

#### Features

1. Hard anodized aluminum barrel provides corrosion and wear resistance as well as long life.
2. Compact size and space saving.
3. Strict quality control ensures the product in stability and excellent performance.
4. Simple maintenance and installation.
5. Different bore sizes and strokes for selection.
6. Various sensor switches are available.



#### How to order

JC	32	B50-H	M	-	SR	1	-	CA
Type	Bore size	Stroke	Rod thread	Magnet	Sensor type	Number of sensor	Mounting parts	
JC :Standard double acting	12 : φ12		Blank :Female thread	Blank:W/O magnet	Blank :W/O sensor	1 pc	CA :Male clevis	
JCO:Single acting/Spring extended	16 : φ16		H :Male thread	M :W/I magnet	SS :Square type	2 pcs	CB :Female clevis	
JCI :Single acting/Spring return	20 : φ20				AL-11R/N/P			
JCA:Stroke adjustable 25mm	25 : φ25				SR:Round type			
JCB:Stroke adjustable 50mm	32 : φ32				AL-07R/N/P			
JCD:Double rod/Double acting	40 : φ40				SU:Square type			
	50 : φ50				AL-16R/N/P			
	63 : φ63							
	80 : φ80							
	100 : φ100							

1. The body will increase 10mm for single acting cylinder.
2. The body length of JC-M cylinder (Magnetic type) is 10mm longer than JC cylinder (Non-Magnetic type).
3. Stainless mounting bolts is suggested for the installation of JC-M cylinder (Magnetic type).

\*Please refer to P3-181 ~ P3-183

#### How to order mounting parts

JC series	Mounting parts	Bore size
ZJ	CA :Male clevis	12 : φ12    25 : φ25    63 : φ63
	CB :Female clevis	16 : φ16    32 : φ32    80 : φ80
		20 : φ20    50 : φ50    100 : φ100

\*Please refer to P3-72

#### Specifications

Bore size	φ12	φ16	φ20	φ25	φ32	φ40	φ50	φ63	φ80	φ100
Port size	M5xP0.8			1/8"			1/4"		3/8"	
Fluid	Compressed air									
Acting	Double acting or single acting									
Operating pressure range	1.0 ~ 9 kgf/cm <sup>2</sup>									
Max operating pressure	9.5 kgf/cm <sup>2</sup>									
Barrel material	Aluminum alloy									
Magnet	Option									
Ambient temperature	-5°C ~ 60°C									
Piston speed	50~700mm/Sec									
Double acting mm/Sec.	50~500				50~300			50~250		
Single acting mm/Sec.	100~500				-					

#### Dimensions

##### JC Standard double acting

##### JC:Standard double acting

##### Piston rod with male thread

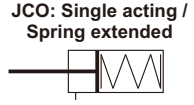
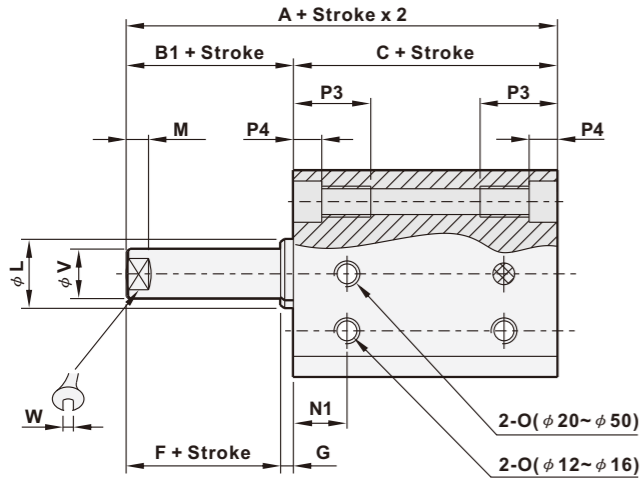
Bore size	W/O magnet			W/I magnet			D	F	G	K1	L	M	N1	O
	A	B1	C	A	B1	C								
φ12	22	5	17	32	5	27	-	4	1	M3xP0.5xL6	φ9	3	6.5	M5xP0.8
φ16	24	5.5	18.5	34	5.5	28.5	-	4	1.5	M3xP0.5xL6	φ11	3	5.9	M5xP0.8
φ20	25	5.5	19.5	35	5.5	29.5	-	4	1.5	M4xP0.7xL8	φ13	3	6.2	M5xP0.8
φ25	27	6	21	37	6	31	-	4	2	M5xP0.8xL10	φ17	3	7	M5xP0.8
φ32	31.5	7	24.5	41.5	7	34.5	48.5	4	3	M6xP1.0xL12	φ22	3	9	G 1/8
φ40	33	7	26	43	7	36	56.5	4	3	M8xP1.25xL12	φ28	3	10	G 1/8
φ50	37	9	28	47	9	38	70	5	4	M10xP1.5xL15	φ38	3	10	G 1/4
φ63	41	9	32	51	9	42	83	5	4	M10xP1.5xL15	φ40	3	12	G 1/4
φ80	52	11	41	62	11	51	104	6	5	M14xP1.5xL20	φ45	4	12.5	G 3/8
φ100	63	12	51	73	12	61	124	7	5	M18xP1.5xL20	φ55	4	17	G 3/8

