	10	1.5	8	M5×0.8	24	—	6	15	20.5	3	5	—	4.3	ø6.5×4.5depth, M5×0.8×7.5depth	7.5	—
25	15	17	13	2	10	M5×0.8	28	—	8	17	23	3	5	—	5.1	ø9×7depth, M6×1.0×10depth	8	—
32	15	18	17	3	12	Rc1/8 (*1)	34	—	10	22	25	3	6	48.5	5.1	ø9×7depth, M6×1.0×10depth	9	—
40	25	28	22	3	16	Rc1/8 (*1)	40	—	14	28	35	3	8	56.5	6.9	ø10.5×8depth, M8×1.25×12depth	10	—
50	25	28	26	4	20	Rc1/4 (*2)	48	—	17	38	37	3	11	70	6.9	ø11×8.5depth, M8×1.25×16.5depth	10	—
63	25	28	26	4	20	Rc1/4 (*2)	60	—	17	40	37	3	11	83	6.9	ø11×8.5depth, M8×1.25×16.5depth	12	—
80	30	33	32	5	25	Rc3/8 (*3)	74	—	22	45	44	4	13	102	10.5	ø14×10.5depth, M12×1.75×12depth	13	—
100	35	38	35	5	30	Rc3/8 (*3)	90	—	27	55	50	4	14	122	12.3	ø18.5×13depth, M14×2×17depth	17	—

*1. Without magnet with stroke=5mm, EE=M5×0.8

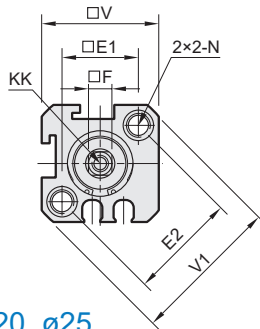
*2. Without magnet with stroke=5mm, EE=Rc1/8

*3. Without magnet with stroke=5mm, EE=Rc1/4

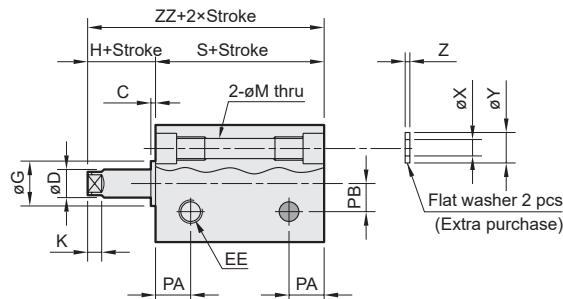
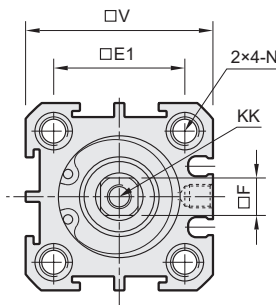
Code Tube I.D.	Q	T	V	V1	X	Y	Z	Without magnet		Magnet	
								S	ZZ	S	ZZ
12	M5×0.8	—	25	32	3.2	6.3	1	17	34	27	44
16	M5×0.8	—	29	38	3.2	6.3	1	18.5	36	28.5	46
20	M6×1.0	—	34	—	3.2	6.3	1	19.5	40	29.5	50
25	M8×1.25	—	40	—	4.2	7.8	1	21	44	31	54
32	M10×1.25	14	44	—	4.2	7.8	1	24.5	49.5	34.5	59.5
40	M14×1.5	14	52	—	6.2	10.3	1.6	26	61	36	71
50	M18×1.5	19	62	—	6.2	10.8	1.6	28	65	38	75
63	M18×1.5	20	75	—	6.2	10.8	1.6	32	69	42	79
80	M22×1.5	27	94	—	8.2	13.8	1.6	41	85	51	95
100	M26×1.5	26	114	—	10.2	17.3	2	51	101	61	111

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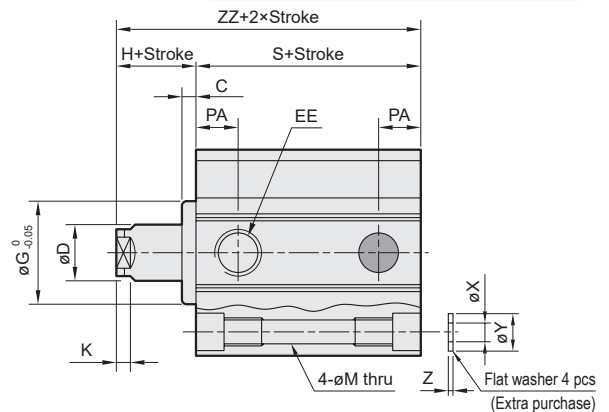
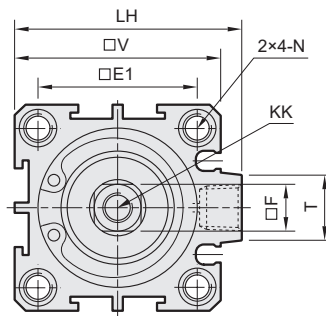
$\phi 12, \phi 16$



$\phi 20, \phi 25$



$\phi 32 \sim \phi 50$



Long stroke

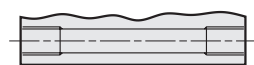
Without counter bore

With magnet type:
The stroke length must be over 100mm.
Without magnet type:
The stroke length must be over 110mm.

