

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

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		32:Ø32 63:Ø63
	CB:Female clevis		40:Ø40 80:Ø80
			50:Ø50 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/cm ²									
Max operating pressure	9.5 kgf/cm ²									
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							-		

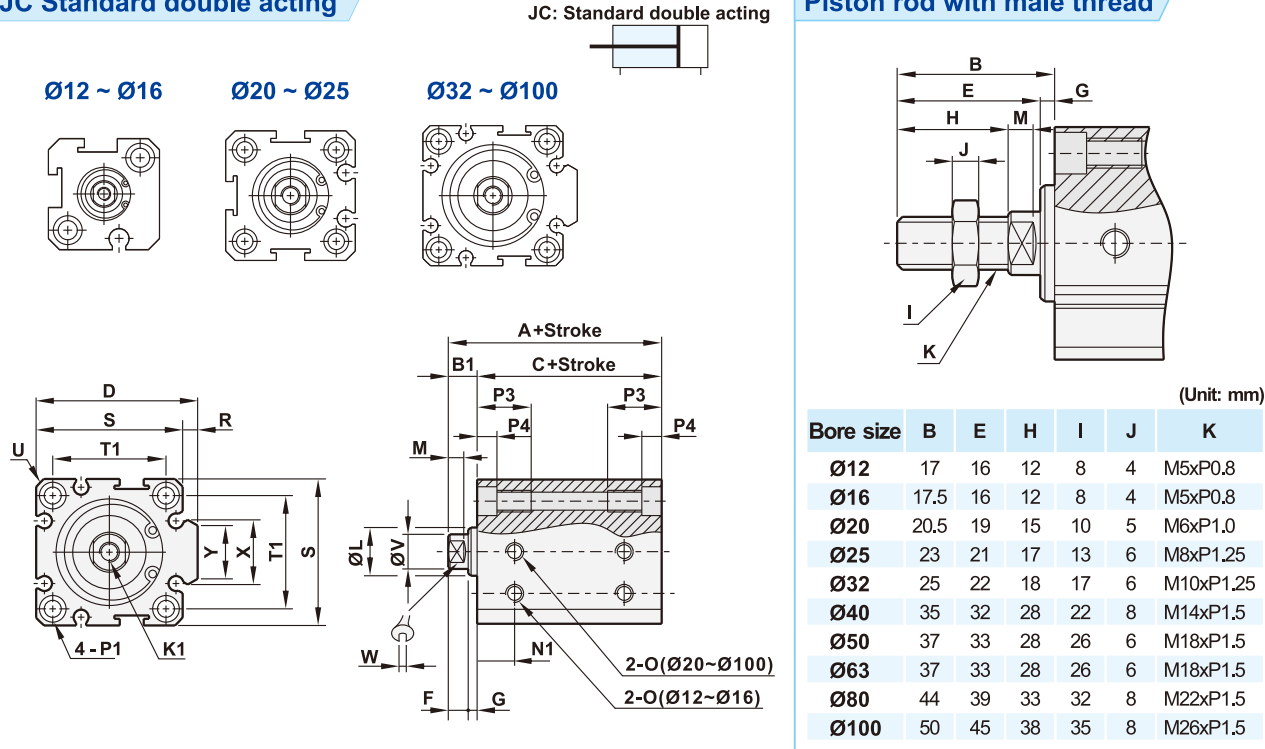
Dimensions

JC Standard double acting

JC: Standard double acting

Ø12 ~ Ø16 Ø20 ~ Ø25 Ø32 ~ Ø100

Piston rod with male thread



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

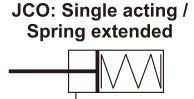
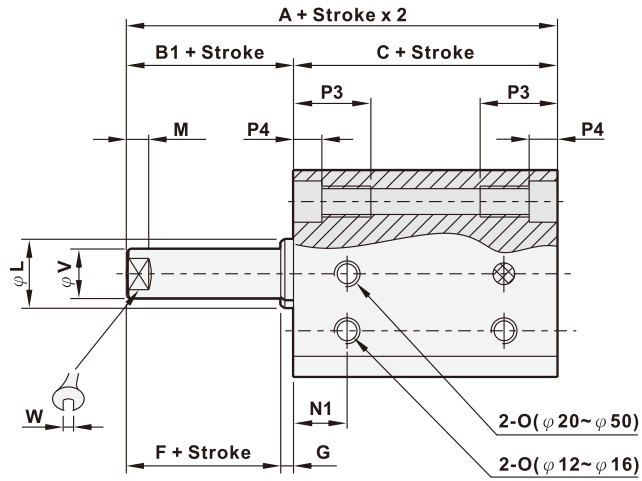
Bore size	W/O magnet			W/I magnet			D	F	G	K1	L	M	N1	O
	A	B1	C	A	B1	C								
Ø12	22	5	17	32	5	27	-	4	1	M3xP0.5xL6	Ø9	3	6.5	M5xP0.8
Ø16	24	5.5	18.5	34	5.5	28.5	-	4	1.5	M3xP0.5xL6	Ø11	3	5.9	M5xP0.8
Ø20	25	5.5	19.5	35	5.5	29.5	-	4	1.5	M4xP0.7xL8	Ø13	3	6.2	M5xP0.8
Ø25	27	6	21	37	6	31	-	4	2	M5xP0.8xL10	Ø17	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

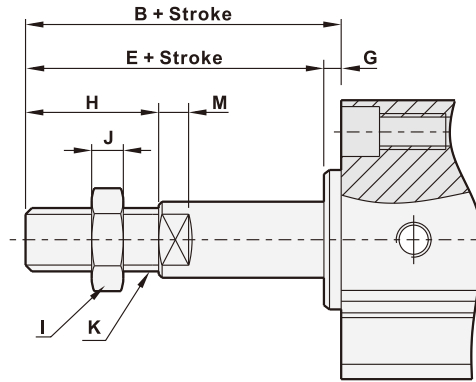
■ Dimensions

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
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)

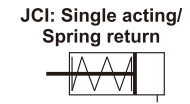
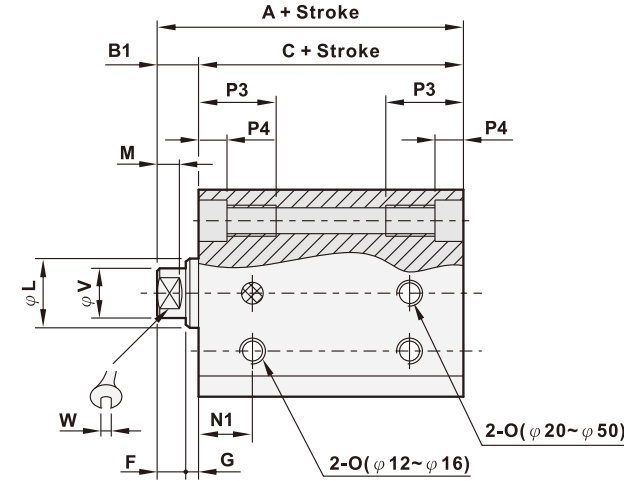
Bore size	W/O magnet			W/I magnet			D	F	G	K1	L	M	N1	O
	A	B1	C	A	B1	C								
φ 12	32	5	27	42	5	37	-	4	1	M3xP0.5xL6	φ 11	3	6.5	M5xP0.8
φ 16	34	5.5	28.5	44	5.5	38.5	-	4	1.5	M3xP0.5xL6	φ 11	3	5.9	M5xP0.8
φ 20	35	5.5	29.5	45	5.5	39.5	-	4	1.5	M4xP0.7xL8	φ 13	3	6.2	M5xP0.8
φ 25	37	6	31	47	6	41	-	4	2	M5xP0.8xL10	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

