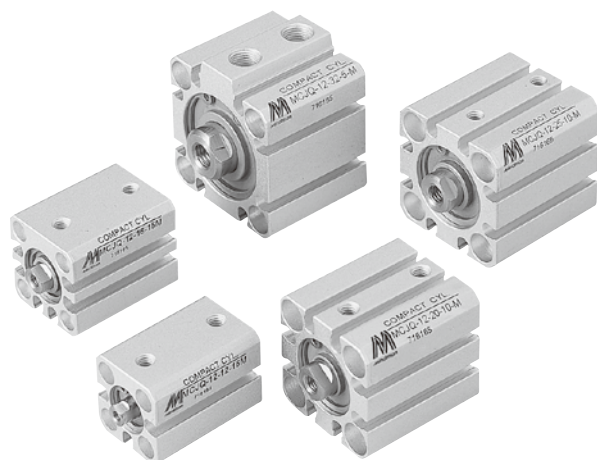


COMPACT CYLINDER



Single acting – Table for standard stroke

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

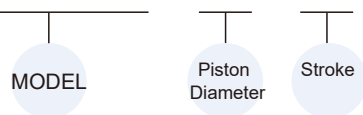
Double acting – Table for standard stroke

Tube I.D.	Standard stroke	Standard stroke (mm)
ø12,16	5,10,15,20,25,30	35,40,45,50,75,100
ø20	5,10,15,20,25,30,	75,100,125,150,175,200
	35,40,45,50	
ø25	5,10,15,20,25,30,	75,100,125,150,175,200,250,300
35,40,45,50,75,100		
ø32~80	5,10,15,20,25,30,	125,150,175,200,250,300
35,40,45,50,75,100		
Tube I.D.	Standard stroke (mm)	
ø100	5,10,15,20,25,30,35,40,45,50,75,100	

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

Order example PNSCC121620MG

PNSCC12 – 16 – 20 – MG



STYLE

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

Features

- All products use counterbore and thread installation design without any fixed frame to meet the space saving requirements.
- Anodised aluminum tubes provide better corrosion and abrasion resistance.
- The assembly grooves are designed around the body to make the sensor easier to install and fix.
- Compact assembly groove design makes the sensors enable to flush mount and can save space.
- Sensors can be mounted on any one of three faces for 12 and 16 bore and on four faces for 20~100 bore.

Specification

Model	PNSCC										
Acting type	Double acting / Single acting					Double					
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		0.07~1		0.05~1						
	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 (*)	RCB		—					●	●	●	●
	RCE,RCE1		●	●	●	●	●	●	●	●	
	RDEP		●	●	—	●	—	●	●	●	

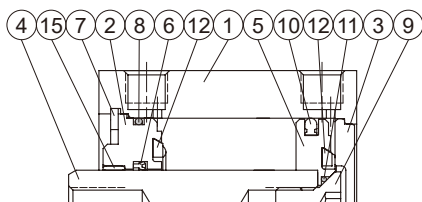
MOUNTING TYPE

	LB		FBC
	CB		RF
	FAC		

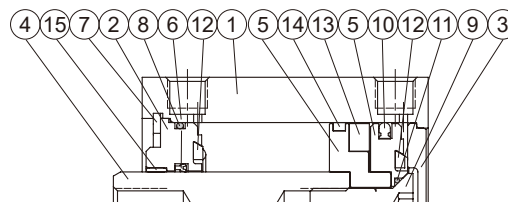
PNSCC series Inside structure & Parts list – Single rod

COMPACT CYLINDER

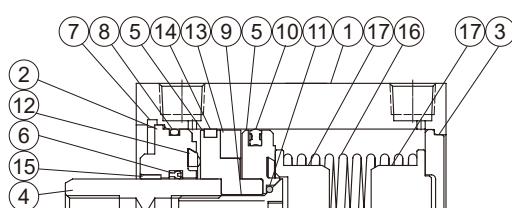
Double acting



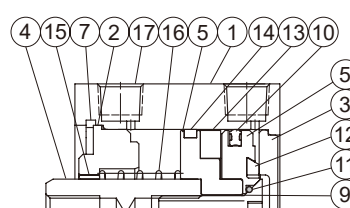
Double acting (with magnet)



Single acting Normally extended



Single acting Normally returned



Material

No.	Tube I.D. Part name	12	16	20	25	32	40	50	63	80	100	Q'y	Repair kits (inclusion)
1	Body	Aluminum alloy										1	
2	Rod cover	Aluminum alloy										1	
3	End cover	Aluminum alloy										1	
4	Piston With magnet rod	Stainless steel				Carbor steel						1	
	Without magnet	*1	Carbor steel									1	
5	Piston	Aluminum alloy										1	
6	Rod packing	NBR										1	●
7	Snap ring	Stainless steel				Spring steel						1	
8	Cover ring	NBR										1	●
9	Piston bolt	Stainless steel				SCM						1	
10	Piston packing	NBR										1	●
11	Piston gasket	NBR										1	●
12	Cushion packing	NBR										2	●
13	Magnet	Magnet										1	
14	Wear ring	—				Resin						1	
15	Bush	—				Bearing alloy						1	
16	Spring	SWP										1	
17	Spring holder	Aluminum alloy				—						2	

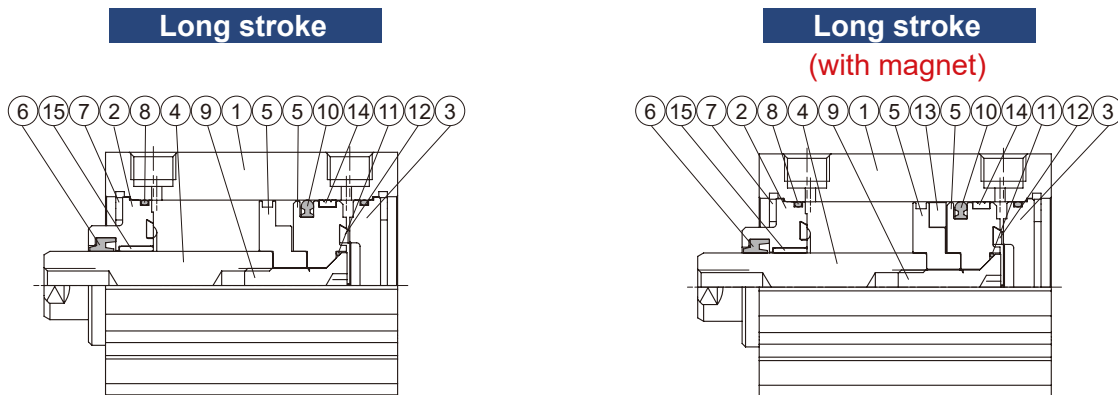
*1. Stainless steel

Seal kit

Acting type	Rod packing		Piston packing		Cover ring		Piston gasket
	Double acting / Normally extended	Normally retruned	Double acting	Single acting	Double acting / Normally extended	Normally retruned	
Q'y	1	0	1	1	1	0	1
ø12	KSYR-6	—	OPA-12	OPA-12	S-11	—	d4×w1
ø16	KSYR-8	—	OPA-16	OPA-16	S-14	—	d5×w1
ø20	KSYR-10A	—	OPA-20	OPA-20	S-18	—	d6×w1
ø25	KSYR-12	—	OPA-25	OPA-25	S-22,4	—	d8×w1
ø32	KSYR-16	—	OPA-32	OPA-32	S-28	—	S-9
ø40	KSYR-16	—	OPA-40	OPA-40	S-36	—	S-10
ø50	KSYR-20	—	OPA-50	OPA-50	S-46	—	S-16
ø63	KSYR-20	—	OPA-63	—	S-60	—	S-16
ø80	ORA-25	—	OPA-80	—	G-75	—	d20×w1
ø100	ORA-30	—	OPA-100	—	G-95	—	S-26

PNSCC series Inside structure & Parts list – Single rod / Long stroke

COMPACT CYLINDER



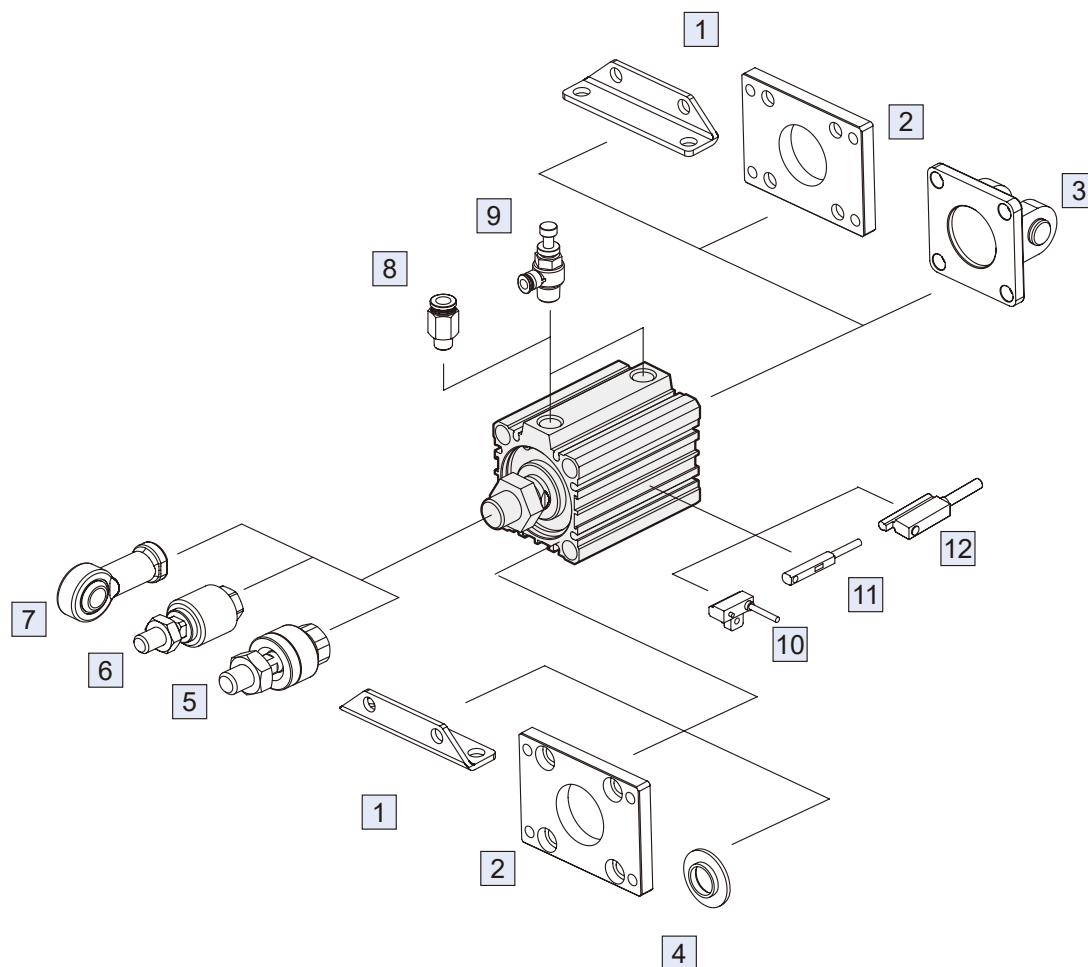
Long stroke – Material

No.	Tube I.D. Part name	12	16	20	25	32	40	50	63	80	Q'y	Component parts (inclusion)	Repair kits (inclusion)
1	Body	Aluminum alloy									1		
2	Rod cover	Aluminum alloy									1	●	
3	End cover	Aluminum alloy									1	●	
4	Piston rod	Stainless steel			Carbor steel						1		
	Without magnet	*1	Carbor steel									1	
5	Piston	Aluminum alloy									1	●	
6	Rod packing	NBR									1	●	●
7	Snap ring	Stainless steel			Spring steel						2	●	
8	Cover ring	NBR									2	●	●
9	Piston bolt	Stainless steel			SCM						1	●	
10	Piston packing	NBR									1	●	●
11	Piston gasket	NBR									1	●	●
12	Cushion packing	NBR									2	●	●
13	Magnet	Magnet									1	●	
14	Wear ring	Resin									1	●	
15	Bush	-			Bearing alloy						1	●	

* Stainless steel

PNSCC series Accessories

COMPACT CYLINDER



No.	Accessories	Material	Page
1	Mounting accessories LB	Carbon steel	2-37, 39
2	Mounting accessories FAC/FBC	Carbon steel	2-37, 38, 40, 41
3	Mounting accessories CB+PIN	Cast iron / *	2-38, 42, 43
4	Mounting accessories RF	Aluminum	2-43
5	Floating joint MFC	Carbon steel	8-2
6	Floating joint MFCS	Carbon steel	8-5