$\phi 12, \phi 16$



$\phi 20 \sim \phi 50$



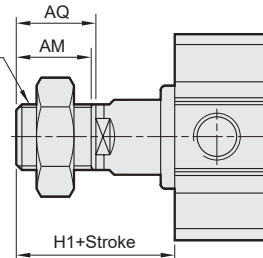
Single acting – Table for standard stroke

Tube I.D.	Stroke (mm)
$\phi 12, 16, 20, 25, 32, 40$	5, 10, 15, 20, 25, 30
$\phi 50$	5, 10, 15, 20

* Please contact us if the stroke is out of specification.

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Male thread



Code Tube I.D.	AM	AQ	H1	Q
12	10	12	17	M5×0.8
16	10	12	17.5	M5×0.8
20	13	15	20.5	M6×1.0
25	15	17	23	M8×1.25
32	15	18	25	M10×1.25
40	25	28	35	M14×1.5
50	25	28	37	M18×1.5

Code Tube I.D.	C	D	EE	E1	E2	F	G	H	K	KK	LH	M	N	PA	PB
12	1	6	M5×0.8	16.3	23	5	11	5	3	M3×0.5×6depth	—	4.3	$\phi 6.5 \times 4.5$ depth, M5×0.8×7.5depth	6.5	6
16	1.5	6	M5×0.8	19.8	28	5	11	5.5	3	M3×0.5×6depth	—	4.3	$\phi 6.5 \times 4.5$ depth, M5×0.8×7.5depth	7	6.5
20	1.5	8	M5×0.8	24	—	6	15	5.5	3	M4×0.7×8depth	—	4.3	$\phi 6.5 \times 4.5$ depth, M5×0.8×7.5depth	7.5	—
25	2	10	M5×0.8	28	—	8	17	6	3	M5×0.8×10depth	—	5.1	$\phi 9 \times 7$ depth, M6×1.0×10depth	8	—
32	3	12	Rc1/8	34	—	10	22	7	3	M6×1.0×12depth	48.5	5.1	$\phi 9 \times 7$ depth, M6×1.0×10depth	9	—
40	3	16	Rc1/8	40	—	14	28	7	3	M8×1.25×12depth	56.5	6.9	$\phi 10.5 \times 8$ depth, M8×1.25×12depth	10	—
50	4	20	Rc1/4 (*)	48	—	17	38	9	3	M10×1.5×15depth	70	6.9	$\phi 11 \times 8.5$ depth, M8×1.25×16.5depth	10	—

* Without magnet with stroke=5mm, EE=Rc1/8

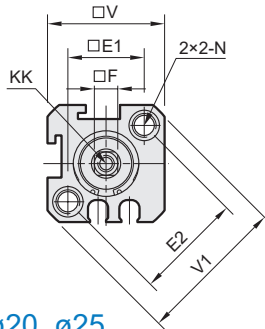
Code Tube I.D.	T	V	V1	X	Y	Z
12	—	25	32	3.2	6.3	1
16	—	29	38	3.2	6.3	1
20	—	34	—	3.2	6.3	1
25	—	40	—	4.2	7.8	1
32	14	44	—	4.2	7.8	1
40	14	52	—	6.2	10.3	1.6
50	19	62	—	6.2	10.8	1.6

Code Tube I.D.	Without magnet				Magnet			
	Stroke 5, 10	Stroke 15~30	Stroke 5, 10	Stroke 15~30	Stroke 5, 10	Stroke 15~30	Stroke 5, 10	Stroke 15~30
	S	ZZ	S	ZZ	S	ZZ	S	ZZ
12	27	32	37	42	37	42	47	52
16	28.5	34	38.5	44	38.5	44	48.5	54
20	29.5	35	39.5	45	39.5	45	49.5	55
25	31	37	41	47	41	47	51	57
32	34.5	41.5	44.5	51.5	44.5	51.5	54.5	61.5
40	36	43	46	53	46	53	56	63

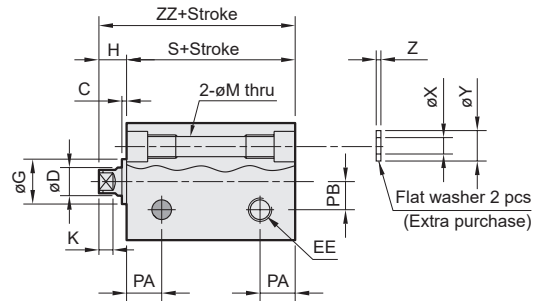
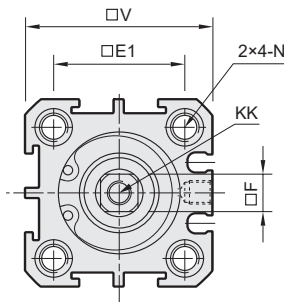
Code Tube I.D.	Without magnet		Magnet	
	Stroke 5~20			
	S	ZZ	S	ZZ
50	28	37	38	47

16

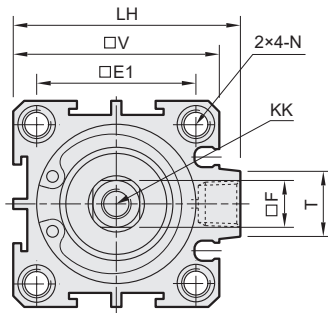
$\phi 12, \phi 16$



$\phi 20, \phi 25$



$\phi 32 \sim \phi 50$



Long stroke

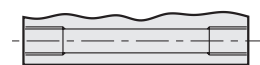
Without counter bore

With magnet type:
The stroke length must be over 100mm.
Without magnet type:
The stroke length must be over 110mm.

