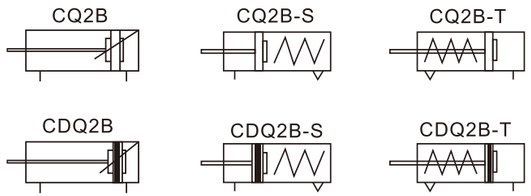
CQ2 Series Compact Cylinder







Ordering Code

CQ2 Series Compact Cylinder

C□Q2 — Magnet
- Nil: Without magnet
- D: With magnet

B — Mounting
- B: Through-hole
- A: Both ends tapped
- LB: Foot
- FA/FB: Rod flange
- CB: Double clevis

20 — Bore
- Double acting: 12 to 200mm
- Single acting: 12 to 50mm

30 — Stroke

□ — Acting
- Nil: Double acting
- S: Single acting spring extend
- T: Single acting spring return

M — Body option
- Nil: Standard (Rod end female thread)
- M: Rod end male thread

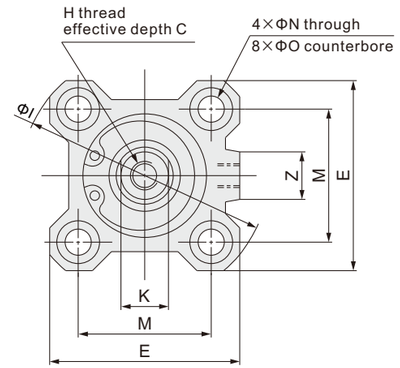
Specifications

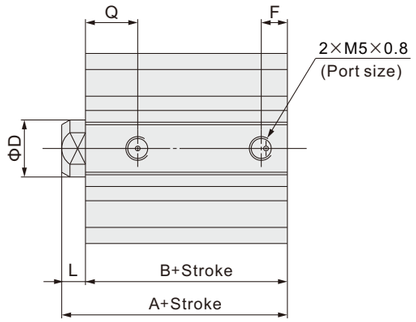
Bore (mm)		12	16	20	25	32	40	50	63	80	100	125	140	160	180	200
Acting type		Double acting single rod/Single acting single rod							Double acting single rod							
Working medium		Clean air (40μm filteration)														
Proof pressure		1.5MPa													1.05MPa	
Max. Working pressure		1.0MPa													0.7MPa	
Min. Working pressure	Double acting single rod	0.07MPa		0.05MPa												
	Single acting single rod	0.25	0.25	0.18	0.18	0.17	0.15	0.13	—							
Working temperature		Without auto switch magnet: -10 to 70℃ With auto switch magnet: -10 to 60℃														
Lubrication		Not required (Non-lube)														
Speed range		50 to 500mm/s													20 to 400mm/s	
Cushion type		Without cushion / Rubber bumper														
Stroke tolerance		+1.0mm 0											+1.4mm 0			

CQ2 Series Compact Cylinder

Main Dimensions Φ12 to Φ25 Without Auto Switch Magnet

Through-hole: CQ2B (Standard Type)

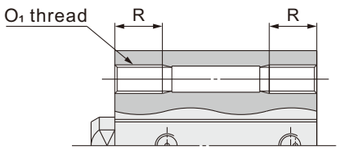




(mm)

Bore	Stroke	A	B	C	D	E	F	H	I	K	L	M	N	O	Q	Z
12	5 to 30	20.5	17	6	6	25	5	M3×0.5	32	5	3.5	15.5	3.5	6.5 depth 3.5	7.5	–
16	5 to 30	22	18.5	8	8	29	5.5	M4×0.7	38	6	3.5	20	3.5	6.5 depth 3.5	8	10
20	5 to 50	24	19.5	7	10	36	5.5	M5×0.8	47	8	4.5	25.5	5.5	9 depth 7	8	10
25	5 to 50	27.5	22.5	12	12	40	5.5	M6×1.0	52	10	5	28	5.5	9 depth 7	9	10

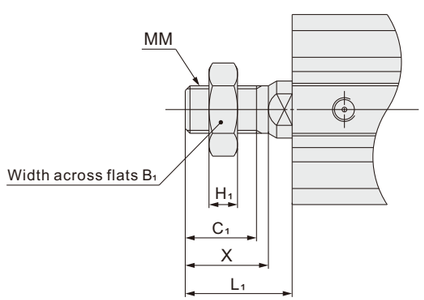
Both ends tapped



(mm)

Bore	O_1	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

Rod end male thread



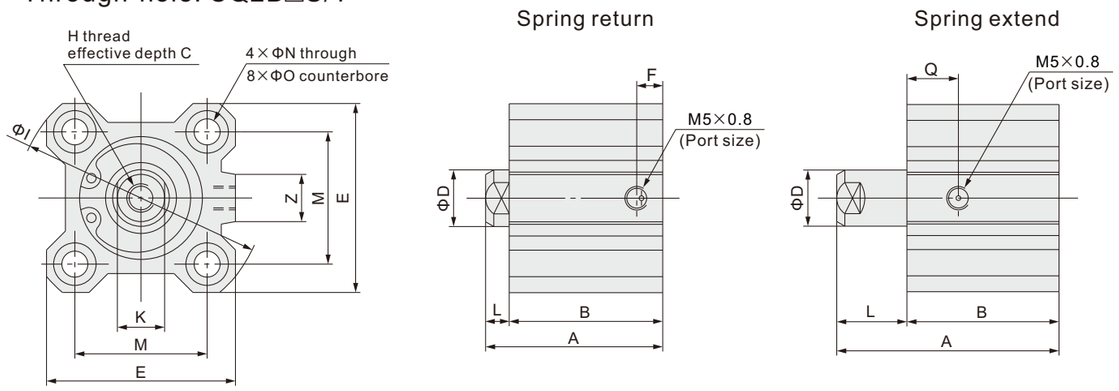
(mm)

Bore	B_1	C_1	H_1	L_1	MM	X
12	8	9	4	14	M5×0.8	10.5
16	10	10	5	15.5	M6×1.0	12
20	13	12	5	18.5	M8×1.25	14
25	17	15	6	22.5	M10×1.25	17.5

CQ2 Series Compact Cylinder

Main Dimensions Φ12 to Φ25 Spring Return/Extend: Without Auto Switch Magnet

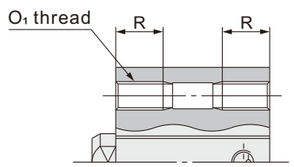
Through-hole: CQ2B□S/T



(mm)

Bore	Stroke	A		B	C	D	E	F	H	I	K	L		M	N	O	Q	Z
		Spring return	Spring extend									Spring return	Spring extend					
12	5	25.5	30.5	22	6	6	25	5	M3×0.5	32	5	3.5	8.5	15.5	3.5	6.5 depth 3.5	7.5	–
	10	30.5	40.5	27									13.5					
16	5	27	32	23.5	8	8	29	5.5	M4×0.7	38	6	3.5	8.5	20	3.5	6.5 depth 3.5	8	10
	10	32	42	28.5									13.5					
20	5	29	34	24.5	7	10	36	5.5	M5×0.8	47	8	4.5	9.5	25.5	5.5	9 depth 7	8	10
	10	34	44	29.5									14.5					
25	5	32.5	37.5	27.5	12	12	40	5.5	M6×1.0	52	10	5	10	28	5.5	9 depth 7	9	10
	10	37.5	47.5	32.5									15					

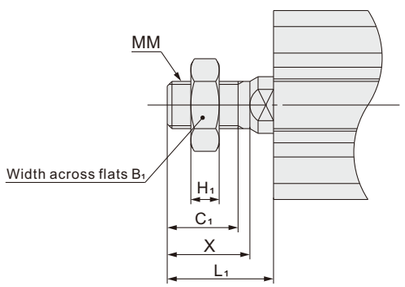
Both ends tapped



(mm)

Bore	O₁	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

Rod end male thread



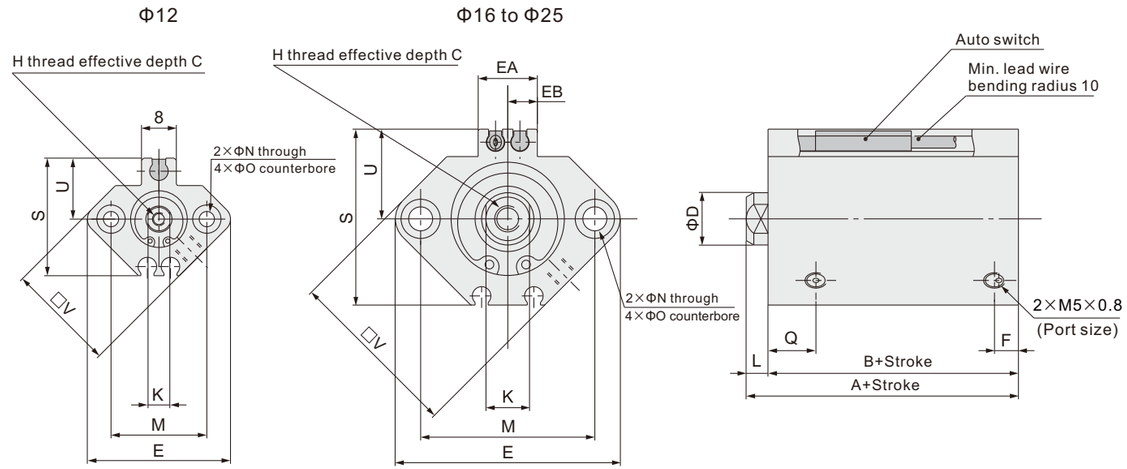
(mm)