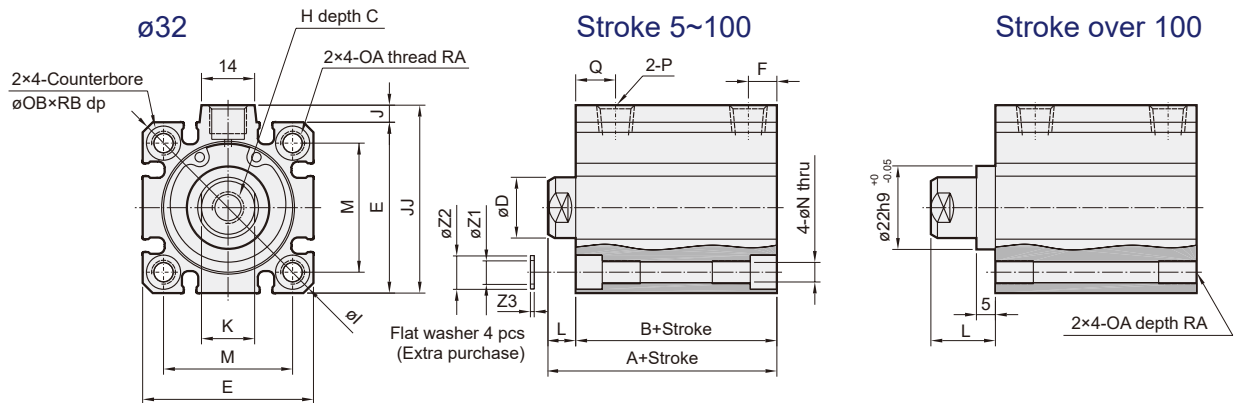
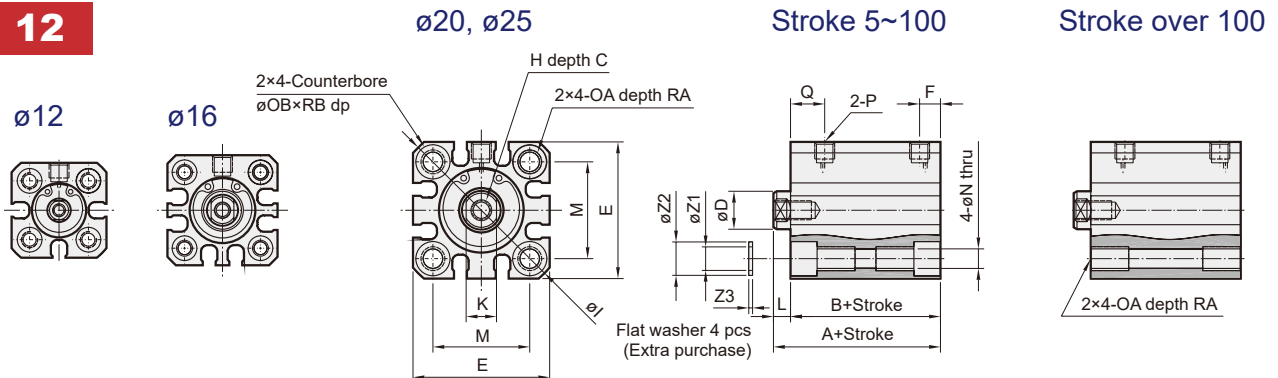
No.	Accessories	Material	Page
7	Female rod ends PHS	Carbon steel	8-6
8	Fitting PC (PISCO)	-	8-3 (Vol.1)
9	Speed controller JSC (PISCO)	-	8-15 (Vol.1)
10	Sensor switch RCB	-	8-10
11	Sensor switch RCE/RCE1	-	8-12, 13
12	Sensor switch RDEP	-	8-18

* Material of PIN and ø12, ø16 CB accessories are carbon steel.

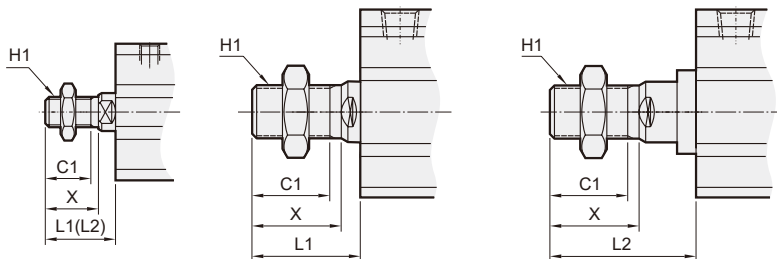
PNSCC series Dimensions – Double acting $\phi 12\sim\phi 32$

COMPACT CYLINDER

12



$\phi 12\sim 25$ $\phi 32$ for stroke 5~100 $\phi 32$ for stroke over 100



11 Male thread

Code Tube I.D.	C1	H1	L1	L2	X
12	9	M5×0.8	14	24	10.5
16	10	M6×1.0	15.5	25.5	12
20	12	M8×1.25	18.5	28.5	14
25	15	M10×1.25	22.5	32.5	17.5
32	20.5	M14×1.5	28.5	38.5	23.5

* L1: Standard stroke, L2: Long stroke

$\phi 12\sim 25$

Code Tube I.D.	Standard stroke										Long stroke																						
	Stroke range		Without magnet				Magnet				Stroke range		A	B	F	L	C	D	E	H	I	K	M	N	OA	OB	P	Q	RA	RB	Z1	Z2	Z3
	A	B	F	L	A	B	F	L	Stroke range	A	B	F	L	C	D	E	H	I	K	M	N	OA	OB	P	Q	RA	RB	Z1	Z2	Z3			
12	5~30	20.5	17	5	3.5	25.5	22	5	3.5	31~100	45.5	32	7.5	13.5	6	6	25	M3×0.5	32	5	15.5	3.5	M4×0.7	6.5	M5×0.8	7.5	7	4	4.2	6.3	0.5		
16	5~30	20.5	17	5	3.5	25.5	22	5	3.5	31~100	45.5	32	7.5	13.5	8	8	29	M4×0.7	38	6	20	3.5	M4×0.7	6.5	M5×0.8	7.5	7	4	4.2	6.3	0.5		
20	5~50	24	19.5	5.5	4.5	34	29.5	5.5	4.5	51~200	55.5	41	9	14.5	7	10	36	M5×0.8	47	8	25.5	5.5	M6×1.0	9	M5×0.8	9	10	7	6.2	8.8	1		
25	5~50	27.5	22.5	5.5	5	37.5	32.5	5.5	5	51~300	59	44	11	15	12	12	40	M6×1.0	52	10	28	5.5	M6×1.0	9	M5×0.8	11	10	7	6.2	8.8	1		

$\phi 32$

Code Tube I.D.	Standard stroke							Long stroke																								
	Stroke range		Without magnet		Magnet			Stroke range					P	C	D	E	H	I	J	JJ	K	M	N	OA	OB	RA	RB	Z1	Z2	Z3		
	A	B	A	B	F	L	Q	Stroke range	A	B	F	L	Q	P	C	D	E	H	I	J	JJ	K	M	N	OA	OB	RA	RB	Z1	Z2	Z3	
32	5~50	30	23	40	33	7.5*1	7	10.5*1	101~300	62.5	45.5	12.5	17	12.5	*1	13	16	45	M8×1.25	60	4.5	49.5	14	34	5.5	M6×1.0	9	10	7	6.2	8.8	1

*1. Without magnet with stroke=5mm, P=M5×0.8, Q=11.5, F=5.5

PNSCC series Dimensions – Double acting $\phi 40\sim\phi 100$

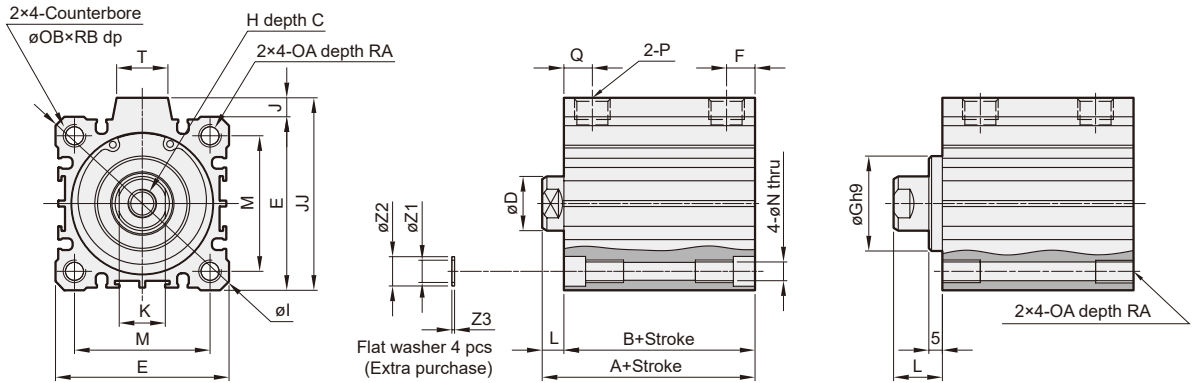
COMPACT CYLINDER

12

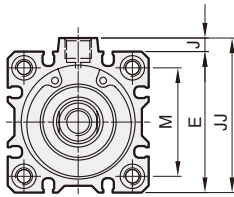
$\phi 50\sim\phi 100$

Stroke 5~100

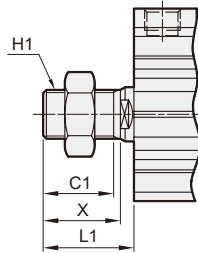
Stroke over 100



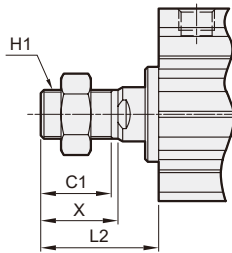
$\phi 40$



$\phi 40\sim\phi 100$
(Stroke 5~100)



$\phi 40\sim\phi 80$
(Stroke over 100)



11

Male thread

Code Tube I.D.	C1	H1	L1	L2	X
40	20.5	M14×1.5	28.5	38.5	23.5
50	26	M18×1.5	33.5	43.5	28.5
63	26	M18×1.5	33.5	43.5	28.5
80	32.5	M22×1.5	43.5	53.5	35.5
100	32.5	M26×1.5	43.5	—	35.5

Code Tube I.D.	Standard stroke									Long stroke				
	Stroke range	Without magnet		Magnet		F	L	Q	Stroke range	A	B	F	L	Q
	A	B	A	B										
40	5~50	36.5	29.5	46.5	39.5	8	7	11	125~300	72	55	14	17	14
	51~100	46.5	39.5											
50	5~50	38.5	30.5	48.5	40.5	10.5 ^{*1}	8	10.5 ^{*1}	125~300	73.5	55.5	14	18	14
	51~100	48.5	40.5											
63	5~50	44	36	54	46	10.5	8	15	125~300	75	57	16.5	18	16.5
	51~100	54	46											
80	5~50	53.5	43.5	63.5	53.5	12.5	10	16	125~300	86	66	19	20	19
	51~100	63.5	53.5											
100	5~50	65	53	75	63	13	12	23						
	51~100	75	63											

Code Tube I.D.	C	D	E	G ^{h9}	H	I	J	JJ	K	M	N	OA	OB	P	RA	RB	T	Z1	Z2	Z3
40	13	16	52	28 ⁺⁰ _{-0.052}	M8×1.25	70	5	57	14	40	5.5	M6×1.0	9	Rc1/8	10	7	14	6.2	8.8	1
50	15	20	64	35 ⁺⁰ _{-0.062}	M10×1.5	86	7	71	17	50	6.6	M8×1.25	11	Rc1/4 ^{*1}	14	8	19	8.2	10.8	1
63	15	20	77	35 ⁺⁰ _{-0.062}	M10×1.5	103	7	84	17	60	9	M10×1.5	14	Rc1/4 ^{*2}	18	10.5	19	10.2	13.8	1
80	21	25	98	43 ⁺⁰ _{-0.062}	M16×2.0	132	6	104	22	77	11	M12×1.75	17.5	Rc3/8 ^{*3}	22	13.5	26	12.2	17.3	2
100	27	30	117	—	M20×2.5	156	6.5	123.5	27	94	11	M12×1.75	17.5	Rc3/8 ^{*3}	22	13.5	26	12.2	17.3	2

