



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC / SU

SCT

SC A.

SL

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

MHL2

Pneumatic
Fingers

MXH/MXQ

CJP

CJ2

CDU

TN

CXS

MGP

MSQ

Features

1. Changed copper bearing and use DU bearing.
2. Changed NBR seal and use PU seal.
3. Changed anti-friction seal and use new POM anti-friction seal.
4. Using new SDA rolling technique for the piston rod and piston.
5. Using SDA rolling technique for the tail barrel (S > 100, end cover use snap ring structure).
6. Gasket use SDA anti-collision gasket structure.
7. Barrel appearance is same with SMC new type-CQ2 series, easy to install the sensor and save material.

Ordering Code

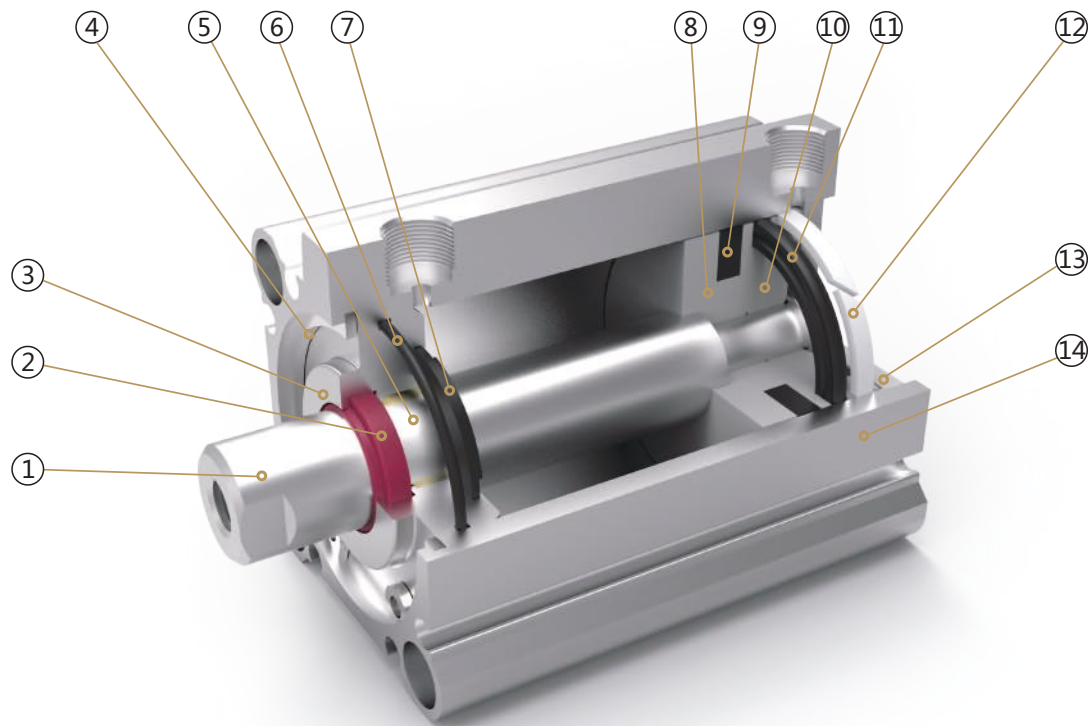
C□Q2	W	B	32	x	30	10	M	MT
Inner Magnet	Operation	Mountings	Bore	Stroke	Adjustable Stroke	Thread	Sensor	
Blank: Without magnet	Blank: Standard Double acting	B: Thru hole (Standard)	12		10: 10mm	Blank: Female thread	D-A93	
D: With magnet	S: Single acting, spring-out	A: Both end thread hole	16		20: 20mm	M: Male thread	* Standard wire length is 1 meter, please specify for other length	
	T: Single acting, spring-in	C: Thru hole+Thread	20		30: 30mm			
	W: Double shaft		25		50: 50mm			
	J: Adjustable		32		75: 75mm			
			40		100: 100mm			
			50					
			63					
			80					
			100					

Specification

Bore (mm)		12	16	20	25	32	40	50	63	80	100
Operation		Double Acting									
		Single Acting Spring-out / Single Acting Spring-in									-
Working Medium		Air									
Operating Pressure Range	Double Acting	0.1 ~ 1.0MPa									
	Single Acting	0.2 ~ 0.9MPa									-
Proof Pressure		1.5MPa									
Operating Temperature Range		-20 ~ 80℃									
Operating Speed Range	Double Acting	30 ~ 500mm/s					30 ~ 350mm/s		30 ~ 250mm/s		
	Single Acting	50 ~ 500mm/s									-
Port Size		M5x0.8				G1/8		G1/4		G3/8	

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Internal Structure



Parts

Number	Name	Number	Name
1	Piston rod	8	Piston
2	Shaft seal	9	Magnet
3	Front cover	10	Magnet base
4	C clip	11	Piston seal
5	DU bearing	12	Anti-friction seal
6	O ring	13	Back cover
7	Anti-collision gasket	14	Body

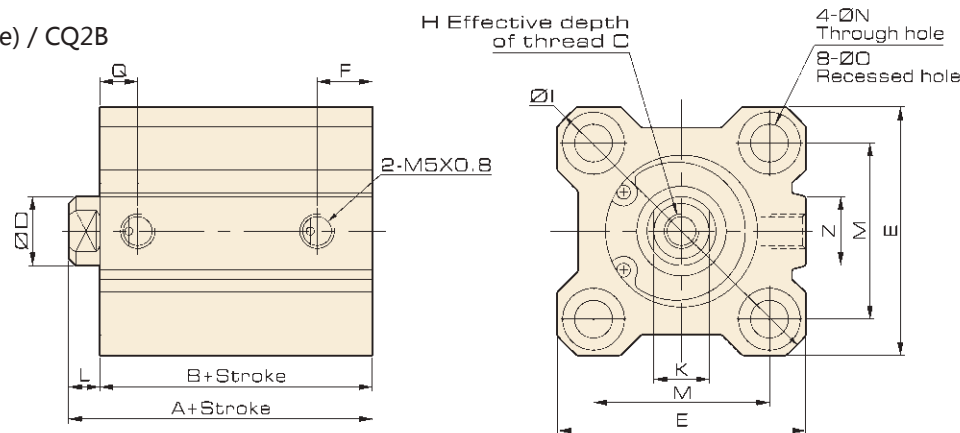
ISO9001:2015 CE

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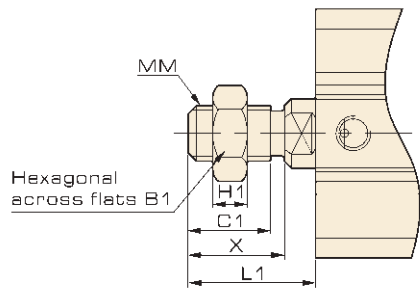
Overall Dimension