Bore	B₁	C₁	H₁	L₁			MM	X
				Spring return	Spring extend 5st	Spring extend 10st		
12	8	9	4	14	19	24	M5×0.8	10.5
16	10	10	5	15.5	20.5	25.5	M6×1.0	12
20	13	12	5	18.5	23.5	28.5	M8×1.25	14
25	17	15	6	22.5	27.5	32.5	M10×1.25	17.5

CQ2 Series Compact Cylinder

Main Dimensions Φ12 to Φ25 With Auto Switch Magnet

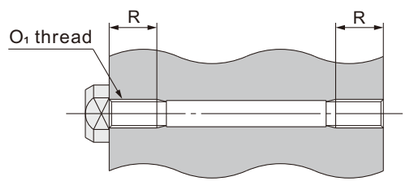
Through-hole: CDQ2B



(mm)

Bore	Stroke	A	B	C	D	E	EA	EB	F	H	K	L	M	N	O	Q	S	U	V
12	5 to 30	31.5	28	6	6	33	–	–	6.5	M3×0.5	5	3.5	22	3.5	6.5 depth 3.5	11	27.5	14	25
16	5 to 30	34	30.5	8	8	37	13.2	6.6	5.5	M4×0.7	6	3.5	28	3.5	6.5 depth 3.5	10	29.5	15	29
20	5 to 50	36	31.5	7	10	47	13.6	6.8	5.5	M5×0.8	8	4.5	36	5.5	9 depth 7	8	35.5	18	36
25	5 to 50	37.5	32.5	12	12	52	13.6	6.8	5.5	M6×1.0	10	5	40	5.5	9 depth 7	9	40.5	21	40

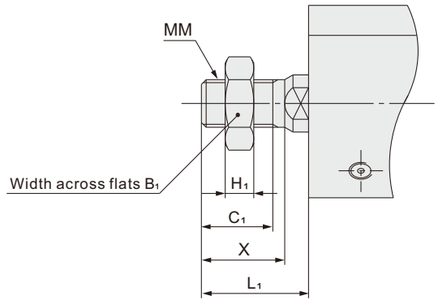
Both ends tapped



(mm)

Bore	O₁	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

Rod end male thread

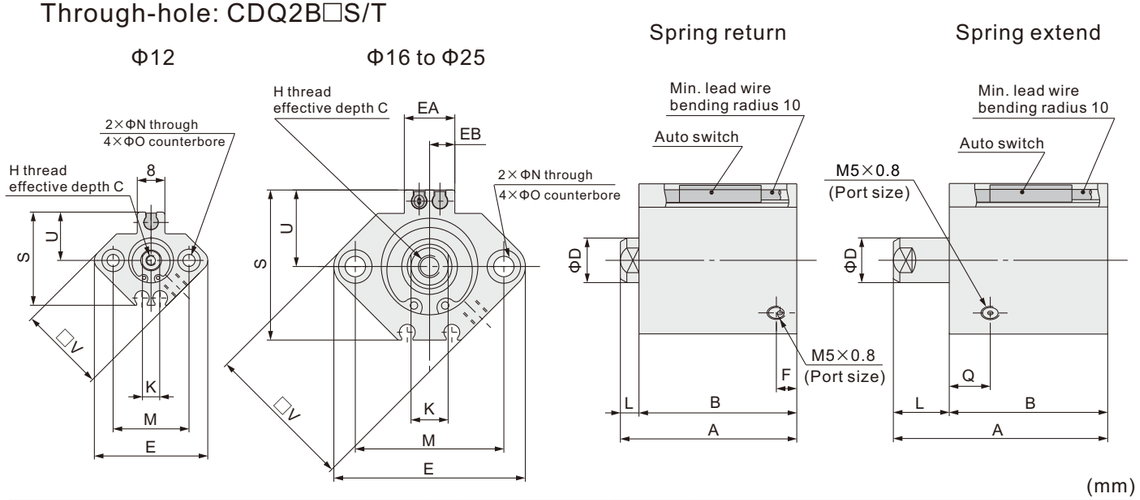


(mm)

Bore	B₁	C₁	H₁	L₁	MM	X
12	8	9	4	14	M5×0.8	10.5
16	10	10	5	15.5	M6×1.0	12
20	13	12	5	18.5	M8×1.25	14
25	17	15	6	22.5	M10×1.25	17.5

CQ2 Series Compact Cylinder

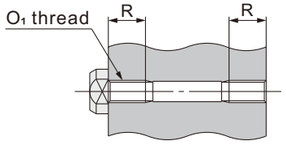
Main Dimensions Φ12 to Φ25 Spring Return/Extend: With Auto Switch Magnet
Through-hole: CDQ2B□S/T



(mm)

Bore	Stroke	A		B		C	D	E	EA	EB	F	H	K	L		M	N	O	Q	S	U	V
		Spring return	Spring extend	Spring return	Spring extend									Spring return	Spring extend							
12	5	36.5	45.9	33	37.4	6	6	33	–	–	6.5	M3×0.5	5	3.5	8.5	22	3.5	6.5 depth 3.5	11	27.5	14	25
	10	41.5	55.9	38	42.4										13.5							
16	5	39	44	35.5	35.5	8	8	37	13.2	6.6	5.5	M4×0.7	6	3.5	8.5	28	3.5	6.5 depth 3.5	10	29.5	15	29
	10	44	54	40.5	40.5										13.5							
20	5	41	46	36.5	36.5	7	10	47	13.6	6.8	5.5	M5×0.8	8	4.5	9.5	36	5.5	9 depth 7	8	35.5	18	36
	10	46	56	41.5	41.5										14.5							
25	5	42.5	47.5	37.5	37.5	12	12	52	13.6	6.8	5.5	M6×1.0	10	5	10	40	5.5	9 depth 7	9	40.5	21	40
	10	47.5	57.5	42.5	42.5										15							

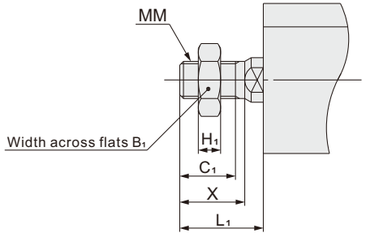
Both ends tapped



(mm)

Bore	O₁	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

Rod end male thread

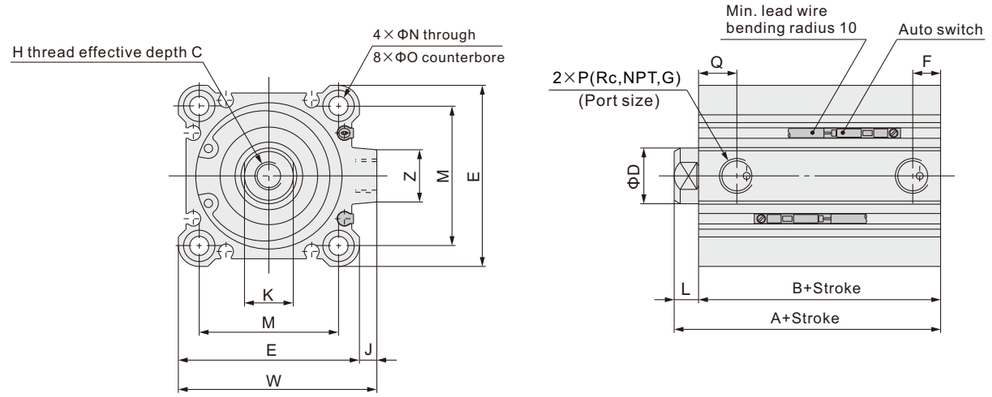


(mm)

Bore	B₁	C₁	H₁	L₁			MM	X
				Spring return	Spring extend 5st	Spring extend 10st		
12	8	9	4	14	19	24	M5×0.8	10.5
16	10	10	5	15.5	20.5	25.5	M6×1.0	12
20	13	12	5	18.5	23.5	28.5	M8×1.25	14
25	17	15	6	22.5	27.5	32.5	M10×1.25	17.5

CQ2 Series Compact Cylinder

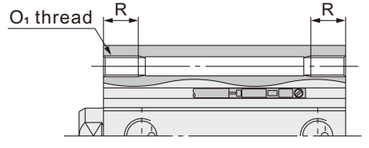
Main Dimensions Φ32 to Φ50 With/Without Auto Switch Magnet
Through-hole: C□Q2B



(mm)

Bore	Stroke	Without auto switch magnet				With auto switch magnet				C	D	E	H	J	K	L	M	N	O	Q	W	Z
		A	B	F	P	A	B	F	P													
32	5	30	23	5.5	M5×0.8	40	33	7.5	1/8	13	16	45	M8×1.25	4.5	14	7	34	5.5	9 depth 7	10	49.5	14
	10 to 50			7.5	1/8																	
	75,100	40	33																			
40	5 to 50	36.5	29.5	7.5	1/8	46.5	39.5	7.5	1/8	13	16	52	M8×1.25	5	14	7	40	5.5	9 depth 7	12.5	57	15
	75,100	46.5	39.5																			
50	10 to 50	38.5	30.5	10.5	1/4	48.5	40.5	10.5	1/4	15	20	64	M10×1.5	7	17	8	50	6.6	11 depth 8	10.5	71	19
	75,100	48.5	40.5																			

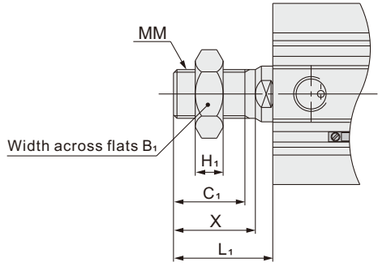
Both ends tapped



(mm)