*1. Without magnet with stroke=5mm, P=Rc1/8, Q=12, F=8

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

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

PNSCC series Dimensions – Normally extended $\phi 12\sim\phi 50$

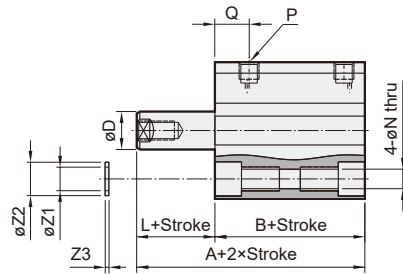
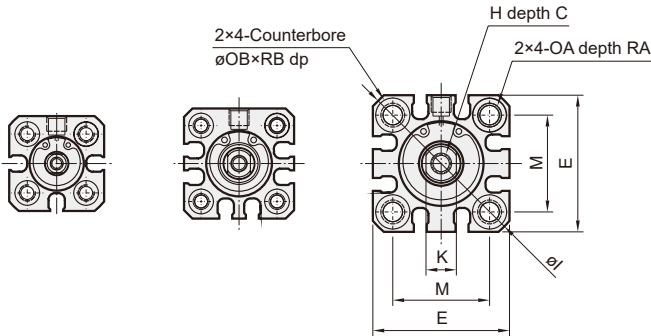
COMPACT CYLINDER

14

$\phi 12$

$\phi 16$

$\phi 20, \phi 25$

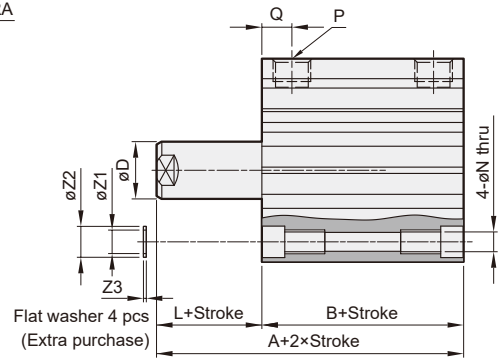
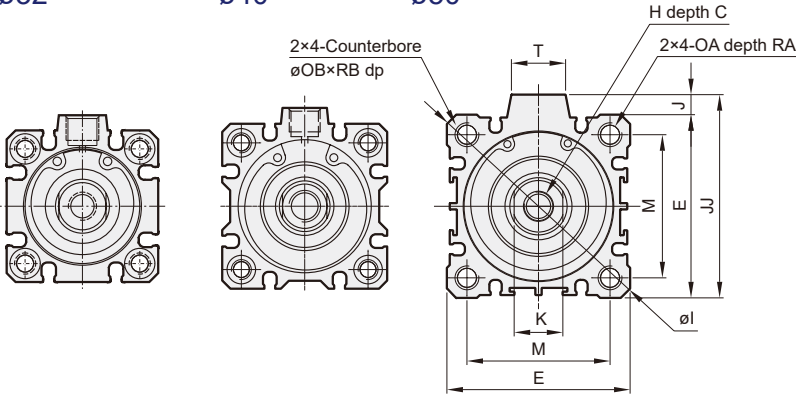


Flat washer 4 pcs
(Extra purchase)

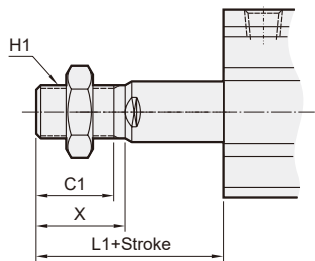
$\phi 32$

$\phi 40$

$\phi 50$



Flat washer 4 pcs
(Extra purchase)



* L1: Standard stroke

13

Male thread

Code Tube I.D.	C1	H1	L1	X
12	9	M5×0.8	14	10.5
16	10	M6×1.0	15.5	12
20	12	M8×1.25	18.5	14
25	15	M10×1.25	22.5	17.5
32	20.5	M14×1.5	28.5	23.5
40	20.5	M14×1.5	28.5	23.5
50	26	M18×1.5	33.5	28.5

Note: The value **B** of $\phi 12\sim\phi 40$ type is greater than double acting type.

Code Tube I.D.	Standard stroke				C	D	E	H	I	J	JJ	K	L	M	N	OA	OB	P	Q	RA	RB	T	Z1	Z2	Z3	
	Without magnet		Magnet																							
	A	B	A	B																						
12	5,10	30.5	27	35.5	32	6	6	25	M3×0.5	32	—	—	5	3.5	15.5	3.5	M4×0.7	6.5	M5×0.8	7.5	7	4	—	4.2	6.3	0.5
16	5,10	35.5	32	40.5	37	8	8	29	M4×0.7	38	—	—	6	3.5	20	3.5	M4×0.7	6.5	M5×0.8	7.5	7	4	—	4.2	6.3	0.5
20	5,10	34	29.5	44	39.5	7	10	36	M5×0.8	47	—	—	8	4.5	25.5	5.5	M6×1.0	9	M5×0.8	9	10	7	—	6.2	8.8	1
25	5,10	47.5	42.5	57.5	52.5	12	12	40	M6×1.0	52	—	—	10	5	28	5.5	M6×1.0	9	M5×0.8	11	10	7	—	6.2	8.8	1
32	5,10	55	48	65	58	13	16	45	M8×1.25	60	4.5	49.5	14	7	34	5.5	M6×1.0	9	Rc1/8	10.5	10	7	14	6.2	8.8	1
40	5,10	61.5	54.5	71.5	64.5	13	16	52	M8×1.25	70	5	57	14	7	40	5.5	M6×1.0	9	Rc1/8	11	10	7	14	6.2	8.8	1
50	5~20	38.5	30.5	48.5	40.5	15	20	64	M10×1.5	86	7	71	17	8	50	6.5	M8×1.25	11	Rc1/4 *	10.5 *	14	8	19	8.2	10.8	1

*1. Without magnet with stroke=5mm, P=Rc1/8, Q=12

MCJQ Dimensions – Normally returned ø12~ø50

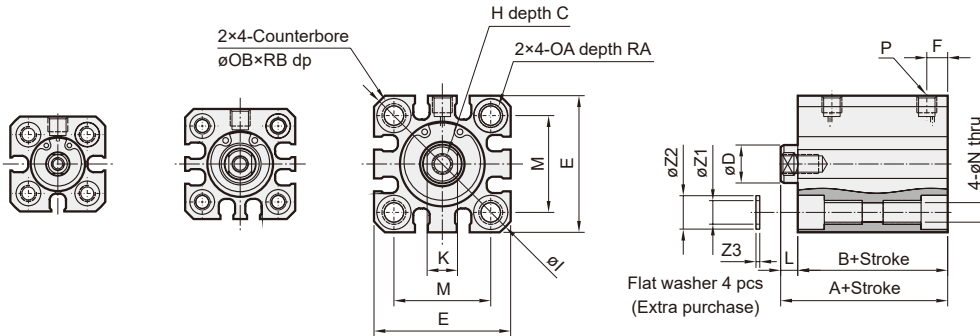
COMPACT CYLINDER

16

ø12

ø16

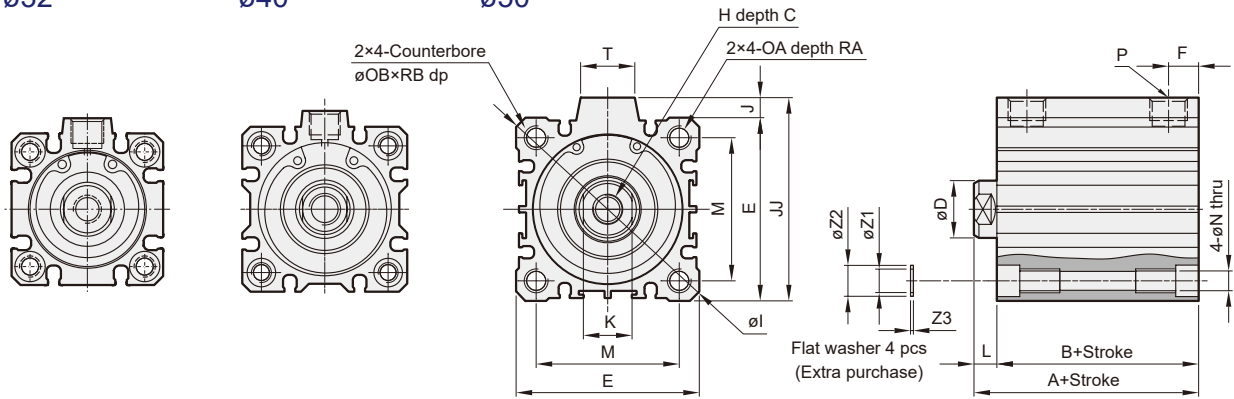
ø20, ø25



ø32

ø40

ø50



* L1: Standard stroke

15 Male thread

Code Tube I.D.	C1	H1	L1	X
12	9	M5×0.8	14	10.5
16	10	M6×1.0	15.5	12
20	12	M8×1.25	18.5	14
25	15	M10×1.25	22.5	17.5
32	20.5	M14×1.5	28.5	23.5
40	20.5	M14×1.5	28.5	23.5
50	26	M18×1.5	33.5	28.5

Code Tube I.D.	Standard stroke				C	D	E	F	H	I	J	JJ	K	L	M	N	OA	OB	P	RA	RB	T	Z1	Z2	Z3	
	Stroke range	Without magnet		Magnet																						
		A	B	A																						B
12	5,10	20.5	17	25.5	22	6	6	25	5	M3×0.5	32	–	–	5	3.5	15.5	3.5	M4×0.7	6.5	M5×0.8	7	4	–	4.2	6.3	0.5
16	5,10	20.5	17	25.5	22	8	8	29	5	M4×0.7	38	–	–	6	3.5	20	3.5	M4×0.7	6.5	M5×0.8	7	4	–	4.2	6.3	0.5
20	5,10	24	19.5	34	29.5	7	10	36	5.5	M5×0.8	47	–	–	8	4.5	25.5	5.5	M6×1.0	9	M5×0.8	10	7	–	6.2	8.8	1
25	5,10	27.5	22.5	37.5	32.5	12	12	40	5.5	M6×1.0	52	–	–	10	5	28	5.5	M6×1.0	9	M5×0.8	10	7	–	6.2	8.8	1
32	5,10	30	23	40	33	13	16	45	7.5 ^{*1}	M8×1.25	60	4.5	49.5	14	7	34	5.5	M6×1.0	9	Rc1/8 ^{*1}	10	7	14	6.2	8.8	1
40	5,10	36.5	29.5	46.5	39.5	13	16	52	8	M8×1.25	70	5	57	14	7	40	5.5	M6×1.0	9	Rc1/8	10	7	14	6.2	8.8	1
50	5~20	38.5	30.5	48.5	40.5	15	20	64	10.5 ^{*2}	M10×1.5	86	7	71	17	8	50	6.5	M8×1.25	11	Rc1/4 ^{*2}	14	8	19	8.2	10.8	1

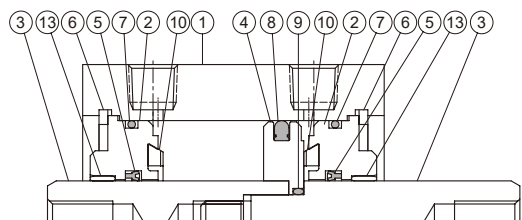
*1. Without magnet with stroke=5mm, P=M5×0.8, F=5.5

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

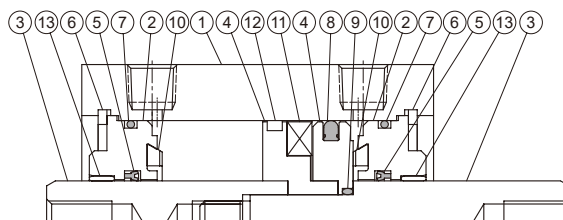
MCJQ Inside structure & Parts list – Double rod

COMPACT CYLINDER

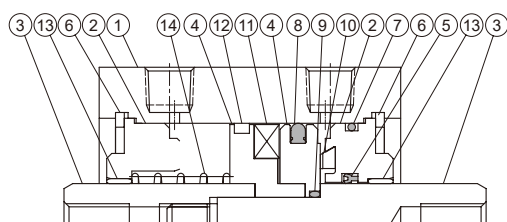
Double acting



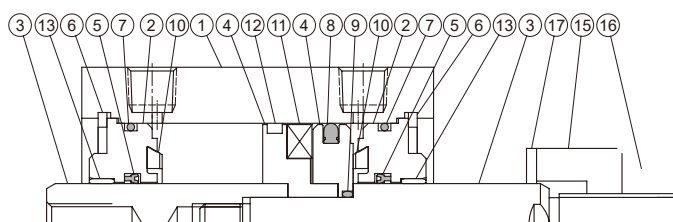
Double acting (with magnet)



Single acting



Adjustable stroke



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	Body	Aluminum alloy										1			
2	Rod cover	Aluminum alloy										2	●		
3	Piston rod	With magnet	Stainless steel		Carbor steel						2				
		Without magnet	*1	Carbor steel									2		
4	Piston	Aluminum alloy										1	●		
5	Rod packing	NBR										2	●	●	
6	Snap ring	Stainless steel				Spring steel						2	●	●	
7	Cover ring	NBR										2	*2	●	●
8	Piston packing	NBR										1	●	●	
9	Piston gasket	NBR										1	●	●	
10	Cushion packing	NBR										2	●	●	
11	Magnet	Magnet										1	●		
12	Wear ring	-				Resin						1	●		
13	Bush	-				Bearing alloy						2	●		
14	Spring	SWP								-		1	●		
15	Adjustable nut	Carbor steel										1	●		
16	Hexagon nut	Carbor steel										1	●		
17	Cushion packing	PU										1	●		