Ø12~Ø25 Without magnet

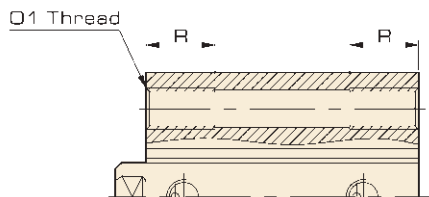
Standard (Thru hole) / CQ2B



Male Piston Rod Thread



Both Ends of Thread / CQ2A



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	F	H	I	K	L	M
12	5~30	20.5	17	6	6	25	5	M3×0.5	32	5	3.5	15.5
16	5~30	22	18.5	8	8	29	5.5	M4×0.7	38	6	3.5	20
20	5~50	24	19.5	7	10	36	5.5	M5×0.8	47	8	4.5	25.5
25	5~50	27.5	22.5	12	12	40	5.5	M6×1	52	10	5	28

Bore/Symbol	N	O	Q	Z	B1	C1	H1	L1	MM	X	O1	R
12	3.5	6.5 deep 3.5	7.5	-	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	3.5	6.5 deep 3.5	8	10	10	10	5	15.5	M6×1	12	M4×0.7	7
20	5.5	9 deep 7	8	10	13	12	5	18.5	M8×1.25	14	M6×1	10
25	5.5	9 deep 7	9	10	17	15	6	22.5	M10×1.25	17.5	M6×1	10

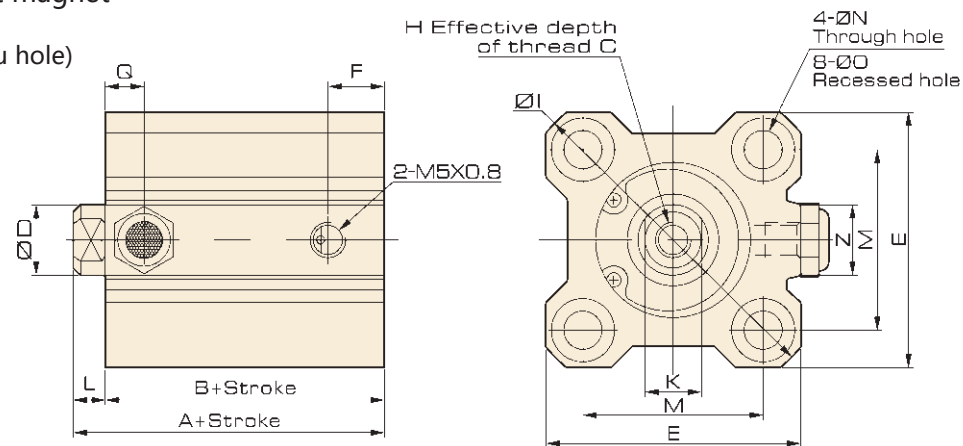
CQ2 Series Thin Type Cylinder



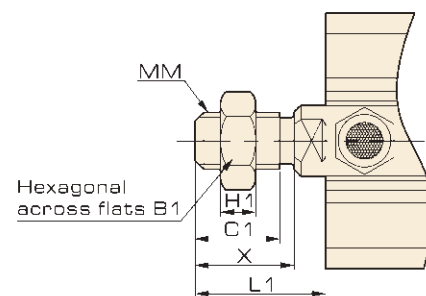
Overall Dimension

Ø12~Ø25 Without magnet

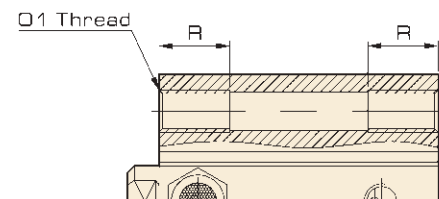
Spring-out (Thru hole) CQ2SB



Male Piston Rod Thread



Both Ends of Thread / CQ2SA



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	F	H	I	K	L	M
12	5/10	30.5	27	6	6	25	5	M3×0.5	32	5	3.5	15.5
	15/20	40.5	37									
16	5/10	32	28.5	8	8	29	5.5	M4×0.7	38	6	3.5	20
	15/20	42	38.5									
20	5/10	34	29.5	7	10	36	5.5	M5×0.8	47	8	4.5	25.5
	15/20/25/30	44	39.5									
25	5/10	37.5	32.5	12	12	40	5.5	M6×1	52	10	5	28
	15/20/25/30	47.5	42.5									

Bore/Symbol	N	O	Q	Z	B1	C1	H1	L1	MM	X	O1	R
12	3.5	6.5 deep 3.5	7.5	-	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	3.5	6.5 deep 3.5	8	10	10	10	5	15.5	M6×1	12	M4×0.7	7
20	5.5	9 deep 7	8	10	13	12	5	18.5	M8×1.25	14	M6×1	10
25	5.5	9 deep 7	9	10	17	15	6	22.5	M10×1.25	17.5	M6×1	10

