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	D	1	CA	S
Type	Bore size	Stroke	Rod thread	Magnet	Sensor	Type	Number of sensor	Mounting parts	Rod material
JC:Standard double acting JCO:Single acting/Spring extended JCI:Single acting/Spring return JCA:Stroke adjustable 25mm JCB:Stroke adjustable 50mm JCD:Double rod/Double acting	12 :Ø12 16 :Ø16 20 :Ø20 25 :Ø25 32 :Ø32 40 :Ø40 50 :Ø50 63 :Ø63 80 :Ø80 100 :Ø100		Blank:Female thread H :Male thread	Blank:W/O magnet M :W/I magnet	Blank:W/O sensor SS:Square type AL-11 SR:Round type AL-07 SU:Square type AL-16	Blank:Reed switch D:NPN E :PNP	1 pc 2 pcs	CA:Male clevis CB:Female clevis	Blank:S45C S :SUS304

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).

*Sensor please refer to P3-191~P3-193
*Repair kit to P3-77

How to order mounting parts

ZJ	CA	—	32
JC series	Mounting parts	Bore size	
	CA:Male clevis CB:Female clevis	32:Ø32 40:Ø40 50:Ø50	63:Ø63 80:Ø80 100:Ø100

*Please refer to P3-77

Specifications

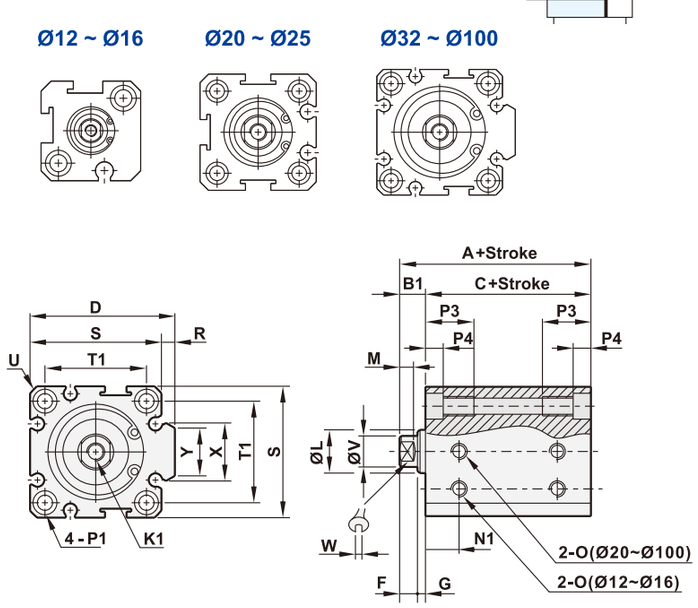
Bore size	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100
Port size	M5xP0.8				1/8"		1/4"		3/8"	
Fluid	Compressed air									
Acting	Double acting or single acting									
Operating pressure range	1.0 ~ 9 kgf/cm²									
Max operating pressure	9.5 kgf/cm²									
Barrel material	Aluminum alloy									
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

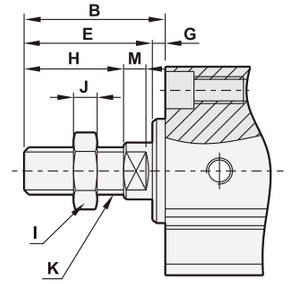
JC Standard double acting

JC: Standard double acting

Ø12 ~ Ø16 | Ø20 ~ Ø25 | Ø32 ~ Ø100



Piston rod with male thread



(Unit: mm)

Bore size	B	E	H	I	J	K
Ø12	17	16	12	8	4	M5xP0.8
Ø16	17.5	16	12	8	4	M5xP0.8
Ø20	20.5	19	15	10	5	M6xP1.0
Ø25	23	21	17	13	6	M8xP1.25
Ø32	25	22	18	17	6	M10xP1.25
Ø40	35	32	28	22	8	M14xP1.5
Ø50	37	33	28	26	6	M18xP1.5
Ø63	37	33	28	26	6	M18xP1.5
Ø80	44	39	33	32	8	M22xP1.5
Ø100	50	45	38	35	8	M26xP1.5