Bore	O₁	R
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14

Rod end male thread



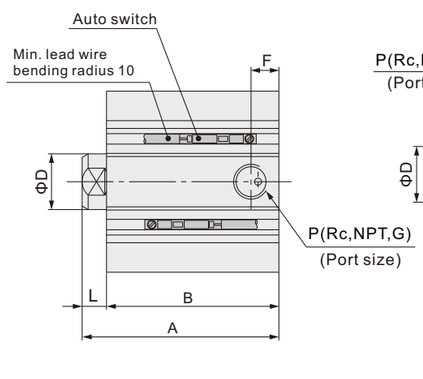
(mm)

Bore	B₁	C₁	H₁	L₁	MM	X
32	22	20.5	8	28.5	M14×1.5	23.5
40	22	20.5	8	28.5	M14×1.5	23.5
50	27	26	11	33.5	M18×1.5	28.5

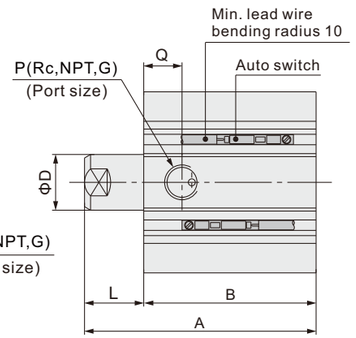
CQ2 Series Compact Cylinder

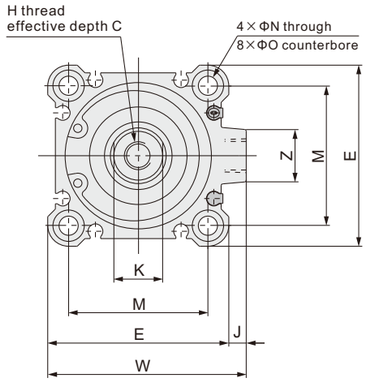
Main Dimensions Φ32 to Φ50 Spring Return/Extend: With/Without Auto Switch Magnet
Through-hole: C□Q2B□S/T

Spring return



Spring extend

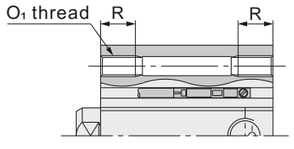




(mm)

Bore	Stroke	Without auto switch magnet A Spring return	Without auto switch magnet A Spring extend	B	F	P	With auto switch magnet A Spring return	With auto switch magnet A Spring extend	B	F	P	C	D	E	H	J	K	L Spring return	L Spring extend	M	N	O	Q	W	Z
32	5	35	40	28	5.5	M5×0.8	45	50	38	7.5	1/8	13	16	45	M8×1.25	4.5	14	7	12	34	5.5	9 depth 7	10	49.5	14
	10	40	50	33	7.5	1/8	50	60	43										17						
40	5	41.5	46.5	34.5	7.5	1/8	51.5	56.5	44.5	7.5	1/8	13	16	52	M8×1.25	5	14	7	12	40	5.5	9 depth 7	12.5	57	15
	10	46.5	56.5	39.5			56.5	66.5	49.5										17						
50	10	48.5	58.5	40.5	10.5	1/4	58.5	68.5	50.5	10.5	1/4	15	20	64	M10×1.5	7	17	8	18	50	6.6	11 depth 8	10.5	71	19
	20	58.5	78.5	50.5			68.5	88.5	60.5										28						

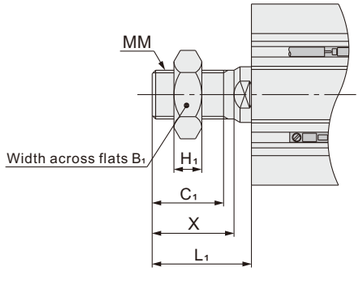
Both ends tapped



(mm)

Bore	O₁	R
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14

Rod end male thread

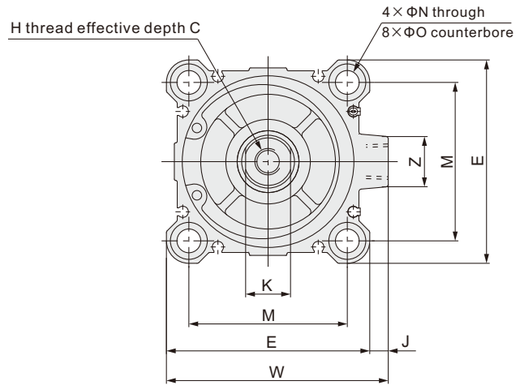


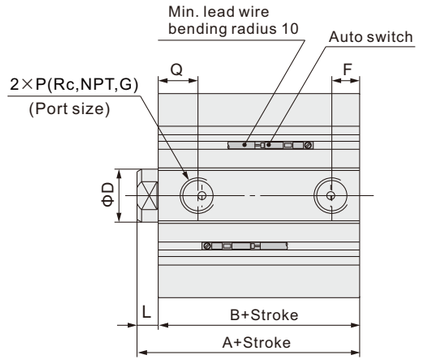
(mm)

Bore	B₁	C₁	H₁	L₁ Spring return	L₁ Spring extend 5st	L₁ Spring extend 10st	L₁ Spring extend 20st	MM	X
32	22	20.5	8	28.5	33.5	38.5	—	M14×1.5	23.5
40	22	20.5	8	28.5	33.5	38.5	—	M14×1.5	23.5
50	27	26	11	33.5	—	43.5	53.5	M18×1.5	28.5

CQ2 Series Compact Cylinder

Main Dimensions Φ63 to Φ100 With/Without Auto Switch Magnet
Through-hole: C□Q2B

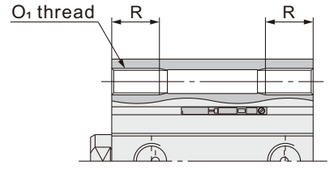




(mm)

Bore	Stroke	Without auto switch magnet A	Without auto switch magnet B	With auto switch magnet A	With auto switch magnet B	C	D	E	F	H	J	K	L	M	N	O	P	Q	W	Z
63	10 to 50	44	36	54	46	15	20	77	10.5	M10×1.5	7	17	8	60	9	14 depth 10.5	1/4	15	84	19
	75,100	54	46																	
80	10 to 50	53.5	43.5	63.5	53.5	21	25	98	12.5	M16×2.0	6	22	10	77	11	17.5 depth 13.5	3/8	16	104	25
	75,100	63.5	53.5																	
100	10 to 50	65	53	75	63	27	30	117	13	M20×2.5	6.5	27	12	94	11	17.5 depth 13.5	3/8	23	123.5	25
	75,100	75	63																	

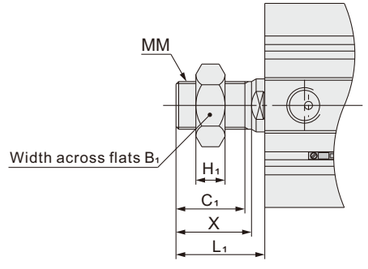
Both ends tapped



(mm)

Bore	O₁	R
63	M10×1.5	18
80	M12×1.75	22
100	M12×1.75	22

Rod end male thread



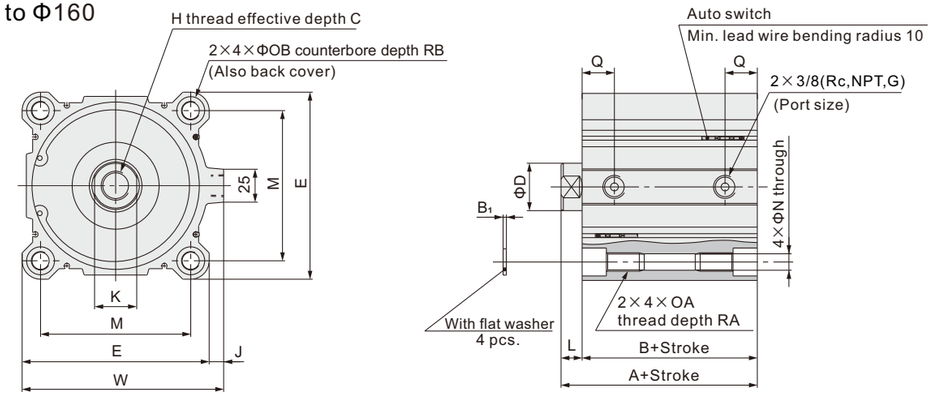
(mm)

Bore	B₁	C₁	H₁	L₁	MM	X
63	27	26	11	33.5	M18×1.5	28.5
80	32	32.5	13	43.5	M22×1.5	35.5
100	41	32.5	16	43.5	M26×1.5	35.5

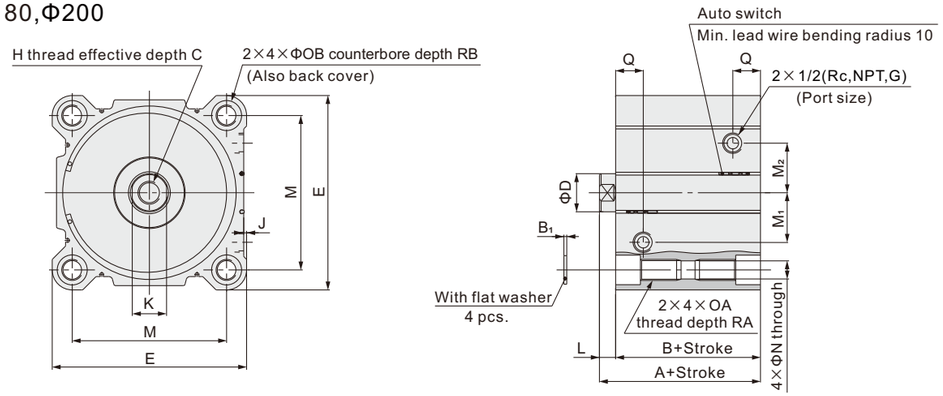
CQ2 Series Compact Cylinder

Main Dimensions Φ125 to Φ200 Through-hole: C□Q2B Double Acting, Single Rod

Φ125 to Φ160



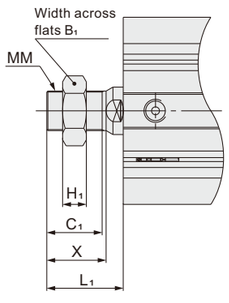
Φ180,Φ200



(mm)