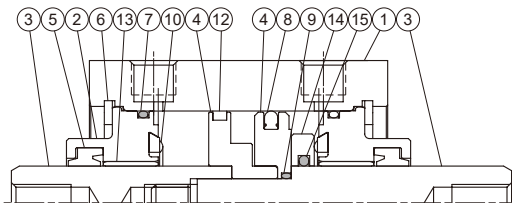
*1. Stainless steel

*2. Single acting (Q'y=1 pc)

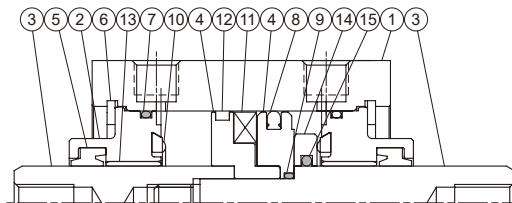
MCJQ Inside structure & Parts list – Double rod / Long stroke

COMPACT CYLINDER

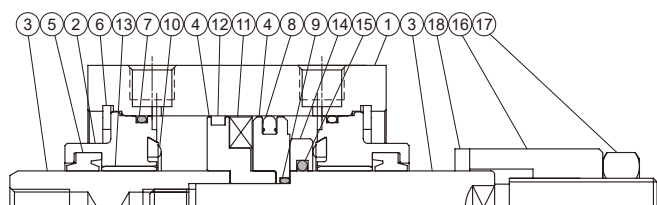
Double acting



Double acting (with magnet)



Adjustable stroke



Long stroke – Material

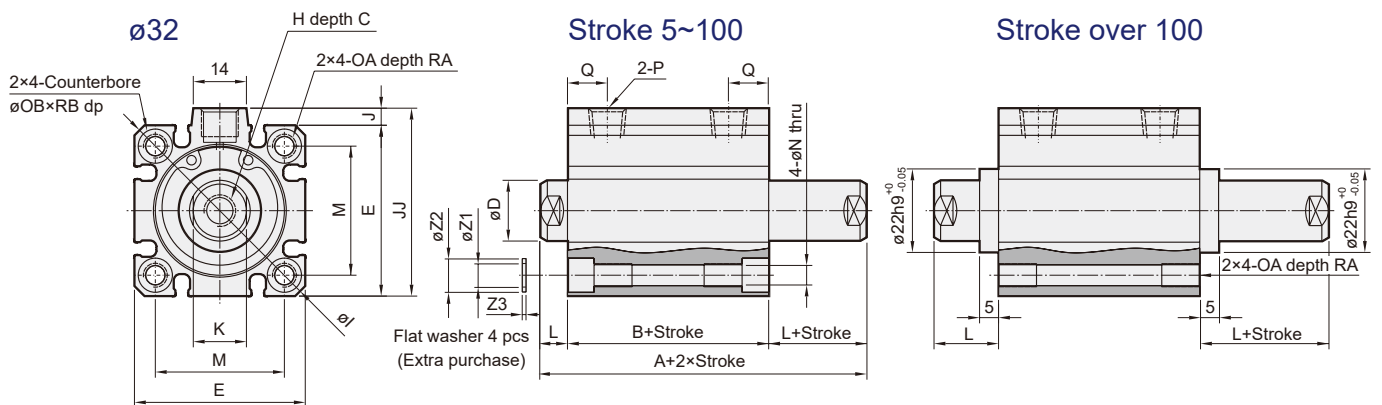
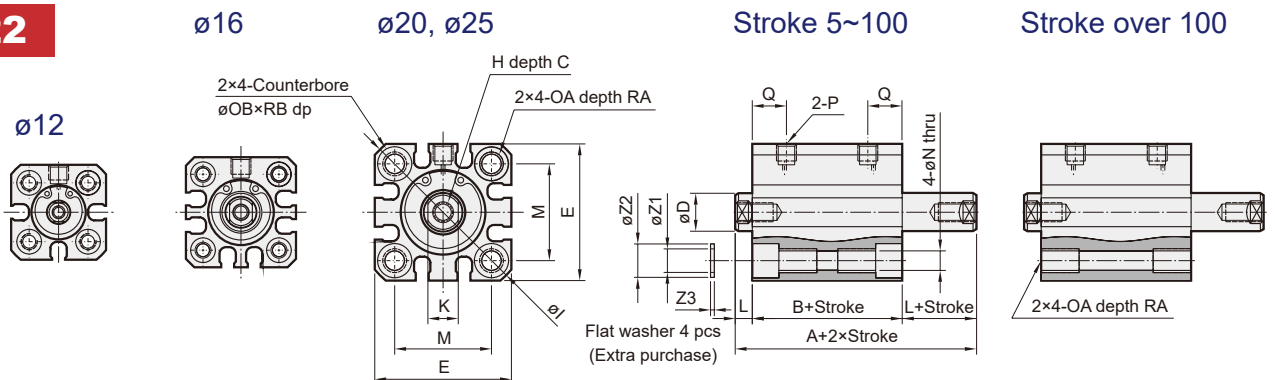
No.	Tube I.D. Part name	12	16	20	25	32	40	50	63	80	Q'y	Component parts (inclusion)	Repair kits (inclusion)	
1	Body	Aluminum alloy									1			
2	Rod cover	Aluminum alloy									2	●		
3	Piston rod	With magnet		Stainless steel		Carbor steel				2				
		Without magnet		*1		Carbor steel				2				
4	Piston	Aluminum alloy									2	●		
5	Rod packing	NBR									2	●	●	
6	Snap ring	Stainless steel				Spring steel					2	●		
7	Cover ring	NBR									2	●	●	
8	Piston packing	NBR									1	●	●	
9	Piston gasket	NBR									1	●	●	
10	Cushion packing	–	NBR									2	●	●
11	Magnet	Magnet									1	●		
12	Wear ring	–				Resin					1	●		
13	Bush	–				Bearing alloy					2	●		
14	Sub-piston	–	PU		Aluminum alloy					1	●			
15	Sub-piston gasket	–				NBR					1	●	●	
16	Adjust nut	Carbor steel									1	●		
17	Hexagon nut	Carbor steel									1	●		
18	Cushion gasket	PU									1	●		

*1. Stainless steel

MCJQ Dimensions – Double acting / Double rod $\phi 12\sim\phi 32$

COMPACT CYLINDER

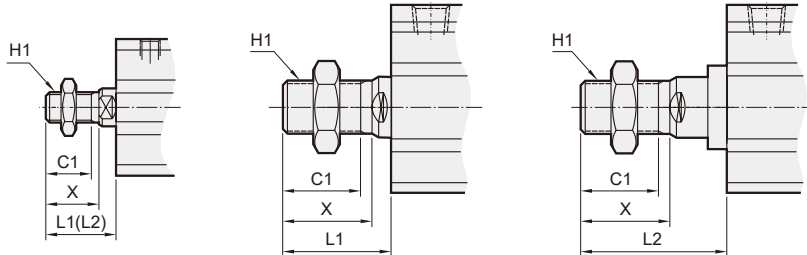
22



$\phi 12\sim 25$

$\phi 32$ for stroke 5~100

$\phi 32$ for stroke over 100



21

Male thread

Code Tube I.D.	C1	H1	L1	L2	X
12	9	M5×0.8	14	24	10.5
16	10	M6×1.0	15.5	25.5	12
20	12	M8×1.25	18.5	28.5	14
25	15	M10×1.25	22.5	32.5	17.5
32	20.5	M14×1.5	28.5	38.5	23.5

* L1: Standard stroke, L2: Long stroke

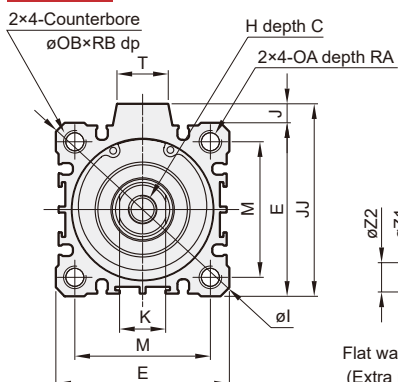
Code Tube I.D.	Standard stroke						Long stroke																							
	Without magnet			Magnet			Stroke range			A	B	L	C	D	E	H	I	J	JJ	K	M	N	OA	OB	P	Q	RA	RB	Z1	Z2
12	5~30	29	22	3.5	34	27	3.5	31~100	59	32	13.5	6	6	25	M3×0.5	32	-	-	5	15.5	3.5	M4×0.7	6.5	M5×0.8	7.5	7	4	4.2	6.3	0.5
16	5~30	29	22	3.5	34	27	3.5	31~100	59	32	13.5	8	8	29	M4×0.7	38	-	-	6	20	3.5	M4×0.7	6.5	M5×0.8	7.5	7	4	4.2	6.3	0.5
20	5~50	35	26	4.5	45	36	4.5	51~200	70	41	14.5	7	10	36	M5×0.8	47	-	-	8	25.5	5.5	M6×1.0	9	M5×0.8	9	10	7	6.2	8.8	1
25	5~50	39	29	5	49	39	5	51~300	74	44	15	12	12	40	M6×1.0	52	-	-	10	28	5.5	M6×1.0	9	M5×0.8	11	10	7	6.2	8.8	1
32	5~50	44.5	30.5	7	54.5	40.5	7	101~300	79.5	45.5	17	13	16	45	M8×1.25	60	4.5	49.5	14	34	5.5	M6×1.0	9	Rc1/8 *1	12.5	10	7	6.2	8.8	1
	51~100	54.5	40.5	7	54.5	40.5	7																							

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

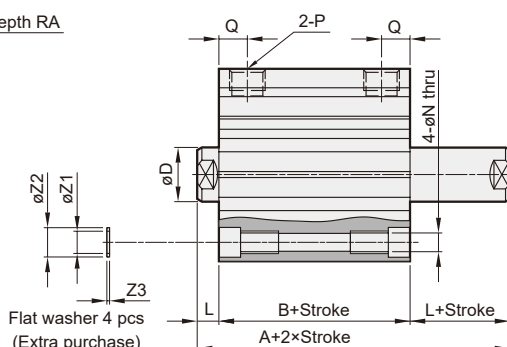
MCJQ Dimensions – Double acting / Double rod $\phi 40\sim\phi 100$

COMPACT CYLINDER

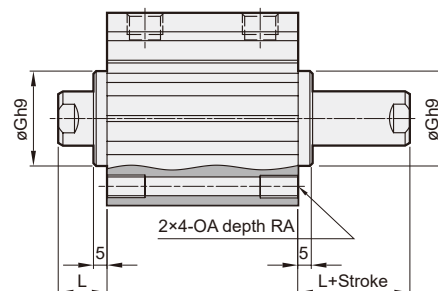
22 $\phi 50\sim\phi 100$



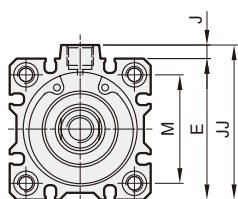
Stroke 5~100



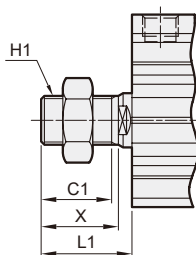
Stroke over 100



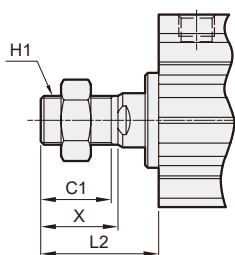
$\phi 40$



$\phi 40\sim\phi 100$ (Stroke 5~100)



$\phi 40\sim\phi 80$ (Stroke over 100)



21 Male thread

Code Tube I.D.	C1	H1	L1	L2	X
40	20.5	M14×1.5	28.5	38.5	23.5
50	26	M18×1.5	33.5	43.5	28.5
63	26	M18×1.5	33.5	43.5	28.5
80	32.5	M22×1.5	43.5	53.5	35.5
100	32.5	M26×1.5	43.5	—	35.5

Code Tube I.D.	Standard stroke						Long stroke					
	Stroke range	Without magnet		Magnet		L	Q	Stroke range	A	B	L	Q
40	5~50	54	40	64	50	7	14	101~300	89	55	17	14
	51~100	64	50									
50	5~50	56.5	40.5	66.5	50.5	8	14	101~300	91.5	55.5	18	14
	51~100	66.5	50.5									
63	5~50	58	42	68	52	8	15.5	101~300	93	57	18	16.5
	51~100	68	52									
80	5~50	71	51	81	61	10	18	101~300	106	66	20	19
	51~100	81	61									
100	5~50	84.5	60.5	94.5	70.5	12	22	—				
	51~100	94.5	70.5									