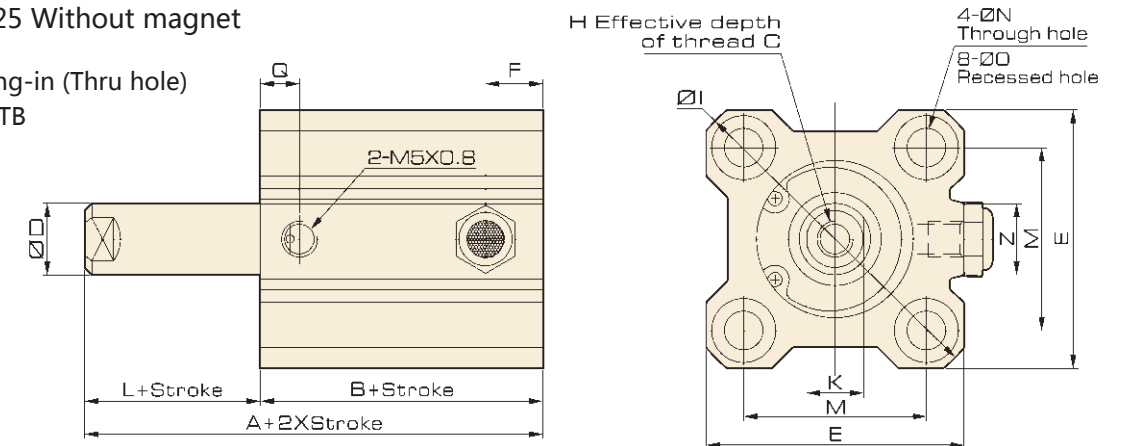
ISO9001:2015 CE

CQ2 Series Thin Type Cylinder

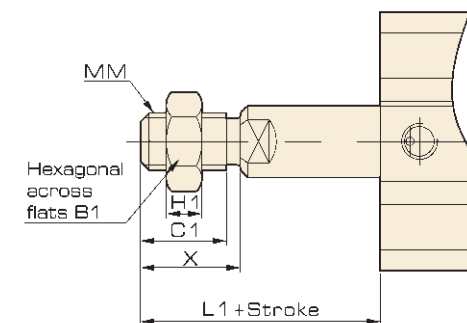
Overall Dimension

Ø12~Ø25 Without magnet

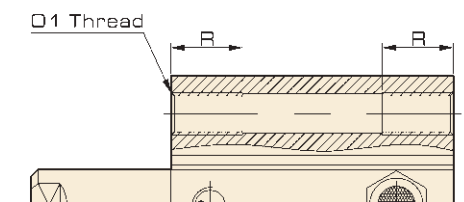
Spring-in (Thru hole) CQ2TB



Male Piston Rod Thread



Both Ends of Thread / CQ2TA



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	F	H	I	K	L	M
12	5/10	30.5	27	6	6	25	5	M3×0.5	32	5	3.5	15.5
	15/20	40.5	37									
16	5/10	32	28.5	8	8	29	5.5	M4×0.7	38	6	3.5	20
	15/20	42	38.5									
20	5/10	34	29.5	7	10	36	5.5	M5×0.8	47	8	4.5	25.5
	15/20/25/30	44	39.5									
25	5/10	37.5	32.5	12	12	40	5.5	M6×1	52	10	5	28
	15/20/25/30	47.5	42.5									

Bore/Symbol	N	O	Q	Z	B1	C1	H1	L1	MM	X	O1	R
12	3.5	6.5 deep 3.5	7.5	-	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	3.5	6.5 deep 3.5	8	10	10	10	5	15.5	M6×1	12	M4×0.7	7
20	5.5	9 deep 7	8	10	13	12	5	18.5	M8×1.25	14	M6×1	10
25	5.5	9 deep 7	9	10	17	15	6	22.5	M10×1.25	17.5	M6×1	10

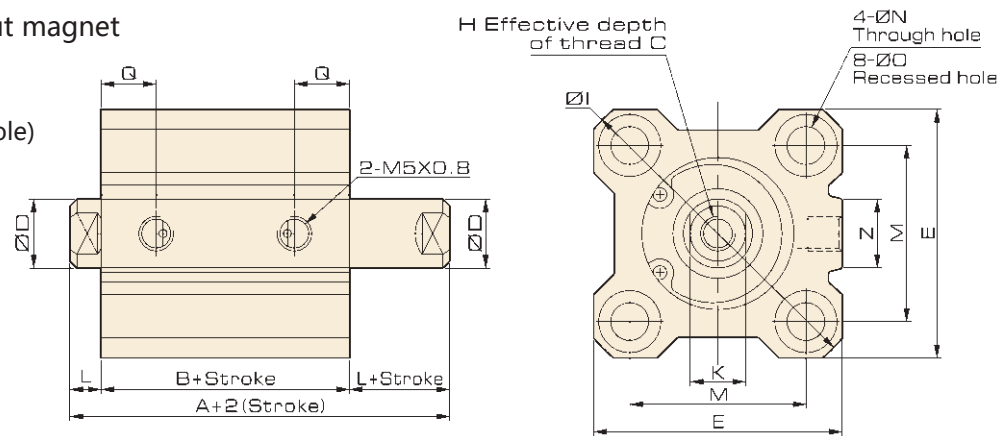
CQ2 Series
Thin Type Cylinder



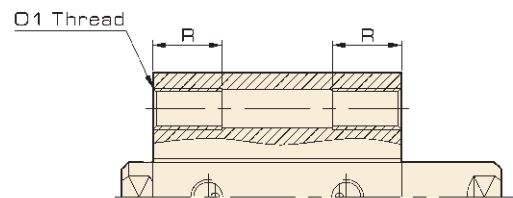
Overall Dimension

Ø12~Ø25 Without magnet

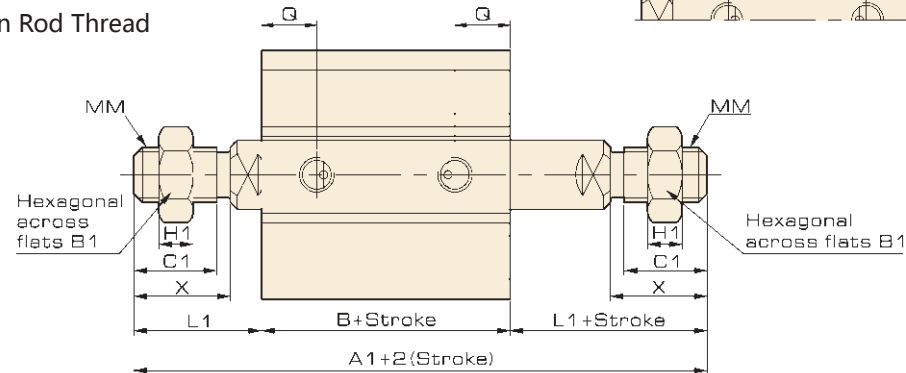
Standard (Thru hole)
CQ2WB



Both Ends of Thread / CQ2WA



Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	H	I	K	L	M	N
12	5~30	32.2	25.2	6	6	25	M3×0.5	32	5	3.5	15.5	3.5
16	5~30	33	26	8	8	29	M4×0.7	38	6	3.5	20	3.5
20	5~50	35	26	7	10	36	M5×0.8	47	8	4.5	25.5	5.5
25	5~50	39	29	12	12	40	M6×1	52	10	5	28	5.5