(Unit: mm)

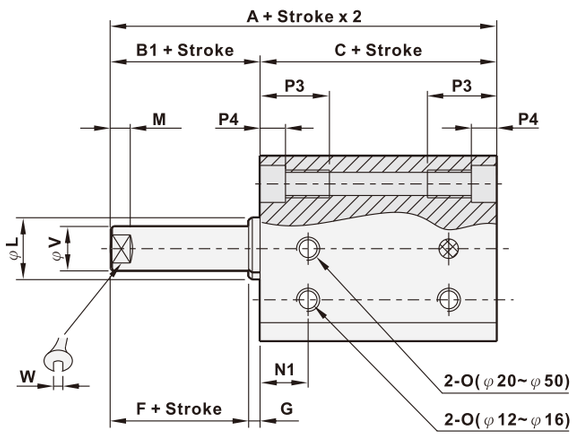
Bore size	W/O magnet			W/I magnet			D	F	G	K1	L	M	N1	O
	A	B1	C	A	B1	C								
Ø12	22	5	17	32	5	27	-	4	1	M3xP0.5xL6	Ø9	3	6.5	M5xP0.8
Ø16	24	5.5	18.5	34	5.5	28.5	-	4	1.5	M3xP0.5xL6	Ø11	3	5.9	M5xP0.8
Ø20	25	5.5	19.5	35	5.5	29.5	-	4	1.5	M4xP0.7xL8	Ø13	3	6.2	M5xP0.8
Ø25	27	6	21	37	6	31	-	4	2	M5xP0.8xL10	Ø17	3	7	M5xP0.8
Ø32	31.5	7	24.5	41.5	7	34.5	48.5	4	3	M6xP1.0xL12	Ø22	3	9	G 1/8
Ø40	33	7	26	43	7	36	56.5	4	3	M8xP1.25xL12	Ø28	3	10	G 1/8
Ø50	37	9	28	47	9	38	70	5	4	M10xP1.5xL15	Ø38	3	10	G 1/4
Ø63	41	9	32	51	9	42	83	5	4	M10xP1.5xL15	Ø40	3	12	G 1/4
Ø80	52	11	41	62	11	51	104	6	5	M14xP1.5xL20	Ø45	4	12.5	G 3/8
Ø100	63	12	51	73	12	61	124	7	5	M18xP1.5xL20	Ø55	4	17	G 3/8

Bore size	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
Ø12	Two sides Ø7.4 Thread M5xP0.8 Cross hole Ø4.3	14.5	4.5	-	25	16.3	23	R16	Ø6	5	-	-
Ø16	Two sides Ø7.4 Thread M5xP0.8 Cross hole Ø4.3	14.5	4.5	-	29	19.8	28	R19	Ø6	5	-	-
Ø20	Two sides Ø7.4 Thread M5xP0.8 Cross hole Ø4.3	14.5	4.5	-	34	24	-	R22	Ø8	6	-	-
Ø25	Two sides Ø9.0 Thread M6xP1.0 Cross hole Ø4.6	15.5	5.5	-	40	28	-	R25	Ø10	8	-	-
Ø32	Two sides Ø9.0 Thread M6xP1.0 Cross hole Ø4.6	16.5	5.5	4.5	44	34	-	R29.5	Ø12	10	18.8	16
Ø40	Two sides Ø10.5 Thread M8xP1.25 Cross hole Ø6.9	20.5	7.5	4.5	52	40	-	R35	Ø16	14	19	16
Ø50	Two sides Ø11.0 Thread M8xP1.25 Cross hole Ø6.9	25.5	8.5	8	62	48	-	R41	Ø20	17	26	19
Ø63	Two sides Ø11.0 Thread M8xP1.25 Cross hole Ø6.9	25.5	8.5	8	75	60	-	R50	Ø20	17	26	19
Ø80	Two sides Ø16.5 Thread M12xP1.75 Cross hole Ø10.5	25.5	10.5	10	94	74	-	R62	Ø25	22	37.5	26
Ø100	Two sides Ø18.5 Thread M14xP2 Cross hole Ø12.3	30	13	10	114	90	-	R75	Ø30	27	37.5	26

