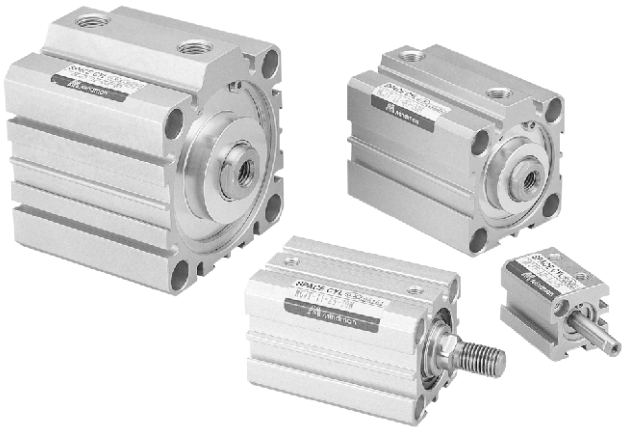
MCJT series

COMPACT CYLINDERS



Features

- Ultra Compact, light weight and space saving cylinder.
- Wide range of bore sizes and strokes (12mm~100mm).
- Single and double acting available.

Specification

Model		MCJT								
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 (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~+60℃ (No freezing)									
Available speed range		50~500 mm/sec									
Sensor switch (※)		RCB, RCE, RCE1									

※ RCB, RCE, RCE1 specification, please refer to page **V-07, V-09.**

Order example

MCJT − 12 − 40 − 25 M − □

- MODEL
- TUBE I.D.
- M: Magnet
- PORT THREAD
  - Blank: M5×0.8 (for ϕ12~ϕ25)
  - Blank: Rc thread
    G: G thread
    NPT: NPT thread
    (for ϕ32~ϕ100)
- STROKE
- STYLE
  - **1**: Single Rod
    2: Double Rod

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	7		Double rod / Adjustable male thread
2	8		Double rod / Adjustable female thread

※ Order example for special specification, refer to page **J-03.**

Double acting - Table for standard stroke

	Tube I.D.	Stroke (mm)	Max. stroke
Single rod	ϕ12, ϕ16	5, 10, 15, 20, 25, 30	300
	ϕ20,25,32 ϕ40,50,63	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	300
	ϕ80~100	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	125
Dual rod	ϕ12, ϕ16	5, 10, 15, 20, 25, 30	300
	ϕ20,25,32 ϕ40,50,63	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	300
	ϕ80~100	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	125

- Stroke out of specification is also available.
- Please consult us if stroke out of specification.

Single acting - Table for standard stroke

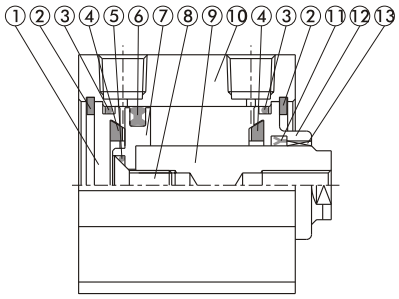
Tube I.D.	Stroke (mm)
ϕ12, 16, 20, 25, 32, 40	5, 10
ϕ50	10, 20

MCJT Inside structure & Parts list

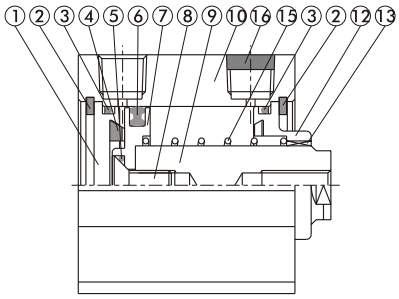
COMPACT CYLINDERS

Mindman

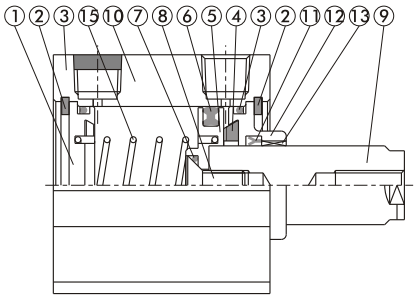
Double acting



Single acting
Normally returned



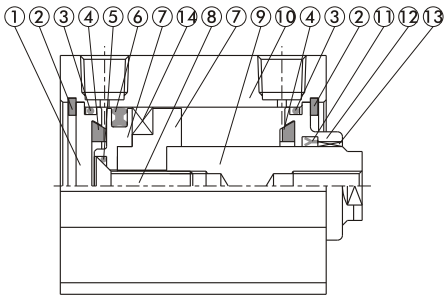
Single acting
Normally extended



Seal kit

	Rod packing		Piston packing		Cover ring	Piston gasket
Acting type	Double action normally extended	Normally returned	Double action	Single action	Double action single action	Double action single action
Qty.	1	0	1	1	2	1
12	KSYR-6	—	OPA-12	OPA-12	S-12	d4×w1
16	KSYR-8	—	OPA-16	OPA-16	S-14	d6×w1
20	KSYR-10	—	OPA-20	OPA-20	S-18	d6×w1
25	KSYR-12	—	OPA-25	OPA-25	S-22	d8×w1
32	KSYR-16	—	OPA-32	OPA-32	d28×w2	S-9
40	KSYR-16	—	OPA-40	OPA-40	S-36	S-9
50	KSYR-20	—	OPA-50	OPA-50	AS-31	S-16
63	KSYR-20	—	OPA-63	—	AS-35	S-16
80	ORA-25	—	OPA-80	—	AS-41	d20×w1
100	SDR-30	—	OPA-100	—	S-95	S-26

Double acting
(with magnet)



Material

No.	Part name \ Tube I.D.	12	16	20	25	32	40	50	63	80	100	Q'ty	Component parts (inclusion)	Repair kits (inclusion)
1	Head cover	Aluminum alloy										1	●	
2	Snap ring	Stainless steel					Spring steel					2	●	
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	●	
	Screw (Without magnet)	SCM		SUS		SCM						1	●	
9	Piston rod	Stainless steel				Carbon steel						1		
10	Body	Aluminum alloy										1		
11	Rod packing	NBR										1	●	●
12	Rod cover	Aluminum alloy										1	●	
13	Bush	—				Bearing alloy						1	●	
14	Magnet	Plastic										1	●	
15	Spring	SWP							—			1	●	
16	Silencer	Brass							—			1	●	

Order example

Component parts

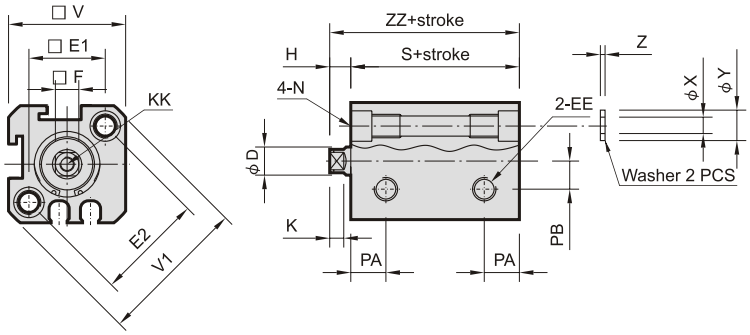
Tube I.D.	Component parts
ϕ 12	CP-MCJT-12-12(M)
ϕ 16	CP-MCJT-12-16(M)
ϕ 20	CP-MCJT-12-20(M)
ϕ 25	CP-MCJT-12-25(M)
ϕ 32	CP-MCJT-12-32(M)
ϕ 40	CP-MCJT-12-40(M)
ϕ 50	CP-MCJT-12-50(M)
ϕ 63	CP-MCJT-12-63(M)
ϕ 80	CP-MCJT-12-80(M)
ϕ 100	CP-MCJT-12-100(M)