Bore	Standard stroke range	A	B	B_1	C	D	E	H	J	K	L	M	M_1	M_2	N	OA	OB	Q	RA	RB	W
125	10,20,30,40,50, 75,100,125,150, 175,200,250,300	99	83	2.5	30	36	142	M22×2.5	11	32	16	114	–	–	12.5	M14×2	21.2	24.5	25	18.4	153
140		99	83	2.5	30	36	158	M22×2.5	10	32	16	128	–	–	12.5	M14×2	21.2	24.5	25	18.4	168
160		108	91	2.5	33	40	178	M24×3	10	36	17	144	–	–	14.5	M16×2	24.2	27.5	28	21.2	188
180		119	102	3	33	40	204	M24×3	3	36	17	162	52	52	19	M22×2.5	31.5	29	38	26	–
200		126	109	3	33	40	226	M24×3	7.1	36	17	182	62	62	19	M22×2.5	31.5	30	38	26	–

Rod end male thread



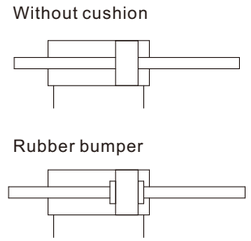
(mm)

Bore	B_1	C_1	H_1	L_1	MM	X
125	46	42	18	58	M30×1.5	45
140	46	42	18	58	M30×1.5	45
160	55	47	21	64	M36×1.5	50
180	55	47	21	64	M36×1.5	50
200	55	47	21	64	M36×1.5	50

CQ2W Series Double Rod Compact Cylinder







Ordering Code CQ2W Series Double Rod Compact Cylinder

C□Q2 — Magnet
Nil: Without magnet
D: With magnet

W — Series code
W: Double rod

B — Mounting
B: Through-hole
A: Both ends tapped
LB: Foot
FA/FB: Flange

20 - 30 — Bore / Stroke

□ — Acting
Nil: Double acting

M — Body option
Nil: Standard
(Rod end female thread)
M: Rod end male thread

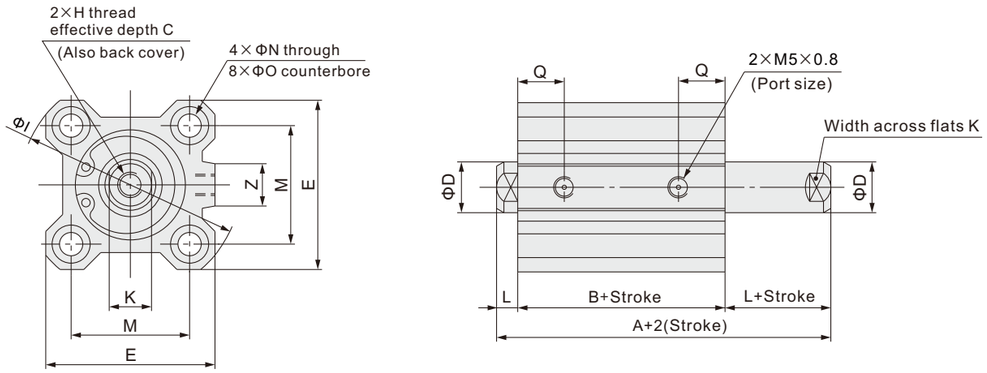
Specifications

Bore (mm)	12	16	20	25	32	40	50	63	80	100	125	140	160	180	200
Acting type	Double acting double rod														
Working medium	Air														
Proof pressure	1.5MPa													1.05MPa	
Max. Working pressure	1.0MPa													0.7MPa	
Min. Working pressure	0.07MPa	0.05MPa													
Working temperature	Without auto switch magnet: -10 to 70℃ With auto switch magnet: -10 to 60℃														
Lubrication	Not required (Non-lube)														
Speed range	50 to 500mm/s													20 to 400mm/s	
Cushion type	Without cushion / Rubber bumper														
Stroke tolerance	+1.0mm 0										+1.4mm 0				

CQ2W Series Double Rod Compact Cylinder

Main Dimensions Φ12 to Φ25 Without Auto Switch Magnet

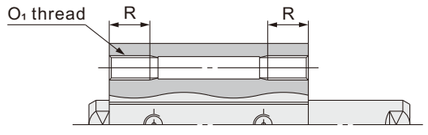
Through-hole: CQ2WB



(mm)

Bore	Stroke	A	B	C	D	E	H	I	K	L	M	N	O	Q	Z
12	5 to 30	32.2	25.2	6	6	25	M3×0.5	32	5	3.5	15.5	3.5	6.5 depth 3.5	10	–
16	5 to 30	33	26	8	8	29	M4×0.7	38	6	3.5	20	3.5	6.5 depth 3.5	10	10
20	5 to 50	35	26	7	10	36	M5×0.8	47	8	4.5	25.5	5.5	9 depth 7	8	10
25	5 to 50	39	29	12	12	40	M6×1.0	52	10	5	28	5.5	9 depth 7	9	10

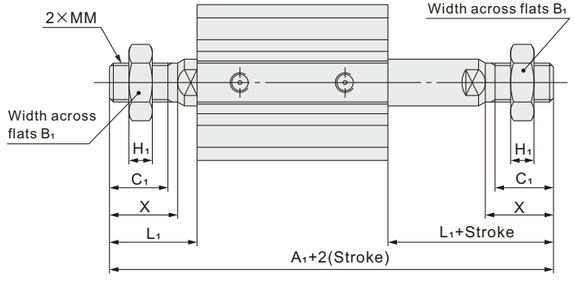
Both ends tapped



(mm)

Bore	O₁	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

Rod end male thread



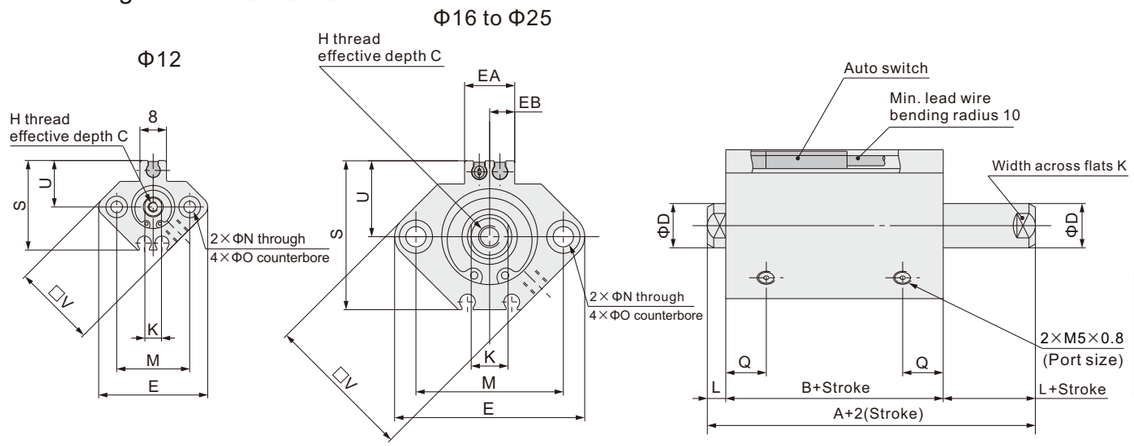
(mm)

Bore	A₁	B₁	C₁	H₁	L₁	MM	X
12	53.2	8	9	4	14	M5×0.8	10.5
16	57	10	10	5	15.5	M6×1.0	12
20	63	13	12	5	18.5	M8×1.25	14
25	74	17	15	6	22.5	M10×1.25	17.5

CQ2W Series Double Rod Compact Cylinder

Main Dimensions Φ12 to Φ25 With Auto Switch Magnet

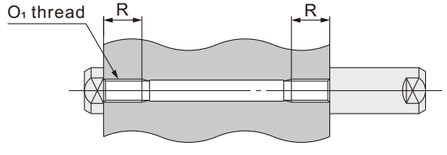
Through-hole:CDQ2WB



(mm)

Bore	Stroke	A	B	C	D	E	EA	EB	H	K	L	M	N	O	Q	S	U	V
12	5 to 30	39.4	32.4	6	6	33	–	–	M3×0.5	5	3.5	22	3.5	6.5 depth 3.5	10.5	27.5	14	25
16	5 to 30	43	36	8	8	37	13.2	6.6	M4×0.7	6	3.5	28	3.5	6.5 depth 3.5	10	29.5	15	29
20	5 to 50	47	38	7	10	47	13.6	6.8	M5×0.8	8	4.5	36	5.5	9 depth 7	8	35.5	18	36
25	5 to 50	49	39	12	12	52	13.6	6.8	M6×1.0	10	5	40	5.5	9 depth 7	9	40.5	21	40

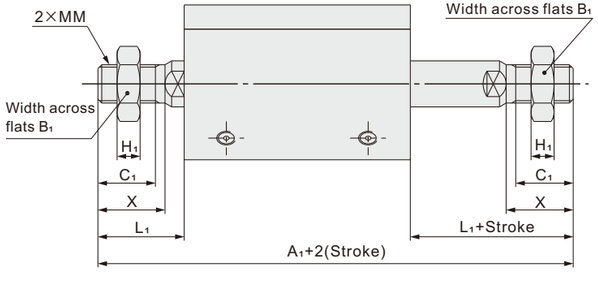
Both ends tapped



(mm)