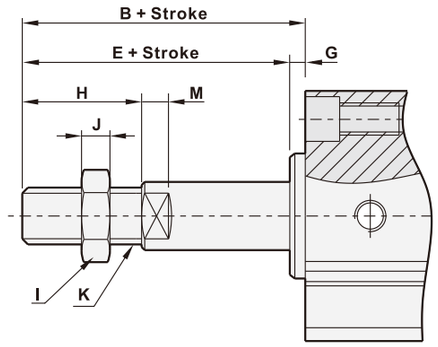
Dimensions

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
ϕ12	17	16	12	8	4	M5xP0.8
ϕ16	17.5	16	12	8	4	M5xP0.8
ϕ20	20.5	19	15	10	5	M6xP1.0
ϕ25	23	21	17	13	6	M8xP1.25
ϕ32	25	22	18	17	6	M10xP1.25
ϕ40	35	32	28	22	8	M14xP1.5
ϕ50	37	33	28	27	6	M18xP1.5

(Unit: mm)

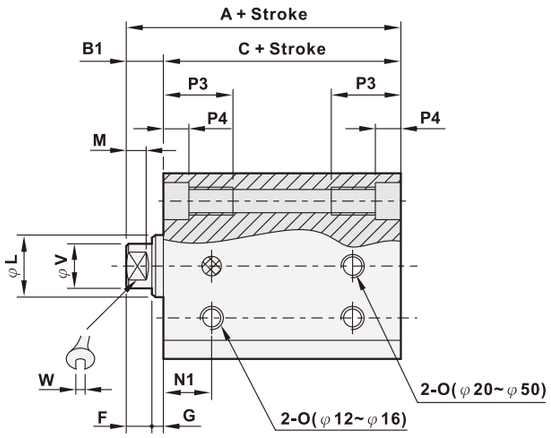
Bore size	W/O magnet			W/I magnet			D	F	G	K1	L	M	N1	O
	A	B1	C	A	B1	C								
ϕ12	32	5	27	42	5	37	-	4	1	M3xP0.5xL6	ϕ11	3	6.5	M5xP0.8
ϕ16	34	5.5	28.5	44	5.5	38.5	-	4	1.5	M3xP0.5xL6	ϕ11	3	5.9	M5xP0.8
ϕ20	35	5.5	29.5	45	5.5	39.5	-	4	1.5	M4xP0.7xL8	ϕ13	3	6.2	M5xP0.8
ϕ25	37	6	31	47	6	41	-	4	2	M5xP0.8xL10	ϕ17	3	7	M5xP0.8
ϕ32	41.5	7	34.5	51.5	7	44.5	48.5	4	3	M6xP1.0xL12	ϕ22	3	9	G 1/8
ϕ40	43	7	36	53	7	46	56.5	4	3	M8xP1.25xL12	ϕ28	3	10	G 1/8
ϕ50	47	9	38	57	9	48	70	5	4	M10xP1.5xL15	ϕ38	3	10	G 1/4

Bore size	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
ϕ12	Two sides ϕ7.4 Thread M5xP0.8 Cross hole ϕ4.3	14.5	4.5	-	25	16.3	23	R16	ϕ6	5	-	-
ϕ16	Two sides ϕ7.4 Thread M5xP0.8 Cross hole ϕ4.3	14.5	4.5	-	29	19.8	28	R19	ϕ6	5	-	-
ϕ20	Two sides ϕ7.4 Thread M5xP0.8 Cross hole ϕ4.3	14.5	4.5	-	34	24	-	R22	ϕ8	6	-	-
ϕ25	Two sides ϕ9.0 Thread M6xP1.0 Cross hole ϕ4.6	15.5	5.5	-	40	28	-	R25	ϕ10	8	-	-
ϕ32	Two sides ϕ9.0 Thread M6xP1.0 Cross hole ϕ4.6	16.5	5.5	4.5	44	34	-	R29.5	ϕ12	10	18.8	16
ϕ40	Two sides ϕ10.5 Thread M8xP1.25 Cross hole ϕ6.9	20.5	7.5	4.5	52	40	-	R35	ϕ16	14	19	16
ϕ50	Two sides ϕ11.0 Thread M8xP1.25 Cross hole ϕ6.9	25.5	8.5	8	62	48	-	R41	ϕ20	17	26	19