$\phi 12, \phi 16$



$\phi 20 \sim \phi 50$



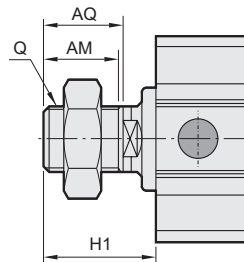
Single acting – Table for standard stroke

Tube I.D.	Stroke (mm)
$\phi 12, 16, 20, 25, 32, 40$	5, 10, 15, 20, 25, 30
$\phi 50$	5, 10, 15, 20

* Please contact us if the stroke is out of specification.

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Male
thread



Code Tube I.D.	AM	AQ	H1	Q
12	10	12	17	M5×0.8
16	10	12	17.5	M5×0.8
20	13	15	20.5	M6×1.0
25	15	17	23	M8×1.25
32	15	18	25	M10×1.25
40	25	28	35	M14×1.5
50	25	28	37	M18×1.5

Code Tube I.D.	C	D	EE	E1	E2	F	G	H	K	KK	LH	M	N	PA	PB
12	1	6	M5×0.8	16.3	23	5	11	5	3	M3×0.5×6depth	—	4.3	ø6.5×4.5depth, M5×0.8×7.5depth	6.5	6
16	1.5	6	M5×0.8	19.8	28	5	11	5.5	3	M3×0.5×6depth	—	4.3	ø6.5×4.5depth, M5×0.8×7.5depth	7	6.5
20	1.5	8	M5×0.8	24	—	6	15	5.5	3	M4×0.7×8depth	—	4.3	ø6.5×4.5depth, M5×0.8×7.5depth	7.5	—
25	2	10	M5×0.8	28	—	8	17	6	3	M5×0.8×10depth	—	5.1	ø9×7depth, M6×1.0×10depth	8	—
32	3	12	Rc1/8	34	—	10	22	7	3	M6×1.0×12depth	48.5	5.1	ø9×7depth, M6×1.0×10depth	9	—
40	3	16	Rc1/8	40	—	14	28	7	3	M8×1.25×12depth	56.5	6.9	ø10.5×8depth, M8×1.25×12depth	10	—
50	4	20	Rc1/4 (*)	48	—	17	38	9	3	M10×1.5×15depth	70	6.9	ø11×8.5depth, M8×1.25×16.5depth	10	—

* Without magnet with stroke=5mm, EE=Rc1/8

Code Tube I.D.	T	V	V1	X	Y	Z
12	—	25	32	3.2	6.3	1
16	—	29	38	3.2	6.3	1
20	—	34	—	3.2	6.3	1
25	—	40	—	4.2	7.8	1
32	14	44	—	4.2	7.8	1
40	14	52	—	6.2	10.3	1.6
50	19	62	—	6.2	10.8	1.6

Code Tube I.D.	Without magnet				Magnet			
	Stroke 5,10	Stroke 15~30	Stroke 5,10	Stroke 15~30	Stroke 5,10	Stroke 15~30	Stroke 5,10	Stroke 15~30
12	S	ZZ	S	ZZ	S	ZZ	S	ZZ
12	27	32	37	42	37	42	47	52
16	28.5	34	38.5	44	38.5	44	48.5	54
20	29.5	35	39.5	45	39.5	45	49.5	55
25	31	37	41	47	41	47	51	57
32	34.5	41.5	44.5	51.5	44.5	51.5	54.5	61.5
40	36	43	46	53	46	53	56	63

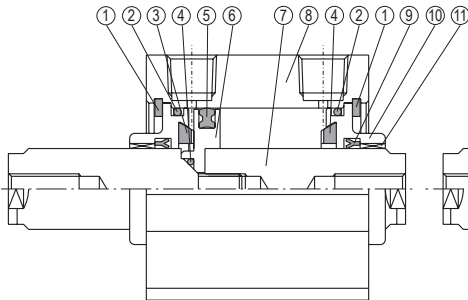
Code Tube I.D.	Without magnet		Magnet	
	Stroke 5~20	Stroke 5~20	Stroke 5~20	Stroke 5~20
50	S	ZZ	S	ZZ
50	28	37	38	47