Code Tube I.D.	C	D	E	G ^{h9}	H	I	J	JJ	K	M	N	OA	OB	P	RA	RB	T	Z1	Z2	Z3
40	13	16	52	28 ⁺⁰ _{-0.052}	M8×1.25	70	5	57	14	40	5.5	M6×1.0	9	Rc1/8	10	7	14	6.2	8.8	1
50	15	20	64	35 ⁺⁰ _{-0.062}	M10×1.5	86	7	71	17	50	6.6	M8×1.25	11	Rc1/4	14	8	19	8.2	10.8	1
63	15	20	77	35 ⁺⁰ _{-0.062}	M10×1.5	103	7	84	17	60	9	M10×1.5	14	Rc1/4 ^{*1}	18	10.5	19	10.2	13.8	1
80	21	25	98	43 ⁺⁰ _{-0.062}	M16×2.0	132	6	104	22	77	11	M12×1.75	17.5	Rc3/8 ^{*2}	22	13.5	26	12.2	17.3	2
100	27	30	117	—	M20×2.5	156	6.5	123.5	27	94	11	M12×1.75	17.5	Rc3/8 ^{*2}	22	13.5	26	12.2	17.3	2

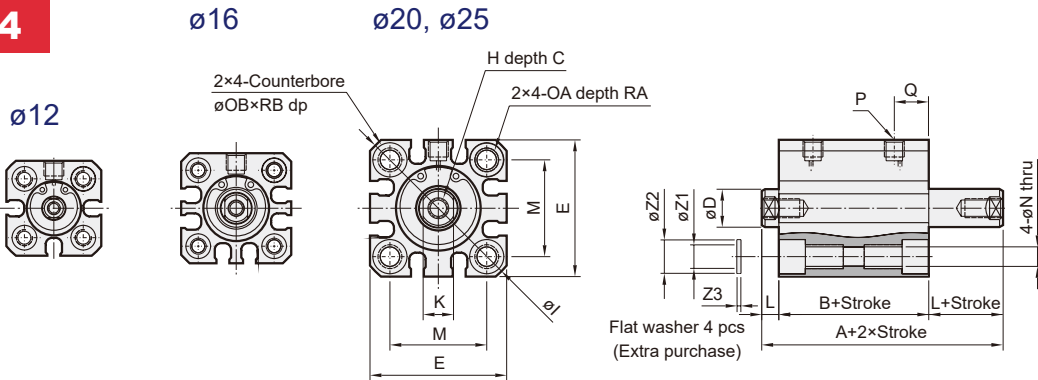
*1. Without magnet with stroke=5mm, P=Rc1/8

*2. Without magnet with stroke=5mm, P=Rc1/4

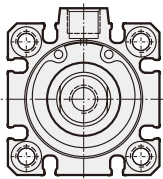
MCJQ Dimensions – Single acting / Double rod $\phi 12\sim\phi 50$

COMPACT CYLINDER

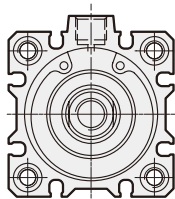
24



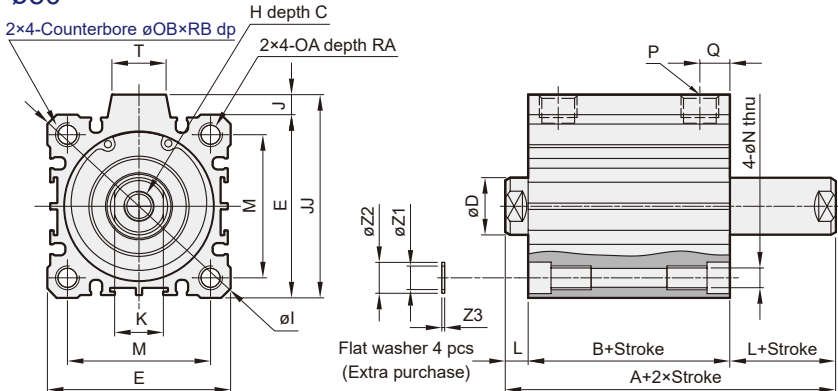
$\phi 32$



$\phi 40$



$\phi 50$



* L1: Standard stroke

23 Male thread

Code Tube I.D.	C1	H1	L1	X
12	9	M5×0.8	14	10.5
16	10	M6×1.0	15.5	12
20	12	M8×1.25	18.5	14
25	15	M10×1.25	22.5	17.5
32	20.5	M14×1.5	28.5	23.5
40	20.5	M14×1.5	28.5	23.5
50	26	M18×1.5	33.5	28.5

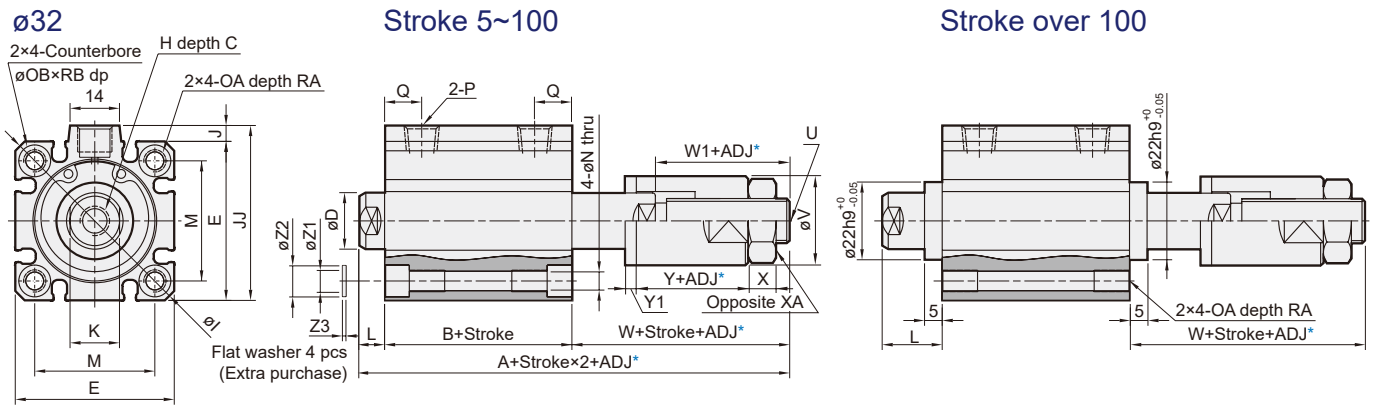
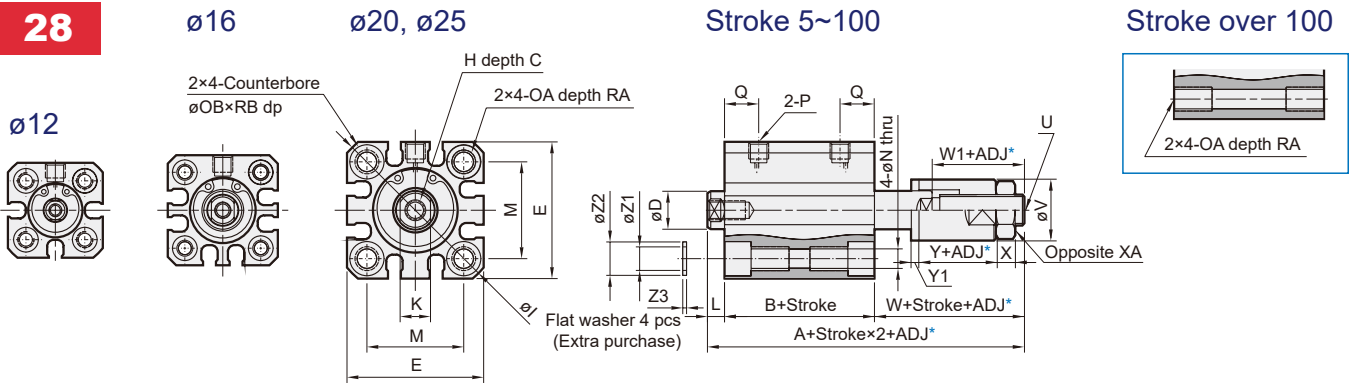
Code Tube I.D.	Stroke range	Standard stroke				C	D	E	H	I	J	JJ	K	L	M	N	OA	OB	P	Q	RA	RB	T	Z1	Z2	Z3
		Without magnet		Magnet																						
		A	B	A	B																					
12	5,10	29	22	34	27	6	6	25	M3×0.5	32	–	–	5	3.5	15.5	3.5	M4×0.7	6.5	M5×0.8	7.5	7	4	–	4.2	6.3	0.5
16	5,10	29	22	34	27	8	8	29	M4×0.7	38	–	–	6	3.5	20	3.5	M4×0.7	6.5	M5×0.8	7.5	7	4	–	4.2	6.3	0.5
20	5,10	35	26	45	36	7	10	36	M5×0.8	47	–	–	8	4.5	25.5	5.5	M6×1.0	9	M5×0.8	9	10	7	–	6.2	8.8	1
25	5,10	39	29	49	39	12	12	40	M6×1.0	52	–	–	10	5	28	5.5	M6×1.0	9	M5×0.8	11	10	7	–	6.2	8.8	1
32	5,10	44.5	30.5	54.5	40.5	13	16	45	M8×1.25	60	4.5	49.5	14	7	34	5.5	M6×1.0	9	Rc1/8 *1	12.5	10	7	14	6.2	8.8	1
40	5,10	54	40	64	50	13	16	52	M8×1.25	70	5	57	14	7	40	5.5	M6×1.0	9	Rc1/8	14	10	7	14	6.2	8.8	1
50	5~20	56.5	40.5	66.5	50.5	15	20	64	M10×1.5	86	7	71	17	8	50	6.5	M8×1.25	11	Rc1/4	14	14	8	19	8.2	10.8	1

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

MCJQ Dimensions – Double rod / Adjustable stroke $\phi 12\sim\phi 32$

COMPACT CYLINDER

28



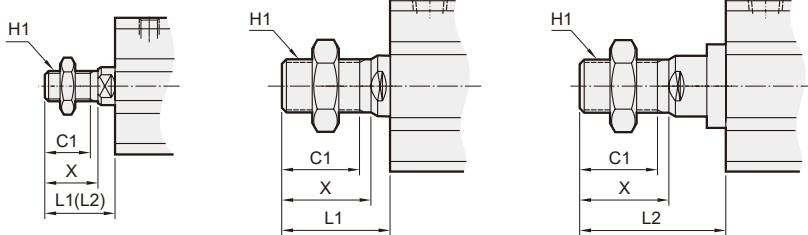
* ADJ: Adjustable stroke

$\phi 12\sim 25$

$\phi 32$ for stroke 5~100

$\phi 32$ for stroke over 100

27 Male thread



* L1: Standard stroke, L2: Long stroke

Code Tube I.D.	C1	H1	L1	L2	X
12	9	M5×0.8	14	24	10.5
16	10	M6×1.0	15.5	25.5	12
20	12	M8×1.25	18.5	28.5	14
25	15	M10×1.25	22.5	32.5	17.5
32	20.5	M14×1.5	28.5	38.5	23.5

Code Tube I.D.	Standard stroke						Long stroke					
	Stroke range	Without magnet		Magnet		L	W	Stroke range	A	B	L	W
		A	B	A	B							
12	5~30	45.5	22	50.5	27	3.5	20	31~100	65.5	32	13.5	20
16	5~30	49	22	54	27	3.5	23.5	31~100	69	32	13.5	23.5
20	5~50	54.3	26	64.3	36	4.5	23.8	51~200	79.3	41	14.5	23.8
25	5~50	56.5	29	66.5	39	5	22.5	51~300	81.5	44	15	22.5
32	5~50	60.9	30.5	70.9	40.5	7	23.4	101~300	91.5	45.5	17	29
	51~100	70.9	40.5									

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

Code Tube I.D.	C	D	E	H	I	J	JJ	K	M	N	OA	OB	P	Q
12	6	6	25	M3×0.5	32	-	-	5	15.5	3.5	M4×0.7	6.5	M5×0.8	7.5
16	8	8	29	M4×0.7	38	-	-	6	20	3.5	M4×0.7	6.5	M5×0.8	7.5
20	7	10	36	M5×0.8	47	-	-	8	25.5	5.5	M6×1.0	9	M5×0.8	9
25	12	12	40	M6×1.0	52	-	-	10	28	5.5	M6×1.0	9	M5×0.8	11
32	13	16	45	M8×1.25	60	4.5	49.5	14	34	5.5	M6×1.0	9	Rc1/8 *1	12.5