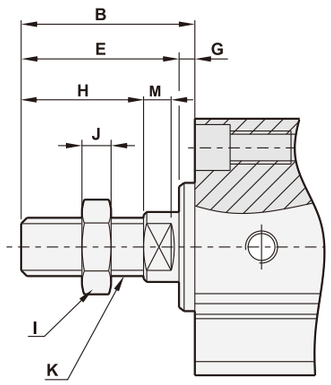
Dimensions

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
ϕ12	17	16	12	8	4	M5xP0.8
ϕ16	17.5	16	12	8	4	M5xP0.8
ϕ20	20.5	19	15	10	5	M6xP1.0
ϕ25	23	21	17	13	6	M8xP1.25
ϕ32	25	22	18	17	6	M10xP1.25
ϕ40	35	32	28	22	8	M14xP1.5
ϕ50	37	33	28	27	6	M18xP1.5

(Unit: mm)

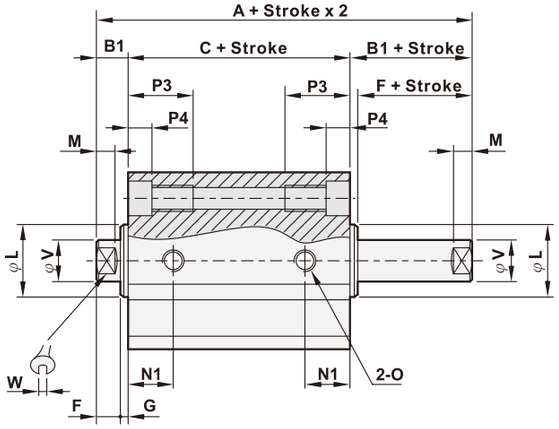
Bore size	W/O magnet			W/I magnet			D	F	G	K1	L	M	N1	O
	A	B1	C	A	B1	C								
ϕ12	32	5	27	42	5	37	-	4	1	M3xP0.5xL6	ϕ11	3	6.5	M5xP0.8
ϕ16	34	5.5	28.5	44	5.5	38.5	-	4	1.5	M3xP0.5xL6	ϕ11	3	5.9	M5xP0.8
ϕ20	35	5.5	29.5	45	5.5	39.5	-	4	1.5	M4xP0.7xL8	ϕ13	3	6.2	M5xP0.8
ϕ25	37	6	31	47	6	41	-	4	2	M5xP0.8xL10	ϕ17	3	7	M5xP0.8
ϕ32	41.5	7	34.5	51.5	7	44.5	48.5	4	3	M6xP1.0xL12	ϕ22	3	9	G 1/8
ϕ40	43	7	36	53	7	46	56.5	4	3	M8xP1.25xL12	ϕ28	3	10	G 1/8
ϕ50	47	9	38	57	9	48	70	5	4	M10xP1.5xL15	ϕ38	3	10	G 1/4