MCJA Inside structure & Parts list – Double rod

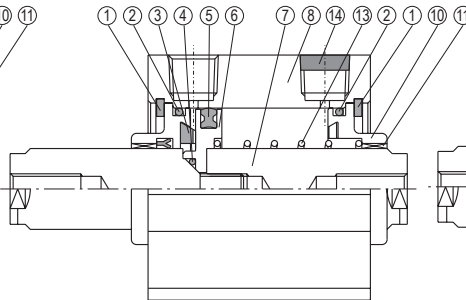
COMPACT CYLINDER



Double acting

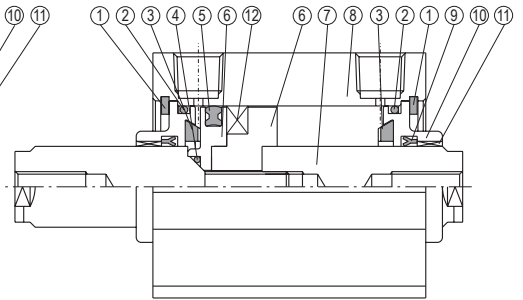


Single acting



Double acting

(with magnet)

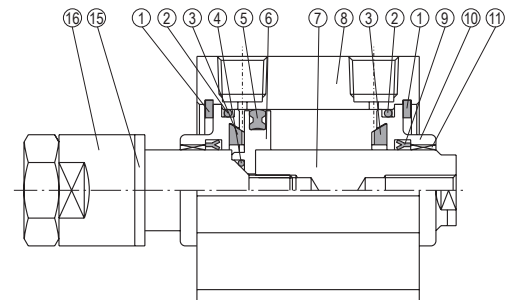


Seal kit

	Rod packing		Piston packing		Cover ring	Piston gasket
Acting type	Double acting	Single acting	Double acting	Single acting	Double acting single acting	Double acting single acting
Q'y	2	1	1	1	2	1
ø12	KSYR-6	KSYR-6	OPA-12	OPA-12	d11×w1	d4×w1
ø16	KSYR-6	KSYR-6	OPA-16	OPA-16	S-14	d4×w1
ø20	KSYR-8	KSYR-8	OPA-20	OPA-20	S-18	d6×w1
ø25	KSYR-10	KSYR-10	OPA-25	OPA-25	S-22	d6×w1
ø32	KSYR-12	KSYR-12	OPA-32	OPA-32	d28×w2	d8×w1
ø40	KSYR-16	KSYR-16	OPA-40	OPA-40	S-36	d11×w1
ø50	KSYR-20	KSYR-20	OPA-50	OPA-50	AS-31	S-14
ø63	KSYR-20	—	OPA-63	—	AS-35	S-14
ø80	ORA-25	—	OPA-80	—	AS-41	S-18
ø100	SDR-30	—	OPA-100	—	S-95	S-26

Double acting

Adjustable stroke



Order example

Component parts

Tube I.D.	Component parts
ø12	CP-MCJA-2-12(M)
ø16	CP-MCJA-2-16(M)
ø20	CP-MCJA-2-20(M)
ø25	CP-MCJA-2-25(M)
ø32	CP-MCJA-2-32(M)
ø40	CP-MCJA-2-40(M)
ø50	CP-MCJA-2-50(M)
ø63	CP-MCJA-2-63(M)
ø80	CP-MCJA-2-80(M)
ø100	CP-MCJA-2-100(M)

M: With magnet

Repair kits

Tube I.D.	Repair kits
ø12	PS-MCJA-2-12
ø16	PS-MCJA-2-16
ø20	PS-MCJA-2-20
ø25	PS-MCJA-2-25
ø32	PS-MCJA-2-32
ø40	PS-MCJA-2-40
ø50	PS-MCJA-2-50
ø63	PS-MCJA-2-63
ø80	PS-MCJA-2-80
ø100	PS-MCJA-2-100

Material

No.	Tube I.D. Part name	12	16	20	25	32	40	50	63	80	100	Q'y	Component parts (inclusion)	Repair kits (inclusion)	
1	Snap ring (Front end)	*2	Spring steel		*2		Spring steel					2	●		
2	Cover ring	NBR											2	●	●
3	Cushion packing	—		NBR								2	●	●	
4	Piston gasket	NBR											1	●	●
5	Piston packing	NBR											1	●	●
6	Piston	Aluminum alloy											1	●	
7	Piston With magnet rod *1	Stainless steel				Carbon steel						2			
	Without magnet	*2		Carbon steel									2		
8	Body	Aluminum alloy											1		
9	Rod packing	NBR											2*3	●	●
10	Rod cover	Aluminum alloy											2	●	
11	Bush	—					Bearing alloy						2	●	
12	Magnet ring	Magnet material											1	●	
13	Spring	SWP							—				1	●	
14	Silencer	Brass							—				1	●	
15	Cushion packing	PU											1	●	
16	Adjustable nut	Carbon steel											1	●	

*1. When customized material is bearing steel, only two-side across flat (wrench flat) is available.