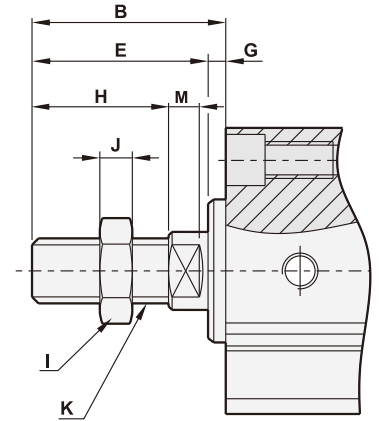
■ Dimensions

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

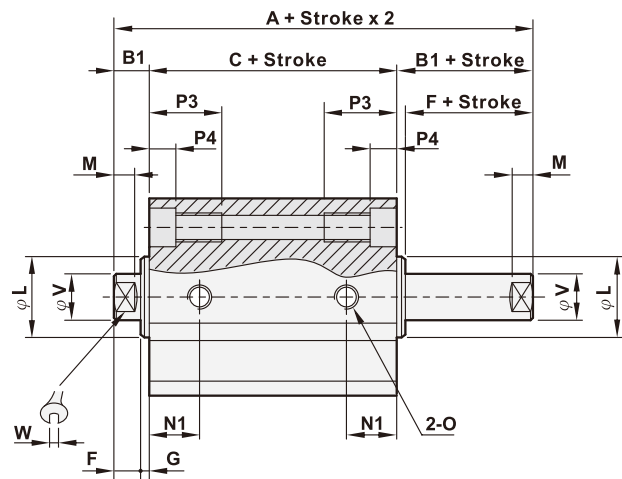
(Unit: mm)

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

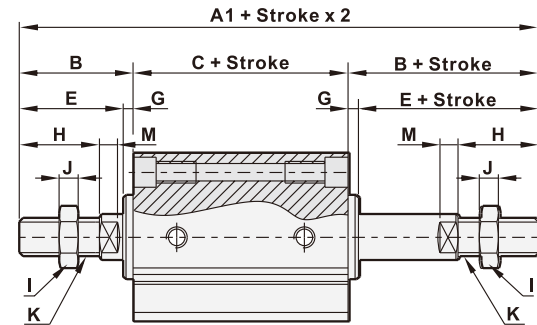
Bore size	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
φ 12	Two sides φ 7.4 Thread M5xP0.8 Cross hole φ 4.3	14.5	4.5	-	25	16.3	23	R16	φ 6	5	-	-
φ 16	Two sides φ 7.4 Thread M5xP0.8 Cross hole φ 4.3	14.5	4.5	-	29	19.8	28	R19	φ 6	5	-	-
φ 20	Two sides φ 7.4 Thread M5xP0.8 Cross hole φ 4.3	14.5	4.5	-	34	24	-	R22	φ 8	6	-	-
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

■ Dimensions

JCD Double rod/Double acting

JCD: Double rod/
Double acting

Piston rod with male thread



(Unit: mm)

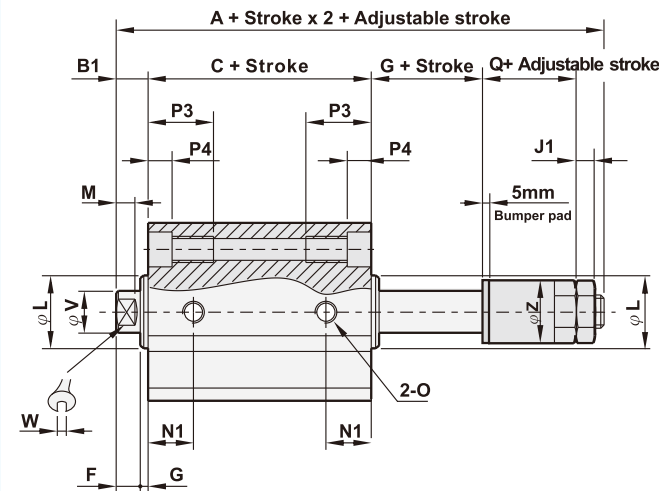
Bore size	A1	B	E	H	I	J	K
φ 20	60.5	20.5	19	15	10	5	M6xP1.0
φ 25	67	23	21	17	13	6	M8xP1.25
φ 32	74.5	25	22	18	17	6	M10xP1.25
φ 40	96	35	32	28	22	8	M14xP1.5
φ 50	102	37	33	28	27	6	M18xP1.5
φ 63	106	37	33	28	27	6	M18xP1.5
φ 80	129	44	39	33	32	8	M22xP1.5
φ 100	151	50	45	38	35	8	M26xP1.5

(Unit: mm)

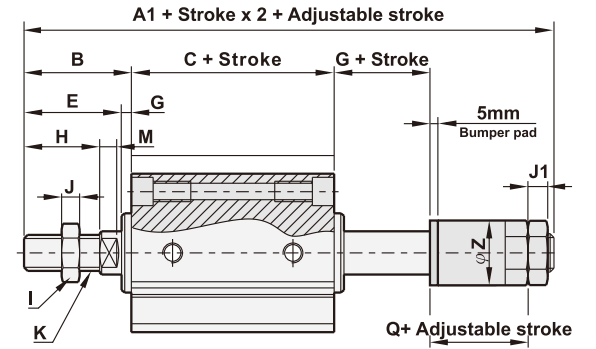
Bore size	W/O magnet			W/I magnet			D	F	G	K1	L	M	N1	O
	A	B1	C	A	B1	C								
φ 20	30.5	5.5	19.5	40.5	5.5	29.5	-	4	1.5	M4xP0.7xL8	φ 13	3	6.2	M5xP0.8
φ 25	33	6	21	43	6	31	-	4	2	M5xP0.8xL10	φ 17	3	7	M5xP0.8
φ 32	38.5	7	24.5	48.5	7	34.5	48.5	4	3	M6xP1.0xL12	φ 22	3	9	G 1/8
φ 40	40	7	26	50	7	36	56.5	4	3	M8xP1.25xL12	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

Piston rod with male thread



(Unit: mm)

Bore size	A1	B	E	H	I	J	K
φ 20	74.5	20.5	19	15	10	5	M6xP1.0
φ 25	80	23	21	17	13	6	M8xP1.25
φ 32	87.5	25	22	18	17	6	M10xP1.25
φ 40	99	35	32	28	22	8	M14xP1.5
φ 50	112	37	33	28	27	6	M18xP1.5
φ 63	114	37	33	28	27	6	M18xP1.5
φ 80	142	44	39	33	32	8	M22xP1.5
φ 100	154	50	45	38	35	8	M26xP1.5

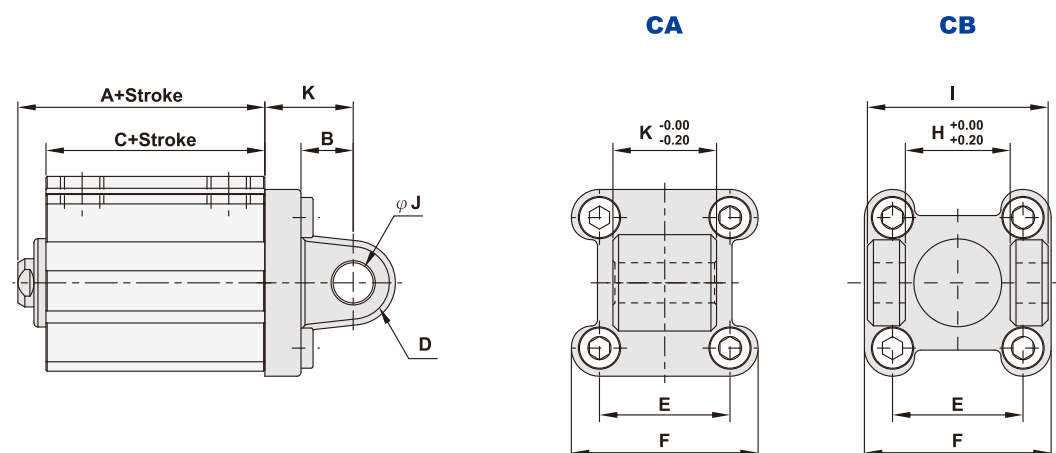
(Unit: mm)