Bore/Symbol	O	Q	Z	A1	B1	C1	H1	L1	MM	X	O1	R
12	6.5 deep 3.5	9	-	43.2	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	6.5 deep 3.5	9.5	10	57	10	10	5	15.5	M6×1	12	M4×0.7	7
20	9 deep 7	8	10	63	13	12	5	18.5	M8×1.25	14	M6×1	10
25	9 deep 7	9	10	74	17	15	6	22.5	M10×1.25	17.5	M6×1	10

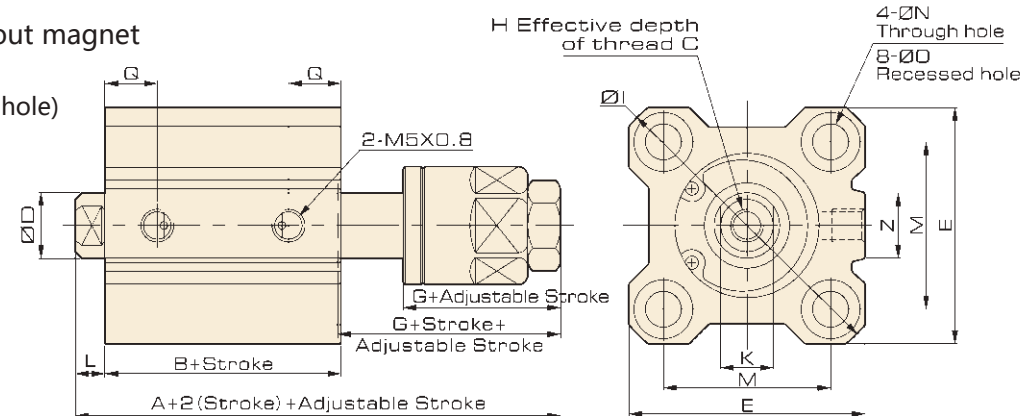
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CQ2 Series
Thin Type Cylinder

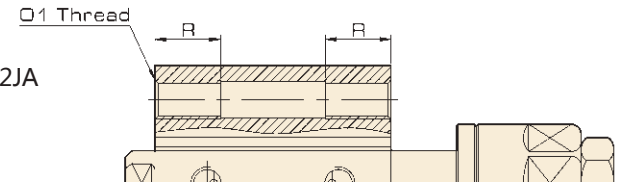
Overall Dimension

Ø12~Ø25 Without magnet

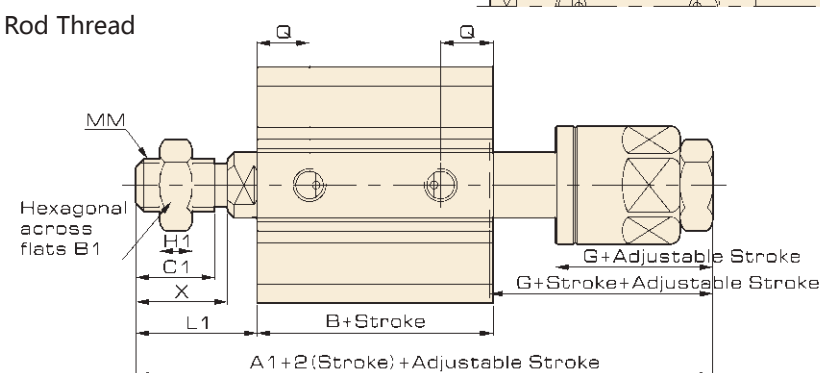
Standard (Thru hole)
CQ2JB



Both Ends of Thread / CQ2JA



Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	G	H	I	K	L	M	N
12	5~30	45.2	25.2	6	6	25	17	M3×0.5	32	5	3.5	15.5	3.5
16	5~30	50	26	8	8	29	21	M4×0.7	38	6	3.5	20	3.5
20	5~50	54	26	7	10	36	24	M5×0.8	47	8	4.5	25.5	5.5
25	5~50	60.5	29	12	12	40	27	M6×1	52	10	5	28	5.5

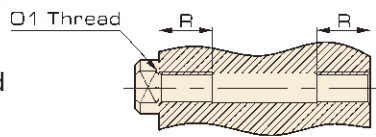
Bore/Symbol	O	Q	Z	A1	B1	C1	H1	L1	MM	X	O1	R
12	6.5 deep 3.5	9	-	55.7	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	6.5 deep 3.5	9.5	10	62	10	10	5	15.5	M6×1	12	M4×0.7	7
20	9 deep 7	8	10	68	13	12	5	18.5	M8×1.25	14	M6×1	10
25	9 deep 7	9	10	78	17	15	6	22.5	M10×1.25	17.5	M6×1	10

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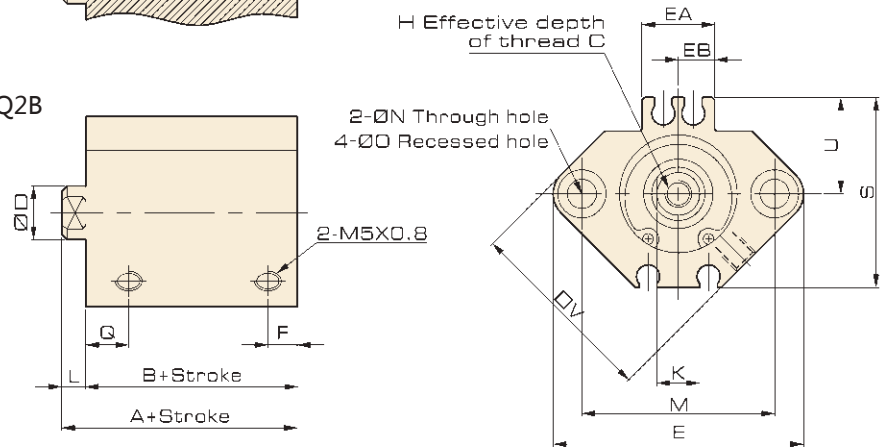
Overall Dimension