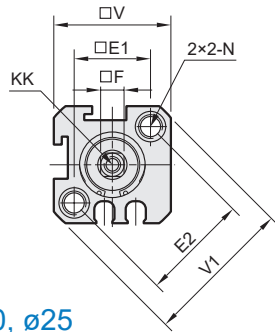
*2. Stainless steel

*3. Single acting type, Q'y=1

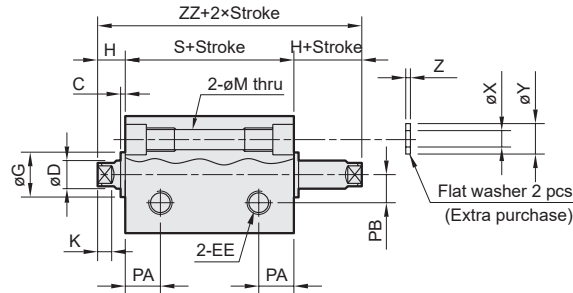
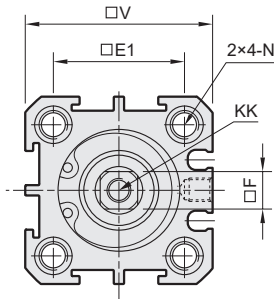
COMPACT CYLINDER

22

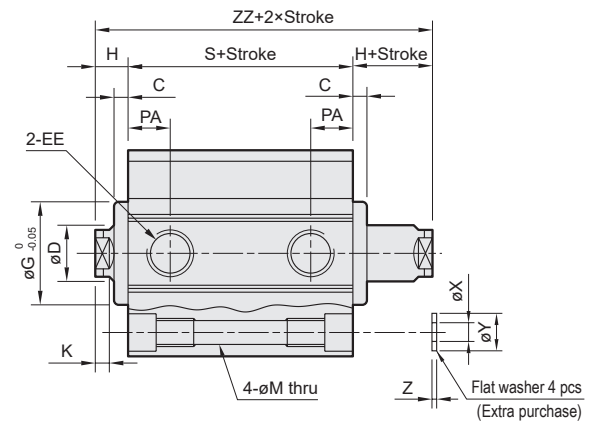
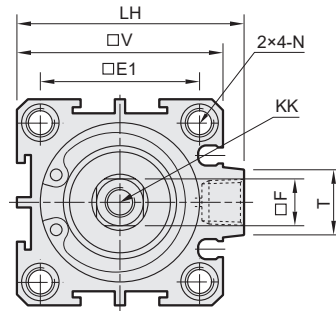
$\phi 12, \phi 16$



$\phi 20, \phi 25$



$\phi 32 \sim \phi 100$



Long stroke

Without counter bore

With magnet type:

The stroke length must be over 100mm.

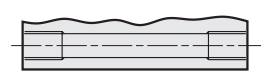
Without magnet type:

The stroke length must be over 110mm.

$\phi 12, \phi 16$



$\phi 20 \sim \phi 100$



Code Tube I.D.	AM	AQ	C	D	EE	E1	E2	F	G	H	H1	K
12	10	12	1	6	M5×0.8	16.3	23	5	11	5	17	3
16	10	12	1.5	6	M5×0.8	19.8	28	5	11	5.5	17.5	3
20	13	15	1.5	8	M5×0.8	24	—	6	15	5.5	20.5	3
25	15	17	2	10	M5×0.8	28	—	8	17	6	23	3
32	15	18	3	12	Rc1/8 (*1)	34	—	10	22	7	25	3
40	25	28	3	16	Rc1/8 (*1)	40	—	14	28	7	35	3
50	25	28	4	20	Rc1/4 (*2)	48	—	17	38	9	37	3
63	25	28	4	20	Rc1/4 (*2)	60	—	17	40	9	37	3
80	30	33	5	25	Rc3/8 (*3)	74	—	22	45	11	44	4
100	35	38	5	30	Rc3/8 (*3)	90	—	27	55	12	50	4

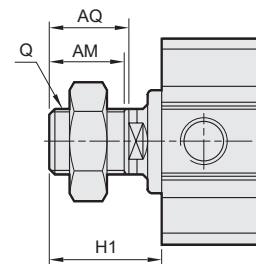
*1. Without magnet with stroke=5mm, EE=M5×0.8