Bore size	W/O magnet			W/I magnet			D	F	G	J1	K1	L	M	N1	O
	A	B1	C	A	B1	C									
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	φ 22	3	9	G 1/8
φ 40	71	7	26	81	7	36	56.5	4	3	7	M8xP1.25xL12	φ 28	3	10	G 1/8
φ 50	84	9	28	94	9	38	70	5	4	8	M10xP1.5xL15	φ 38	3	10	G 1/4
φ 63	86	9	32	96	9	42	83	5	4	8	M10xP1.5xL15	φ 40	3	12	G 1/4
φ 80	109	11	41	119	11	51	104	6	5	10	M14xP1.5xL20	φ 45	4	12.5	G 3/8
φ 100	116	12	51	126	12	61	124	7	5	10	M18xP1.5xL20	φ 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

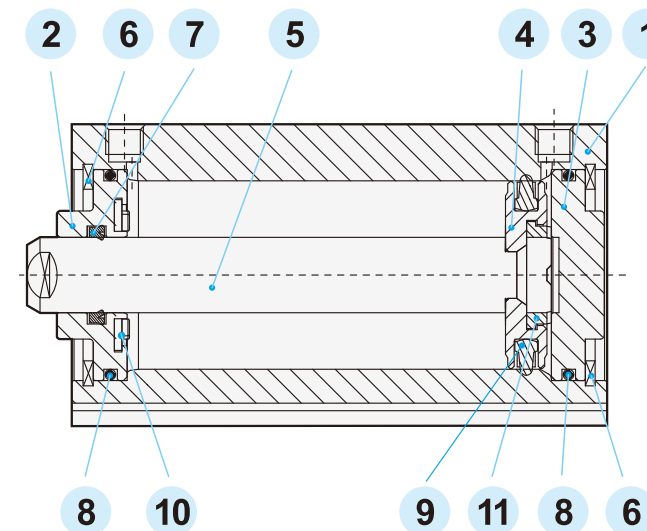
ZGJC	—	12
Repair kit for JC Cylinder		
ZGJC (JC)	12	: φ 12
ZGJCB (JCD, JCA, JCB)	16	: φ 16
	20	: φ 20
	25	: φ 25
	32	: φ 32
	40	: φ 40
	50	: φ 50
	63	: φ 63
	80	: φ 80
	100	: φ 100

Repair kit :

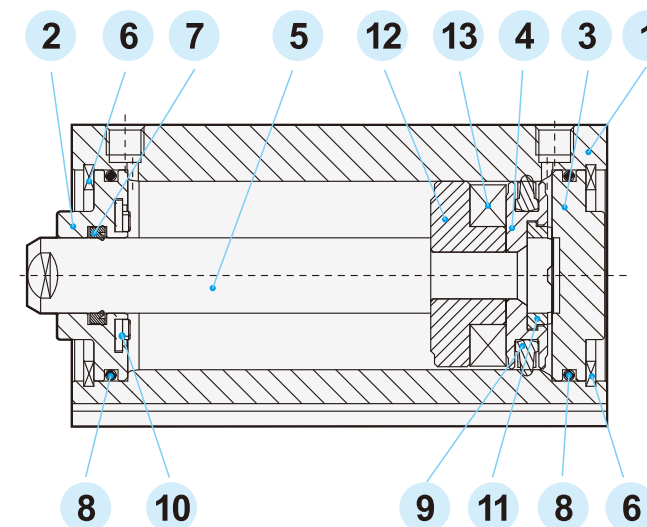
ZGJC		
Description	Qty.	
Rod seal	1	
O-ring for front/rear cover	2	
U-Piston seal	1	
ZGJCB		
Description	Qty.	
Rod seal	2	
O-ring for front/rear cover	2	
U-Piston seal	1	

Material of parts

Without magnet



With magnet



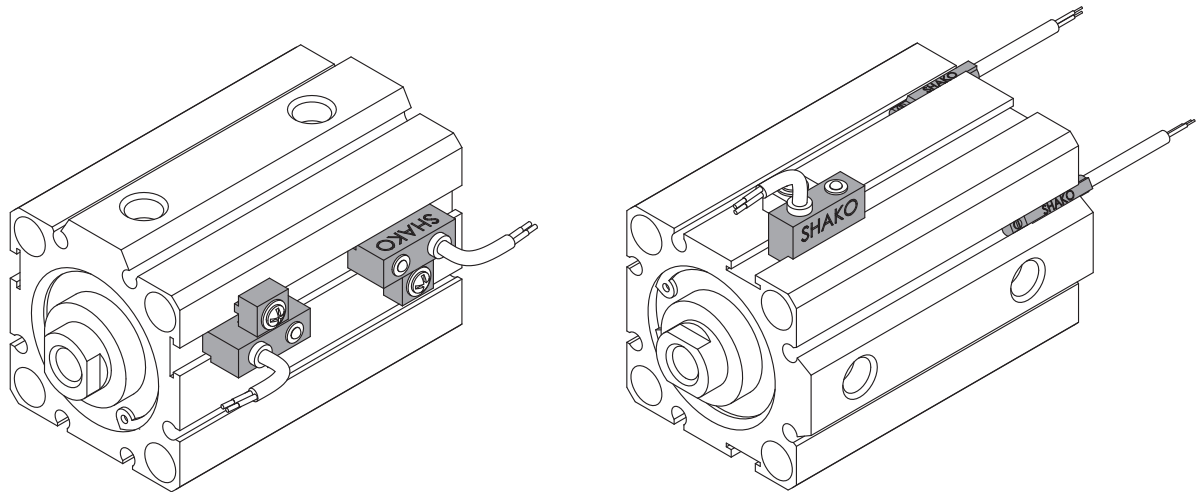
No.	Description	Material	Qty.	No.	Description	Material	Qty.
1	Barrel	Aluminum alloy	1	8	O-ring for front/rear cover	NBR	2
2	Front cover	Cu	1	9	U-Piston seal	NBR	1
3	Rear cover	Cu	1	10	Cushion Plate	NBR	1
4	Piston	Aluminum alloy	1	11	Cushion Plate	NBR	1
5	Piston rod	S45C+Cr	1	12	Magnet	Aluminum alloy	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, 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
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..



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

JQ	32	B50	H	M	SR	D	1	S
Type	Bore size	Stroke	Rod thread	Magnet	Sensor	Type	Number of sensor	Rod material
JQ :Standard double acting	12 :Ø12		Blank:Female thread	Blank :W/O magnet	Blank :W/O sensor	Blank :Reed switch	1 pc	Blank :S45C
JQA :Stroke adjustable 25mm	16 :Ø16		H:Male thread	M :W/I magnet	SS :Square type	D :NPN	2 pcs	S :SUS304
JQB :Stroke adjustable 50mm	20 :Ø20				AL-11	E :PNP		
JQD :Double rod/Double acting	25 :Ø25				SR:Round type			
	32 :Ø32				AL-07			
	40 :Ø40				SU:Square type			
	50 :Ø50				AL-16			
	63 :Ø63							

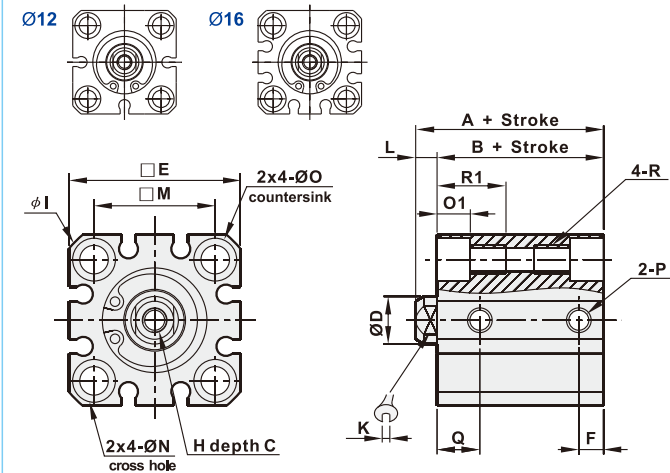
1. The body length of JQ-M cylinder (Magnetic type) is 10mm longer than JQ cylinder (Non-Magnetic type).
 2. Stainless mounting bolts is suggested for the installation of JQ-M cylinder (Magnetic type).
- *Sensor please refer to P3-191~P3-193
*Repair kit to P3-85