M: With magnet

Repair kits

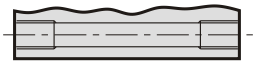
Tube I.D.	Repair kits
ϕ 12	PS-MCJT-12-12
ϕ 16	PS-MCJT-12-16
ϕ 20	PS-MCJT-12-20
ϕ 25	PS-MCJT-12-25
ϕ 32	PS-MCJT-12-32
ϕ 40	PS-MCJT-12-40
ϕ 50	PS-MCJT-12-50
ϕ 63	PS-MCJT-12-63
ϕ 80	PS-MCJT-12-80
ϕ 100	PS-MCJT-12-100

ϕ12, ϕ16



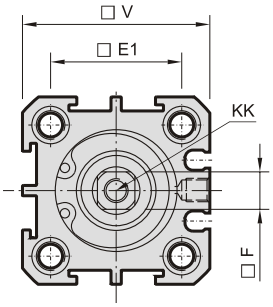
ϕ12, ϕ16 Long stroke
(Without counter bore)

ϕ20~ϕ100 Long stroke
(Without counter bore)

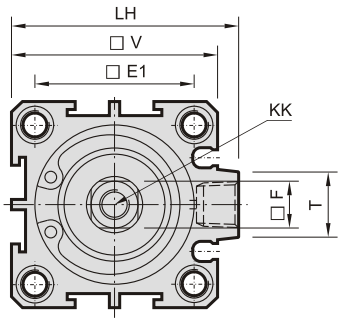


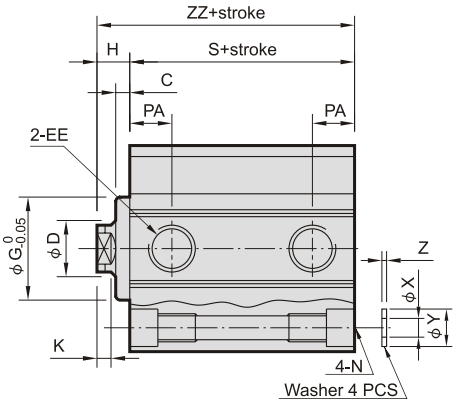
※ with magnet type: the stroke length must be over 100mm.

ϕ20, ϕ25



ϕ32~ϕ100



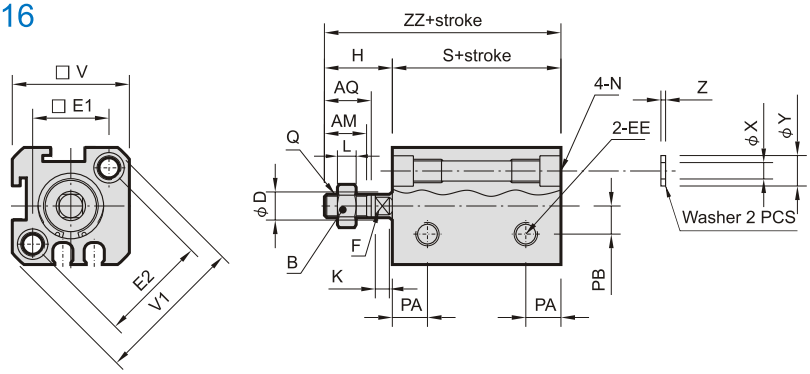


Code / Tube I.D.	C	D	E1	E2	EE	F	G	H	K	KK	LH	N	PA	PB
12	-	6	16.3	23	M5×0.8	5	-	4.5	3	M3×0.5×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	7.5	5.5
16	-	8	19.8	28	M5×0.8	6	-	4.5	3	M4×0.7×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	8	6.5
20	1.5	10	24	-	M5×0.8	8	13	5.5	3	M5×0.8×10depth	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7.5	-
25	2	12	28	-	M5×0.8	10	17	6	3	M6×1×10depth	-	9×7depth, 5.1, M6×1.0×10depth	8	-
32	3.3	16	34	-	Rc1/8(※1)	14	22	7	3	M8×1.25×12depth	48.5	9×7depth, 5.1, M6×1.0×10depth	9	-
40	3.3	16	40	-	Rc1/8(※1)	14	28	7	3	M8×1.25×12depth	56.5	10.5×8depth, 6.9, M8×1.25×10depth	10	-
50	4	20	48	-	Rc1/4(※2)	17	38	9	3	M10×1.5×15depth	70	11×8.5depth, 6.9, M8×1.25×16.5depth	10.5	-
63	4	20	60	-	Rc1/4(※2)	17	40	9	3	M10×1.5×15depth	83	11×8.5depth, 6.9, M8×1.25×10depth	11	-
80	5	25	74	-	Rc3/8(※3)	22	45	11	4	M14×2×20depth	102	14×10.5depth, 10.5, M12×1.75×12depth	13	-
100	3	30	90	-	Rc3/8(※3)	27	45	9	4	M18×2.5×20depth	122	18.5×13depth, 12.3, M14×2×15depth	15	-

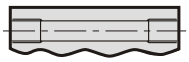
※1: without magnet with stroke=5mm, EE=M5×0.8　※3: without magnet with stroke=5mm, EE=Rc1/4
※2: without magnet with stroke=5mm, EE=Rc1/8

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	20.5	25	25.5	30
16	-	29	38	3.2	6.3	1	20.5	25	30.5	35
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	31	34	41
40	14	52	-	6.2	10.3	1.6	26.5	33.5	36.5	43.5
50	19	62	-	6.2	10.8	1.6	28.6	37.6	38.6	47.6
63	20	75	-	6.2	10.8	1.6	32.5	41.5	42.5	51.5
80	27	94	-	8.2	13.8	1.6	41	52	51	62
100	26	114	-	10.2	17.3	2	45	54	55	64

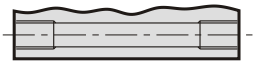
ϕ12, ϕ16



ϕ12, ϕ16 Long stroke
(Without counter bore)

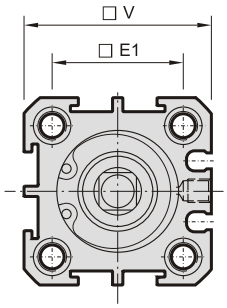


ϕ20~ϕ100 Long stroke
(Without counter bore)

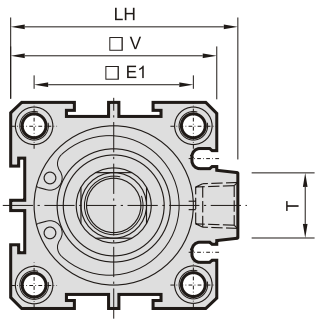


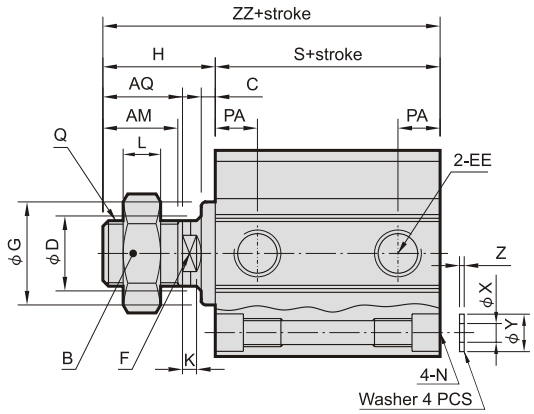
※ with magnet type: the stroke length must be over 100mm.