*2. Without magnet with stroke=5mm, EE=Rc1/8

*3. Without magnet with stroke=5mm, EE=Rc1/4

21

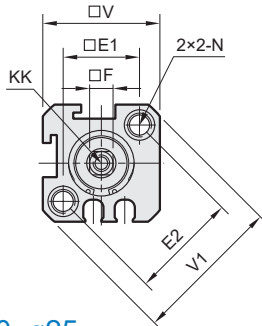
Male
thread



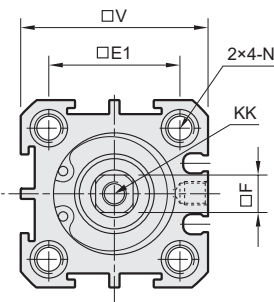
Code Tube I.D.	KK	LH	M	N	PA	PB	Q	T	V	V1	X	Y	Z	Without magnet		Magnet	
														S	ZZ	S	ZZ
12	M3×0.5×6 dp	—	4.3	ø6.5×4.5 dp, M5×0.8×7.5 dp	6.5	6	M5×0.8	—	25	32	3.2	6.3	1	17	27	27	37
16	M3×0.5×6 dp	—	4.3	ø6.5×4.5 dp, M5×0.8×7.5 dp	7	6.5	M5×0.8	—	29	38	3.2	6.3	1	18.5	29.5	28.5	39.5
20	M4×0.7×8 dp	—	4.3	ø6.5×4.5 dp, M5×0.8×7.5 dp	7.5	—	M6×1.0	—	34	—	3.2	6.3	1	19.5	30.5	29.5	40.5
25	M5×0.8×10 dp	—	5.1	ø9×7 dp, M6×1.0×10 dp	8	—	M8×1.25	—	40	—	4.2	7.8	1	21	33	31	43
32	M6×1.0×12 dp	48.5	5.1	ø9×7 dp, M6×1.0×10 dp	9	—	M10×1.25	14	44	—	4.2	7.8	1	24.5	38.5	34.5	48.5
40	M8×1.25×12 dp	56.5	6.9	ø10.5×8 dp, M8×1.25×12 dp	10	—	M14×1.5	14	52	—	6.2	10.3	1.6	26	40	36	50
50	M10×1.5×15 dp	70	6.9	ø11×8.5 dp, M8×1.25×16.5 dp	10	—	M18×1.5	19	62	—	6.2	10.8	1.6	28	46	38	56
63	M10×1.5×15 dp	83	6.9	ø11×8.5 dp, M8×1.25×16.5 dp	12	—	M18×1.5	20	75	—	6.2	10.8	1.6	32	50	42	60
80	M14×1.5×20 dp	102	10.5	ø14×10.5 dp, M12×1.75×12 dp	13	—	M22×1.5	27	94	—	8.2	13.8	1.6	41	63	51	73
100	M18×1.5×20 dp	122	12.3	ø18.5×13 dp, M14×2×17 dp	17	—	M26×1.5	26	114	—	10.2	17.3	2	51	75	61	85

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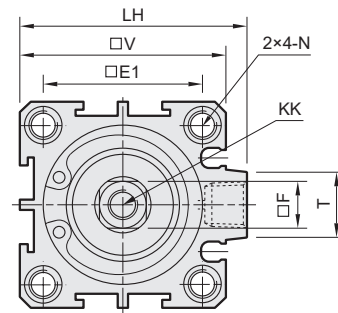
$\phi 12, \phi 16$



$\phi 20, \phi 25$



$\phi 32 \sim \phi 50$



Long stroke

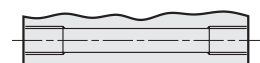
Without counter bore

With magnet type:
The stroke length must be over 100mm.
Without magnet type:
The stroke length must be over 110mm.

$\phi 12, \phi 16$



$\phi 20 \sim \phi 50$



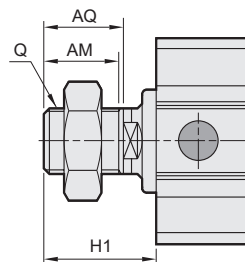
Single acting – Table for standard stroke

Tube I.D.	Stroke (mm)
$\phi 12, 16, 20, 25, 32, 40$	5, 10, 15, 20, 25, 30
$\phi 50$	5, 10, 15, 20

* Please contact us if the stroke is out of specification.

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Male
thread



Code Tube I.D.	AM	AQ	H1	Q
12	10	12	17	M5×0.8
16	10	12	17.5	M5×0.8
20	13	15	20.5	M6×1.0
25	15	17	23	M8×1.25
32	15	18	25	M10×1.25
40	25	28	35	M14×1.5
50	25	28	37	M18×1.5

Code Tube I.D.	C	D	EE	E1	E2	F	G	H	K	KK	LH	M	N	PA	PB
12	1	6	M5×0.8	16.3	23	5	11	5	3	M3×0.5×6depth	—	4.3	$\phi 6.5 \times 4.5$ depth, M5×0.8×7.5depth	6.5	6
16	1.5	6	M5×0.8	19.8	28	5	11	5.5	3	M3×0.5×6depth	—	4.3	$\phi 6.5 \times 4.5$ depth, M5×0.8×7.5depth	7	6.5
20	1.5	8	M5×0.8	24	—	6	15	5.5	3	M4×0.7×8depth	—	4.3	$\phi 6.5 \times 4.5$ depth, M5×0.8×7.5depth	7.5	—
25	2	10	M5×0.8	28	—	8	17	6	3	M5×0.8×10depth	—	5.1	$\phi 9 \times 7$ depth, M6×1.0×10depth	8	—
32	3	12	Rc1/8	34	—	10	22	7	3	M6×1.0×12depth	48.5	5.1	$\phi 9 \times 7$ depth, M6×1.0×10depth	9	—
40	3	16	Rc1/8	40	—	14	28	7	3	M8×1.25×12depth	56.5	6.9	$\phi 10.5 \times 8$ depth, M8×1.25×12depth	10	—
50	4	20	Rc1/4 (*)	48	—	17	38	9	3	M10×1.5×15depth	70	6.9	$\phi 11 \times 8.5$ depth, M8×1.25×16.5depth	10	—