Specifications

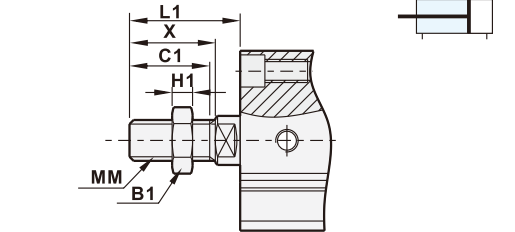
Bore size	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63
Port size	M5xP0.8				1/8"		1/4"	
Fluid					Compressed air			
Acting					Double acting			
Operating pressure range					1.0 ~ 9 kgf/cm²			
Max operating pressure					9.5 kgf/cm²			
Barrel material					Aluminum alloy			
Magnet					Option			
Cushion					Cushion Plate			
Ambient temperature					-5°C ~ 60°C			
Piston speed					50 ~ 700mm/Sec			
Double acting mm/Sec.					50~500			
Single acting mm/Sec.					100~500			

Dimensions

JQ Standard double acting (Ø12 ~Ø25)



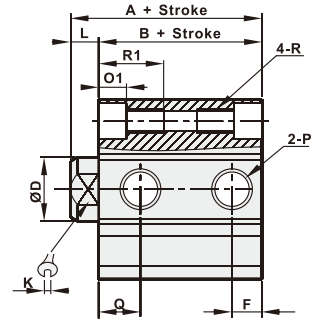
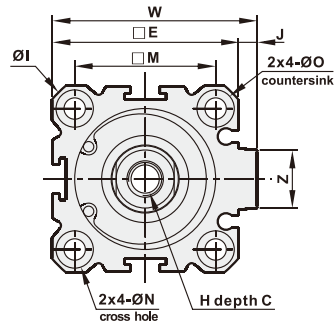
Piston rod with male thread



(Unit: mm)

Bore size	B1	C1	H1	L1	MM	X
Ø12	8	9	4	14	M5xP0.8	10.5
Ø16	10	10	5	15.5	M6xP1	12
Ø20	13	12	5	18.5	M8xP1.25	14
Ø25	17	15	6	22.5	M10xP1.25	17.5
Ø32	22	20.5	8	28.5	M14xP1.5	23.5
Ø40	22	20.5	8	28.5	M14xP1.5	23.5
Ø50	26	26	11	33.5	M18xP1.5	28.5
Ø63	26	26	11	36.5	M18xP1.5	28.5

JQ Standard double acting (Ø32 ~Ø63)



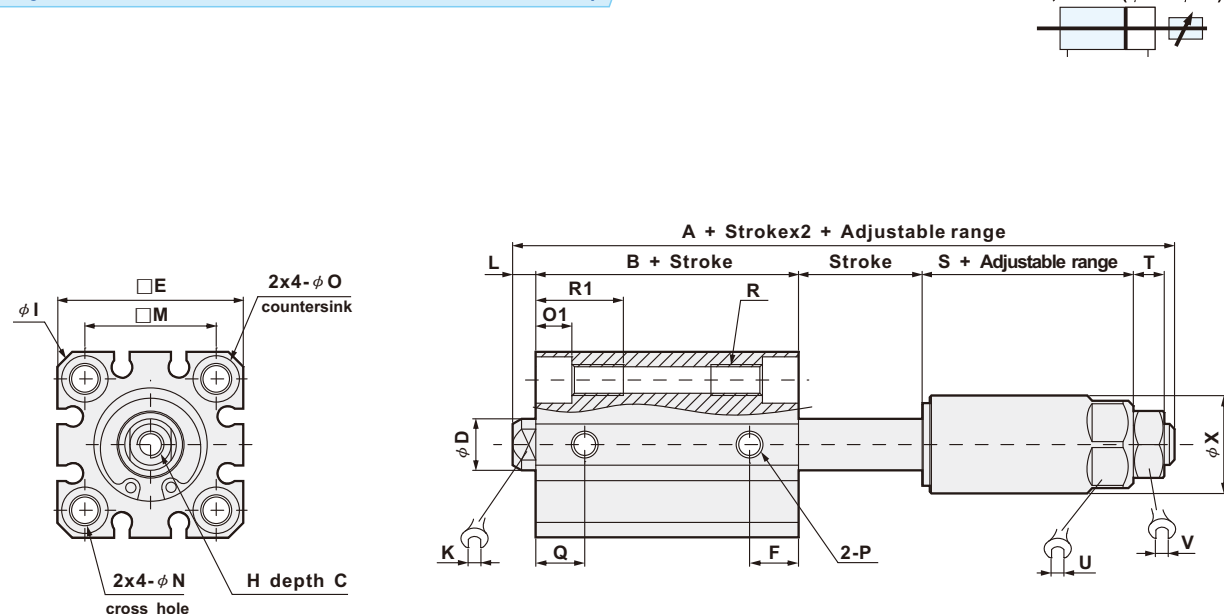
(Unit: mm)

Bore size	Stroke	Without magnet					W/I magnet					C	D	E
		A	B	F	P	Q	A	B	F	P	Q			
Ø12	5~30	20.5	17	5	M5xP0.8	7.5	30.5	27	5	M5xP0.8	7.5	6	6	25
Ø16	5~30	22	18.5	5.5	M5xP0.8	8	32	28.5	5.5	M5xP0.8	8	8	8	29
Ø20	5~50	24	19.5	5.2	M5xP0.8	9	34	29.5	5.2	M5xP0.8	9	10	10	36
Ø25	5~50	27.5	22.5	5.5	M5xP0.8	11	37.5	32.5	5.5	M5xP0.8	11	12	12	40
Ø32	5													
	10~50	30	23	7.5	Rc1/8	10.5	40	33	7.5	Rc1/8	10.5	13	16	45
Ø40	75~100													
	5~50	36.5	29.5	8	Rc1/8	11	46.5	39.5	8	Rc1/8	11	13	16	52
Ø50	75~100	46.5	39.5											
	10~50	38.7	30.7	10.5	Rc1/4	10.5	48.7	40.7	10.5	Rc1/4	10.5	15	20	64
Ø63	75~100													
	10~50	44	36	10.5	Rc1/4	15	54	46	10.5	Rc1/4	15	15	20	77
Ø63	75~100	54	46											
Bore size	H	I	J	K	L	M	N	O	O1	R	R1	W	Z	
Ø12	M3xP0.5	32	-	5	3.5	15.5	3.5	Ø6.5	4.5	M4xP0.7	7	-	-	
Ø16	M4xP0.7	38	-	6	3.5	20	3.5	Ø6.5	4.4	M4xP0.7	7	-	-	
Ø20	M5xP0.8	47	-	8	4.5	25.5	5.15	Ø9	7	M6xP1.0	17	-	-	
Ø25	M6xP1.0	52	-	10	5	28	5.15	Ø9	7	M6xP1.0	17	-	-	
Ø32	M8xP1.25	59.1	4.5	14	7	34	5.15	Ø9	7	M6xP1.0	17	49.5	14	
Ø40	M8xP1.25	68.6	5	14	7	40	5.15	Ø9	7	M6xP1.0	17	57	14	
Ø50	M10xP1.5	84.8	7	17	8	50	6.8	Ø11	8	M8xP1.25	22	71	19	
Ø63	M10xP1.5	101.9	7	17	8	60	8.6	Ø14	10.5	M10xP1.5	28.5	84	19	