Ø12~Ø25 With magnet

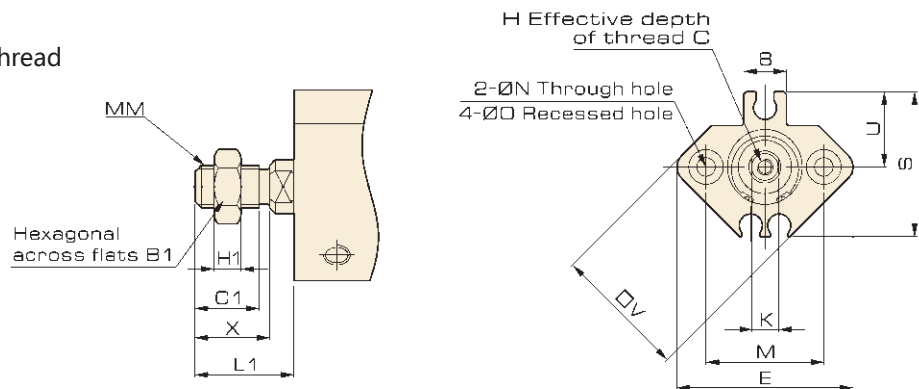
Both Ends of Thread / CDQ2A



Standard (Thru hole) / CDQ2B
Ø16~Ø25



Male Piston Rod Thread
Ø12



Dimension

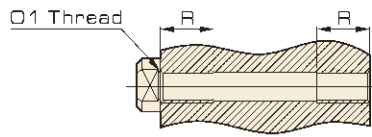
Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	EA	EB	F	H	K	L	M	N
12	5~30	31.5	28	6	6	33	-	-	7	M3×0.5	5	3.5	22	3.5
16	5~30	34	30.5	8	8	37	13.2	6.6	5.5	M4×0.7	6	3.5	28	3.5
20	5~50	36	31.5	7	10	47	13.6	6.8	5.5	M5×0.8	8	4.5	36	5.5
25	5~50	37.5	32.5	12	12	52	13.6	6.8	5.5	M6×1	10	5	40	5.5

Bore/Symbol	O	Q	S	U	V	B1	C1	H1	L1	MM	X	O1	R
12	6.5 deep 3.5	9	27.5	14	25	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	6.5 deep 3.5	9.5	29.5	15	29	10	10	5	15.5	M6×1	12	M4×0.7	7
20	9 deep 7	8	35.5	18	36	13	12	5	18.5	M8×1.25	14	M6×1	10
25	9 deep 7	9	40.5	21	40	17	15	6	22.5	M10×1.25	17.5	M6×1	10

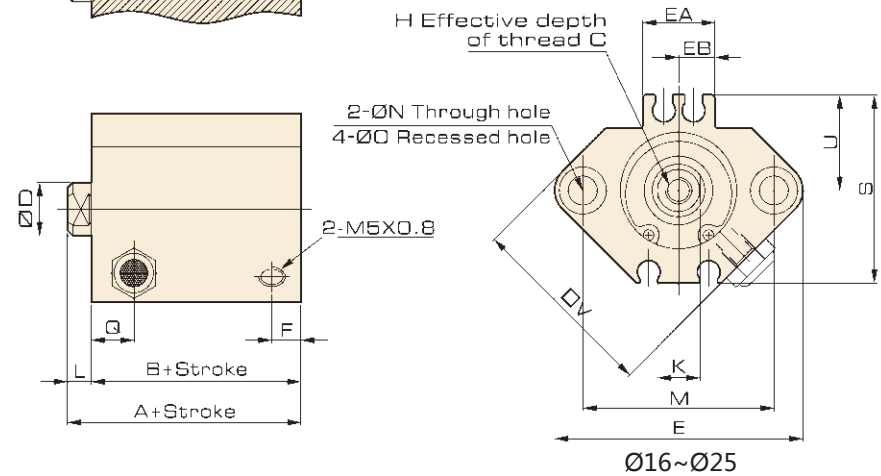
Overall Dimension

Ø12~Ø25 With magnet

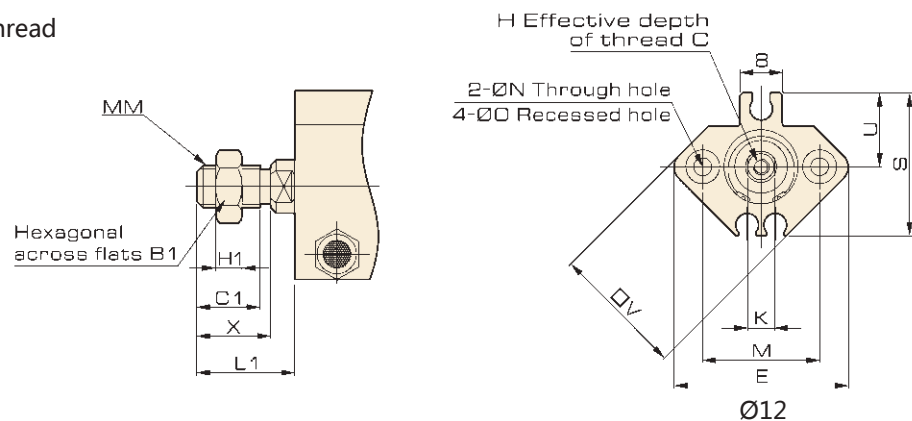
Both Ends of Thread
CDQ2SA



Spring-out (Thru hole)
CDQ2SB
Ø16~Ø25



Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	EA	EB	F	H	K	L	M
12	5/10	41.5	38	6	6	33	-	-	7	M3×0.5	5	3.5	22
	15/20	51.5	48										
16	5/10	44	40.5	8	8	37	13.2	6.6	5.5	M4×0.7	6	3.5	28
	15/20	54	50.5										
20	5/10	46	41.5	7	10	47	13.6	6.8	5.5	M5×0.8	8	4.5	36
	15/20/25/30	56	51.5										
25	5/10	47.5	42.5	12	12	52	13.6	6.8	5.5	M6×1	10	5	40
	15/20/25/30	57.5	52.5										

Bore/Symbol	N	O	Q	S	U	V	B1	C1	H1	L1	MM	X	O1	R
12	3.5	6.5 deep 3.5	9	27.5	14	25	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	3.5	6.5 deep 3.5	9.5	29.5	15	29	10	10	5	15.5	M6×1	12	M4×0.7	7
20	5.5	9 deep 7	8	35.5	18	36	13	12	5	18.5	M8×1.25	14	M6×1	10
25	5.5	9 deep 7	9	40.5	21	40	17	15	6	22.5	M10×1.25	17.5	M6×1	10