ϕ20, ϕ25



ϕ32~ϕ100



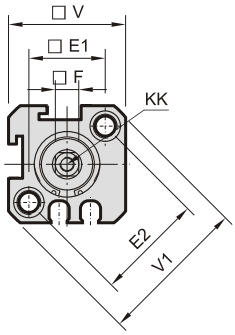


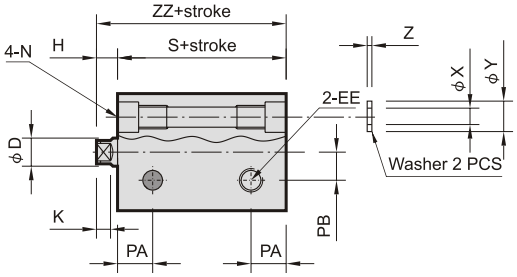
Code / Tube I.D.	AM	AQ	B	C	D	E1	E2	EE	F	G	H	K	L	LH	N	PA	PB
12	9	10	8	-	6	16.3	23	M5×0.8	5	-	14.5	3	4	-	6.5×4.5depth, 4.3, M5×0.8×6depth	7.5	5.5
16	9	10	10	-	8	19.8	28	M5×0.8	6	-	14.5	3	5	-	6.5×4.5depth, 4.3, M5×0.8×6depth	8	6.5
20	13	14	13	1.5	10	24	-	M5×0.8	8	13	19.5	3	5	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7.5	-
25	15	16	17	2	12	28	-	M5×0.8	10	17	22	3	6	-	9×7depth, 5.1, M6×1.0×10depth	8	-
32	16	17	22	3.3	16	34	-	Rc1/8(※1)	14	22	24	3	8	48.5	9×7depth, 5.1, M6×1.0×10depth	9	-
40	25	27	22	3.3	16	40	-	Rc1/8(※1)	14	28	34	3	8	56.5	10.5×8depth, 6.9, M8×1.25×10depth	10	-
50	25	27	26	4	20	48	-	Rc1/4(※2)	17	38	36	3	11	70	11×8.5depth, 6.9, M8×1.25×16.5depth	10.5	-
63	25	27	26	4	20	60	-	Rc1/4(※2)	17	40	36	3	11	83	11×8.5depth, 6.9, M8×1.25×10depth	11	-
80	30	33	32	5	25	74	-	Rc3/8(※3)	22	45	44	4	13	102	14×10.5depth, 10.5, M12×1.75×12depth	13	-
100	30	33	35	3	30	90	-	Rc3/8(※3)	27	45	42	4	14	122	18.5×13depth, 12.3, M14×2×15depth	15	-

※1: without magnet with stroke=5mm, EE=M5×0.8　※3: without magnet with stroke=5mm, EE=Rc1/4
※2: without magnet with stroke=5mm, EE=Rc1/8

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	20.5	35	25.5	40
16	M6×1	-	29	38	3.2	6.3	1	20.5	35	30.5	45
20	M8×1	-	34	-	3.2	6.3	1	19.5	39	29.5	49
25	M10×1.25	-	40	-	4.2	7.8	1	21	43	31	53
32	M14×1.5	14	44	-	4.2	7.8	1	24	48	34	58
40	M14×1.5	14	52	-	6.2	10.3	1.6	26.5	60.5	36.5	70.5
50	M18×1.5	19	62	-	6.2	10.8	1.6	28.6	64.6	38.6	74.6
63	M18×1.5	20	75	-	6.2	10.8	1.6	32.5	68.5	42.5	78.5
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	45	87	55	97

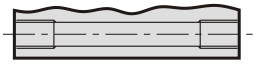
ϕ12, ϕ16





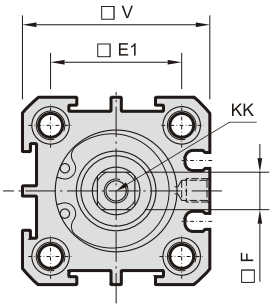
ϕ12, ϕ16 Long stroke
(Without counter bore)

ϕ20~ϕ50 Long stroke
(Without counter bore)

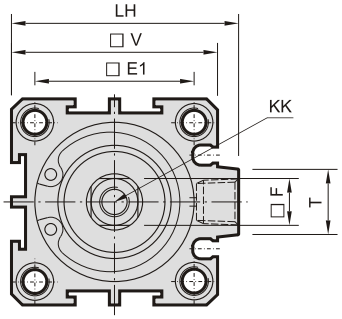


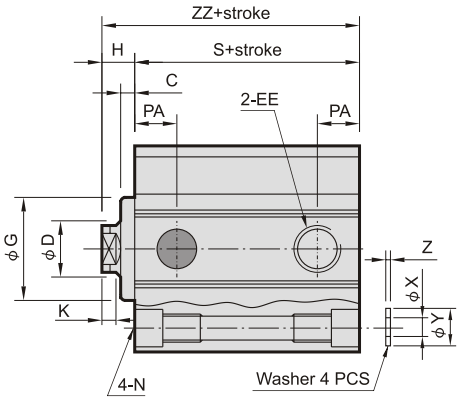
※ with magnet type: the stroke length must be over 100mm.

ϕ20, ϕ25



ϕ32~ϕ50





Code / Tube I.D.	C	D	E1	E2	EE	F	G	H	K	KK	LH	N	PA	PB
12	-	6	16.3	23	M5×0.8	5	-	4.5	3	M3×0.5×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	7.5	5.5
16	-	8	19.8	28	M5×0.8	6	-	4.5	3	M4×0.7×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	8	6.5
20	1.5	10	24	-	M5×0.8	8	13	5.5	3	M5×0.8×10depth	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7.5	-
25	2	12	28	-	M5×0.8	10	17	6	3	M6×1×10depth	-	9×7depth, 5.1, M6×1.0×10depth	8	-
32	3.3	16	34	-	Rc1/8(※1)	14	22	7	3	M8×1.25×12depth	48.5	9×7depth, 5.1, M6×1.0×10depth	9	-
40	3.3	16	40	-	Rc1/8(※1)	14	28	7	3	M8×1.25×12depth	56.5	10.5×8depth, 6.9, M8×1.25×10depth	10	-
50	4	20	48	-	Rc1/4(※2)	17	38	9	3	M10×1.5×15depth	70	11×8.5depth, 6.9, M8×1.25×16.5depth	10.5	-

※1: without magnet with stroke=5mm, EE=M5×0.8
※2: without magnet with stroke=5mm, EE=Rc1/8

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	20.5	25	25.5	30
16	-	29	38	3.2	6.3	1	20.5	25	30.5	35
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	31	34	41
40	14	52	-	6.2	10.3	1.6	26.5	33.5	36.5	43.5
50	19	62	-	6.2	10.8	1.6	28.6	37.6	38.6	47.6