(Unit: mm)

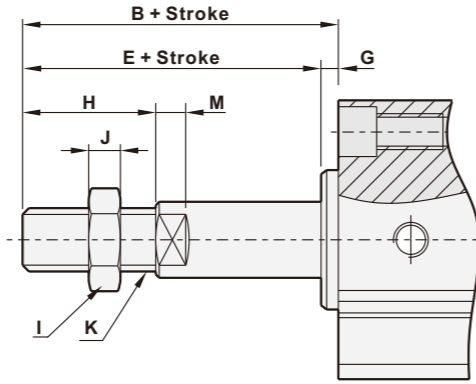
### ■ Dimensions

#### JCO Single acting/Spring extended

JCO: Single acting /  
Spring extended

#### Piston rod with male thread



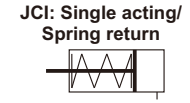
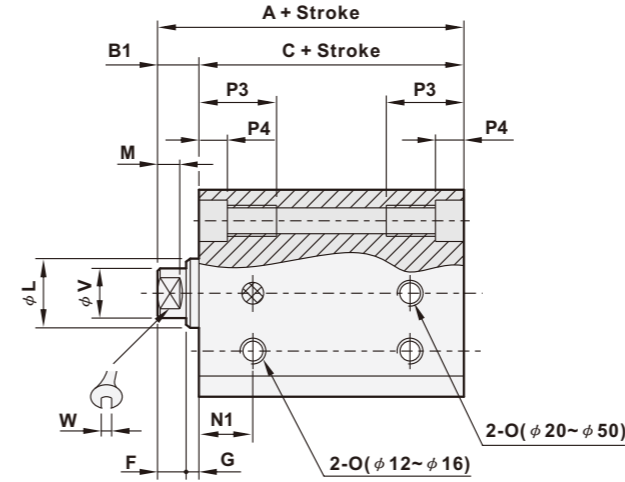
(Unit: mm)

Bore size	B	E	H	I	J	K
φ 12	17	16	12	8	4	M5xP0.8
φ 16	17.5	16	12	8	4	M5xP0.8
φ 20	20.5	19	15	10	5	M6xP1.0
φ 25	23	21	17	13	6	M8xP1.25
φ 32	25	22	18	17	6	M10xP1.25
φ 40	35	32	28	22	8	M14xP1.5
φ 50	37	33	28	27	6	M18xP1.5

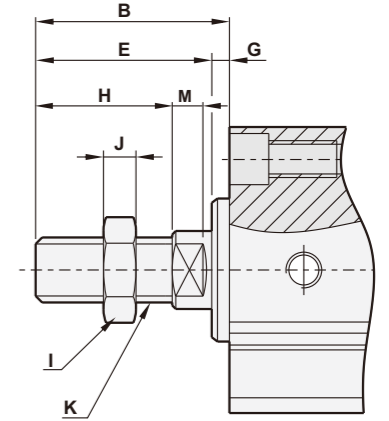
### ■ Dimensions

#### JCI Single acting/Spring return

JCI: Single acting /  
Spring return

#### Piston rod with male thread



(Unit: mm)