Code Tube I.D.	RA	RB	U	V	W1	X	XA	Y	Y1	Z1	Z2	Z3
12	7	4	M5×0.8	12	16	4	8	13	2	4.2	6.3	0.5
16	7	4	M8×1.25	16	19	5	13	15	2	4.2	6.3	0.5
20	10	7	M8×1.25	16	19	5	13	15	2	6.2	8.8	1
25	10	7	M10×1.25	20	18	6	17	12	2	6.2	8.8	1
32	10	7	M12×1.25	30	19	7	19	12	2	6.2	8.8	1

MCJQ Dimensions – Double rod / Adjustable stroke $\phi 40\sim\phi 100$

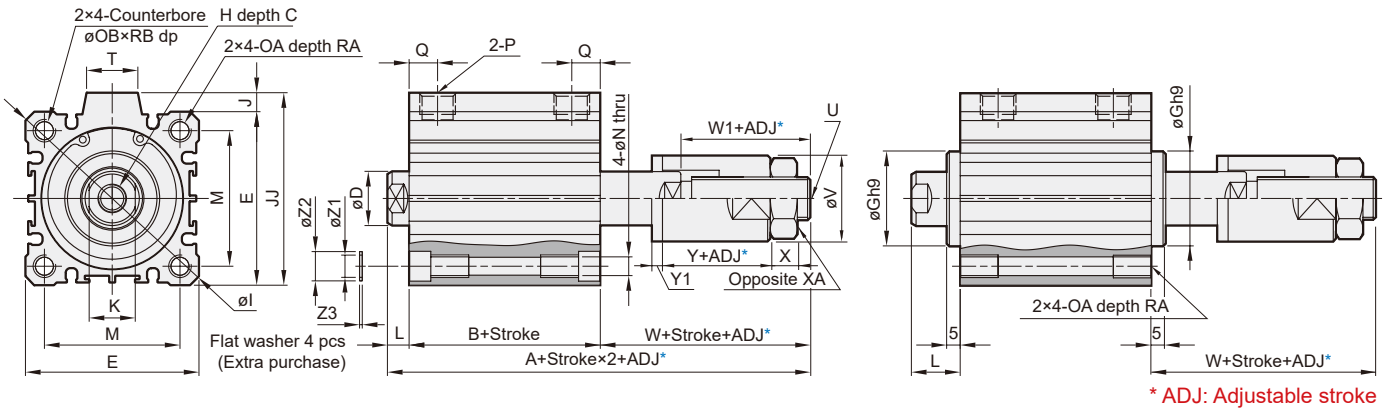
COMPACT CYLINDER

28

$\phi 50\sim\phi 100$

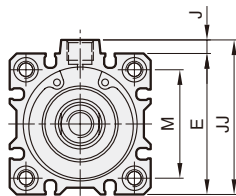
Stroke 5~100

Stroke over 100

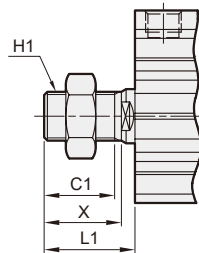


* ADJ: Adjustable stroke

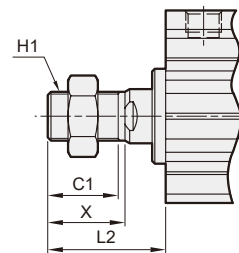
$\phi 40$



$\phi 40\sim\phi 100$
(Stroke 5~100)



$\phi 40\sim\phi 80$
(Stroke over 100)



27

Male thread

Tube I.D.	Stroke range	Without magnet	Magnet	L	Q	W	Stroke range	A	B	L	Q	W		
40	5~50	71	40	81	50	7	14	24	101~300	102.5	55	17	14	30.5
50	5~50	75	40.5	85	50.5	8	14	26.5	101~300	105.5	55.5	18	14	32
63	5~50	80	42	90	52	8	15.5	30	101~300	110	57	18	16.5	35
80	5~50	100	51	110	61	10	18	39	101~300	130	66	20	19	44
100	5~50	111	60.5	121	70.5	12	22	38.5						
	51~100	81	50											
	51~100	85	50.5											
	51~100	90	52											
	51~100	110	61											
	51~100	121	70.5											

Code Tube I.D.	Standard stroke									Long stroke				
	Stroke range	Without magnet		Magnet		L	Q	W	Stroke range	A	B	L	Q	W
		A	B	A	B									
40	5~50	71	40	81	50	7	14	24	101~300	102.5	55	17	14	30.5
	51~100	81	50											
50	5~50	75	40.5	85	50.5	8	14	26.5	101~300	105.5	55.5	18	14	32
	51~100	85	50.5											
63	5~50	80	42	90	52	8	15.5	30	101~300	110	57	18	16.5	35
	51~100	90	52											
80	5~50	100	51	110	61	10	18	39	101~300	130	66	20	19	44
	51~100	110	61											
100	5~50	111	60.5	121	70.5	12	22	38.5						
	51~100	121	70.5											

Code Tube I.D.	C	D	E	G ^{H9}	H	I	J	JJ	K	M	N	OA	OB	P	RA	RB	T	U	V	W1	X	XA	Y	Y1	Z1	Z2	Z3
40	13	16	52	28 ⁺⁰ _{-0.052}	M8 $\times 1.25$	70	5	57	14	40	5.5	M6 $\times 1.0$	9	Rc1/8	10	7	14	M12 $\times 1.25$	30	21	7	19	12	2	6.2	8.8	1
50	15	20	64	35 ⁺⁰ _{-0.062}	M10 $\times 1.5$	86	7	71	17	50	6.6	M8 $\times 1.25$	11	Rc1/4	14	8	19	M16 $\times 1.5$	40	22.5	8	24	15	2	8.2	10.8	1
63	15	20	77	35 ⁺⁰ _{-0.062}	M10 $\times 1.5$	103	7	84	17	60	9	M10 $\times 1.5$	14	Rc1/4 ^{*1}	18	10.5	19	M16 $\times 1.5$	40	25.5	8	24	15	2	10.2	13.8	1
80	21	25	98	43 ⁺⁰ _{-0.062}	M16 $\times 2.0$	132	6	104	22	77	11	M12 $\times 1.75$	17.5	Rc3/8 ^{*2}	22	13.5	26	M22 $\times 1.5$	50	33	13	32	20	3	12.2	17.3	2
100	27	30	117	—	M20 $\times 2.5$	156	6.5	123.5	27	94	11	M12 $\times 1.75$	17.5	Rc3/8 ^{*2}	22	13.5	26	M22 $\times 1.5$	50	33	13	32	20	3	12.2	17.3	2

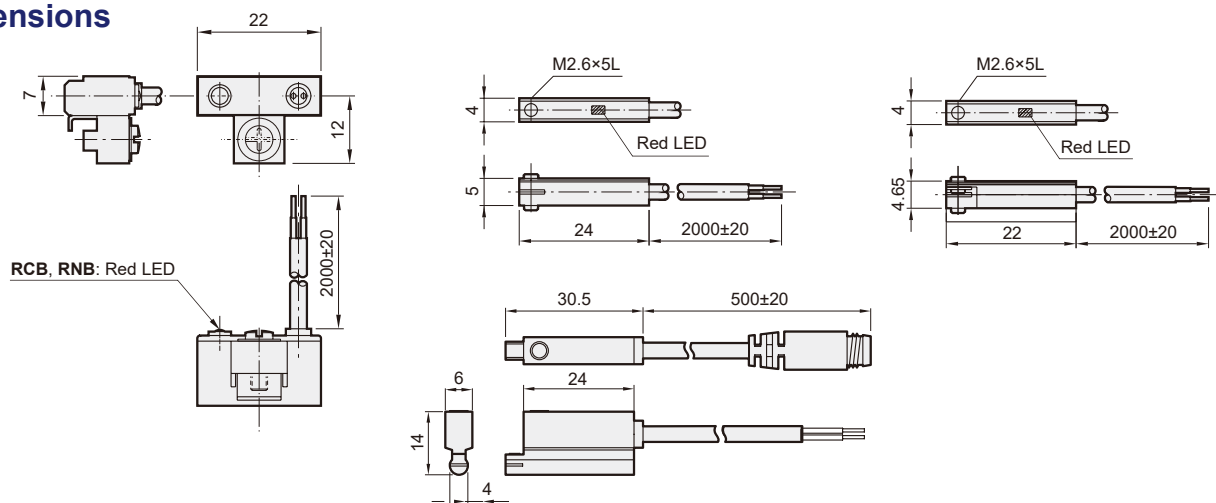
*1. Without magnet with stroke=5mm, P=Rc1/8

*2. Without magnet with stroke=5mm, P=Rc1/4

MCJQ Installation of sensor switch $\phi 12\sim\phi 100$

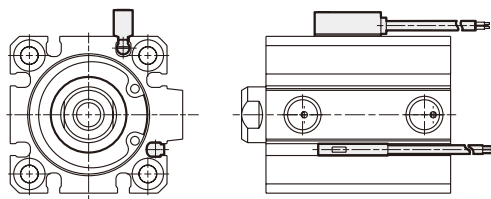
COMPACT CYLINDER

Dimensions

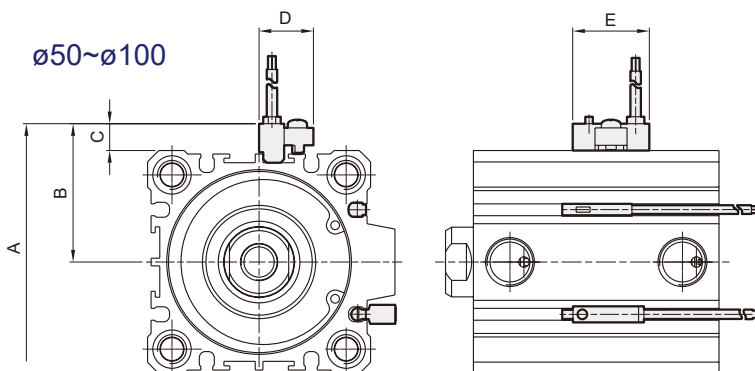


Installation of sensor switch

$\phi 12\sim\phi 40$



$\phi 50\sim\phi 100$

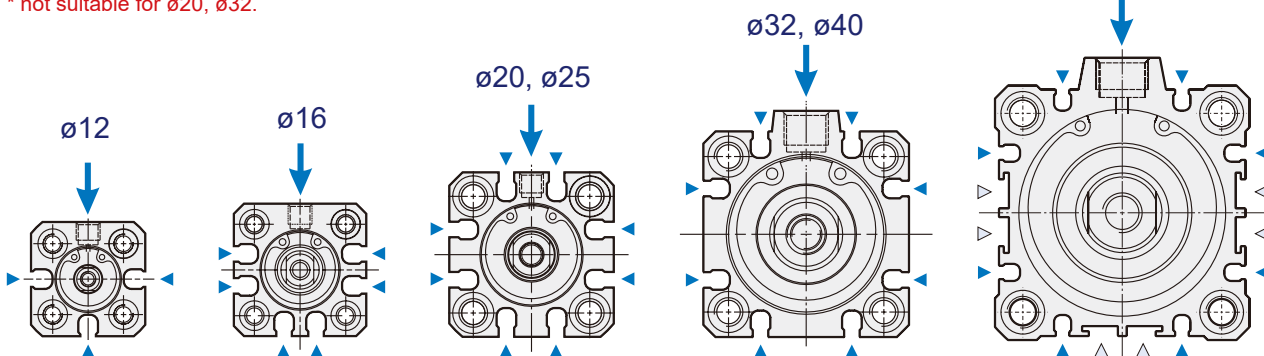


Code Tube I.D.	A	B	C	D	E
50	72	40	8	16	22
63	85	46.5	8	16	22
80	106	57	8	16	22
100	125	66.5	8	16	22

Description

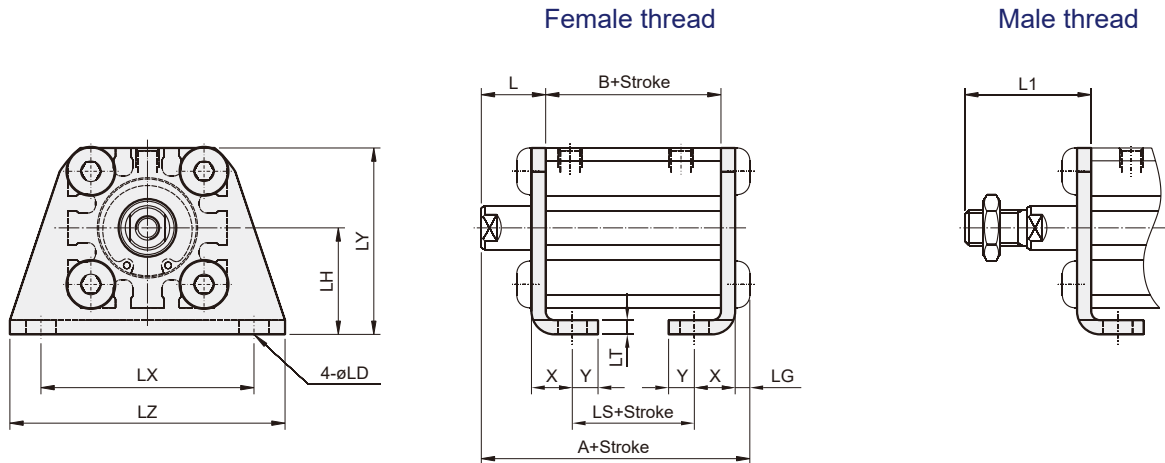
▽ RCB switch ▼ RCE, RCE1, RDEP* switch ↓ Port

* not suitable for $\phi 20$, $\phi 32$.