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MHL2
Pneumatic
Fingers
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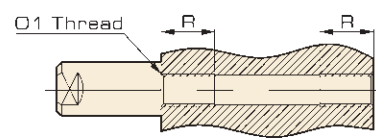
CQ2 Series Thin Type Cylinder



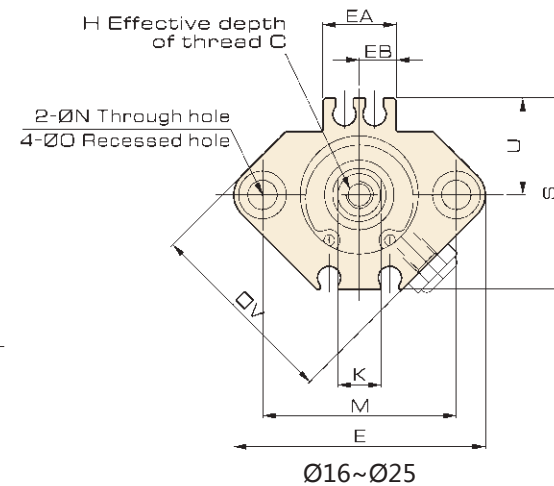
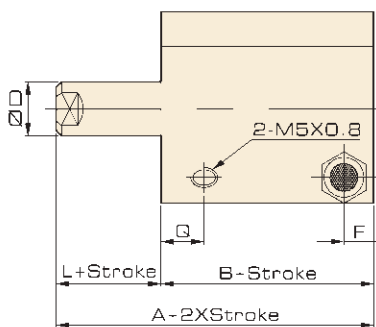
Overall Dimension

Ø12~Ø25 With magnet

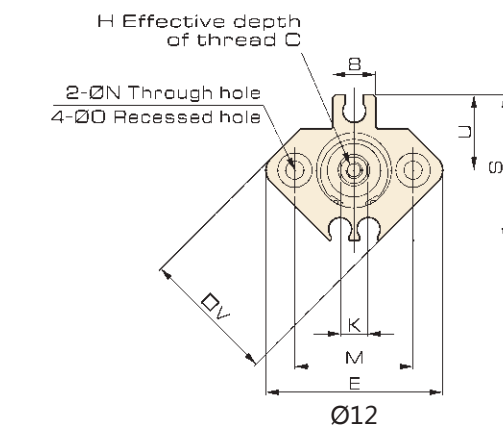
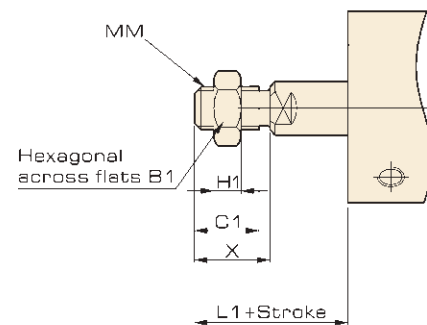
Both Ends of Thread CDQ2TA



Spring-in (Thru hole) CDQ2TB Ø16~Ø25



Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	EA	EB	F	H	K	L	M
12	5/10	41.5	38	6	6	33	-	-	7	M3×0.5	5	3.5	22
	15/20	51.5	48										
16	5/10	44	40.5	8	8	37	13.2	6.6	5.5	M4×0.7	6	3.5	28
	15/20	54	50.5										
20	5/10	46	41.5	7	10	47	13.6	6.8	5.5	M5×0.8	8	4.5	36
	15/20/25/30	56	51.5										
25	5/10	47.5	42.5	12	12	52	13.6	6.8	5.5	M6×1	10	5	40
	15/20/25/30	57.5	52.5										

Bore/Symbol	N	O	Q	S	U	V	B1	C1	H1	L1	MM	X	O1	R
12	3.5	6.5 deep 3.5	9	27.5	14	25	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	3.5	6.5 deep 3.5	9.5	29.5	15	29	10	10	5	15.5	M6×1	12	M4×0.7	7
20	5.5	9 deep 7	8	35.5	18	36	13	12	5	18.5	M8×1.25	14	M6×1	10
25	5.5	9 deep 7	9	40.5	21	40	17	15	6	22.5	M10×1.25	17.5	M6×1	10