Bore size	B	E	H	I	J	K
φ 12	17	16	12	8	4	M5xP0.8
φ 16	17.5	16	12	8	4	M5xP0.8
φ 20	20.5	19	15	10	5	M6xP1.0
φ 25	23	21	17	13	6	M8xP1.25
φ 32	25	22	18	17	6	M10xP1.25
φ 40	35	32	28	22	8	M14xP1.5
φ 50	37	33	28	27	6	M18xP1.5

(Unit: mm)

Bore size	W/O magnet			W/I magnet			D	F	G	K1	L	M	N1	O
	A	B1	C	A	B1	C								
φ 12	32	5	27	42	5	37	-	4	1	M3xP0.5xL6	φ 11	3	6.5	M5xP0.8
φ 16	34	5.5	28.5	44	5.5	38.5	-	4	1.5	M3xP0.5xL6	φ 11	3	5.9	M5xP0.8
φ 20	35	5.5	29.5	45	5.5	39.5	-	4	1.5	M4xP0.7xL8	φ 13	3	6.2	M5xP0.8
φ 25	37	6	31	47	6	41	-	4	2	M5xP0.8xL10	φ 17	3	7	M5xP0.8
φ 32	41.5	7	34.5	51.5	7	44.5	48.5	4	3	M6xP1.0xL12	φ 22	3	9	G 1/8
φ 40	43	7	36	53	7	46	56.5	4	3	M8xP1.25xL12	φ 28	3	10	G 1/8
φ 50	47	9	38	57	9	48	70	5	4	M10xP1.5xL15	φ 38	3	10	G 1/4

Bore size	P1							P3	P4	R	S	T1	T2	U	V	W	X	Y
φ 12	Two sides	φ 7.4	Thread	M5xP0.8	Cross hole	φ 4.3	14.5	4.5	-	25	16.3	23	R16	φ 6	5	-	-	-
φ 16	Two sides	φ 7.4	Thread	M5xP0.8	Cross hole	φ 4.3	14.5	4.5	-	29	19.8	28	R19	φ 6	5	-	-	-
φ 20	Two sides	φ 7.4	Thread	M5xP0.8	Cross hole	φ 4.3	14.5	4.5	-	34	24	-	R22	φ 8	6	-	-	-
φ 25	Two sides	φ 9.0	Thread	M6xP1.0	Cross hole	φ 4.6	15.5	5.5	-	40	28	-	R25	φ 10	8	-	-	-
φ 32	Two sides	φ 9.0	Thread	M6xP1.0	Cross hole	φ 4.6	16.5	5.5	4.5	44	34	-	R29.5	φ 12	10	18.8	16	-
φ 40	Two sides	φ 10.5	Thread	M8xP1.25	Cross hole	φ 6.9	20.5	7.5	4.5	52	40	-	R35	φ 16	14	19	16	-
φ 50	Two sides	φ 11.0	Thread	M8xP1.25	Cross hole	φ 6.9	25.5	8.5	8	62	48	-	R41	φ 20	17	26	19	-

(Unit: mm)