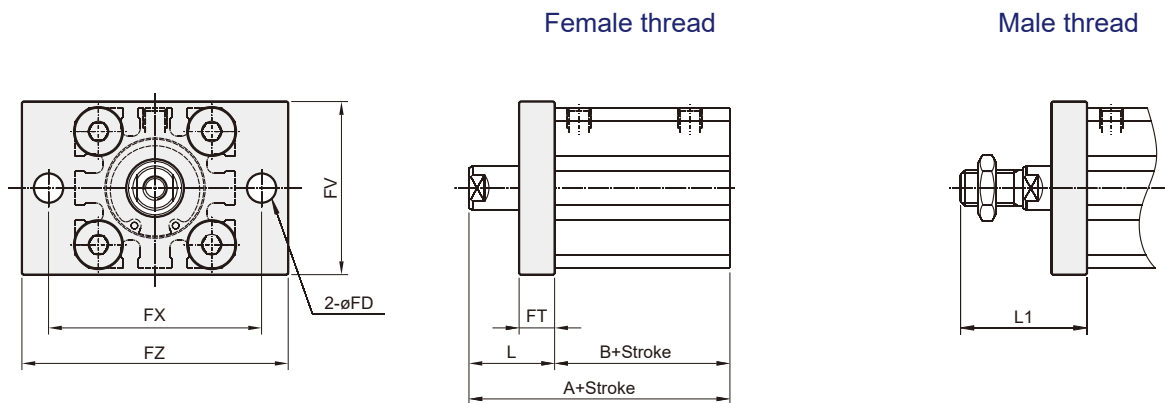


MCJQ Mounting accessories – Double acting / Single rod $\varnothing 12\sim\varnothing 25$

COMPACT CYLINDER



Code	Standard stroke							Long stroke														
	Stroke range	Without magnet			Magnet			Stroke range	A	B	LS	L	L1	LD	LG	LH	LT	LX	LY	LZ	X	Y
12	5~30	35.3	17	5	40.3	22	10	35~100	50.3	32	20	13.5	24	4.5	2.8	17	2	34	29.5	44	8	4.5
16	5~30	35.3	17	5	40.3	22	10	35~100	50.3	32	20	13.5	25.5	4.5	2.8	19	2	38	33.5	48	8	5
20	5~50	41.2	19.5	7.5	51.2	29.5	17.5	75~200	62.7	41	29	14.5	28.5	6.6	4	24	3.2	48	42	62	9.2	5.8
25	5~50	44.7	22.5	7.5	54.7	32.5	17.5	75~300	66.2	44	29	15	32.5	6.6	4	26	3.2	52	46	66	10.7	5.8

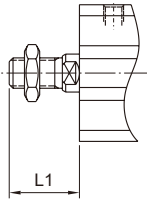


Code	Standard stroke					Long stroke										
	Stroke range	Without magnet		Magnet		Stroke range	A	B	FD	FT	FV	FX	FZ	L	L1	
12	5~30	30.5	17	35.5	22	35~100	45.5	32	4.5	5.5	25	45	55	13.5	24	
16	5~30	30.5	17	35.5	22	35~100	45.5	32	4.5	5.5	30	45	55	13.5	25.5	
20	5~50	34	19.5	44	29.5	75~200	55.5	41	6.6	8	39	48	60	14.5	28.5	
25	5~50	37.5	22.5	47.5	32.5	75~300	59	44	6.6	8	42	52	64	15	32.5	

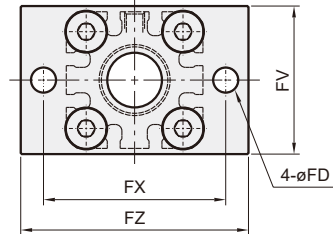
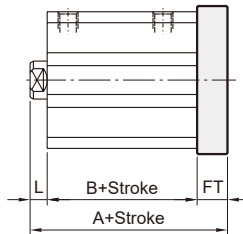
MCJQ Mounting accessories – Double acting / Single rod $\varnothing 12\sim\varnothing 25$

COMPACT CYLINDER

Male thread

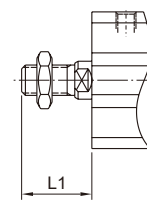


Female thread

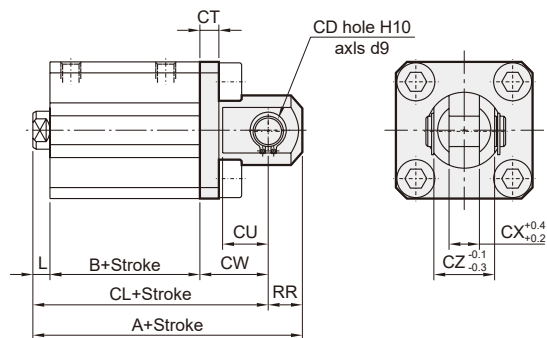


Code	Standard stroke										Long stroke				FD	FT	FV	FX	FZ
	Stroke range	Without magnet				Magnet				Stroke range	A	B	L	L1					
		A	B	L	L1	A	B	L	L1										
12	5~30	26	17	3.5	14	31	22	3.5	14	35~100	51	32	13.5	24	4.5	5.5	25	45	55
16	5~30	26	17	3.5	15.5	31	22	3.5	15.5	35~100	51	32	13.5	25.5	4.5	5.5	30	45	55
20	5~50	32	19.5	4.5	18.5	42	29.5	4.5	18.5	75~200	63.5	41	14.5	28.5	6.6	8	39	48	60
25	5~50	35.5	22.5	5	22.5	45.5	32.5	5	22.5	75~300	67	44	15	32.5	6.6	8	42	52	64

Male thread



Female thread

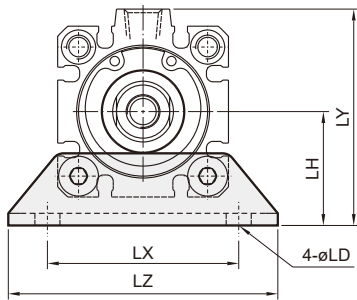


Code	Standard stroke										Long stroke						CD	CT	CU	CW	CX	CZ	RR	
	Stroke range	Without magnet				Magnet				Stroke range	A	B	CL	L	L1									
		A	B	CL	L	L1	A	B	CL							L								L1
12	5~30	40.5	17	34.5	3.5	14	45.5	22	39.5	3.5	14	35~100	65.5	32	59.5	13.5	24	5	4	7	14	5	10	6
16	5~30	41.5	17	35.5	3.5	15.5	46.5	22	40.5	3.5	15.5	35~100	66.5	32	60.5	13.5	25.5	5	4	10	15	6.5	12	6
20	5~50	51	19.5	42	4.5	18.5	61	29.5	52	4.5	18.5	75~200	82.5	41	73.5	14.5	28.5	8	5	12	18	8	16	9
25	5~50	57.5	22.5	47.5	5	22.5	67.5	32.5	57.5	5	22.5	75~300	89	44	79	15	32.5	10	5	14	20	10	20	10

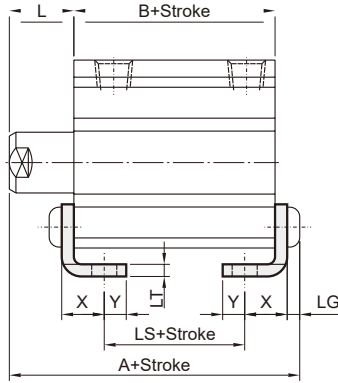
MCJQ Mounting accessories – Double acting / Single rod $\varnothing 32\sim\varnothing 100$

COMPACT CYLINDER

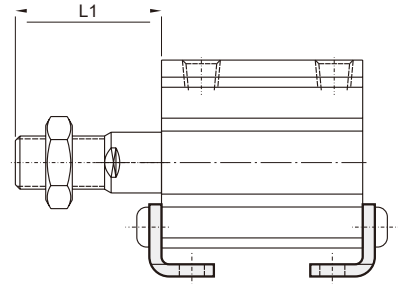
Standard stroke



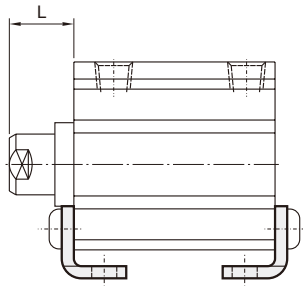
Female thread



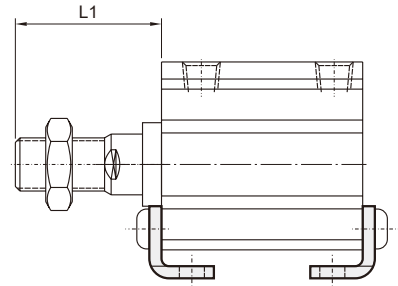
Male thread



Long stroke



Male thread



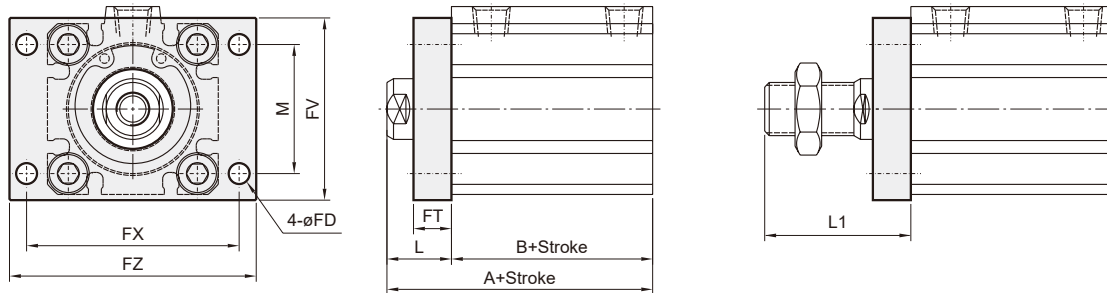
Code	Standard stroke							Long stroke				L	L1	LD	LG	LH	LT	LX	LY	LZ	X	Y
	Stroke range	Without magnet			Magnet			Stroke range	A	B	LS											
A		B	LS	A	B	LS																
32	5~50	47.2	23	7	57.2	33	17	125~300	69.7	45.5	29.5	17	38.5	6.6	4	30	3.2	57	57	71	11.2	5.8
	75,100	57.2	33	17																		
40	5~50	53.7	29.5	13.5	63.7	39.5	23.5	125~300	79.2	55	39	17	38.5	6.6	4	33	3.2	64	64	78	11.2	7
	75,100	63.7	39.5	23.5																		
50	5~50	56.7	30.5	7.5	66.7	40.5	17.5	125~300	81.7	55.5	32.5	18	43.5	9	5	39	3.2	79	78	95	14.7	8
	75,100	66.7	40.5	17.5																		
63	5~50	62.2	36	10	72.2	46	20	125~300	83.2	57	31	18	43.5	11	5	46	3.2	95	91.5	113	16.2	9
	75,100	72.2	46	20																		
80	5~50	75	43.5	13.5	85	53.5	23.5	125~300	97.5	66	36	20	53.5	13	7	59	4.5	118	114	140	19.5	11
	75,100	85	53.5	23.5																		
100	5~50	88	53	19	98	63	29	125~300	—	—	—	22	53.5	13	7	71	6	137	136	162	23	12.5
	75,100	98	63	29																		

MCJQ Mounting accessories – Double acting / Single rod $\varnothing 32\sim\varnothing 100$