Single acting - Table for standard stroke

Tube I.D.	Stroke (mm)
ϕ12, 16, 20, 25, 32, 40	5, 10
ϕ50	10, 20

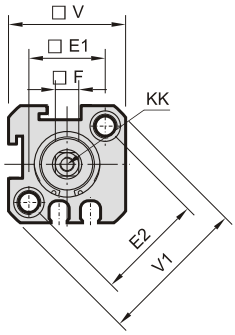
Single acting type

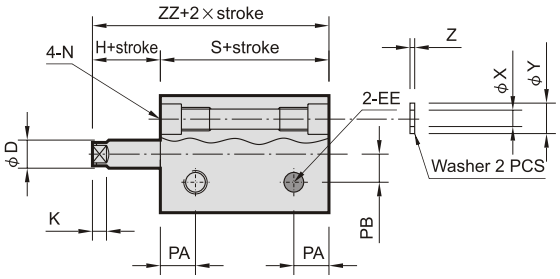
Please reconfirm the dimension with our sales department when the stroke over our standard.

MCJT Normally extended ϕ12~ϕ50

COMPACT CYLINDERS

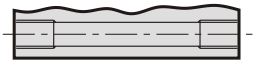
ϕ12, ϕ16





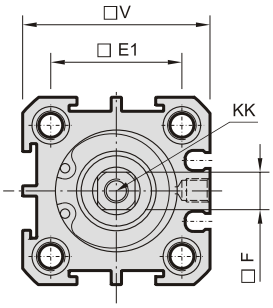
ϕ12, ϕ16 Long stroke
(Without counter bore)

ϕ20~ϕ50 Long stroke
(Without counter bore)

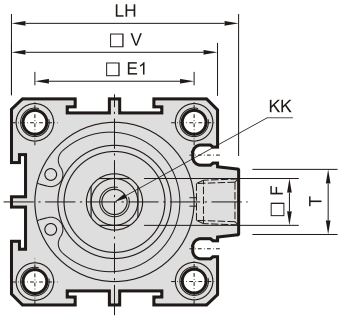


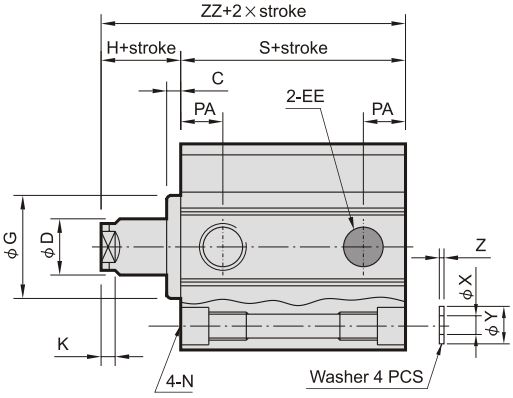
※ with magnet type: the stroke length must be over 100mm.

ϕ20, ϕ25



ϕ32~ϕ50





Code / Tube I.D.	C	D	E1	E2	EE	F	G	H	K	KK	LH	N	PA	PB
12	-	6	16.3	23	M5×0.8	5	-	4.5	3	M3×0.5×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	7.5	5.5
16	-	8	19.8	28	M5×0.8	6	-	4.5	3	M4×0.7×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	8	6.5
20	1.5	10	24	-	M5×0.8	8	13	5.5	3	M5×0.8×10depth	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7.5	-
25	2	12	28	-	M5×0.8	10	17	6	3	M6×1×10depth	-	9×7depth, 5.1, M6×1.0×10depth	8	-
32	3.3	16	34	-	Rc1/8(※1)	14	22	7	3	M8×1.25×12depth	48.5	9×7depth, 5.1, M6×1.0×10depth	9	-
40	3.3	16	40	-	Rc1/8(※1)	14	28	7	3	M8×1.25×12depth	56.5	10.5×8depth, 6.9, M8×1.25×10depth	10	-
50	4	20	48	-	Rc1/4(※2)	17	38	9	3	M10×1.5×15depth	70	11×8.5depth, 6.9, M8×1.25×16.5depth	10.5	-

※1: without magnet with stroke=5mm, EE=M5×0.8
※2: without magnet with stroke=5mm, EE=Rc1/8

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	20.5	25	25.5	30
16	-	29	38	3.2	6.3	1	20.5	25	30.5	35
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	31	34	41
40	14	52	-	6.2	10.3	1.6	26.5	33.5	36.5	43.5
50	19	62	-	6.2	10.8	1.6	28.6	37.6	38.6	47.6

Single acting - Table for standard stroke

Tube I.D.	Stroke (mm)
ϕ12, 16, 20, 25, 32, 40	5, 10
ϕ50	10, 20

Single acting type

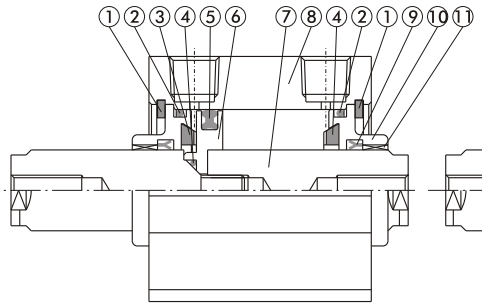
Please reconfirm the dimension with our sales department when the stroke over our standard.

MCJT Double end rod Inside structure & Parts list

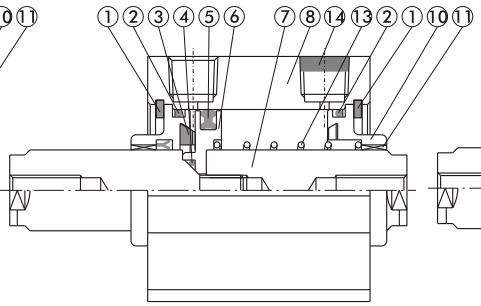
COMPACT CYLINDERS

Mindman

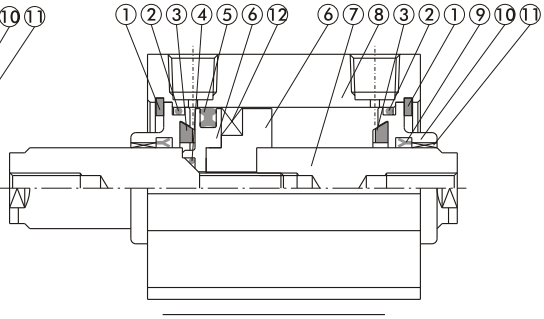
Double acting
Double end rod type



Single acting
Double end rod type



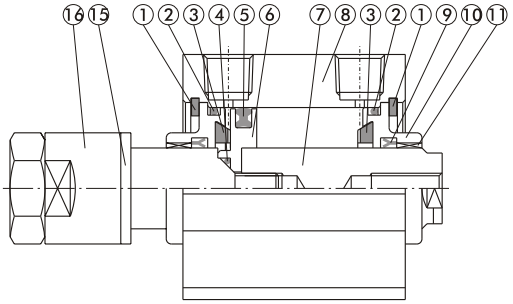
Double acting
Double end rod type(with magnet)