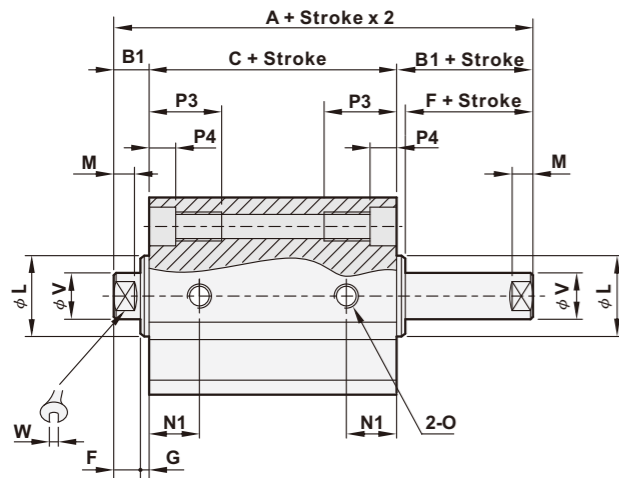
Bore size	W/O magnet			W/I magnet			D	F	G	K1	L	M	N1	O
	A	B1	C	A	B1	C								
φ 12	32	5	27	42	5	37	-	4	1	M3xP0.5xL6	φ 11	3	6.5	M5xP0.8
φ 16	34	5.5	28.5	44	5.5	38.5	-	4	1.5	M3xP0.5xL6	φ 11	3	5.9	M5xP0.8
φ 20	35	5.5	29.5	45	5.5	39.5	-	4	1.5	M4xP0.7xL8	φ 13	3	6.2	M5xP0.8
φ 25	37	6	31	47	6	41	-	4	2	M5xP0.8xL10	φ 17	3	7	M5xP0.8
φ 32	41.5	7	34.5	51.5	7	44.5	48.5	4	3	M6xP1.0xL12	φ 22	3	9	G 1/8
φ 40	43	7	36	53	7	46	56.5	4	3	M8xP1.25xL12	φ 28	3	10	G 1/8
φ 50	47	9	38	57	9	48	70	5	4	M10xP1.5xL15	φ 38	3	10	G 1/4

Bore size	P1							P3	P4	R	S	T1	T2	U	V	W	X	Y
φ 12	Two sides	φ 7.4	Thread	M5xP0.8	Cross hole	φ 4.3	14.5	4.5	-	25	16.3	23	R16	φ 6	5	-	-	-
φ 16	Two sides	φ 7.4	Thread	M5xP0.8	Cross hole	φ 4.3	14.5	4.5	-	29	19.8	28	R19	φ 6	5	-	-	-
φ 20	Two sides	φ 7.4	Thread	M5xP0.8	Cross hole	φ 4.3	14.5	4.5	-	34	24	-	R22	φ 8	6	-	-	-
φ 25	Two sides	φ 9.0	Thread	M6xP1.0	Cross hole	φ 4.6	15.5	5.5	-	40	28	-	R25	φ 10	8	-	-	-
φ 32	Two sides	φ 9.0	Thread	M6xP1.0	Cross hole	φ 4.6	16.5	5.5	4.5	44	34	-	R29.5	φ 12	10	18.8	16	-
φ 40	Two sides	φ 10.5	Thread	M8xP1.25	Cross hole	φ 6.9	20.5	7.5	4.5	52	40	-	R35	φ 16	14	19	16	-
φ 50	Two sides	φ 11.0	Thread	M8xP1.25	Cross hole	φ 6.9	25.5	8.5	8	62	48	-	R41	φ 20	17	26	19	-

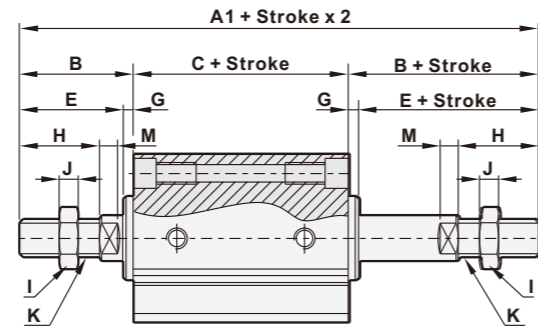
#### Dimensions

##### JCD Double rod/Double acting

JCD: Double rod/  
Double acting



##### Piston rod with male thread



(Unit: mm)