Bore size	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
ϕ12	Two sides ϕ7.4 Thread M5xP0.8 Cross hole ϕ4.3	14.5	4.5	-	25	16.3	23	R16	ϕ6	5	-	-
ϕ16	Two sides ϕ7.4 Thread M5xP0.8 Cross hole ϕ4.3	14.5	4.5	-	29	19.8	28	R19	ϕ6	5	-	-
ϕ20	Two sides ϕ7.4 Thread M5xP0.8 Cross hole ϕ4.3	14.5	4.5	-	34	24	-	R22	ϕ8	6	-	-
ϕ25	Two sides ϕ9.0 Thread M6xP1.0 Cross hole ϕ4.6	15.5	5.5	-	40	28	-	R25	ϕ10	8	-	-
ϕ32	Two sides ϕ9.0 Thread M6xP1.0 Cross hole ϕ4.6	16.5	5.5	4.5	44	34	-	R29.5	ϕ12	10	18.8	16
ϕ40	Two sides ϕ10.5 Thread M8xP1.25 Cross hole ϕ6.9	20.5	7.5	4.5	52	40	-	R35	ϕ16	14	19	16
ϕ50	Two sides ϕ11.0 Thread M8xP1.25 Cross hole ϕ6.9	25.5	8.5	8	62	48	-	R41	ϕ20	17	26	19

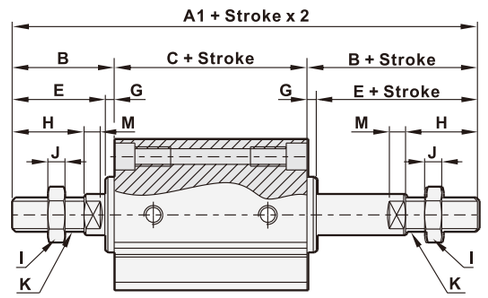
Dimensions

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
φ20	60.5	20.5	19	15	10	5	M6xP1.0
φ25	67	23	21	17	13	6	M8xP1.25
φ32	74.5	25	22	18	17	6	M10xP1.25
φ40	96	35	32	28	22	8	M14xP1.5
φ50	102	37	33	28	27	6	M18xP1.5
φ63	106	37	33	28	27	6	M18xP1.5
φ80	129	44	39	33	32	8	M22xP1.5
φ100	151	50	45	38	35	8	M26xP1.5

(Unit: mm)

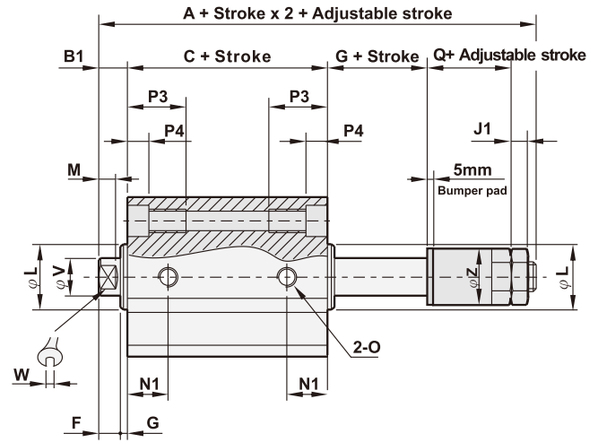
Bore size	W/O magnet			W/I magnet			D	F	G	K1	L	M	N1	O
	A	B1	C	A	B1	C								
φ20	30.5	5.5	19.5	40.5	5.5	29.5	-	4	1.5	M4xP0.7xL8	φ13	3	6.2	M5xP0.8
φ25	33	6	21	43	6	31	-	4	2	M5xP0.8xL10	φ17	3	7	M5xP0.8
φ32	38.5	7	24.5	48.5	7	34.5	48.5	4	3	M6xP1.0xL12	φ22	3	9	G 1/8
φ40	40	7	26	50	7	36	56.5	4	3	M8xP1.25xL12	φ28	3	10	G 1/8
φ50	46	9	28	56	9	38	70	5	4	M10xP1.5xL15	φ38	3	10	G 1/4
φ63	50	9	32	60	9	42	83	5	4	M10xP1.5xL15	φ40	3	12	G 1/4
φ80	63	11	41	73	11	51	104	6	5	M14xP1.5xL20	φ45	4	12.5	G 3/8
φ100	75	12	51	85	12	61	124	7	5	M18xP1.5xL20	φ55	4	17	G 3/8