COMPACT CYLINDER

Female thread

Male thread



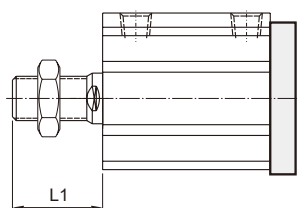
Code	Standard stroke					Long stroke			FD	FT	FV	FX	FZ	L	L1	M	
	Tube I.D.	Stroke range	Without magnet		Magnet		Stroke range	A									B
			A	B	A	B											
32	5~50	40	23	50	33	125~300	62.5	45.5	5.5	8	48	56	65	17	38.5	34	
	75,100	50	33														
40	5~50	46.5	29.5	56.5	39.5	125~300	72	55	5.5	8	54	62	72	17	38.5	40	
	75,100	56.5	39.5														
50	5~50	48.5	30.5	58.5	40.5	125~300	73.5	55.5	6.6	9	67	76	89	18	43.5	50	
	75,100	58.5	40.5														
63	5~50	54	36	64	46	125~300	75	57	9	9	80	92	108	18	43.5	60	
	75,100	64	46														
80	5~50	63.5	43.5	73.5	53.5	125~300	86	66	11	11	99	116	134	20	53.5	77	
	75,100	73.5	53.5														
100	5~50	75	53	85	63	125~300	—	—	11	11	117	136	154	22	53.5	94	
	75,100	85	63														

MCJQ Mounting accessories – Double acting / Single rod $\varnothing 32\sim\varnothing 100$

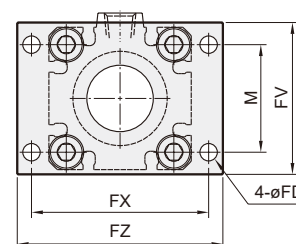
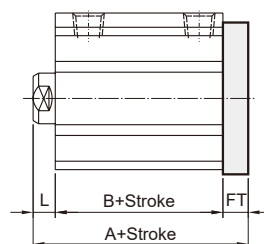
COMPACT CYLINDER

Standard stroke

Male thread

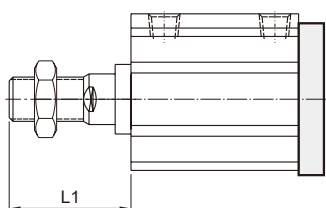


Female thread

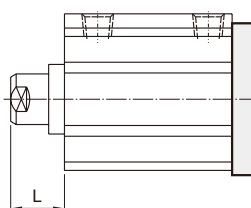


Long stroke

Male thread



Female thread



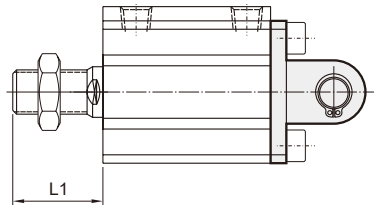
Code	Standard stroke						Long stroke						FD	FT	FV	FX	FZ	M
	Stroke range	Without magnet		Magnet		L	L1	Stroke range	A	B	L	L1						
A		B	A	B														
32	5~50	38	23	48	33	7	28.5	125~300	70.5	45.5	17	38.5	5.5	8	48	56	65	34
	75,100	48	33															
40	5~50	44.5	29.5	54.5	39.5	7	28.5	125~300	80	55	17	38.5	5.5	8	54	62	72	40
	75,100	54.5	39.5															
50	5~50	47.5	30.5	57.5	40.5	8	33.5	125~300	82.5	55.5	18	43.5	6.6	9	67	76	89	50
	75,100	57.5	40.5															
63	5~50	53	36	63	46	8	33.5	125~300	84	57	18	43.5	9	9	80	92	108	60
	75,100	63	46															
80	5~50	64.5	43.5	74.5	53.5	10	43.5	125~300	97	66	20	53.5	11	11	99	116	134	77
	75,100	74.5	53.5															
100	5~50	76	53	86	63	12	43.5	125~300	-	-	-	-	11	11	117	136	154	94
	75,100	86	63															

MCJQ Mounting accessories – Double acting / Single rod $\varnothing 32\sim\varnothing 100$

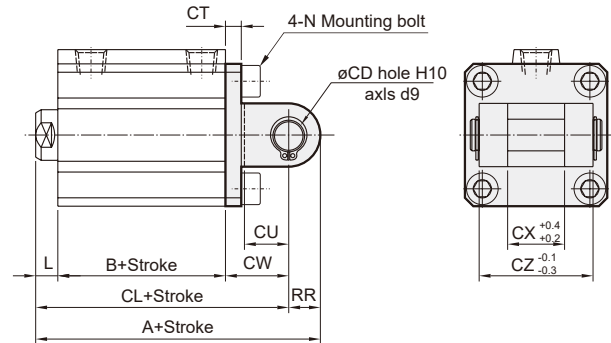
COMPACT CYLINDER

Standard stroke

Male thread

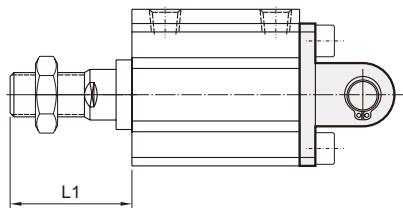


Female thread

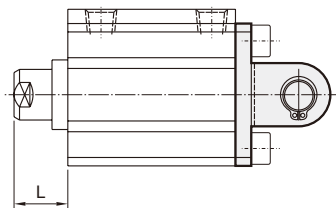


Long stroke

Male thread



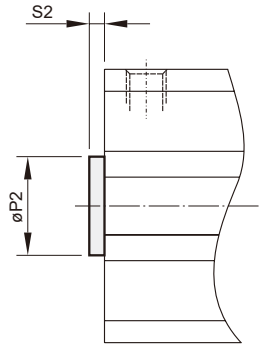
Female thread



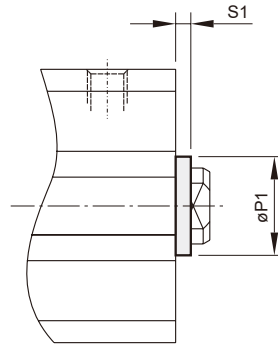
Code	Standard stroke										Long stroke												
	Stroke range	Without magnet			Magnet			L	L1	Stroke range	A	B	CL	L	L1	CD	CT	CU	CW	CX	CZ	N	RR
		A	B	CL	A	B	CL																
32	5~50	60	23	50	70	33	60	7	28.5	125~300	92.5	45.5	82.5	17	38.5	10	5	14	20	18	36	M6×1.0	10
	75,100	70	33	60																			
40	5~50	68.5	29.5	58.5	78.5	39.5	68.5	7	28.5	125~300	104	55	94	17	38.5	10	6	14	22	18	36	M6×1.0	10
	75,100	78.5	39.5	68.5																			
50	5~50	80.5	30.5	66.5	90.5	40.5	76.5	8	33.5	125~300	115.5	55.5	101.5	18	43.5	14	7	20	28	22	44	M8×1.25	14
	75,100	90.5	40.5	76.5																			
63	5~50	88	36	74	98	46	84	8	33.5	125~300	119	57	105	18	43.5	14	8	20	30	22	44	M10×1.5	14
	75,100	98	46	84																			
80	5~50	109.5	43.5	91.5	119.5	53.5	101.5	10	43.5	125~300	142	66	124	20	53.5	18	10	27	38	28	56	M12×1.75	18
	75,100	119.5	53.5	101.5																			
100	5~50	132	53	110	142	63	120	12	43.5	125~300	-	-	-	-	22	13	31	45	32	64	M12×1.75	22	
	75,100	142	63	120																			

COMPACT CYLINDER

Rear flange

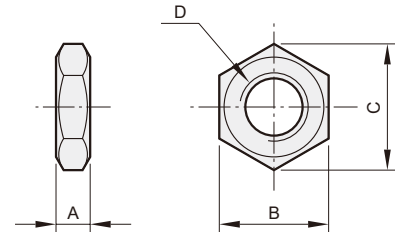


Code	P2 ^{h9}	S2
12	6	1.5
16	10	1.5
20	13	2
25	15	2
32	21	2
40	28	2
50	35	2
63	35	2
80	43	2
100	59	2



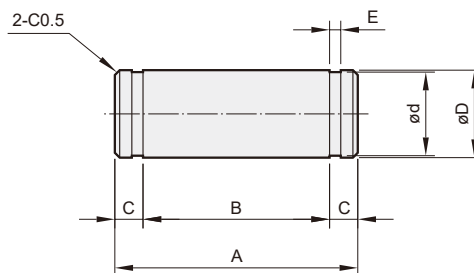
Code	P1 ^{h9}	S1
12	15	1.5
16	20	1.5
20	13	2
25	15	2
32	21	2
40	28	2
50	35	2
63	35	2
80	43	2
100	59	2

Rod front nut



Code	A	B	C	D
12	4	8	9.2	M5×0.8
16	5	10	11.5	M6×1.0
20	5	13	15	M8×1.25
25	6	17	19.6	M10×1.25
32,40	8	22	25.4	M14×1.5
50,63	11	27	31.4	M18×1.5
80	13	32	37	M22×1.5
100	16	41	47.3	M26×1.5

Pin for CB



Code	A	B	C	$\varnothing D^{g9}$	$\varnothing d$	E	Snap ring
12	14.6	10.2	2.2	5 ^{-0.03} _{-0.06}	4.8 ⁰ _{-0.04}	0.7 ^{+0.10} ₀	STW-5
16	16.6	12.2	2.2	5 ^{-0.03} _{-0.06}	4.8 ⁰ _{-0.04}	0.7 ^{+0.10} ₀	STW-5
20	21	16.2	2.4	8 ^{-0.04} _{-0.08}	7.6 ⁰ _{-0.06}	0.9 ^{+0.10} ₀	STW-8
25	25.6	20.2	2.7	10 ^{-0.04} _{-0.08}	9.6 ⁰ _{-0.06}	1.15 ^{+0.14} ₀	STW-10
32,40	41.6	36.2	2.7	10 ^{-0.04} _{-0.08}	9.6 ⁰ _{-0.09}	1.15 ^{+0.14} ₀	STW-10
50,63	50.6	44.2	3.2	14 ^{-0.05} _{-0.10}	13.4 ⁰ _{-0.11}	1.15 ^{+0.14} ₀	STW-14
80	64	56.2	3.9	18 ^{-0.05} _{-0.10}	17.0 ⁰ _{-0.11}	1.35 ^{+0.14} ₀	STW-18
100	72	64.2	3.9	22 ^{-0.07} _{-0.12}	21.0 ⁰ _{-0.21}	1.35 ^{+0.14} ₀	STW-22

COMPACT CYLINDER

Cylinder weight

Standard stroke

Unit: g

Model		Basic weight	Basic weight (magnet)	Stroke 5 mm	Basic weight	Basic weight (magnet)	Stroke 5 mm
Tube I.D.	Stroke range (mm)						
$\phi 12$	5~30	22	31	7	19	28	7
$\phi 16$	5~30	33	42	8	28	37	8
$\phi 20$	5~50	55	82	13	48	75	13
$\phi 25$	5~50	92	140	16	75	123	16
$\phi 32$	5~50	129	215	22	109	166	22
	51~100	206	215	22	157	166	22
$\phi 40$	5~50	226	315	24	184	266	24
	51~100	298	315	24	249	266	24
$\phi 50$	5~50	367	500	35	317	409	35
	51~100	476	500	35	386	409	35
$\phi 63$	5~50	530	714	41	446	622	41
	51~100	685	714	41	594	622	41
$\phi 80$	5~50	1032	1278	65	904	1109	65
	51~100	1240	1278	65	1072	1109	65
$\phi 100$	5~50	1864	2278	90	1679	2030	90
	51~100	2230	2278	90	1982	2030	90

Long stroke

Unit: g

Model		Basic weight	Basic weight (magnet)	Stroke 5 mm	Basic weight	Basic weight (magnet)	Stroke 5 mm
Tube I.D.	Stroke range (mm)						
$\phi 12$	31~100	46	47	7	43	44	7
$\phi 16$	31~100	68	70	8	63	65	8
$\phi 20$	51~200	116	120	13	106	110	13
$\phi 25$	51~300	172	180	16	153	161	16
$\phi 32$	101~300	287	295	22	238	247	22
$\phi 40$	101~300	409	426	24	360	377	24
$\phi 50$	101~300	658	682	35	566	589	35
$\phi 63$	101~300	852	881	41	760	789	41
$\phi 80$	101~300	1531	1568	65	1398	1436	65

Accessories weight

Unit: g

Model	LB	CB	FAC/FBC	F	RF	Pin	Nut
Tube I.D.							
$\phi 12$	51	31	56	1	1	2	1
$\phi 16$	60	37	67	2	1	3	2
$\phi 20$	145	61	135	3	1	8	4
$\phi 25$	166	94	153	4	2	16	6
$\phi 32$	107	136	165	9	3	25	18
$\phi 40$	125	171	203	17	9	25	18
$\phi 50$	209	331	357	28	16	61	32
$\phi 63$	296	538	547	52	30	61	32
$\phi 80$	586	1034	1046	107	52	127	56
$\phi 100$	960	1765	1328	175	82	214	56