Bore size	A1	B	E	H	I	J	K
φ 20	60.5	20.5	19	15	10	5	M6xP1.0
φ 25	67	23	21	17	13	6	M8xP1.25
φ 32	74.5	25	22	18	17	6	M10xP1.25
φ 40	96	35	32	28	22	8	M14xP1.5
φ 50	102	37	33	28	27	6	M18xP1.5
φ 63	106	37	33	28	27	6	M18xP1.5
φ 80	129	44	39	33	32	8	M22xP1.5
φ 100	151	50	45	38	35	8	M26xP1.5

(Unit: mm)

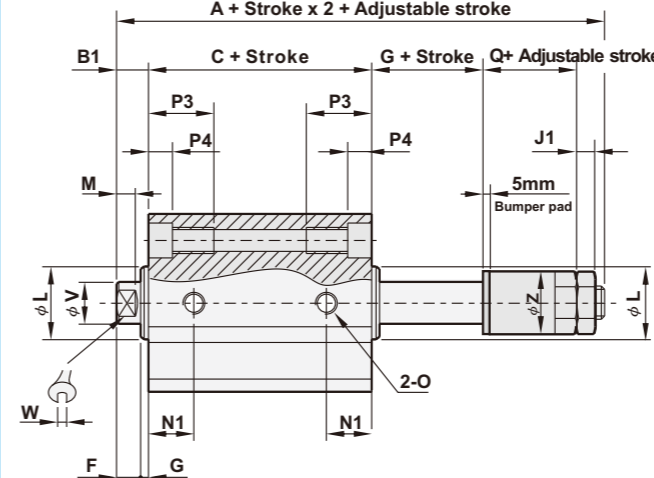
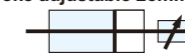
Bore size	W/O magnet			W/I magnet			D	F	G	K1	L	M	N1	O
	A	B1	C	A	B1	C								
φ 20	30.5	5.5	19.5	40.5	5.5	29.5	-	4	1.5	M4xP0.7xL8	φ 13	3	6.2	M5xP0.8
φ 25	33	6	21	43	6	31	-	4	2	M5xP0.8xL10	φ 17	3	7	M5xP0.8
φ 32	38.5	7	24.5	48.5	7	34.5	48.5	4	3	M6xP1.0xL12	φ 22	3	9	G 1/8
φ 40	40	7	26	50	7	36	56.5	4	3	M8xP1.25xL12	φ 28	3	10	G 1/8
φ 50	46	9	28	56	9	38	70	5	4	M10xP1.5xL15	φ 38	3	10	G 1/4
φ 63	50	9	32	60	9	42	83	5	4	M10xP1.5xL15	φ 40	3	12	G 1/4
φ 80	63	11	41	73	11	51	104	6	5	M14xP1.5xL20	φ 45	4	12.5	G 3/8
φ 100	75	12	51	85	12	61	124	7	5	M18xP1.5xL20	φ 55	4	17	G 3/8

Bore size	P1	P3	P4	R	S	T1	U	V	W	X	Y
φ 20	Two sides φ 7.4 Thread M5xP0.8 Cross hole φ 4.3	14.5	4.5	-	34	24	R22	φ 8	6	-	-
φ 25	Two sides φ 9.0 Thread M6xP1.0 Cross hole φ 4.6	15.5	5.5	-	40	28	R25	φ 10	8	-	-
φ 32	Two sides φ 9.0 Thread M6xP1.0 Cross hole φ 4.6	16.5	5.5	4.5	44	34	R29.5	φ 12	10	18.8	16
φ 40	Two sides φ 10.5 Thread M8xP1.25 Cross hole φ 6.9	20.5	7.5	4.5	52	40	R35	φ 16	14	19	16
φ 50	Two sides φ 11.0 Thread M8xP1.25 Cross hole φ 6.9	25.5	8.5	8	62	48	R41	φ 20	17	26	19
φ 63	Two sides φ 11.0 Thread M8xP1.25 Cross hole φ 6.9	25.5	8.5	8	75	60	R50	φ 20	17	26	19
φ 80	Two sides φ 16.5 Thread M12xP1.75 Cross hole φ 10.5	25.5	10.5	10	94	74	R62	φ 25	22	37.5	26
φ 100	Two sides φ 18.5 Thread M14xP2 Cross hole φ 12.3	30	13	10	114	90	R75	φ 30	27	37.5	26