Bore size	P1	P3	P4	R	S	T1	U	V	W	X	Y
φ20	Two sides φ7.4 Thread M5xP0.8 Cross hole φ4.3	14.5	4.5	-	34	24	R22	φ8	6	-	-
φ25	Two sides φ9.0 Thread M6xP1.0 Cross hole φ4.6	15.5	5.5	-	40	28	R25	φ10	8	-	-
φ32	Two sides φ9.0 Thread M6xP1.0 Cross hole φ4.6	16.5	5.5	4.5	44	34	R29.5	φ12	10	18.8	16
φ40	Two sides φ10.5 Thread M8xP1.25 Cross hole φ6.9	20.5	7.5	4.5	52	40	R35	φ16	14	19	16
φ50	Two sides φ11.0 Thread M8xP1.25 Cross hole φ6.9	25.5	8.5	8	62	48	R41	φ20	17	26	19
φ63	Two sides φ11.0 Thread M8xP1.25 Cross hole φ6.9	25.5	8.5	8	75	60	R50	φ20	17	26	19
φ80	Two sides φ16.5 Thread M12xP1.75 Cross hole φ10.5	25.5	10.5	10	94	74	R62	φ25	22	37.5	26
φ100	Two sides φ18.5 Thread M14xP2 Cross hole φ12.3	30	13	10	114	90	R75	φ30	27	37.5	26

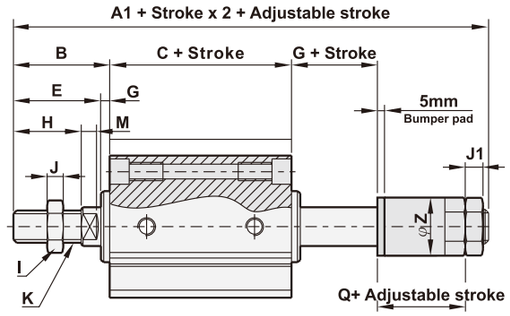
Dimensions

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

JCA, JCB:
Stroke adjustable 25mm, 50mm



Piston rod with male thread



(Unit: mm)

Bore size	A1	B	E	H	I	J	K
φ20	74.5	20.5	19	15	10	5	M6xP1.0
φ25	80	23	21	17	13	6	M8xP1.25
φ32	87.5	25	22	18	17	6	M10xP1.25
φ40	99	35	32	28	22	8	M14xP1.5
φ50	112	37	33	28	27	6	M18xP1.5
φ63	114	37	33	28	27	6	M18xP1.5
φ80	142	44	39	33	32	8	M22xP1.5
φ100	154	50	45	38	35	8	M26xP1.5

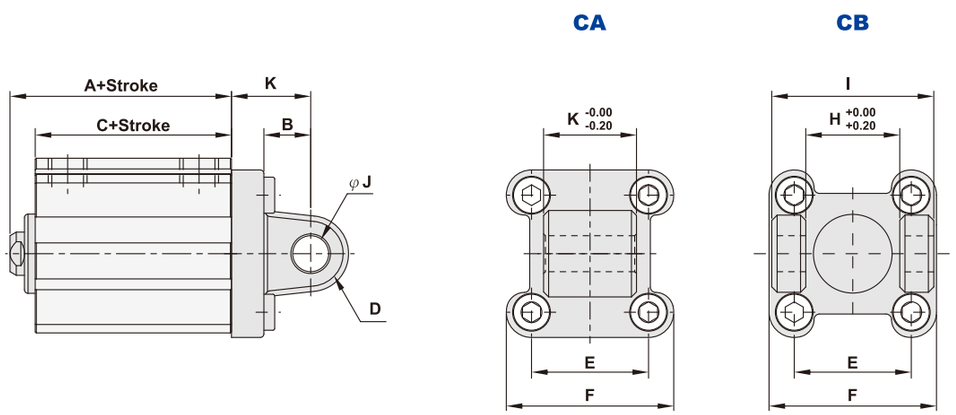
(Unit: mm)