Seal kit

	Rod packing		Piston packing		Cover ring	Piston gasket
Acting type	Double action normally extended	Normally returned	Double action	Single action	Double action single action	Double action single action
QTY.	2	1	1	1	2	1
12	KSYR-6	KSYR-6	OPA-12	OPA-12	S-12	d4×w1
16	KSYR-8	KSYR-8	OPA-16	OPA-16	S-14	d6×w1
20	KSYR-10	KSYR-10	OPA-20	OPA-20	S-18	d6×w1
25	KSYR-12	KSYR-12	OPA-25	OPA-25	S-22	S-9
32	KSYR-16	KSYR-16	OPA-32	OPA-32	d28×w2	d11×w1
40	KSYR-16	KSYR-16	OPA-40	OPA-40	S-36	d11×w1
50	KSYR-20	KSYR-20	OPA-50	OPA-50	AS-31	S-14
63	KSYR-20	—	OPA-63	—	AS-35	S-14
80	ORA-25	—	OPA-80	—	AS-41	S-18
100	SDR-30	—	OPA-100	—	S-95	S-24

Double acting/double end rod type
Adjustable stroke



Material

No.	Part name \ Tube I.D.	12	16	20	25	32	40	50	63	80	100	Q'y	Component parts (inclusion)	Repair kits (inclusion)
1	Snap ring	Stainless steel					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 rod	Stainless steel				Carbon steel						2		
8	Body	Aluminum alloy										1		
9	Rod packing	NBR										2	●	●
10	Rod cover	Aluminum alloy										2	●	
11	Bush	–				Bearing alloy						2	●	
12	Magnet	Plastic										1	●	
13	Spring	SWP							–			1	●	
14	Silencer	Brass							–			1	●	
15	Cushion packing	PU										2	●	
16	Adjustable nut	Carbon steel										1	●	

Order example

Component parts

Tube I.D.	Component parts
ϕ 12	CP-MCJT-22-12(M)
ϕ 16	CP-MCJT-22-16(M)
ϕ 20	CP-MCJT-22-20(M)
ϕ 25	CP-MCJT-22-25(M)
ϕ 32	CP-MCJT-22-32(M)
ϕ 40	CP-MCJT-22-40(M)
ϕ 50	CP-MCJT-22-50(M)
ϕ 63	CP-MCJT-22-63(M)
ϕ 80	CP-MCJT-22-80(M)
ϕ 100	CP-MCJT-22-100(M)

M: With magnet

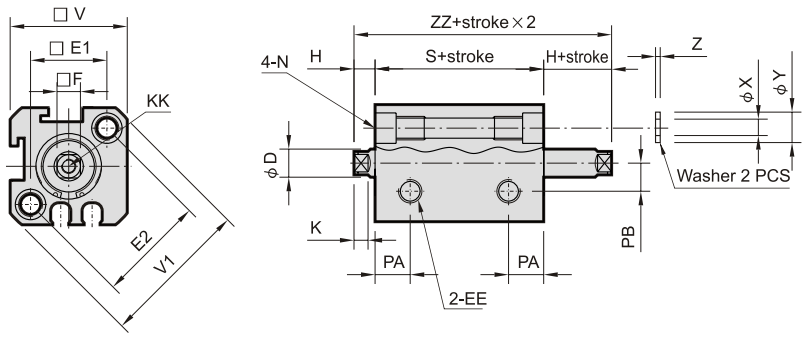
Repair kits

Tube I.D.	Repair kits
ϕ 12	PS-MCJT-22-12
ϕ 16	PS-MCJT-22-16
ϕ 20	PS-MCJT-22-20
ϕ 25	PS-MCJT-22-25
ϕ 32	PS-MCJT-22-32
ϕ 40	PS-MCJT-22-40
ϕ 50	PS-MCJT-22-50
ϕ 63	PS-MCJT-22-63
ϕ 80	PS-MCJT-22-80
ϕ 100	PS-MCJT-22-100

MCJT Double end rod / Female thread ϕ12~ϕ100

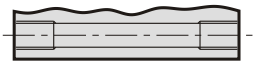
COMPACT CYLINDERS

ϕ12, ϕ16



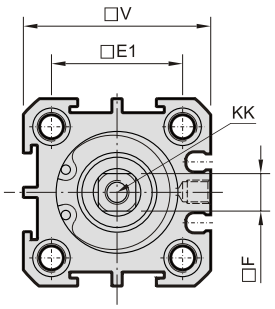
ϕ12, ϕ16 Long stroke
(Without counter bore)

ϕ20~ϕ100 Long stroke
(Without counter bore)

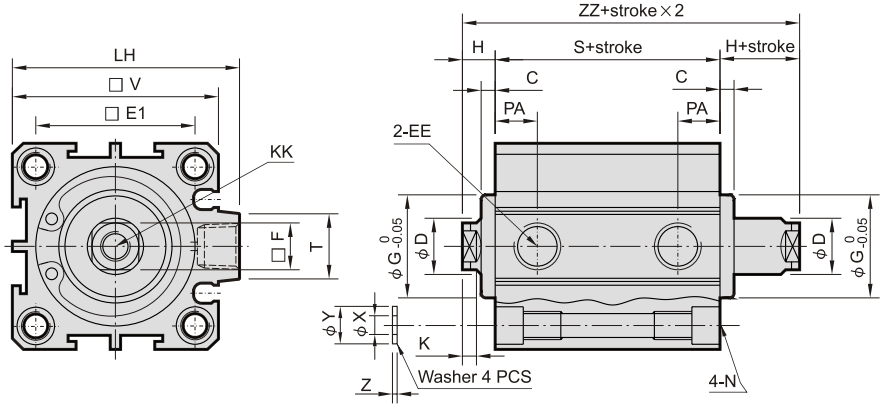


※ with magnet type: the stroke length must be over 100mm.

ϕ20, ϕ25



ϕ32~ϕ100



Code / Tube I.D.	C	D	E1	E2	EE	F	G	H	K	KK	LH	N	PA	PB
12	-	6	16.3	23	M5×0.8	5	-	4.5	3	M3×0.5×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	7.5	5.5
16	-	8	19.8	28	M5×0.8	6	-	4.5	3	M4×0.7×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	8	6.5
20	1.5	10	24	-	M5×0.8	8	13	5.5	3	M5×0.8×10depth	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7.5	-
25	2	12	28	-	M5×0.8	10	17	6	3	M6×1×10depth	-	9×7depth, 5.1, M6×1.0×10depth	8	-
32	3.3	16	34	-	Rc1/8(※1)	14	22	7	3	M8×1.25×12depth	48.5	9×7depth, 5.1, M6×1.0×10depth	9	-
40	3.3	16	40	-	Rc1/8(※1)	14	28	7	3	M8×1.25×12depth	56.5	10.5×8depth, 6.9, M8×1.25×10depth	10	-
50	4	20	48	-	Rc1/4(※2)	17	38	9	3	M10×1.5×15depth	70	11×8.5depth, 6.9, M8×1.25×16.5depth	10.5	-
63	4	20	60	-	Rc1/4(※2)	17	40	9	3	M10×1.5×15depth	83	11×8.5depth, 6.9, M8×1.25×10depth	11	-
80	5	25	74	-	Rc3/8(※3)	22	45	11	4	M14×2×20depth	102	14×10.5depth, 10.5, M12×1.75×12depth	13	-
100	3	30	90	-	Rc3/8(※3)	27	45	9	4	M18×2.5×20depth	122	18.5×13depth, 12.3, M14×2×15depth	15	-