#### Dimensions

##### JCA, JCB Stroke adjustable type (Adjustable stroke: JCA 0~25mm, JCB 0~50mm)

JCA, JCB:  
Stroke adjustable 25mm, 50mm



(Unit: mm)

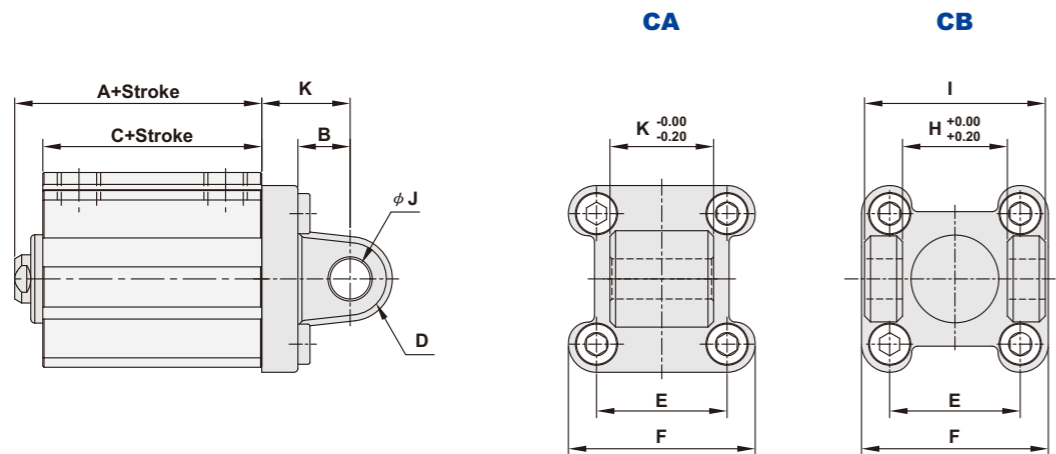
Bore size	W/O magnet			W/I magnet			D	F	G	J1	K1	L	M	N1	O
	A	B1	C	A	B1	C									
φ 20	59.5	5.5	19.5	69.5	5.5	29.5	-	4	1.5	5	M4xP0.7xL8	φ 13	3	6.2	M5xP0.8
φ 25	63	6	21	73	6	31	-	4	2	6	M5xP0.8xL10	φ 17	3	7	M5xP0.8
φ 32	69.5	7	24.5	79.5	7	34.5	48.5	4	3	6	M6xP1.0xL12	22	3	9	G 1/8
φ 40	71	7	26	81	7	36	56.5	4	3	7	M8xP1.25xL12	28	3	10	G 1/8
φ 50	84	9	28	94	9	38	70	5	4	8	M10xP1.5xL15	38	3	10	G 1/4
φ 63	86	9	32	96	9	42	83	5	4	8	M10xP1.5xL15	40	3	12	G 1/4
φ 80	109	11	41	119	11	51	104	6	5	10	M14xP1.5xL20	45	4	12.5	G 3/8
φ 100	116	12	51	126	12	61	124	7	5	10	M18xP1.5xL20	55	4	17	G 3/8