Bore size	W/O magnet			W/I magnet			D	F	G	J1	K1	L	M	N1	O
	A	B1	C	A	B1	C									
φ20	59.5	5.5	19.5	69.5	5.5	29.5	-	4	1.5	5	M4xP0.7xL8	φ13	3	6.2	M5xP0.8
φ25	63	6	21	73	6	31	-	4	2	6	M5xP0.8xL10	φ17	3	7	M5xP0.8
φ32	69.5	7	24.5	79.5	7	34.5	48.5	4	3	6	M6xP1.0xL12	φ22	3	9	G 1/8
φ40	71	7	26	81	7	36	56.5	4	3	7	M8xP1.25xL12	φ28	3	10	G 1/8
φ50	84	9	28	94	9	38	70	5	4	8	M10xP1.5xL15	φ38	3	10	G 1/4
φ63	86	9	32	96	9	42	83	5	4	8	M10xP1.5xL15	φ40	3	12	G 1/4
φ80	109	11	41	119	11	51	104	6	5	10	M14xP1.5xL20	φ45	4	12.5	G 3/8
φ100	116	12	51	126	12	61	124	7	5	10	M18xP1.5xL20	φ55	4	17	G 3/8

Bore size	P1	P3	P4	Q	R	S	T1	U	V	W	X	Y	Z
φ20	Two sides φ7.4 Thread M5xP0.8 Cross hole φ4.3	14.5	4.5	25	-	34	24	R22	φ8	6	-	-	φ19
φ25	Two sides φ9.0 Thread M6xP1.0 Cross hole φ4.6	15.5	5.5	25	-	40	28	R25	φ10	8	-	-	φ19
φ32	Two sides φ9.0 Thread M6xP1.0 Cross hole φ4.6	16.5	5.5	27	4.5	44	34	R29.5	φ12	10	18.8	16	φ25
φ40	Two sides φ10.5 Thread M8xP1.25 Cross hole φ6.9	20.5	7.5	27	4.5	52	40	R35	φ16	14	19	16	φ30
φ50	Two sides φ11.0 Thread M8xP1.25 Cross hole φ6.9	25.5	8.5	33	8	62	48	R41	φ20	17	26	19	φ40
φ63	Two sides φ11.0 Thread M8xP1.25 Cross hole φ6.9	25.5	8.5	33	8	75	60	R50	φ20	17	26	19	φ40
φ80	Two sides φ16.5 Thread M12xP1.75 Cross hole φ10.5	25.5	10.5	40	10	94	74	R62	φ25	22	37.5	26	φ40
φ100	Two sides φ18.5 Thread M14xP2 Cross hole φ12.3	30.5	13	40	10	114	90	R75	φ30	27	37.5	26	φ40

Dimension of mounting parts

CA, CB Male & Female clevis



(Unit: mm)

Bore size	A	A W/I magnet	B	C	C W/I magnet	D	E	F	G	H	I	J	K
φ32	31.5	41.5	13	24.5	34.5	R9	34	47	25.8	26	45	φ10	22
φ40	33	43	16	26	36	R10.5	40	52	27.8	28	52	φ12	25
φ50	37	47	17	28	38	R11	48	64	37.1	32	60	φ12	27
φ63	41	51	22	32	42	R13	60	74	39.7	40	70	φ16	32
φ80	52	62	22	41	51	R14	74	94	49.7	50	90	φ16	36
φ100	63	73	27	51	61	R17.5	90	113	59.7	60	110	φ20	41

How to order Repair kit

ZGJC – 12

Repair kit for JC Cylinder	Bore size
ZGJC (JC) ZGJCB (JCD. JCA. JCB)	12 : φ12 16 : φ16 20 : φ20 25 : φ25 32 : φ32 40 : φ40 50 : φ50 63 : φ63 80 : φ80 100 : φ100

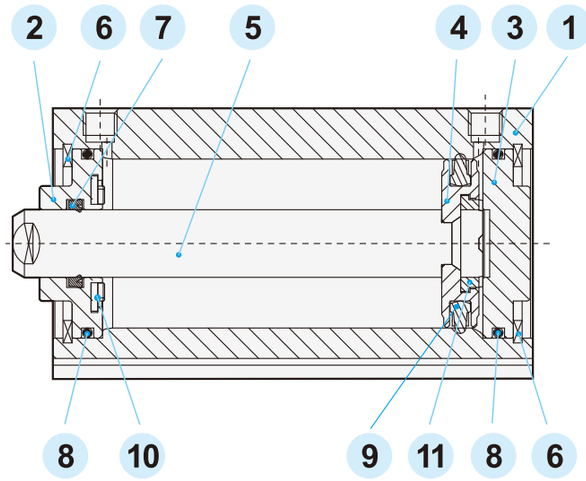
Repair kit :