Bore	O₁	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

Rod end male thread



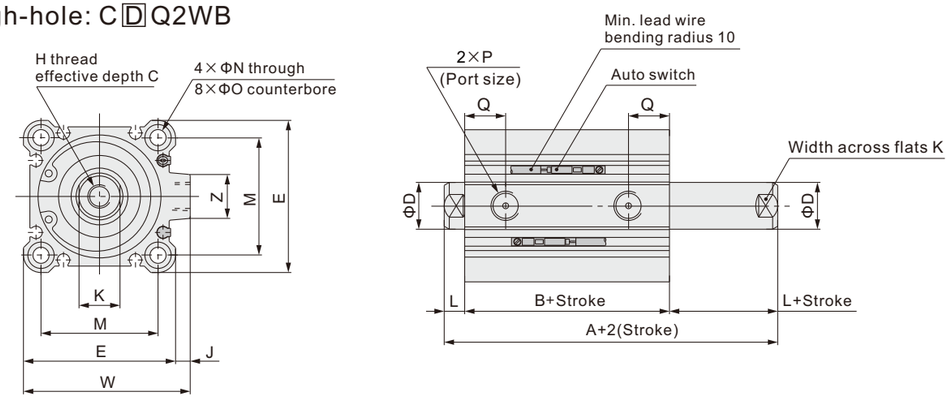
(mm)

Bore	A₁	B₁	C₁	H₁	L₁	MM	X
12	60.4	8	9	4	14	M5×0.8	10.5
16	67	10	10	5	15.5	M6×1.0	12
20	75	13	12	5	18.5	M8×1.25	14
25	84	17	15	6	22.5	M10×1.25	17.5

CQ2W Series Double Rod Compact Cylinder

Main Dimensions Φ32 to Φ50 With/Without Auto Switch Magnet

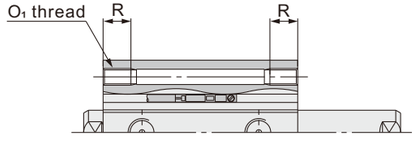
Through-hole: C□Q2WB



(mm)

Bore	Stroke	Without auto switch magnet			With auto switch magnet			C	D	E	H	J	K	L	M	N	O	Q	W	Z
		A	B	P	A	B	P													
32	5	44.5	30.5	M5	54.5	40.5	1/8	13	16	45	M8×1.25	4.5	14	7	34	5.5	9 depth 7	10	49.5	14
	10 to 50			1/8																
	75,100	54.5	40.5																	
40	5 to 50	54	40	1/8	64	50	1/8	13	16	52	M8×1.25	5	14	7	40	5.5	9 depth 7	12.5	57	15
	75,100	64	50																	
50	10 to 50	56.5	40.5	1/4	66.5	50.5	1/4	15	20	64	M10×1.5	7	17	8	50	6.6	11 depth 8	14	71	19
	75,100	66.5	50.5																	

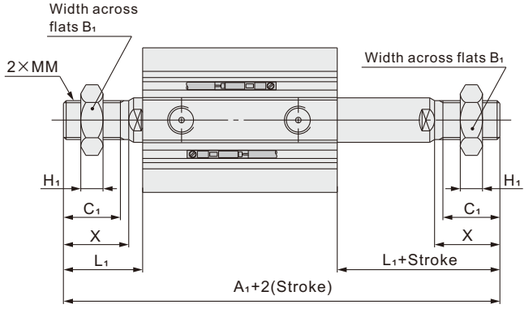
Both ends tapped



(mm)

Bore	O₁	R
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14

Rod end male thread



(mm)

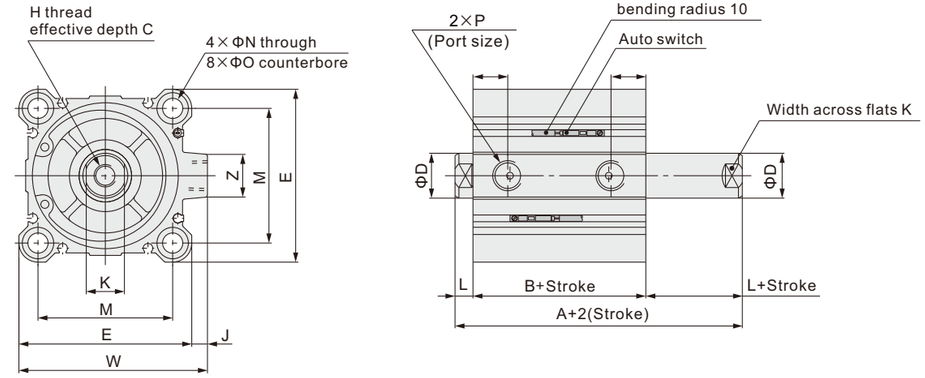
Bore	Stroke	Without auto switch magnet	With auto switch magnet
		A₁	A₁
32	5 to 50	87.5	97.5
	75,100	97.5	
40	5 to 50	97	107
	75,100	107	
50	10 to 50	107.5	117.5
	75,100	117.5	

Bore	B₁	C₁	H₁	L₁	MM	X
32	22	20.5	8	28.5	M14×1.5	23.5
40	22	20.5	8	28.5	M14×1.5	23.5
50	27	26	11	33.5	M18×1.5	28.5

CQ2W Series Double Rod Compact Cylinder

Main Dimensions Φ63 to Φ100 With/Without Auto Switch Magnet

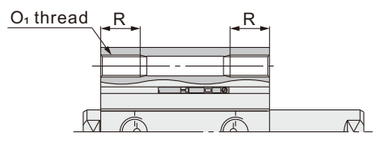
Through-hole: C□Q2WB



(mm)

Bore	Stroke	Without auto switch magnet		With auto switch magnet		C	D	E	H	J	K	L	M	N	O	P	Q	W	Z
		A	B	A	B														
63	10 to 50	58	42	68	52	15	20	77	M10×1.5	7	17	8	60	9	14 depth 10.5	1/4	15.5	84	19
	75,100	68	52																
80	10 to 50	71	51	81	61	21	25	98	M16×2.0	6	22	10	77	11	17.5 depth 13.5	3/8	18	104	25
	75,100	81	61																
100	10 to 50	84.5	60.5	94.5	70.5	27	30	117	M20×2.5	6.5	27	12	94	11	17.5 depth 13.5	3/8	22	123.5	25
	75 to 100	94.5	70.5																

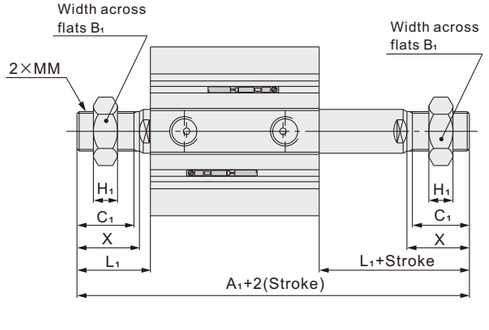
Both ends tapped



(mm)

Bore	O₁	R
63	M10×1.5	18
80	M12×1.75	22
100	M12×1.75	22

Rod end male thread



(mm)

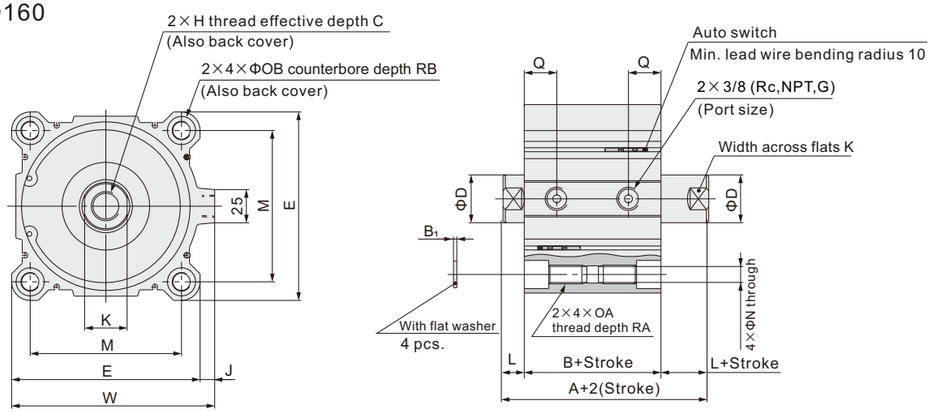
Bore	Stroke	Without auto switch magnet	With auto switch magnet
		A₁	A₁
63	10 to 50	109	119
	75,100	119	
80	10 to 50	138	148
	75,100	148	
100	10 to 50	147.5	157.5
	75,100	157.5	

Bore	B₁	C₁	H₁	L₁	MM	X
63	27	26	11	33.5	M18×1.5	28.5
80	32	32.5	13	43.5	M22×1.5	35.5
100	41	32.5	16	43.5	M26×1.5	35.5