Bore size	P1	P3	P4	Q	R	S	T1	U	V	W	X	Y	Z
φ 20	Two sides φ 7.4 Thread M5xP0.8 Cross hole φ 4.3	14.5	4.5	25	-	34	24	R22	φ 8	6	-	-	φ 19
φ 25	Two sides φ 9.0 Thread M6xP1.0 Cross hole φ 4.6	15.5	5.5	25	-	40	28	R25	φ 10	8	-	-	φ 19
φ 32	Two sides φ 9.0 Thread M6xP1.0 Cross hole φ 4.6	16.5	5.5	27	4.5	44	34	R29.5	φ 12	10	18.8	16	φ 25
φ 40	Two sides φ 10.5 Thread M8xP1.25 Cross hole φ 6.9	20.5	7.5	27	4.5	52	40	R35	φ 16	14	19	16	φ 30
φ 50	Two sides φ 11.0 Thread M8xP1.25 Cross hole φ 6.9	25.5	8.5	33	8	62	48	R41	φ 20	17	26	19	φ 40
φ 63	Two sides φ 11.0 Thread M8xP1.25 Cross hole φ 6.9	25.5	8.5	33	8	75	60	R50	φ 20	17	26	19	φ 40
φ 80	Two sides φ 16.5 Thread M12xP1.75 Cross hole φ 10.5	25.5	10.5	40	10	94	74	R62	φ 25	22	37.5	26	φ 40
φ 100	Two sides φ 18.5 Thread M14xP2 Cross hole φ 12.3	30.5	13	40	10	114	90	R75	φ 30	27	37.5	26	φ 40



### Dimension of mounting parts

#### CA, CB Male & Female clevis



(Unit: mm)

Bore size	A	A W/l magnet	B	C	C W/l magnet	D	E	F	G	H	I	J	K
φ 32	31.5	41.5	13	24.5	34.5	R9	34	47	25.8	26	45	φ 10	22
φ 40	33	43	16	26	36	R10.5	40	52	27.8	28	52	φ 12	25
φ 50	37	47	17	28	38	R11	48	64	37.1	32	60	φ 12	27
φ 63	41	51	22	32	42	R13	60	74	39.7	40	70	φ 16	32
φ 80	52	62	22	41	51	R14	74	94	49.7	50	90	φ 16	36
φ 100	63	73	27	51	61	R17.5	90	113	59.7	60	110	φ 20	41

### How to order Repair kit

ZGJC	12
Repair kit for JC Cylinder	Bore size
ZGJC (JC)	12 : φ 12
ZGJCB (JCD, JCA, JCB)	16 : φ 16
	20 : φ 20
	25 : φ 25
	32 : φ 32
	40 : φ 40
	50 : φ 50
	63 : φ 63
	80 : φ 80
	100 : φ 100

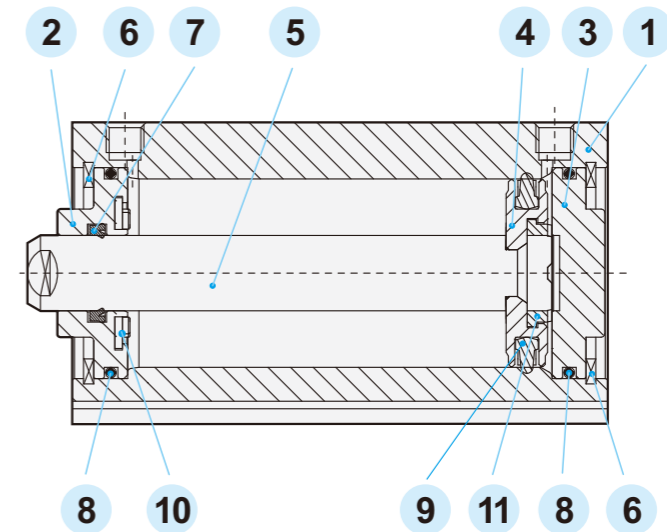
### Repair kit :

ZGJC	
Description	Qty.
Rod seal	1
O-ring for front/rear cover	2
U-Piston seal	1

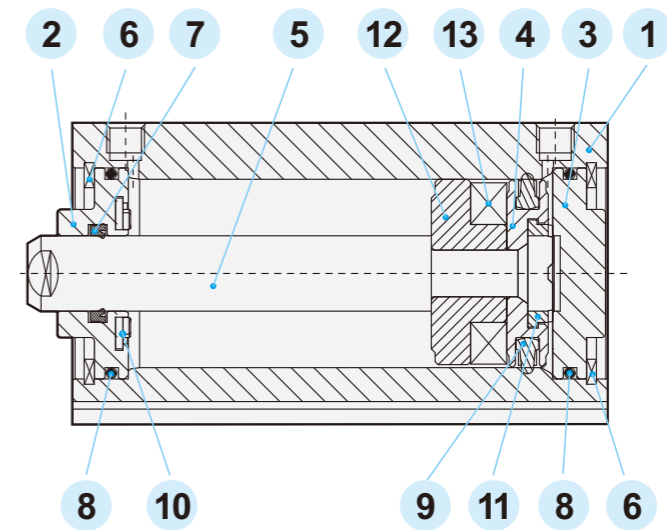
ZGJCB	
Description	Qty.
Rod seal	2
O-ring for front/rear cover	2
U-Piston seal	1