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

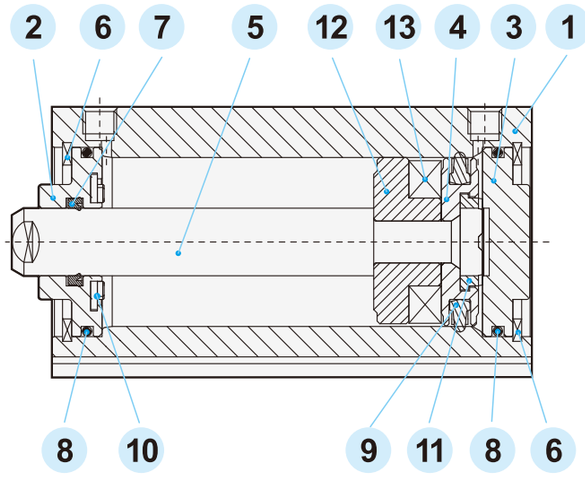
ZGJCB	
Description	**Qty.**
Rod seal	2
O-ring for front/rear cover	2
U-Piston seal	1

Material of parts

Without magnet



With magnet



No.	Description	Material	Qty.
1	Barrel	Aluminum alloy	1
2	Front cover	Cu	1
3	Rear cover	Cu	1
4	Piston	Aluminum alloy	1
5	Piston rod	S45C+Cr	1
6	Snap ring	Spring steel	2
7	Rod seal	HNBR	1

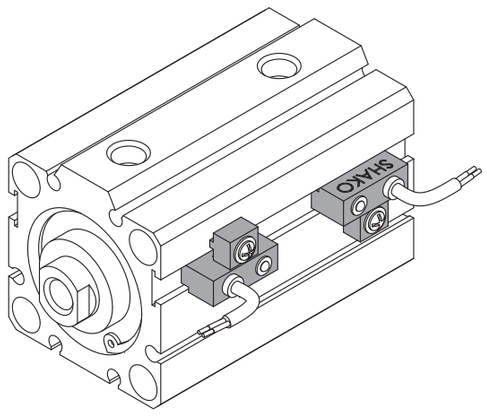
No.	Description	Material	Qty.
8	O-ring for front/rear cover	NBR	2
9	U-Piston seal	NBR	1
10	Cushion Plate	NBR	1
11	Cushion Plate	NBR	1
12	Magnet	Aluminum alloy	1
13	Magnet	Ferrite magnet	1

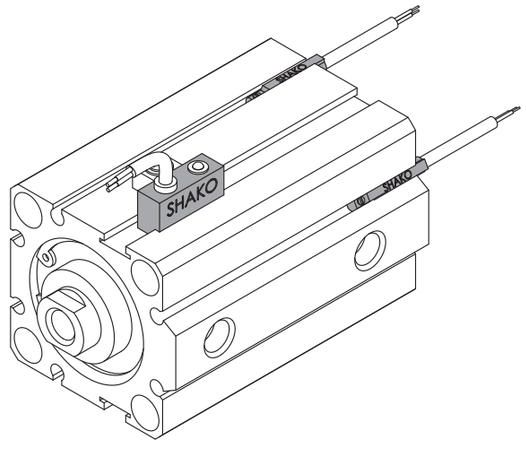
Stroke table

Model	Bore size	Stroke table	Max. Stroke
ϕ12~ϕ16	Double acting (W/O magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70	70
	Double acting (W/I magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60	60
	Single acting	5, 10	10
ϕ20~ϕ40	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
ϕ50	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
ϕ63~ϕ100	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..