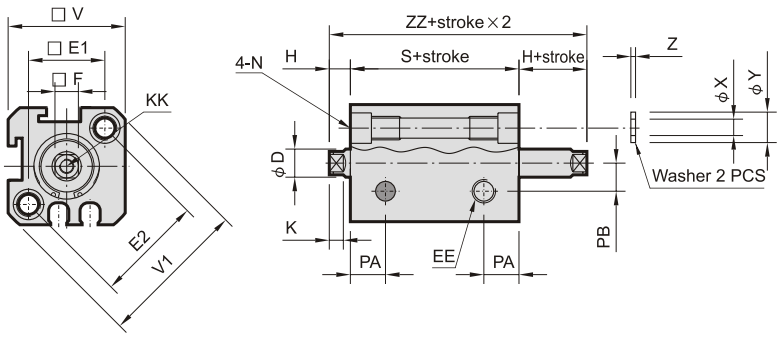
※1: without magnet with stroke=5mm, EE=M5×0.8
※2: without magnet with stroke=5mm, EE=Rc1/8
※3: without magnet with stroke=5mm, EE=Rc1/4

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	20.5	29.5	25.5	34.5
16	-	29	38	3.2	6.3	1	20.5	29.5	30.5	39.5
20	-	34	-	3.2	6.3	1	19.5	30.5	29.5	40.5
25	-	40	-	4.2	7.8	1	21	33	31	43
32	14	44	-	4.2	7.8	1	24	38	34	48
40	14	52	-	6.2	10.3	1.6	26.5	40.5	36.5	50.5
50	19	62	-	6.2	10.8	1.6	28.6	46.6	38.6	56.6
63	20	75	-	6.2	10.8	1.6	32.5	50.5	42.5	60.5
80	27	94	-	8.2	13.8	1.6	41	63	51	73
100	26	114	-	10.2	17.3	2	45	63	55	73

MCJT Double end rod / Single acting ϕ12~ϕ50

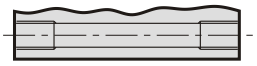
COMPACT CYLINDERS

ϕ12, ϕ16



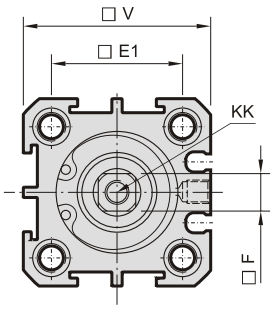
ϕ12, ϕ16 Long stroke
(Without counter bore)

ϕ20~ϕ50 Long stroke
(Without counter bore)

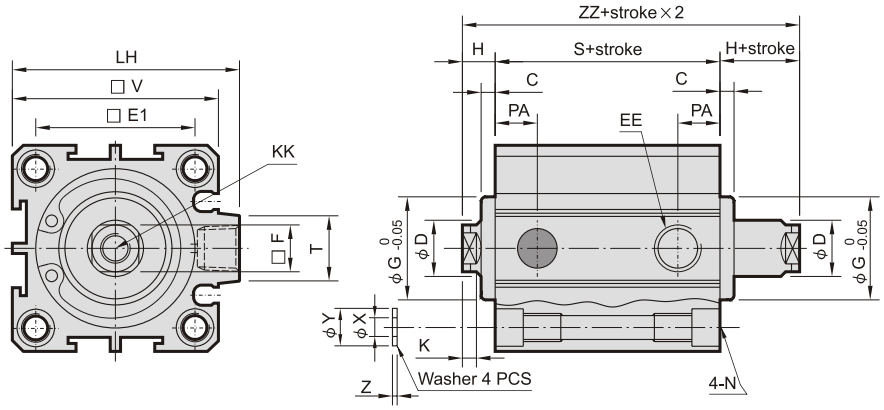


※ with magnet type: the stroke length must be over 100mm.

ϕ20, ϕ25



ϕ32~ϕ50



Code / Tube I.D.	C	D	E1	E2	EE	F	G	H	K	KK	LH	N	PA	PB
12	-	6	16.3	23	M5×0.8	5	-	4.5	3	M3×0.5×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	7.5	5.5
16	-	8	19.8	28	M5×0.8	6	-	4.5	3	M4×0.7×7depth	-	6.5×4.5depth, 4.3, M5×0.8×6depth	8	6.5
20	1.5	10	24	-	M5×0.8	8	13	5.5	3	M5×0.8×10depth	-	6.5×4.5depth, 4.3, M5×0.8×7.5depth	7.5	-
25	2	12	28	-	M5×0.8	10	17	6	3	M6×1×10depth	-	9×7depth, 5.1, M6×1.0×10depth	8	-
32	3.3	16	34	-	Rc1/8(※1)	14	22	7	3	M8×1.25×12depth	48.5	9×7depth, 5.1, M6×1.0×10depth	9	-
40	3.3	16	40	-	Rc1/8(※1)	14	28	7	3	M8×1.25×12depth	56.5	10.5×8depth, 6.9, M8×1.25×10depth	10	-
50	4	20	48	-	Rc1/4(※2)	17	38	9	3	M10×1.5×15depth	70	11×8.5depth, 6.9, M8×1.25×16.5depth	10.5	-

※1: without magnet with stroke=5mm, EE=M5×0.8
※2: without magnet with stroke=5mm, EE=Rc1/8

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	20.5	29.5	25.5	34.5
16	-	29	38	3.2	6.3	1	20.5	29.5	30.5	39.5
20	-	34	-	3.2	6.3	1	19.5	30.5	29.5	40.5
25	-	40	-	4.2	7.8	1	21	33	31	43
32	14	44	-	4.2	7.8	1	24	38	34	48
40	14	52	-	6.2	10.3	1.6	26.5	40.5	36.5	50.5
50	19	62	-	6.2	10.8	1.6	28.6	46.6	38.6	56.6

Single acting - Table for standard stroke

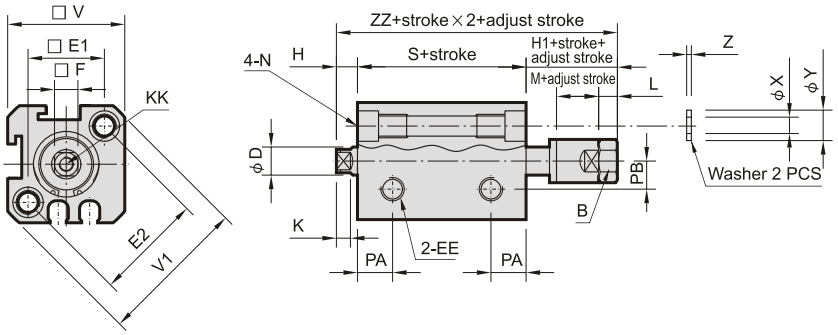
Tube I.D.	Stroke (mm)
ϕ12, 16, 20, 25, 32, 40	5, 10
ϕ50	10, 20

Single acting type
Please reconfirm the dimension with our sales department when the stroke over our standard.