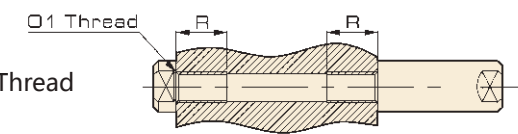
ISO9001:2015 CE

CQ2 Series Thin Type Cylinder

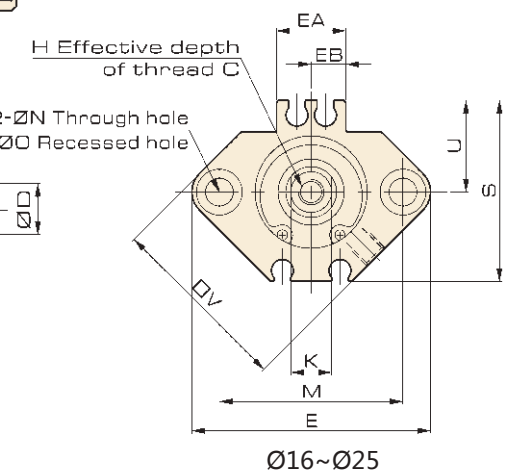
Overall Dimension

Ø12~Ø25

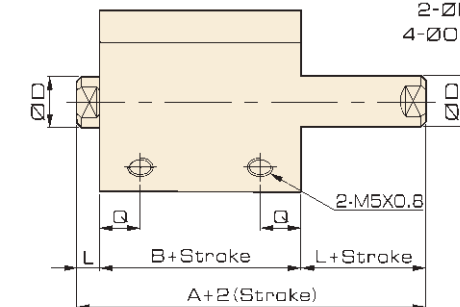
With magnet



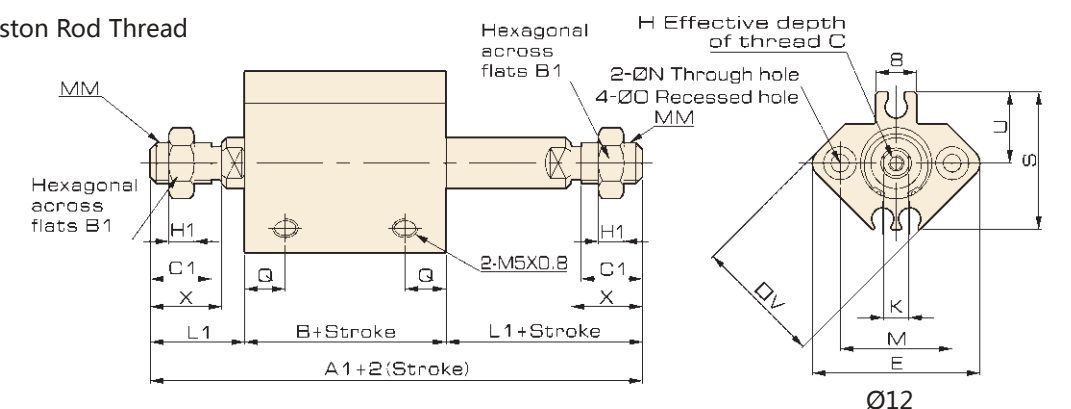
Both Ends of Thread CDQ2WA



Standard (Thru hole) / CDQ2WB Ø16~Ø25



Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	EA	EB	H	K	L	M	N	O
12	5~30	39.4	32.4	6	6	33	-	-	M3×0.5	5	3.5	22	3.5	6.5 deep 3.5
16	5~30	43	36	8	8	37	13.2	6.6	M4×0.7	6	3.5	28	3.5	6.5 deep 3.5
20	5~50	47	38	7	10	47	13.6	6.8	M5×0.8	8	4.5	36	5.5	9 deep 7
25	5~50	49	39	12	12	52	13.6	6.8	M6×1	10	5	40	5.5	9 deep 7

Bore/Symbol	Q	S	U	V	A1	B1	C1	H1	L1	MM	X	O1	R
12	9	27.5	14	25	60.4	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	9.5	29.5	15	29	67	10	10	5	15.5	M6×1	12	M4×0.7	7
20	8	35.5	18	36	75	13	12	5	18.5	M8×1.25	14	M6×1	10
25	9	40.5	21	40	84	17	15	6	22.5	M10×1.25	17.5	M6×1	10

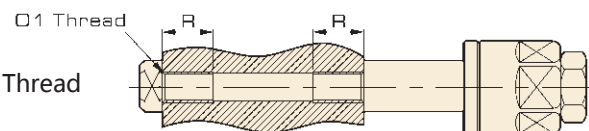
CQ2 Series Thin Type Cylinder



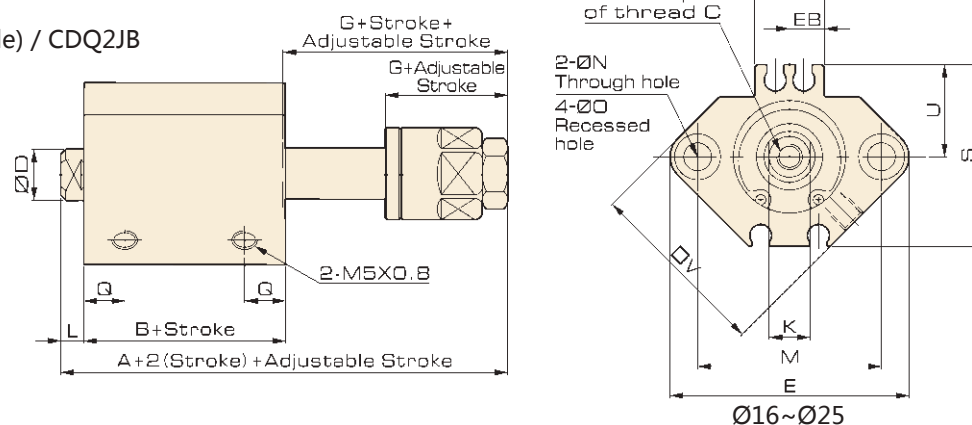
Overall Dimension

Ø12~Ø25 With magnet

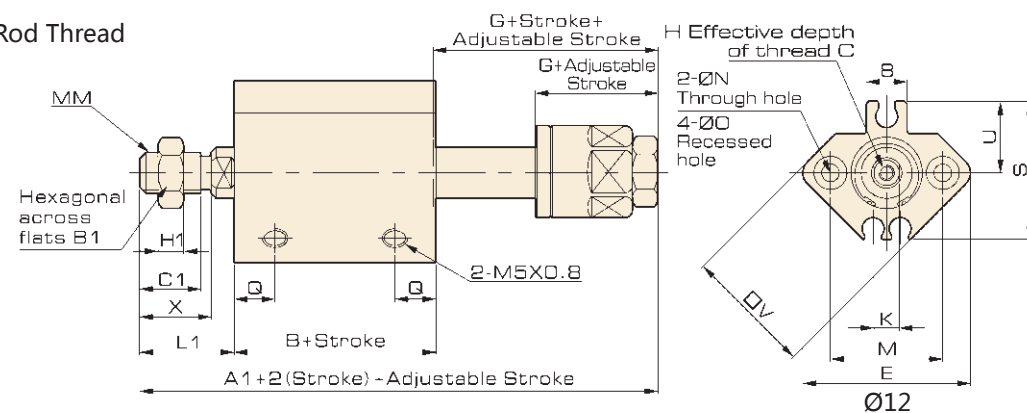
Both Ends of Thread CDQ2JA



Standard (Thru hole) / CDQ2JB Ø16~Ø25



Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	EA	EB	G	H	K	L	M	N
12	5~30	52.4	32.4	6	6	33	-	-	17	M3×0.5	5	3.5	22	3.5
16	5~30	60	36	8	8	37	13.2	6.6	21	M4×0.7	6	3.5	28	3.5
20	5~50	66	38	7	10	47	13.6	6.8	24	M5×0.8	8	4.5	36	5.5
25	5~50	70.5	39	12	12	52	13.6	6.8	27	M6×1	10	5	40	5.5

Bore/Symbol	O	Q	S	U	V	A1	B1	C1	H1	L1	MM	X	O1	R
12	6.5 deep 3.5	9	27.5	14	25	62.9	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	6.5 deep 3.5	9.5	29.5	15	29	72	10	10	5	15.5	M6×1	12	M4×0.7	7
20	9 deep 7	8	35.5	18	36	80	13	12	5	18.5	M8×1.25	14	M6×1	10
25	9 deep 7	9	40.5	21	40	88	17	15	6	22.5	M10×1.25	17.5	M6×1	10