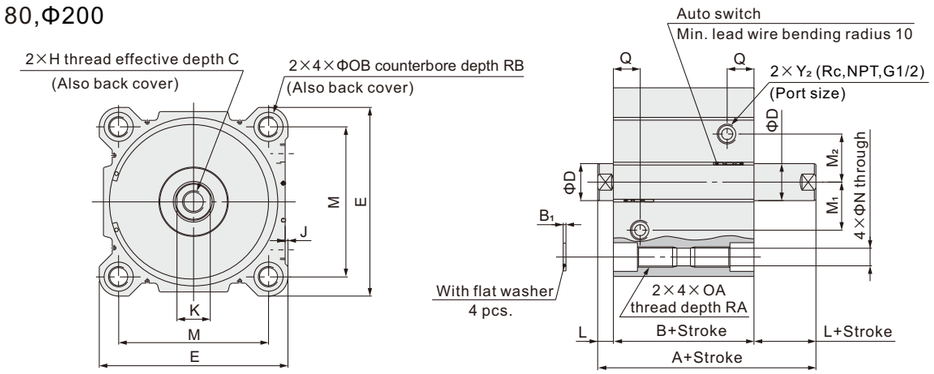
CQ2W Series Double Rod Compact Cylinder

Main Dimensions Φ125 to Φ200 Through-hole: C D Q2WB

Φ125 to Φ160



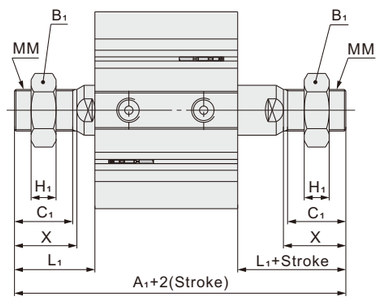
Φ180,Φ200



(mm)

Bore	Standard stroke range	A	B	B1	C	D	E	H	J	K	L	M	M1	M2	N	OA	OB	Q	RA	RB	W
125	10,20,30,40, 50,75,100,125, 150,175,200, 250,300	115	83	2.5	30(22.5)	36	142	M22×2.5	11	32	16	114	–	–	12.5	M14×2	21.2	24.5	25	18.4	153
140		115	83	2.5	30(22.5)	36	158	M22×2.5	10	32	16	128	–	–	12.5	M14×2	21.2	24.5	25	18.4	168
160		125	91	2.5	33(26.5)	40	178	M24×3	10	36	17	144	–	–	14.5	M16×2	24.2	27.5	28	21.2	188
180		136	102	3	33	40	204	M24×3	3	36	17	162	52	52	19	M22×2.5	31.5	29	38	26	–
200		143	109	3	33	40	226	M24×3	7.1	36	17	182	62	62	19	M22×2.5	31.5	30	38	26	–

Rod end male thread



(mm)

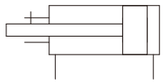
Bore	A1	B1	C1	H1	L1	MM	X
125	199	46	42	18	58	M30×1.5	45
140	199	46	42	18	58	M30×1.5	45
160	219	55	47	21	64	M36×1.5	50
180	230	55	47	21	64	M36×1.5	50
200	237	55	47	21	64	M36×1.5	50

CQ2KW Series Non-rotating Rod Compact Cylinder

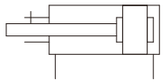




Without cushion



Rubber bumper



Ordering Code

CQ2KW Series Non-rotating Rod Compact Cylinder

C□Q2 — KW — B — 20 - 30 — □ — M

- C□Q2 — Magnet
  - Nil: Without magnet
  - D: With magnet
- KW — Series code
  - K: Non-rotating rod
  - KW: Non-rotating rod double acting, double Rod
- B — Mounting*
  - B: Through-hole
  - A: Both ends tapped
  - LB: Foot
  - FA/FB: Rod flange
  - CB: Double clevis
- 20 — Bore
- 30 — Stroke
- □ — Acting
  - Nil: Double acting
- M — Body option
  - Nil: Standard (Rod end female thread)
  - M: Rod end male thread

* CQ2KW only Φ40 to Φ63 supports mounting type options other than through-hole.

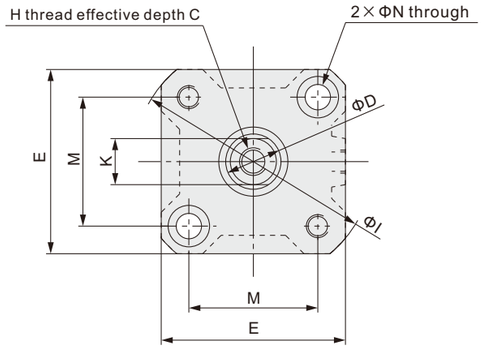
Specifications

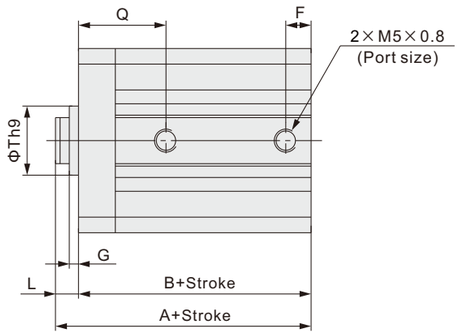
Bore (mm)	12	16	20	25	32	40	50	63
Acting type	Double acting single rod/Double acting double rod							
Working medium	Air							
Proof pressure	1.5MPa							
Max. Working pressure	1.0MPa							
Min. Working pressure	0.07MPa	0.05MPa						
Working temperature	Without auto switch magnet: -10 to 70℃							
Lubrication	Not required (Non-lube)							
Speed range	50 to 500mm/s							
Cushion type	Without cushion or with rubber bumper (Φ12 only)							
Stroke tolerance	+1.0mm							
Rod non-rotating accuracy	±2°	±1°			±0.8°			

CQ2KW Series Non-rotating Rod Compact Cylinder

Main Dimensions Φ12 to Φ25 Without Auto Switch Magnet

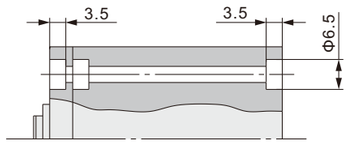
Through-hole: CQ2KB



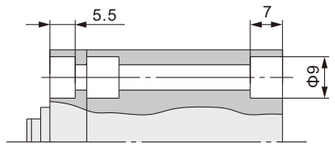


Piston rod cross section

Φ12,Φ16



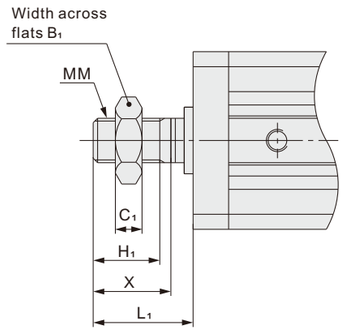
Φ20,Φ25



(mm)

Bore	Stroke	A	B	C	D	E	F	G	H	I	K	L	M	N	Q	Th9
12	5 to 30	25.5	22	6	6	25	5	1.5	M3×0.5	32	5.2	3.5	15.5	3.5	12.5	$15^{0}_{-0.043}$
16	5 to 30	27	23.5	8	8	29	5.5	1.5	M4×0.7	38	6	3.5	20	3.5	13	$20^{0}_{-0.052}$
20	5 to 50	32	27.5	7	10	36	5.5	2	M5×0.8	47	8	4.5	25.5	5.5	16	$13^{0}_{-0.043}$
25	5 to 50	35.5	30.5	12	12	40	5.5	2	M6×1.0	52	10	5	28	5.5	17	$15^{0}_{-0.043}$

Rod end male thread



(mm)

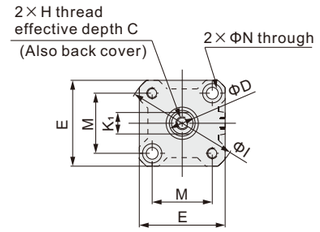
Bore	B_1	C_1	H_1	L_1	MM	X
12	8	9	4	14	M5×0.8	10.5
16	10	10	5	15.5	M6×1.0	12
20	13	12	5	18.5	M8×1.25	14
25	17	15	6	22.5	M10×1.25	17.5

CQ2KW Series Non-rotating Rod Compact Cylinder

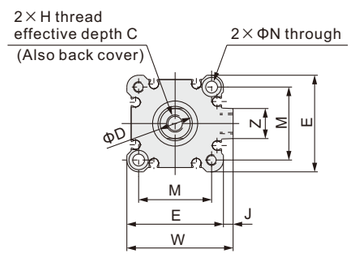
Main Dimension Φ12 to Φ32 Without Auto Switch Magnet

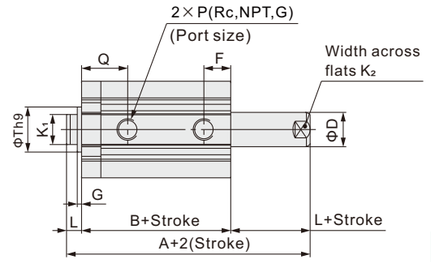
Through-hole: CQ2KWB

Φ12 to Φ25

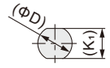


Φ32

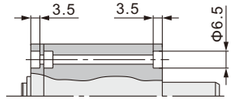




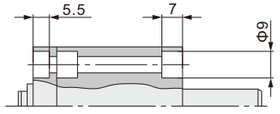
Piston rod cross section



Φ12,Φ16



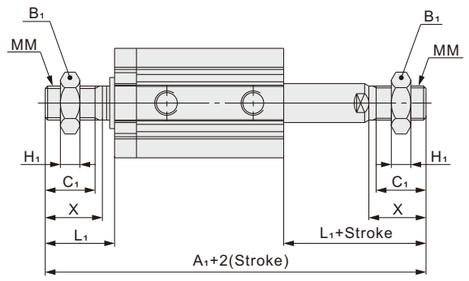
Φ20 to Φ32



(mm)