MCJT Double end rod / Adjustable stroke ϕ12~ϕ100

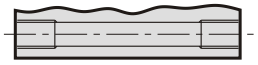
COMPACT CYLINDERS

ϕ12, ϕ16



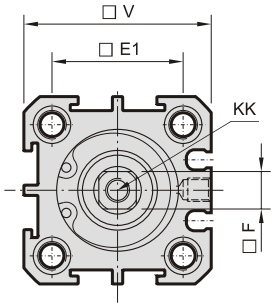
ϕ12, ϕ16 Long stroke
(Without counter bore)

ϕ20~ϕ100 Long stroke
(Without counter bore)

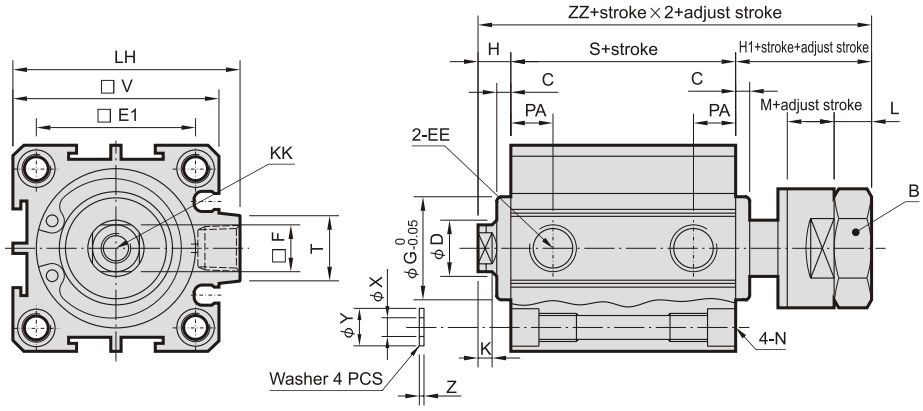


※ with magnet type: the stroke length must be over 100mm.

ϕ20, ϕ25



ϕ32~ϕ100

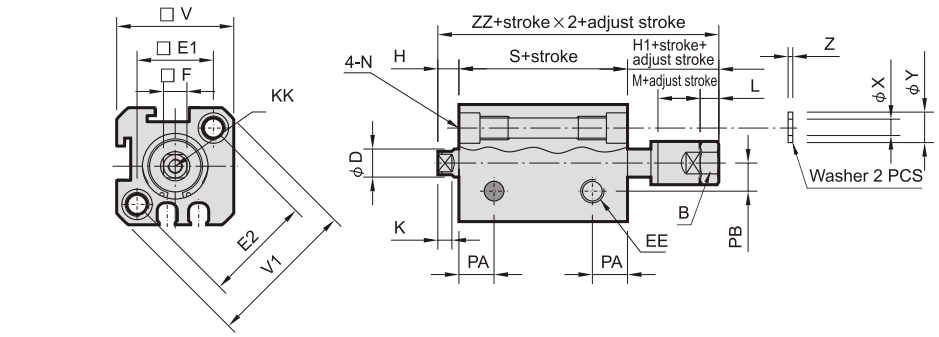


Code / Tube I.D.	B	C	D	E1	E2	EE	F	G	H	H1	K	KK	L	LH	M	N
12	8	-	6	16.3	23	M5×0.8	5	-	4.5	19.5	3	M3×0.5×7depth	4	-	13	6.5×4.5depth, 4.3, M5×0.8×6depth
16	13	-	8	19.8	28	M5×0.8	6	-	4.5	22.5	3	M4×0.7×7depth	5	-	15	6.5×4.5depth, 4.3, M5×0.8×6depth
20	13	1.5	10	24	-	M5×0.8	8	13	5.5	25.5	3	M5×0.8×10depth	5	-	15	6.5×4.5depth, 4.3, M5×0.8×7.5depth
25	17	2	12	28	-	M5×0.8	10	17	6	26	3	M6×1×10depth	6	-	12	9×7depth, 5.1, M6×1.0×10depth
32	19	3.3	16	34	-	Rc1/8(※1)	14	22	7	28	3	M8×1.25×12depth	7	48.5	12	9×7depth, 5.1, M6×1.0×10depth
40	19	3.3	16	40	-	Rc1/8(※1)	14	28	7	28.3	3	M8×1.25×12depth	7	56.5	12	10.5×8depth, 6.9, M8×1.25×10depth
50	24	4	20	48	-	Rc1/4(※2)	17	38	9	31	3	M10×1.5×15depth	8	70	15	11×8.5depth, 6.9, M8×1.25×16.5depth
63	24	4	20	60	-	Rc1/4(※2)	17	40	9	31	3	M10×1.5×15depth	8	83	15	11×8.5depth, 6.9, M8×1.25×10depth
80	32	5	25	74	-	Rc3/8(※3)	22	45	11	44	4	M14×2×20depth	13	102	20	14×10.5depth, 10.5, M12×1.75×12depth
100	32	3	30	90	-	Rc3/8(※3)	27	45	9	40	4	M18×2.5×20depth	13	122	20	18.5×13depth, 12.3, M14×2×15depth

※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

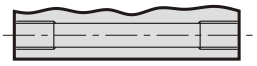
Code / Tube I.D.	PA	PB	T	V	X	Y	Z	without magnet		magnet	
								S	ZZ	S	ZZ
12	7.5	5.5	-	25	3.2	6.3	1	20.5	44.5	25.5	49.5
16	8	6.5	-	29	3.2	6.3	1	20.5	47.5	30.5	57.5
20	7.5	-	-	34	3.2	6.3	1	19.5	50.5	29.5	60.5
25	8	-	-	40	4.2	7.8	1	21	53	31	63
32	9	-	14	44	4.2	7.8	1	24	59	34	69
40	10	-	14	52	6.2	10.3	1.6	26.5	61.8	36.5	71.8
50	10.5	-	19	62	6.2	10.8	1.6	28.6	58.6	38.6	78.6
63	11	-	20	75	6.2	10.8	1.6	32.5	72.5	42.5	82.5
80	13	-	27	94	8.2	13.8	1.6	41	96	51	106
100	15	-	26	114	10.2	17.3	2	45.5	94	55.5	104

ϕ12, ϕ16



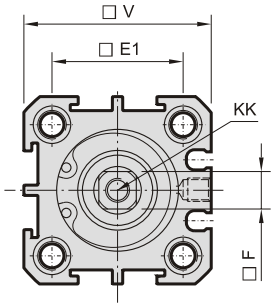
ϕ12, ϕ16 Long stroke
(Without counter bore)

ϕ20~ϕ50 Long stroke
(Without counter bore)

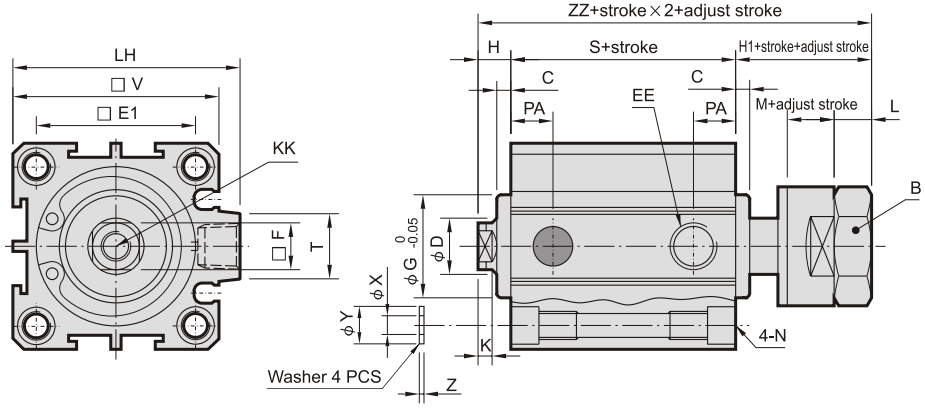


※ with magnet type: the stroke length must be over 100mm.