* Without magnet with stroke=5mm, EE=Rc1/8

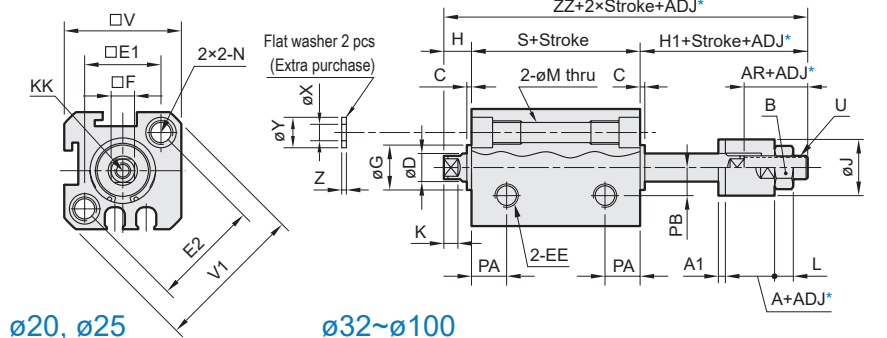
Code Tube I.D.	T	V	V1	X	Y	Z
12	—	25	32	3.2	6.3	1
16	—	29	38	3.2	6.3	1
20	—	34	—	3.2	6.3	1
25	—	40	—	4.2	7.8	1
32	14	44	—	4.2	7.8	1
40	14	52	—	6.2	10.3	1.6
50	19	62	—	6.2	10.8	1.6

Code Tube I.D.	Without magnet				Magnet			
	Stroke 5, 10	Stroke 15~30	Stroke 5, 10	Stroke 15~30	Stroke 5, 10	Stroke 15~30	Stroke 5, 10	Stroke 15~30
	S	ZZ	S	ZZ	S	ZZ	S	ZZ
12	27	37	37	47	37	47	47	57
16	28.5	39.5	38.5	49.5	38.5	49.5	48.5	59.5
20	29.5	40.5	39.5	50.5	39.5	50.5	49.5	60.5
25	31	43	41	53	41	53	51	63
32	34.5	48.5	44.5	58.5	44.5	58.5	54.5	68.5
40	36	50	46	60	46	60	56	70

Code Tube I.D.	Without magnet		Magnet	
	Stroke 5~20			
	S	ZZ	S	ZZ
50	28	46	38	56

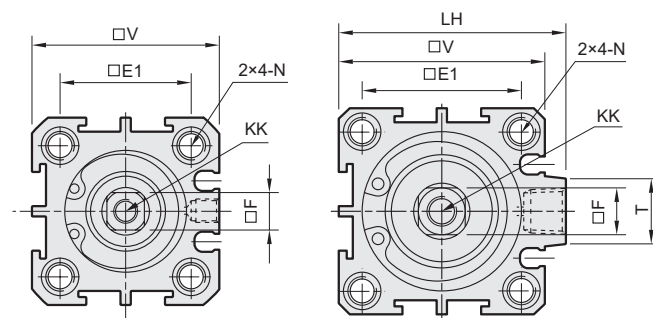
28

$\phi 12, \phi 16$



$\phi 20, \phi 25$

$\phi 32 \sim \phi 100$



*ADJ: Adjustable stroke

Long stroke

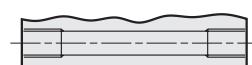
Without counter bore

With magnet type:
The stroke length must be over 100mm.
Without magnet type:
The stroke length must be over 110mm.

$\phi 12, \phi 16$



$\phi 20, \phi 100$



Code Tube I.D.	A	AM	AQ	A1	AR	B	C	D	EE	E1	E2	F	G	H	H1	J	K	KK
12	13	10	12	2	16	8	1	6	M5×0.8	16.3	23	5	11	5	17	12	3	M3×0.5×6 dp
16	13	10	12	2	16.5	8	1.5	6	M5×0.8	19.8	28	5	11	5.5	17.5	12	3	M3×0.5×6 dp
20	15	13	15	2	19	13	1.5	8	M5×0.8	24	—	6	15	5.5	20.5	16	3	M4×0.7×8 dp
25	15	15	17	2	19.5	13	2	10	M5×0.8	28	—	8	17	6	23	16	3	M5×0.8×10 dp
32	12	15	18	2	18	17	3	12	Rc1/8 (*1)	34	—	10	22	7	25	20	3	M6×1.0×12 dp
40	12	25	28	2	20	19	3	16	Rc1/8 (*1)	40	—	14	28	7	35	30	3	M8×1.25×12 dp
50	15	25	28	2	22	24	4	20	Rc1/4 (*2)	48	—	17	38	9	37	40	3	M10×1.5×15 dp
63	15	25	28	2	22	24	4	20	Rc1/4 (*2)	60	—	17	40	9	37	40	3	M10×1.5×15 dp
80	20	30	33	3	33	32	5	25	Rc3/8 (*3)	74	—	22	45	11	44	50	4	M14×1.5×20 dp
100	20	35	38	3	33	32	5	30	Rc3/8 (*3)	90	—	27	55	12	50	50	4	M18×1.5×20 dp

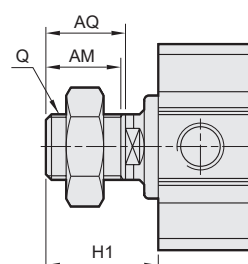
*1. Without magnet with stroke=5mm, EE=M5×0.8