Bore	Stroke	A	B	C	D	E	F	G	H	I	J	K_1	K_2	L	M	N	P	Q	Th9	W	Z
12	5 to 30	37.2	30.2	6	6	25	10	1.5	M3×0.5	32	–	5.2	5	3.5	15.5	3.5	M5×0.8	15	$15^{0}_{-0.043}$	–	–
16	5 to 30	38	31	8	8	29	10	1.5	M4×0.7	38	–	6	6	3.5	20	3.5	M5×0.8	15	$20^{0}_{-0.052}$	–	–
20	5 to 50	43	34	7	10	36	8	2	M5×0.8	47	–	8	8	4.5	25.5	5.5	M5×0.8	16	$13^{0}_{-0.043}$	–	–
25	5 to 50	47	37	12	12	40	9	2	M6×1.0	52	–	10	10	5	28	5.5	M5×0.8	17	$15^{0}_{-0.043}$	–	–
32	5	53.5	39.5	13	16	45	10	2	M8×1.25	–	4.5	14	14	7	34	5.5	M5×0.8	19	$21^{0}_{-0.052}$	49.5	14
	10 to 50																1/8				
	75,100	63.5	49.5																		

Rod end male thread



(mm)

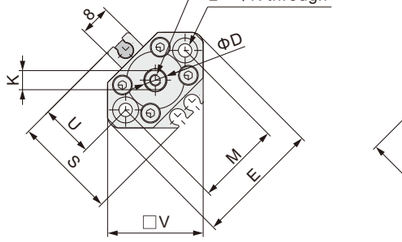
Bore	Stroke	A_1	B_1	C_1	H_1	L_1	MM	X
12	5 to 30	58.2	8	9	4	14	M5×0.8	10.5
16	5 to 30	62	10	10	5	15.5	M6×1.0	12
20	5 to 50	71	13	12	5	18.5	M8×1.25	14
25	5 to 50	82	17	15	6	22.5	M10×1.25	17.5
32	5 to 50	96.5	22	20.5	8	28.5	M14×1.5	23.5
	75,100	106.5						

CQ2KW Series Non-rotating Rod Compact Cylinder

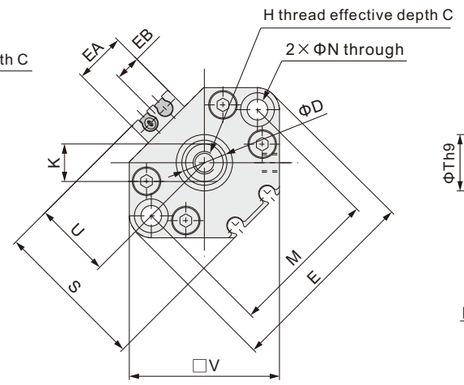
Main Dimensions Φ12 to Φ25 With Auto Switch Magnet

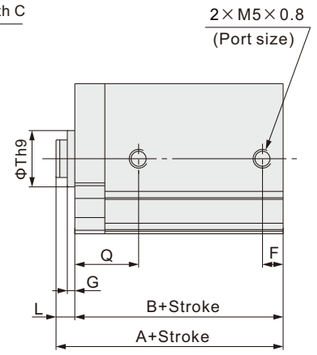
Through-hole: CDQ2KB

Φ12

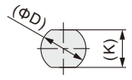


Φ16 to Φ25

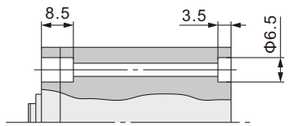




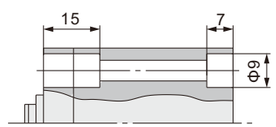
Piston rod cross section



Φ12,Φ16



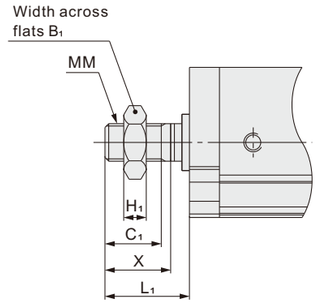
Φ20,Φ25



(mm)

Bore	Stroke	A	B	C	D	E	EA	EB	F	G	H	K	L	M	N	Q	S	Th9	U	V
12	5 to 30	36.5	33	6	6	33	–	–	6.5	1.5	M3×0.5	5.2	3.5	22	3.5	16	27.5	$15^{0}_{-0.043}$	14	25
16	5 to 30	39	35.5	8	8	37	13.2	6.6	5.5	1.5	M4×0.7	6	3.5	28	3.5	15	29.5	$20^{0}_{-0.052}$	15	29
20	5 to 50	44	39.5	7	10	47	13.6	6.8	5.5	2	M5×0.8	8	4.5	36	5.5	16	35.5	$13^{0}_{-0.043}$	18	36
25	5 to 50	45.5	40.5	12	12	52	13.6	6.8	5.5	2	M6×1.0	10	5	40	5.5	17	40.5	$15^{0}_{-0.043}$	21	40

Rod end male thread



(mm)

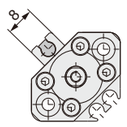
Bore	B_1	C_1	H_1	L_1	MM	X
12	8	9	4	14	M5×0.8	10.5
16	10	10	5	15.5	M6×1.0	12
20	13	12	5	18.5	M8×1.25	14
25	17	15	6	22.5	M10×1.25	17.5

CQ2KW Series Non-rotating Rod Compact Cylinder

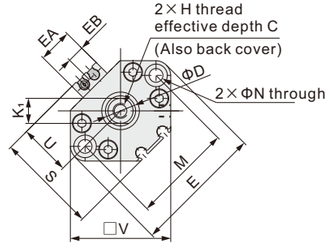
Main Dimensions Φ12 to Φ32 With Auto Switch Magnet

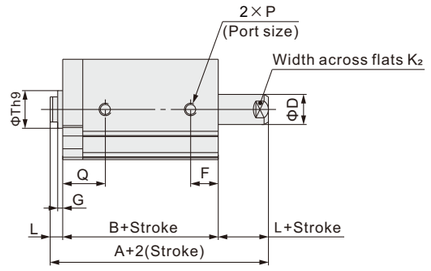
Through-hole: CDQ2KWB

Φ12



Φ16 to Φ25

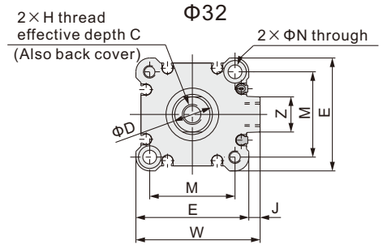


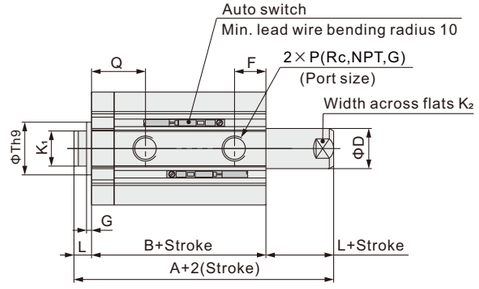


Piston rod cross section

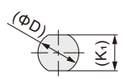


Φ32

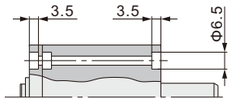




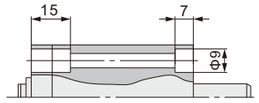
Piston rod cross section



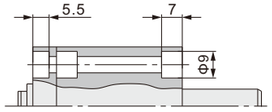
Φ12,Φ16



Φ20,Φ25



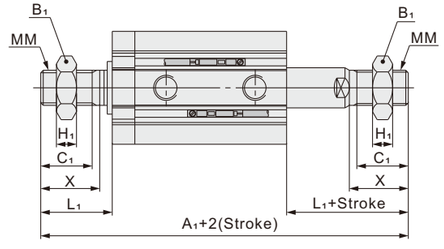
Φ32



(mm)

Bore	Stroke	A	B	C	D	E	EA	EB	F	G	H	J	K_1	K_2	L	M	N	P	Q	S	Th9	U	V	W	Z
12	5 to 30	44.4	37.4	6	6	33	–	–	10.5	1.5	M3×0.5	–	5.2	5	3.5	22	3.5	M5×0.8	15.5	27.5	$15^{0}_{-0.043}$	14	25	–	–
16	5 to 30	48	41	8	8	37	13.2	6.6	10	1.5	M4×0.7	–	6	6	3.5	28	3.5	M5×0.8	15	29.5	$20^{0}_{-0.052}$	15	29	–	–
20	5 to 50	55	46	7	10	47	13.6	6.8	8	2	M5×0.8	–	8	8	4.5	36	5.5	M5×0.8	16	35.5	$13^{0}_{-0.043}$	18	36	–	–
25	5 to 50	57	47	12	12	52	13.6	6.8	9	2	M6×1.0	–	10	10	5	40	5.5	M5×0.8	17	40.5	$15^{0}_{-0.043}$	21	40	–	–
32	5 to 50, 75,100	63.5	49.5	13	16	45	–	–	10	2	M8×1.25	4.5	14	14	7	34	5.5	1/8	19	–	$21^{0}_{-0.052}$	–	–	49.5	14

Rod end male thread

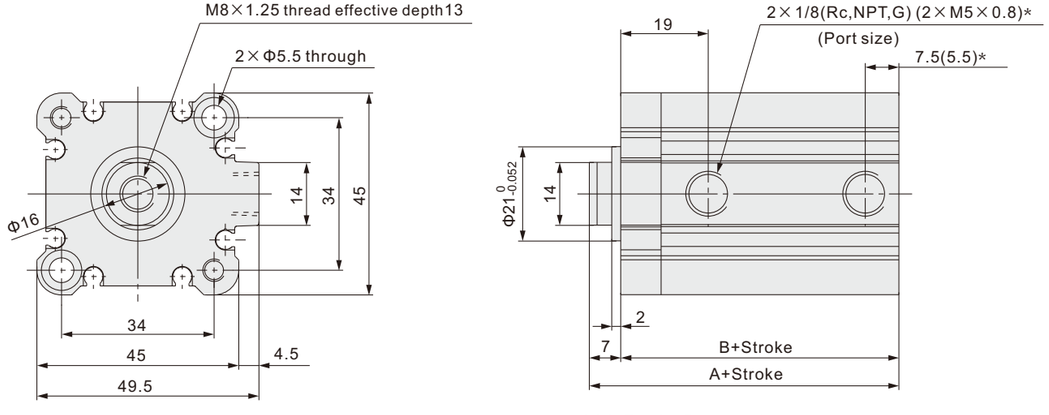


(mm)