ϕ20, ϕ25



ϕ32~ϕ50



Code / Tube I.D.	B	C	D	E1	E2	EE	F	G	H	H1	K	KK	L	LH	M	N
12	8	-	6	16.3	23	M5×0.8	5	-	4.5	19.5	3	M3×0.5×7depth	4	-	13	6.5×4.5depth, 4.3, M5×0.8×6depth
16	13	-	8	19.8	28	M5×0.8	6	-	4.5	22.5	3	M4×0.7×7depth	5	-	15	6.5×4.5depth, 4.3, M5×0.8×6depth
20	13	1.5	10	24	-	M5×0.8	8	13	5.5	25.5	3	M5×0.8×10depth	5	-	15	6.5×4.5depth, 4.3, M5×0.8×7.5depth
25	17	2	12	28	-	M5×0.8	10	17	6	26	3	M6×1×10depth	6	-	12	9×7depth, 5.1, M6×1.0×10depth
32	19	3.3	16	34	-	Rc1/8(※1)	14	22	7	28	3	M8×1.25×12depth	7	48.5	12	9×7depth, 5.1, M6×1.0×10depth
40	19	3.3	16	40	-	Rc1/8(※1)	14	28	7	28.3	3	M8×1.25×12depth	7	56.5	12	10.5×8depth, 6.9, M8×1.25×10depth
50	24	4	20	48	-	Rc1/4(※2)	17	38	9	31	3	M10×1.5×15depth	8	70	15	11×8.5depth, 6.9, M8×1.25×16.5depth

※1: without magnet with stroke=5mm, EE=M5×0.8
※2: without magnet with stroke=5mm, EE=Rc1/8

Code / Tube I.D.	PA	PB	T	V	X	Y	Z	without magnet		magnet	
								S	ZZ	S	ZZ
12	7.5	5.5	-	25	3.2	6.3	1	20.5	44.5	25.5	49.5
16	8	6.5	-	29	3.2	6.3	1	20.5	47.5	30.5	57.5
20	7.5	-	-	34	3.2	6.3	1	19.5	50.5	29.5	60.5
25	8	-	-	40	4.2	7.8	1	21	53	31	63
32	9	-	14	44	4.2	7.8	1	24	59	34	69
40	10	-	14	52	6.2	10.3	1.6	26.5	61.8	36.5	71.8
50	10.5	-	19	62	6.2	10.8	1.6	28.6	58.6	38.6	78.6

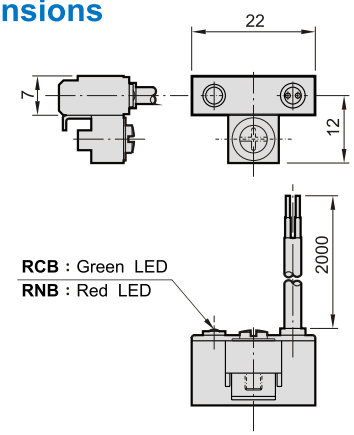
Single acting - Table for standard stroke

Tube I.D.	Stroke (mm)
ϕ12, 16, 20, 25, 32, 40	5, 10
ϕ50	10, 20

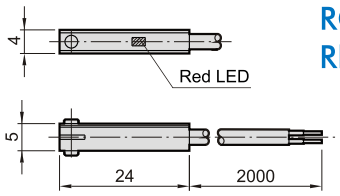
Single acting type
Please reconfirm the dimension with our sales department when the stroke over our standard.

Dimensions

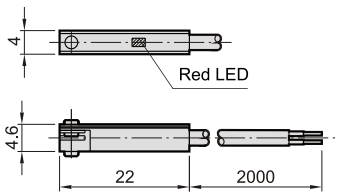
RCB
RNB



RCE

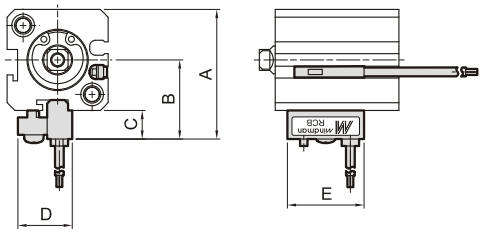


RCE1
RNE

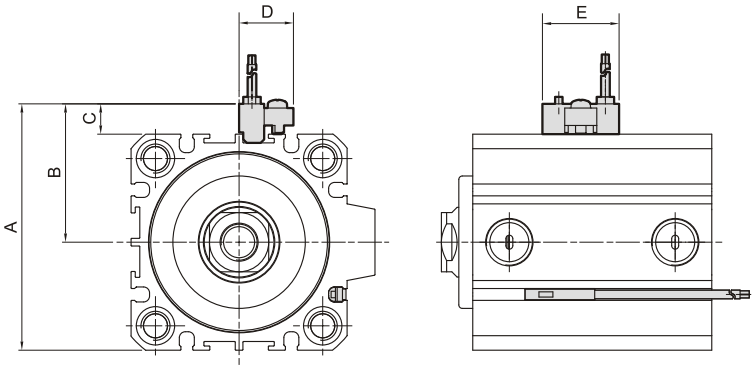


Installation of sensor switch

ϕ12, ϕ16



ϕ32~ϕ100



Order example

RCE1 – □

MODEL
RCB / RCE / RCE1 (**C**: Reed switch)
RNB / RNE (**N**: Solid state switch)

Blank: Lead wire
QD: Connector

Code / Tube I.D.	A	B	C	D	E
12	33.5	21.5	8.5	16	22
16	37.5	23	8.5	16	22
20	42.5	25.5	8.5	16	22
25	49	29	9	16	22
32	53	31	9	16	22

Code / Tube I.D.	A	B	C	D	E
40	61	35	9	16	22
50	71	40	9	16	22
63	84	46.5	9	16	22
80	103	56	9	16	22
100	123	66	9	16	22

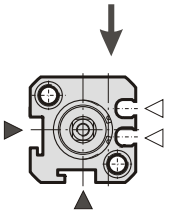
Description

▽ **RCB switch**

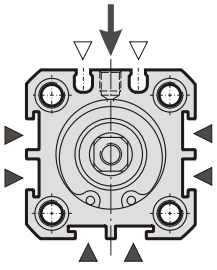
Port

▼ **RCE,RCE1 switch**

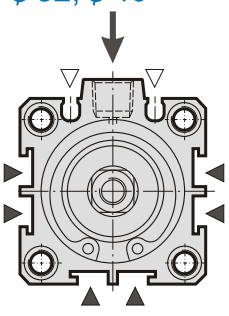
ϕ12, ϕ16



ϕ20, ϕ25



ϕ32, ϕ40



ϕ50~ϕ100