*2. Without magnet with stroke=5mm, EE=Rc1/8

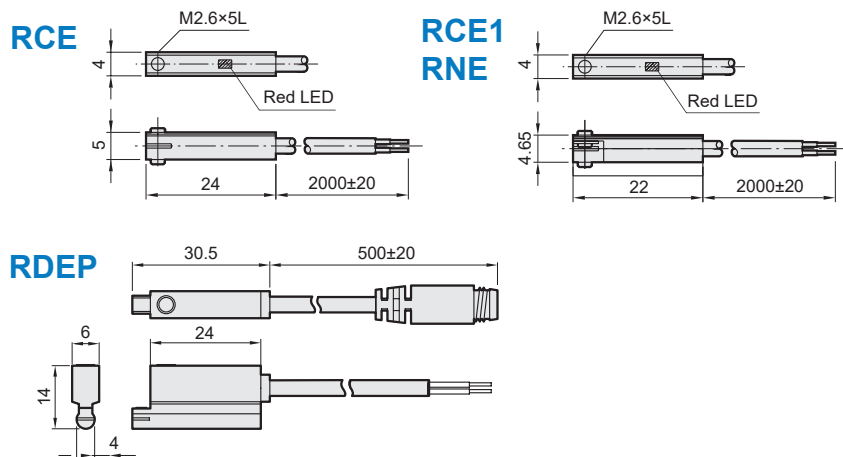
*3. Without magnet with stroke=5mm, EE=Rc1/4

Code Tube I.D.	L	LH	M	N	PA	PB	Q	T	U	V	V1	W	X	Y	Z	Without magnet		Magnet	
																S	ZZ	S	ZZ
12	4	—	4.3	$\phi 6.5 \times 4.5$ dp, M5×0.8×7.5 dp	6.5	6	M5×0.8	—	M5×0.8	25	32	22.5	3.2	6.3	1	17	44.5	27	54.5
16	4	—	4.3	$\phi 6.5 \times 4.5$ dp, M5×0.8×7.5 dp	7	6.5	M5×0.8	—	M5×0.8	29	38	23.5	3.2	6.3	1	18.5	47.5	28.5	57.5
20	5	—	4.3	$\phi 6.5 \times 4.5$ dp, M5×0.8×7.5 dp	7.5	—	M6×1.0	—	M8×1.25	34	—	26	3.2	6.3	1	19.5	51	29.5	61
25	5	—	5.1	$\phi 9 \times 7$ dp, M6×1.0×10 dp	8	—	M8×1.25	—	M8×1.25	40	—	27.2	4.2	7.8	1	21	54.2	31	64.2
32	6	48.5	5.1	$\phi 9 \times 7$ dp, M6×1.0×10 dp	9	—	M10×1.25	14	M10×1.25	44	—	26	4.2	7.8	1	24.5	57.5	34.5	67.5
40	7	56.5	6.9	$\phi 10.5 \times 8$ dp, M8×1.25×12 dp	10	—	M14×1.5	14	M12×1.25	52	—	28	6.2	10.3	1.6	26	61	36	71
50	8	70	6.9	$\phi 11 \times 8.5$ dp, M8×1.25×16.5 dp	10	—	M18×1.5	19	M16×1.5	62	—	31	6.2	10.8	1.6	28	68	38	78
63	8	83	6.9	$\phi 11 \times 8.5$ dp, M8×1.25×16.5 dp	12	—	M18×1.5	20	M16×1.5	75	—	31	6.2	10.8	1.6	32	72	42	82
80	13	102	10.5	$\phi 14 \times 10.5$ dp, M12×1.75×12 dp	13	—	M22×1.5	27	M22×1.5	94	—	44	8.2	13.8	1.6	41	96	51	106
100	13	122	12.3	$\phi 18.5 \times 13$ dp, M14×2×17 dp	17	—	M26×1.5	26	M22×1.5	114	—	44	10.2	17.3	2	51	107	61	117

27 Male thread

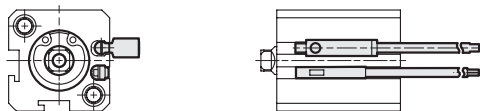


Dimensions

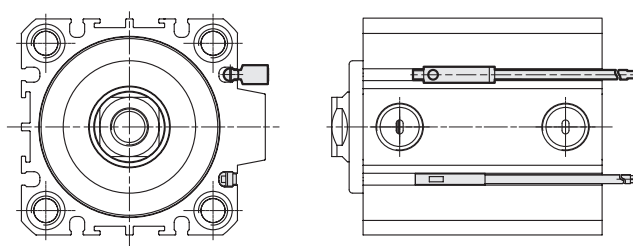


Installation of sensor switch

$\varnothing 12 \sim \varnothing 40$



$\varnothing 50 \sim \varnothing 100$



Order example

RCE1 — ☐

MODEL

RCE / RCE1 (C: Reed switch)
RNE (N: Solid state switch)
RDEP (Solid state switch)

WIRE LENGTH

Blank: L=2000m
1M: L=1000m
QD: M8 3Pin connector
EQD: M8 3Pin connector

Description

▽ RCE, RCE1, RDEP switch ↓ Port