■ Dimensions

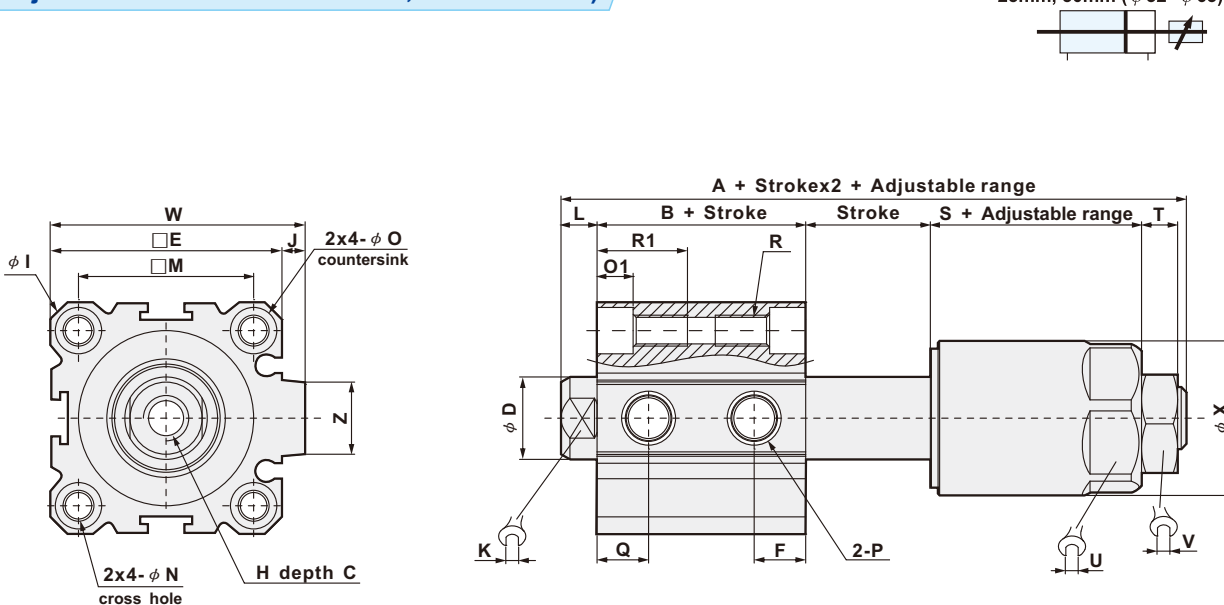
JQA, JQB Stroke adjustable type (φ 20~φ 25)
(Adjustable stroke: JQA 0~25mm, JQB 0~63mm)

JQA, JQB: Stroke adjustable
25mm, 50mm (φ 12~φ 25)



JQA, JQB Stroke adjustable type (φ 32~φ 63)
(Adjustable stroke: JQA 0~25mm, JQB 0~63mm)

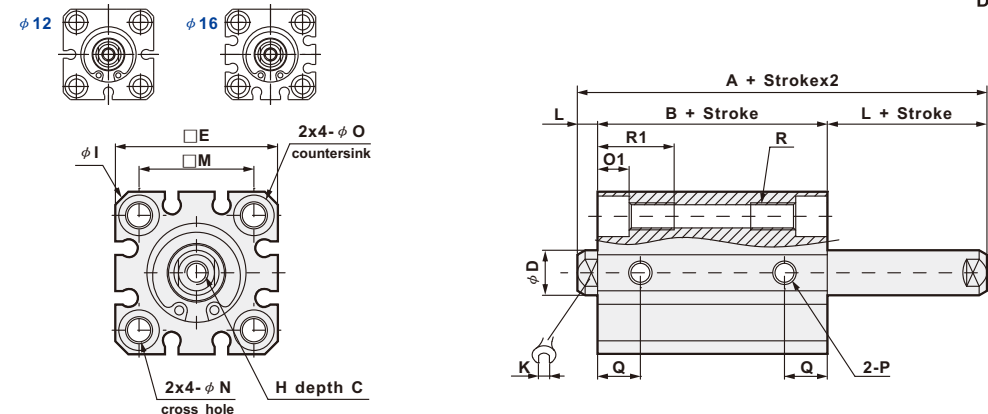
JQA, JQB: Stroke adjustable
25mm, 50mm (φ 32~φ 63)



■ Dimensions

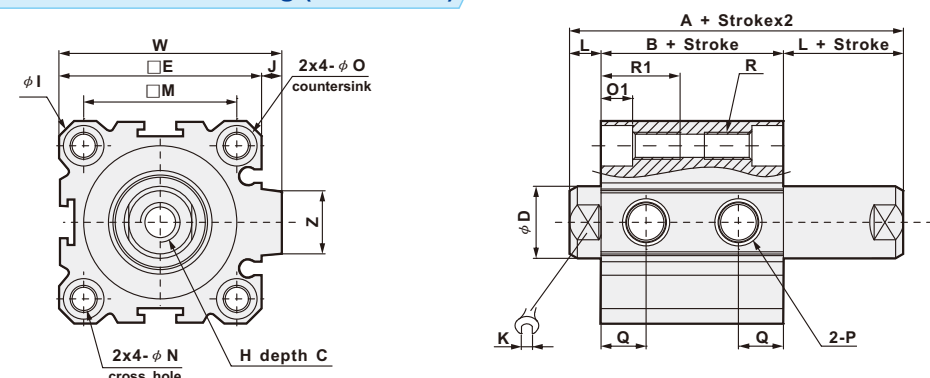
JQD Double rod/Double acting (φ 20 ~ φ 25)

JQD: Double rod/
Double acting (φ 12~φ 25)



JQD Double rod/Double acting (φ 32 ~ φ 63)

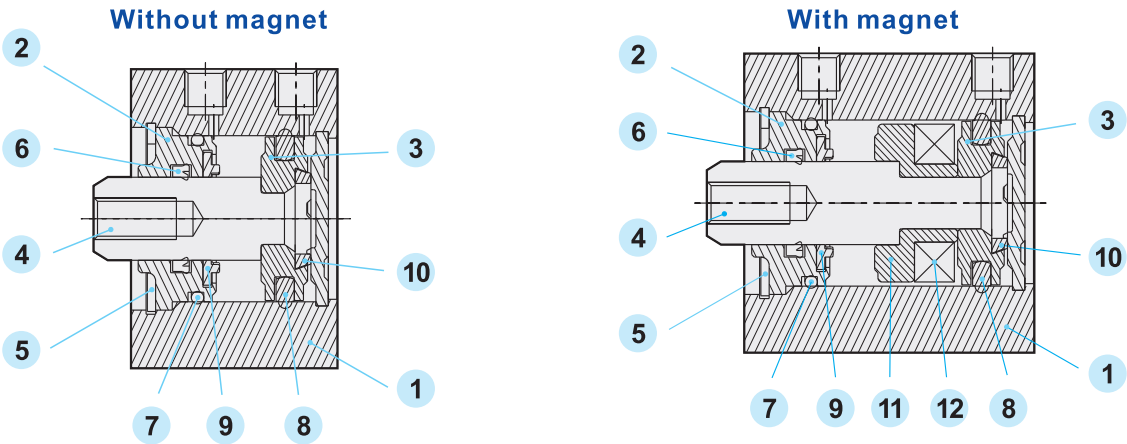
JQD: Double rod/
Double acting (φ 32~φ 63)



Bore size	Stroke	Without magnet				W/I magnet				(Unit: mm)		
		A	B	P	Q	A	B	P	Q	C	D	E
φ 12	5~30	32.5	25.2	M5xP0.8	10.5	39.4	32.4	M5xP0.8	10.5	6	6	25
φ 16	5~30	33	26	M5xP0.8	10	43	36	M5xP0.8	10	8	8	29
φ 20	5~50	35	26	M5xP0.8	9.5	45	36	M5xP0.8	9.5	7	10	36
φ 25	5~50	39	29	M5xP0.8	11	49	39	M5xP0.8	11	12	12	40
φ 32	5~100	44.5	30.5	Rc1/8	10	54.5	40.5	Rc1/8	10	13	16	45
φ 40	5~100	54	40	Rc1/8	13	64	50	Rc1/8	13	13	16	52
φ 50	5~100	56.5	40.5	Rc1/4	14	66.5	50.5	Rc1/4	14	15	20	64
φ 63	5~100	58	42	Rc1/4	15.5	68	52	Rc1/4	15.5	15	20	77