Bore	A_1	B_1	C_1	H_1	L_1	MM	X
12	65.4	8	9	4	14	M5×0.8	10.5
16	72	10	10	5	15.5	M6×1.0	12
20	83	13	12	5	18.5	M8×1.25	14
25	92	17	15	6	22.5	M10×1.25	17.5
32	106.5	22	20.5	8	28.5	M14×1.5	23.5

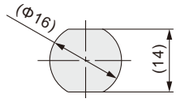
CQ2KW Series Non-rotating Rod Compact Cylinder

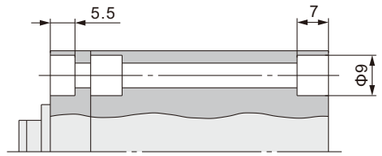
Main Dimensions Φ32 With/Without Auto Switch Magnet
Through-hole: C□Q2KB



* ( ): For the 5 mm stroke

Piston rod cross section

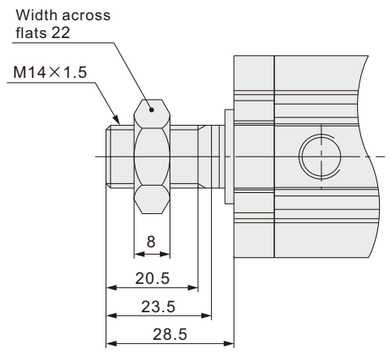




(mm)

Stroke range	Without auto switch magnet		With auto switch magnet	
	A	B	A	B
5 to 50	39	32	49	42
75,100	49	42	49	42

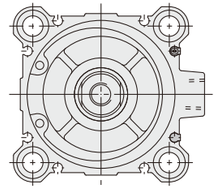
Rod end male thread



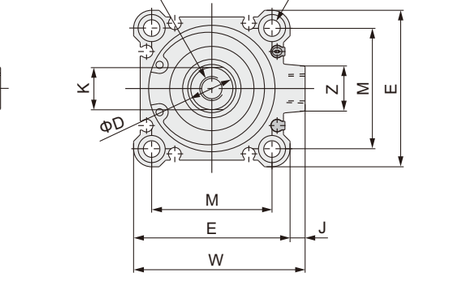
CQ2KW Series Non-rotating Rod Compact Cylinder

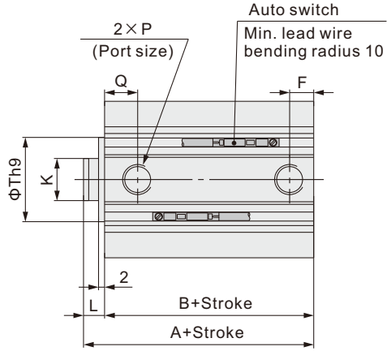
Main Dimensions Φ40 to Φ63 With/Without Auto Switch Magnet
Through-hole: C□Q2KB

Φ63

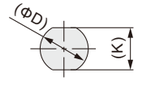


Φ40,Φ50





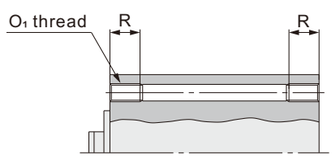
Piston rod cross section



(mm)

Bore	Stroke	Without auto switch magnet		With auto switch magnet		C	D	E	F	H	J	K	L	M	N	O	P	Q	Th9	W	Z
		A	B	A	B																
40	5~50	36.5	29.5	46.5	39.5	13	16	52	7.5	M8×1.25	5	14	7	40	5.5	9 depth 7	1/8	12.5	28 0 -0.052	57	15
	75,100	46.5	39.5																		
50	10~50	38.5	30.5	48.5	40.5	15	20	64	10.5	M10×1.5	7	18	8	50	6.6	11 depth 8	1/4	10.5	35 0 -0.062	71	19
	75,100	48.5	40.5																		
63	10~50	44	36	54	46	15	20	77	10.5	M10×1.5	7	18	8	60	9	14 depth 10.5	1/4	15	35 0 -0.062	84	19
	75,100	54	46																		

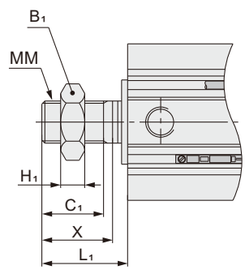
Both ends tapped



(mm)

Bore	O_1	R
40	M6×1.0	10
50	M8×1.25	14
63	M10×1.5	18

Rod end male thread



(mm)

Bore	B_1	C_1	H_1	L_1	MM	X
40	22	20.5	8	28.5	M14×1.5	23.5
50	27	26	11	33.5	M18×1.5	28.5
63	27	26	11	33.5	M18×1.5	28.5

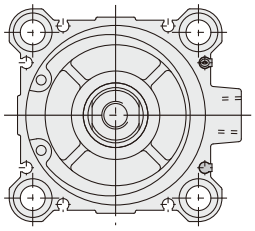
CQ2KW Series Non-rotating Rod Compact Cylinder

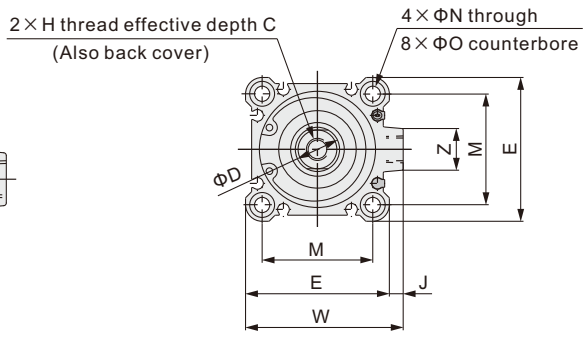
Main Dimensions Φ40 to Φ63 With/Without Auto Switch Magnet

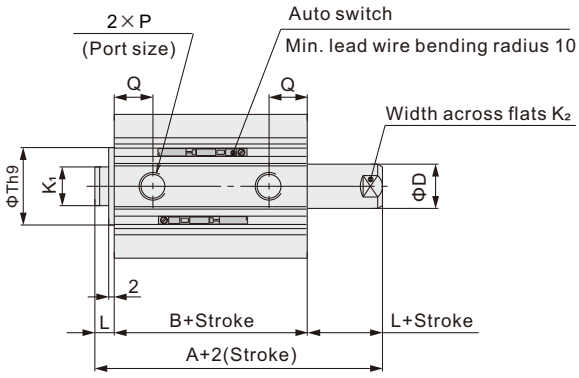
Through-hole: C D Q2KWB

Φ40,Φ50

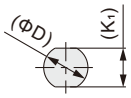
Φ63







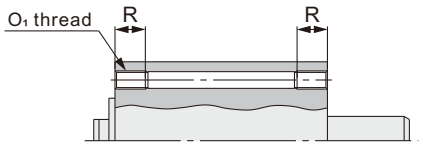
Piston rod cross section



(mm)

Bore	Stroke	Without auto switch magnet		With auto switch magnet		C	D	E	H	J	K₁	K₂	L	M	N	O	P	Q	Th9	W	Z
		A	B	A	B																
40	5 to 50	54	40	64	50	13	16	52	M8×1.25	5	14	14	7	40	5.5	9 depth 7	1/8	12.5	$28^{0}_{-0.052}$	57	15
	75,100	64	50																		
50	10 to 50	56.5	40.5	66.5	50.5	15	20	64	M10×1.5	7	18	17	8	50	6.6	11 depth 8	1/4	14	$35^{0}_{-0.062}$	71	19
	75,100	66.5	50.5																		
63	10 to 50	58	42	68	52	15	20	77	M10×1.5	7	18	17	8	60	9	14 depth 10.5	1/4	15.5	$35^{0}_{-0.062}$	84	19
	75,100	68	52																		

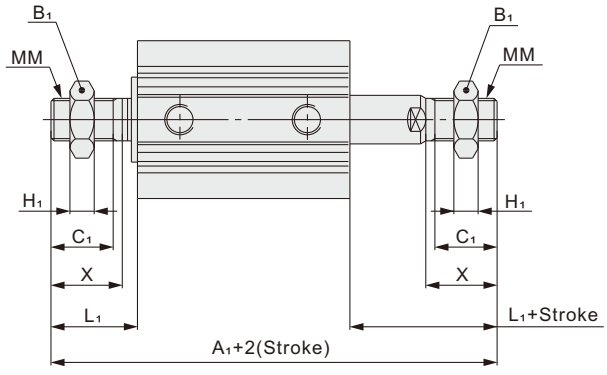
Both ends tapped



(mm)

Bore	O₁	R
40	M6×1.0	10
50	M8×1.25	14
63	M10×1.5	18

Rod end male thread



(mm)

Bore	Stroke	Without auto switch magnet	With auto switch magnet
		A₁	A₁
40	5 to 50	97	107
	75,100	107	
50	10 to 50	107.5	117.5
	75,100	117.5	
63	10 to 50	109	119
	75,100	119	

Bore	B₁	C₁	H₁	L₁	MM	X
40	22	20.5	8	28.5	M14×1.5	23.5
50	27	26	11	33.5	M18×1.5	28.5
63	27	26	11	33.5	M18×1.5	28.5