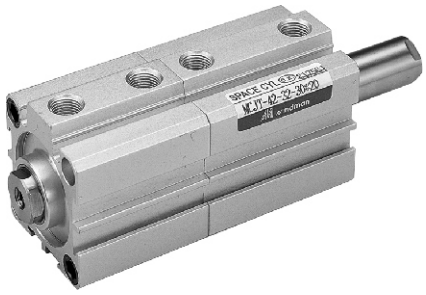
MCJT Back to back type ϕ12~ϕ100

COMPACT CYLINDERS



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 Rc(PT)		M5×0.8				PT 1/8		PT 1/4		PT 3/8	
Medium		Air									
Operating pressure kgf/cm^2	Double acting	0.5~9.9		0.3~9.9		0.2~9.9					
	Single acting	2.0~9.9		1.5~9.9		1.0~9.9			—		
Proof pressure		15 kgf/cm^2									
Ambient temperature		−5~+60℃ (No freezing)									
Sensor switch		RCB, RCE, RCE1									

Order example:

MCJT − 42 − 40 − 25×25(M) − BSP

- MCJT: MODEL
- 42: **4**: Back to Back Type
- 40: TUBE I.D.
- 25×25: STROKE1×STROKE2
- (M): **M**: Magnet
- BSP: PORT THREAD
  Blank: PT thread
  BSP: BSP thread
  NPT: NPT thread

STYLE:

Code		Symbol	Description
4	1		Double acting / Male thread
4	2		Double acting / Female thread
4	3		Single acting / Normally extended male thread
4	4		Single acting / Normally extended female thread
4	5		Single acting / Normally returned male thread
4	6		Single acting / Normally returned female thread

Double acting - Table for standard stroke

Tube I.D.	Stroke (mm)	Max. stroke
ϕ12,16	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

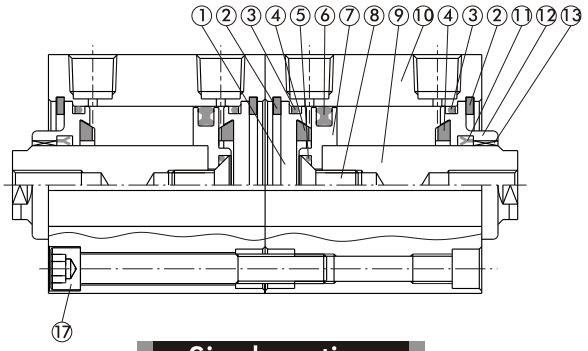
Tube I.D.	Stroke (mm)
ϕ12, 16, 20, 25, 32, 40	5, 10
ϕ50	10, 20

MCJT Back to back type Inside structure & Parts list

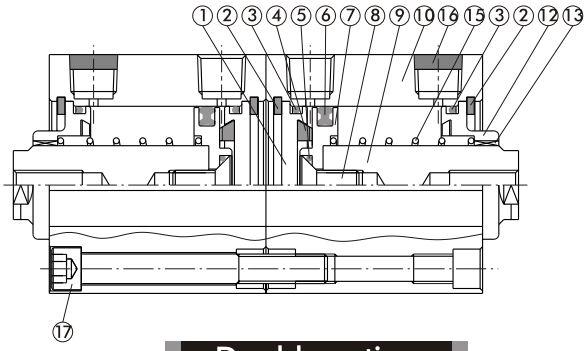
COMPACT CYLINDERS

Mindman

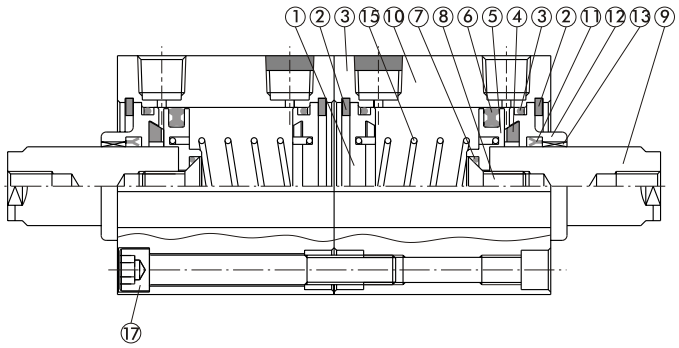
Double acting



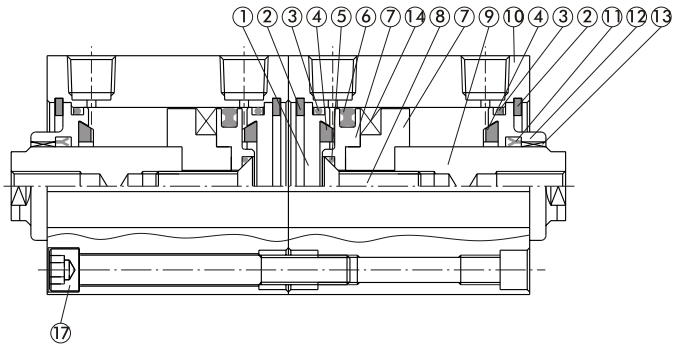
Single acting
Normally returned



Single acting
Normally extended



Double acting
(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	0	2	2	4	2
12	KSYR-6	—	OPA-12	OPA-12	S-12	d4×w1
16	KSYR-8	—	OPA-16	OPA-16	S-14	d4×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-36	S-16
80	ORA-25	—	OPA-80	—	AS-41	d20×w1
100	SDR-30	—	OPA-100	—	S-95	S-26