Bore size	H	I	J	K	L	M	N	O	O1	R	R1	S	T	U	V	W	X	Z
φ 12	M3xP0.5	32	-	5	3.5	15.5	3.5	φ 6.5	4.5	M4xP0.7	11.5	12	4	13	8	-	φ 15	-
φ 16	M4xP0.7	38	-	6	3.5	20	3.5	φ 6.5	4.5	M4xP0.7	11.5	12	5	13	10	-	φ 15	-
φ 20	M5xP0.8	47	-	8	4.5	25.5	5.15	φ 9	7	M6xP1.0	17	16	6	17	13	-	φ 19	-
φ 25	M6xP1.0	52	-	10	5	28	5.15	φ 9	7	M6xP1.0	17	16	6	22	17	-	φ 25	-
φ 32	M8xP1.25	59.1	4.5	14	7	34	5.15	φ 9	7	M6xP1.0	17	16	7	27	19	49.5	φ 30	14
φ 40	M8xP1.25	68.6	5	14	7	40	5.1	φ 9	7	M6xP1.0	17	16	7	27	19	57	φ 30	14
φ 50	M10xP1.5	84.8	7	17	8	50	6.8	φ 11	8	M8xP1.25	22	21	8	36	22	71	φ 40	19
φ 63	M10xP1.5	101.9	7	17	7	60	8.6	φ 14	10.5	M10xP1.5	28.5	21	8	36	24	84	φ 40	19

Material of parts



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

No.	Description	Material	Qty.
7	O-ring for front cover	NBR	1
8	U-Piston seal	NBR	1
9	Cushion Plate	NBR	1
10	Cushion Plate	NBR	1
11	Magnet Holder	Aluminum alloy	1
12	Magnet	Rubber magnet	1

How to order Repair kit

Repair kit for JQ Cylinder	Bore size
ZGJQ (JQ)	12 : ϕ 12 32 : ϕ 32
ZGJQB (JQD. JQA. JQB)	16 : ϕ 16 40 : ϕ 40
	20 : ϕ 20 50 : ϕ 50
	25 : ϕ 25 63 : ϕ 63

Repair kit :

ZGJQ		ZGJQB	
Description	Qty.	Description	Qty.
Rod seal	1	Rod seal	2
O-ring for front cover	1	O-ring for front cover	2
U-Piston seal	1	U-Piston seal	1

Stroke table

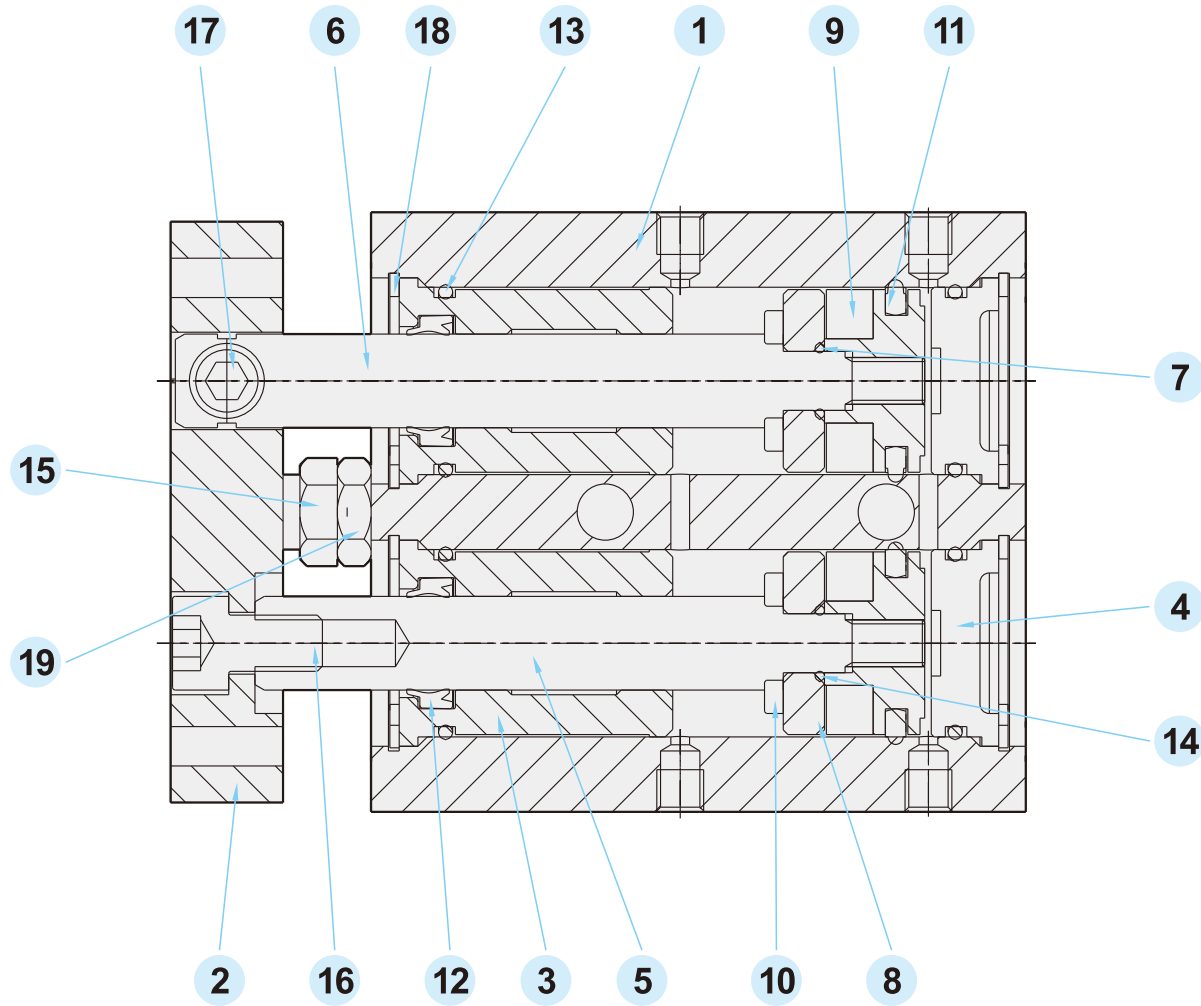
Bore size		Acting	Stroke table	Mzx. Stroke
			(Unit: mm)	
ϕ 12~ ϕ 16		Double acting (W/O magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60	60
		Double acting (W/I magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	50
ϕ 20~ ϕ 40		Double acting (W/O magnet)	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 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
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
ϕ 63		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

※Please contact our sales for non-standard stroke.

Memo..



Material of parts



No.	Description	Material	Qty.	No.	Description	Material	Qty.
1	Barrel	Aluminum alloy	1	11	Piston seal	NBR	2
2	Rod cover	Aluminum alloy	1	12	Rod seal	NBR	2
3	Front cover	Aluminum alloy	2	13	O-ring 1	NBR	4
4	Resr cover	Aluminum alloy	2	14	O-ring 2	NBR	2
5	Piston rod	Carbon steel+Cr	1	15	Stroke aligning screw	Fe/Ni+NBR	1
6	Piston rodA	Carbon steel+Cr	1	16	Hex. Scerw	Fe/Ni	1
7	Piston A	Aluminum alloy	2	17	Hex. Scerw	Fe/Ni	1
8	Piston B	Aluminum alloy	2	18	C type clip	Fe/Ni	4
9	Magnet	Rubber magnet	2	19	Hex.mounting nut(M6)	Fe/Ni	1
10	Cushion seal	NBR	2				