### Material of parts

#### Without magnet



#### With magnet



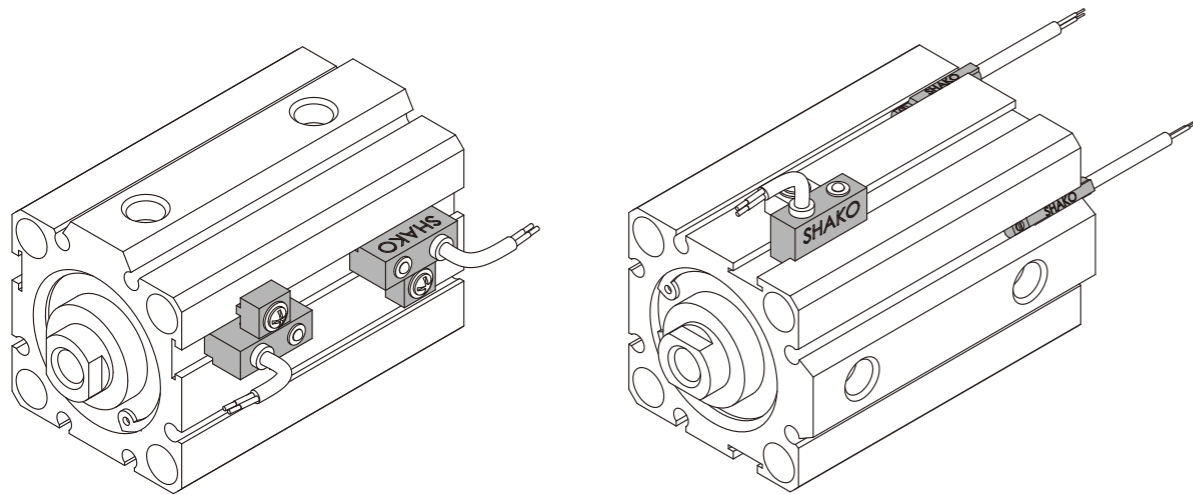
No.	Description	Material	Qty.	No.	Description	Material	Qty.
1	Barrel	Aluminum alloy	1	8	O-ring for front/rear cover	NBR	2
2	Front cover	Cu	1	9	U-Piston seal	NBR	1
3	Rear cover	Cu	1	10	Cushion Plate	NBR	1
4	Piston	Aluminum alloy	1	11	Cushion Plate	NBR	1
5	Piston rod	S45C+Cr	1	12	Magnet	Aluminum alloy	1
6	Snap ring	Spring steel	2	13	Magnet	Ferrite magnet	1
7	Rod seal	HNBR	1				

Stroke table

Model	Bore size	Stroke table	Max. Stroke
φ 12~φ 16	Double acting (W/O magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60	60
	Double acting (W/I magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	50
	Single acting	5, 10	10
φ 20~φ 40	Double acting (W/O magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110	110
	Double acting (W/I magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100	100
	Single acting	5, 10	10
φ 50	Double acting (W/O magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120	120
	Double acting (W/I magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110	110
	Single acting	10, 20	20
φ 63~φ 100	Double acting (W/O magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120	120
	Double acting (W/I magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110	110

Note: For Non-standard stroke, please contact our sales.

Sensor mounting example



Memo...

Pneumatic Actuators

Jig Cylinder

JC

JQ

Double Rod Cylinder

DR

Free Mounted Cylinder

HC