Material

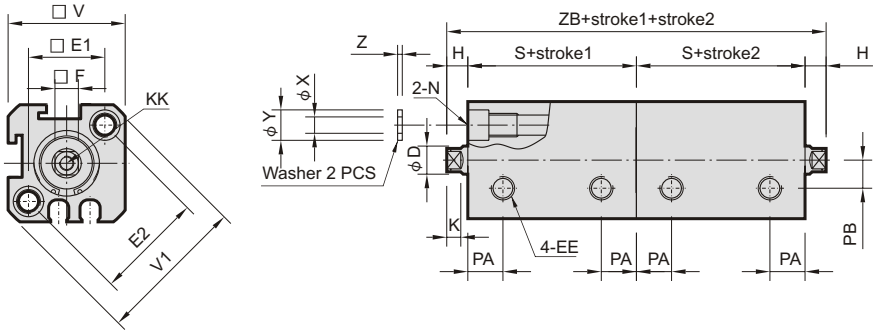
No.	Part name \ Tube I.D.	12	16	20	25	32	40	50	63	80	100
1	Head cover	Aluminum alloy									
2	Snap ring	Spring steel									
3	Cover ring	NBR									
4	Cushion packing	–		NBR							
5	Piston gasket	NBR									
6	Piston packing	NBR									
7	Piston	Aluminum alloy									
8	Screw	SCM									
9	Piston rod	SUS				Carbon steel					
10	Body	Aluminum alloy									
11	Rod packing	NBR									
12	Rod cover	Aluminum alloy									
13	Bush	–			Teflon						
14	Magnet	Plastic									
15	Spring	SWP							–		
16	Silencer	Brass							–		
17	Screw	SCM									

MCJT Back to back type Double action / Female thread ϕ12~ϕ100

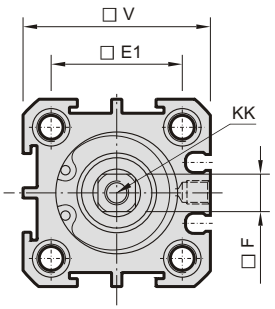
COMPACT CYLINDERS

Mindman

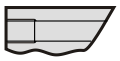
ϕ12, ϕ16



ϕ20, ϕ25

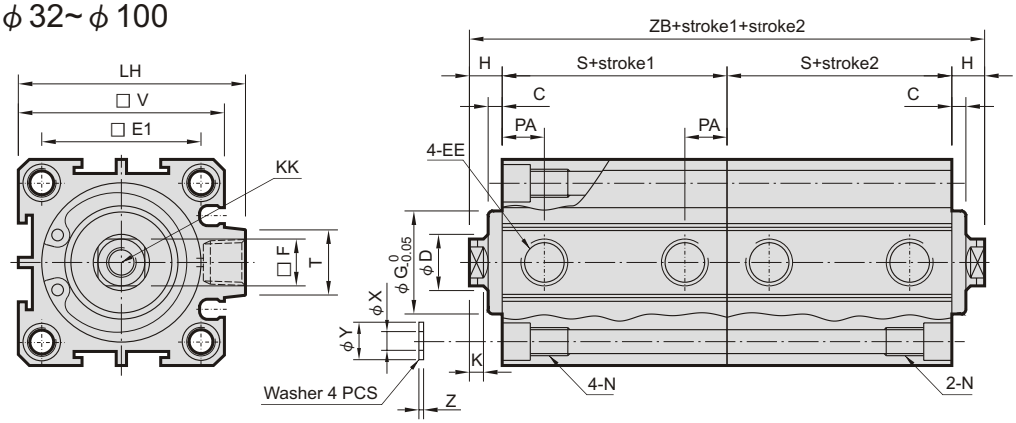


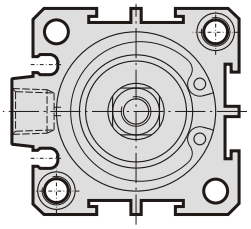
ϕ12~ϕ100 Long stroke
(Without counter bore)



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

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	-	8×6depth, 5.1, M6×1×9.5depth	8	-
32	3.3	16	34	-	PT 1/8(※1)	14	22	7	3	M8×1.25×12depth	48.5	8×6depth, 5.1, M6×1×8depth	9	-
40	3.3	16	40	-	PT 1/8(※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	-	PT 1/4(※2)	17	38	9	3	M10×1.5×15depth	70	11×8.5depth, 6.9, M8×1.25×10depth	10.5	-
63	4	20	60	-	PT 1/4(※2)	17	40	9	3	M10×1.5×15depth	83	11×8.5depth, 6.9, M8×1.25×10depth	11	-
80	5	25	74	-	PT 3/8(※3)	22	45	11	4	M14×2×20depth	102	14×10.5depth, 10.5, M12×1.75×12depth	13	-
100	3	30	90	-	PT 3/8(※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=PT1/4

※2: without magnet with stroke=5mm, EE=PT1/8

Code / Tube I.D.	T	V	V1	X	Y	Z	without magnet		magnet	
							S	ZB	S	ZB
12	-	25	32	3.2	6.3	1	20.5	50	25.5	60
16	-	29	38	3.2	6.3	1	20.5	50	30.5	70
20	-	34	-	3.2	6.3	1	19.5	50	29.5	70
25	-	40	-	4.2	7.8	1	21	54	31	74
32	14	44	-	4.2	7.8	1	24	62	34	82
40	14	52	-	6.2	10.3	1.6	26.5	67	36.5	87
50	19	62	-	6.2	10.8	1.6	28.6	75.2	38.6	95.2
63	20	75	-	6.2	10.8	1.6	32.5	83	42.5	103
80	27	94	-	8.2	13.8	1.6	41	104	51	124
100	26	114	-	10.2	17.3	2	45	108	55	128