Theoretical force

Bore size	ϕ 10		ϕ 16		ϕ 20		ϕ 25		ϕ 32		
Rod diameter	ϕ 6		ϕ 8		ϕ 10		ϕ 12		ϕ 16		
Acting(N)	Double acting										
	Push	Pull	Push	Pull	Push	Pull	Push	Pull	Push	Pull	
Piston area mm²	157	101	402	302	628	471	982	756	1608	1206	
Operating pressure (kgf/cm²)	1	15.4	9.9	39.4	29.6	61.6	64.2	96.3	74.2	8	8
	2	30.8	19.8	78.9	59.3	123.2	92.4	192.7	148.3	16	13
	3	46.2	29.7	118.3	88.9	184.8	138.6	289	222.5	24	20
	4	61.6	39.6	157.7	118.5	246.4	184.8	385.3	296.7	32	27
	5	77	49.5	197.2	148.1	308	231	481.7	370.8	40	34
	6	92.4	59.4	236.6	177.8	369.6	277.2	578	445	48	47
	7	107.8	69.4	276.1	207.4	431.2	323.4	674.3	519.1	56	48
	8	123.2	79.3	315.5	237	492.9	369.6	770.7	593.3	64	55

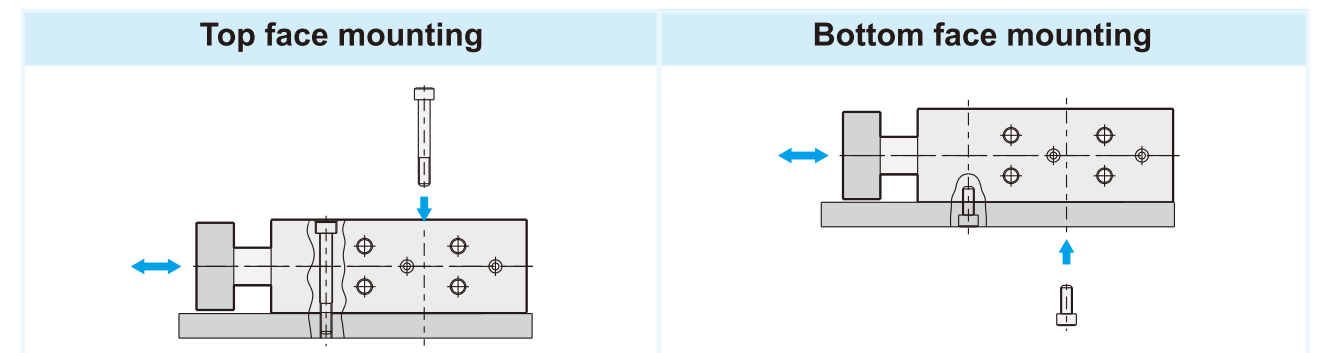
Stroke table

DR Standard type

Bore size	Acting	Standard stroke(mm)	Producible stroke(mm)	Max. stroke(mm)
$\phi 10$	Double acting	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75	80,90,100	150
$\phi 16$		10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75 80, 90, 100	125,150	200
$\phi 20$				
$\phi 25$				
$\phi 32$				

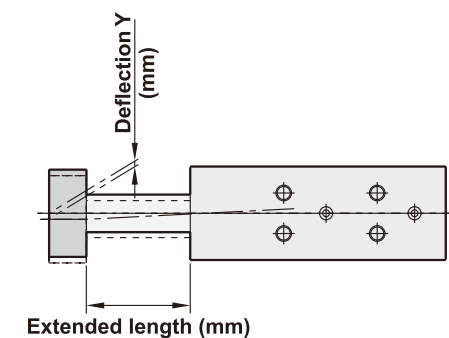
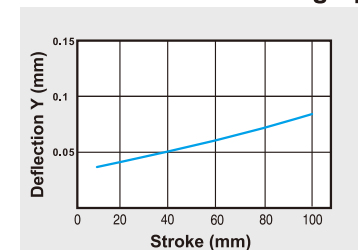
Note: Please contact our sales for non-standard stroke.

Mounting example



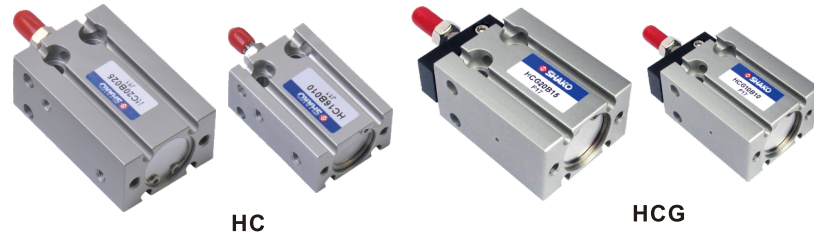
Deflection at the plated end

An approximate plate-end deflection Y without a load is shown in the graph below



■ 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.



■ How to order

HC	10	B	5	SR	D	1
Type	Bore size	Magnet	Stroke	Sensor	Type	Number of sensor
HC:Free mounted cylinder	10:Ø10	B:W/I magnet	5:5mm	Black:W/O sensor	Blank:Reed switch	1 pc
HCG:Non-Rotation	16:Ø16	C:W/O magnet	10:10mm	SR:Round type	D:NPN	2 pcs
	20:Ø20		15:15mm	SU:Square type	E:PNP	
	25:Ø25		20:20mm			

*Please use stainless setting bolts for magnet type cylinder to mount.

*Sensor please refer to P3-191,P3-193

■ Stroke table

Bore size	Acting	Stroke table (mm)
Ø10	Double acting	5, 10, 15, 20, 25, 30
Ø16		
Ø20		5, 10, 15, 20, 25, 30, 40, 50
Ø25		

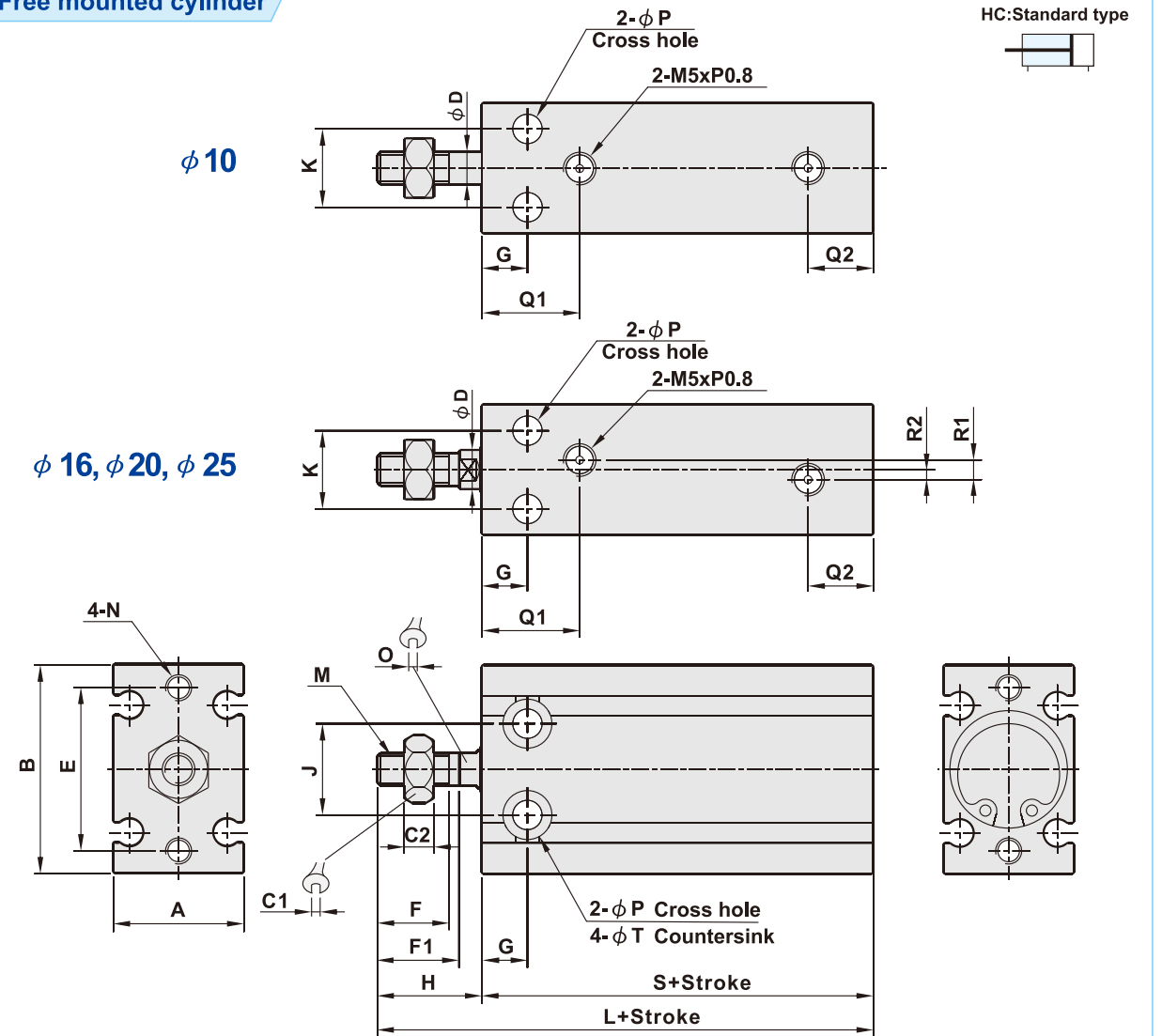
*Please contact our sales for non-standard stroke.

■ Specifications

Bore size	Ø10	Ø16	Ø20	Ø25
Port size	M5 x P0.8			
Fluid	Compressed air			
Acting	Double acting			
Operating pressure range	1 ~ 8 kgf/cm ² (0.1~0.8MPa)			
Proof pressure	10 kgf/cm ² (1.0MPa)			
Barrel material	Aluminum alloy			
Cushion	Rubber			
Magnet	Option			
Ambient temperature	-5°C ~ 60°C			
Piston speed	50 ~ 700mm/Sec.			

■ Dimensions

HC Free mounted cylinder

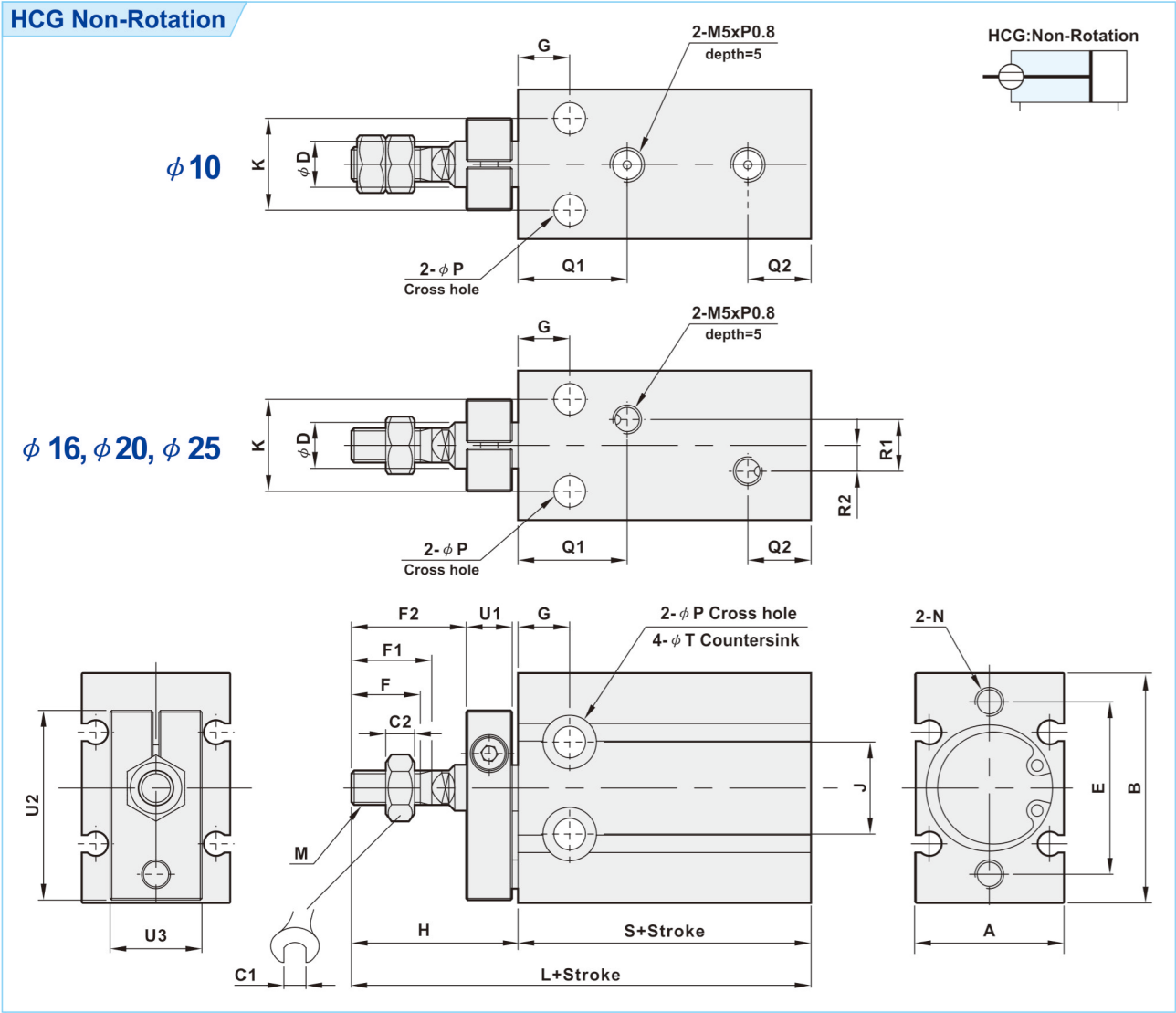


(Unit: mm)													
Bore size	A	B	C1	C2	D	E	F	F1	G	H	J	K	
φ 10	15	24	7	2.4	4	18	10	—	7	16	11	9	
φ 16	20	32	8	4	6	25	11	12.5	7	16	14	12	
φ 20	26	40	10	5	8	30	12	14	9	19	16	16	
φ 25	32	50	13	5	10	38	15.5	18	10	23	20	20	

Bore size	M	N	O	P	Q1	Q2	R1	R2	T	W/O magnet		W/I magnet	
										S	L	S	L
φ 10	M4xP0.7	M3xP0.5deep5.0	---	3.2	16.5	10	---	---	φ 6.0deep5	36	52	46	62
φ 16	M5xP0.8	M4xP0.7deep6.0	5	4.5	15.5	10.5	3	1.5	φ 7.6deep6.5	30	46	40	56
φ 20	M6xP1.0	M5xP0.8deep8.0	6	5.5	19	12.5	9	4.5	φ 9.3deep8	36	55	46	65
φ 25	M8xP1.25	M5xP0.8deep8.0	8	5.5	21.5	13.5	9	4.5	φ 9.3deep6.5	40	63	50	73

■ Dimensions

HCG Non-Rotation



(Unit: mm)

Bore size	A	B	C1	C2	D	E	F	F1	F2	G	H	J	K	M	N
φ 10	15	24	7	2.4	4	18	10	—	12	7	21	11	9	M4xP0.7	M3xP0.5 deep 5.0
φ 16	20	32	8	4	6	25	11	12.5	17	7	26	14	12	M5xP0.8	M4xP0.7 deep 6.0
φ 20	26	40	10	5	8	30	12	14	20	9	29	16	16	M6xP1.0	M5xP0.8 deep 8.0
φ 25	32	50	13	5	10	38	15.5	18	22	10	33	20	20	M8xP1.25	M5xP0.8 deep 8.0

Bore size	O	P	Q1	Q2	R1	R2	T	W/O magnet		W/I magnet		U1	U2	U3
								S	L	S	L			
φ 10	---	3.2	16.5	10	---	---	φ 6.0deep5	36	57	36	57	8	22	12
φ 16	5	4.5	15.5	10.5	3	1.5	φ 7.6deep6.5	30	56	40	66	8	28	13
φ 20	6	5.5	19	12.5	9	4.5	φ 9.3deep8	36	65	46	75	8	33	16
φ 25	8	5.5	21.5	13.5	9	4.5	φ 9.3deep6.5	40	73	50	83	10	43.5	20

Memo..