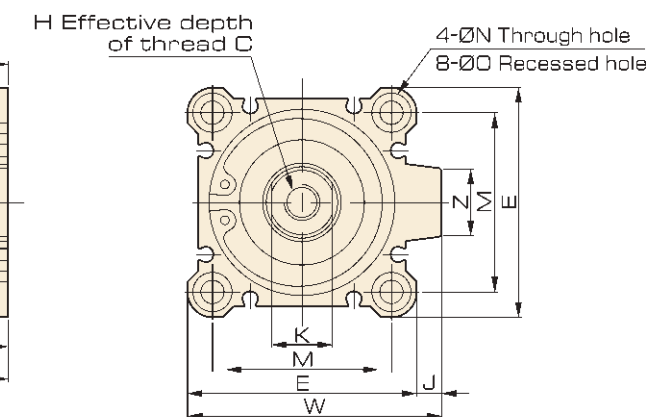
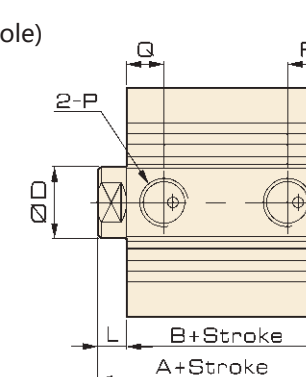
ISO9001:2015 CE

CQ2 Series Thin Type Cylinder

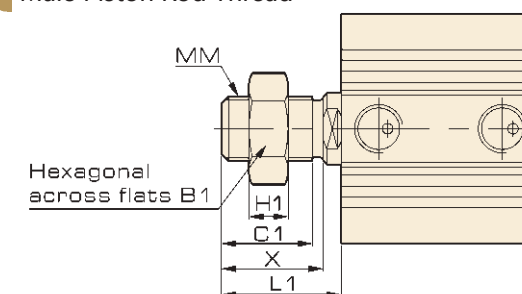
Overall Dimension

Ø32~Ø100 Without magnet / With magnet

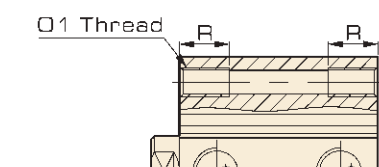
Standard (Thru hole) CQ2B / CDQ2B



Male Piston Rod Thread



Both Ends of Thread CQ2A / CDQ2A



Dimension

Bore/Symbol	Stroke Range (mm)	Without magnet				With magnet				C	D	E	H	J	K
		A	B	F	Q	A	B	F	Q						
32	5	30	23	6.5	7.5	40	33	7.5	10	13	16	45	M8×1.25	4.5	14
	10~50	40	33	7.5	10										
	50~100	40	33	7.5	10										
40	5	36.5	29.5	8	11	46.5	39.5	7.5	12.5	13	16	52	M8×1.25	5	14
	10~50	46.5	39.5	7.5	12.5										
	50~100	46.5	39.5	7.5	12.5										
50	5	38.5	30.5	9	9	48.5	40.5	10.5	10.5	15	20	64	M10×1.5	7	17
	10~50	48.5	40.5	10.5	10.5										
	50~100	48.5	40.5	10.5	10.5										
63	5	44	36	9.5	14	54	46	10.5	15	15	20	77	M10×1.5	7	17
	10~50	54	46	10.5	15										
	50~100	54	46	10.5	15										
80	5~50	53.5	43.5	12.5	16	63.5	53.5	12.5	16	21	25	98	M16×2	6	22
	50~100	63.5	53.5	12.5	16										
	5~50	65	53	13	23	75	63	13	23	27	32	117	M20×2.5	6.5	27
100	50~100	75	63	13	23										

Bore/Symbol	L	M	N	O	P	W	Z	B1	C1	H1	L1	MM	X	O1	R
32	7	34	5.5	9 deep 7	1/8	49.5	14	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
40	7	40	5.5	9 deep 7	1/8	57	15	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
50	8	50	6.6	11 deep 8	1/4	71	19	27	26	11	33.5	M18×1.5	28.5	M8×1.25	14
63	8	60	9	14 deep 10.5	1/4	84	19	27	26	11	33.5	M18×1.5	28.5	M10×1.5	18
80	10	77	11	17.5 deep 13.5	3/8	104	25	32	32.5	13	43.5	M22×1.5	35.5	M12×1.75	22
100	12	94	11	17.5 deep 13.5	3/8	123.5	25	41	32.5	13	43.5	M26×1.5	35.5	M12×1.75	22

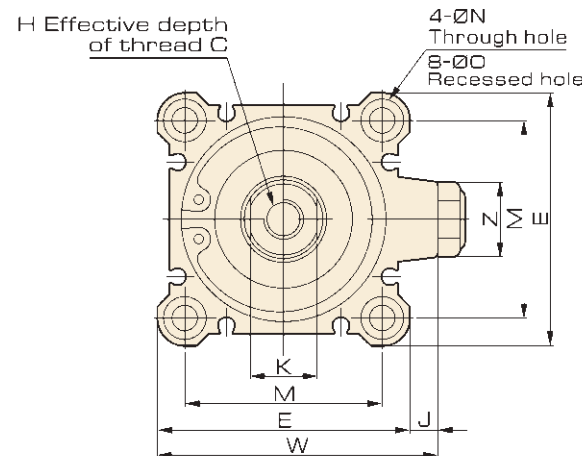
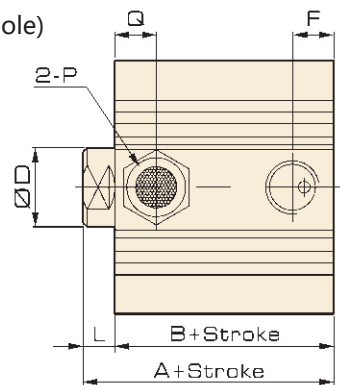
CQ2 Series Thin Type Cylinder



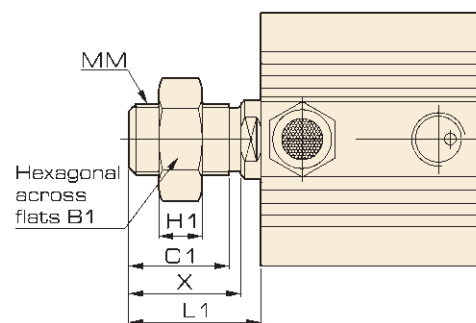
Overall Dimension

Ø32~Ø100 Without magnet / With magnet

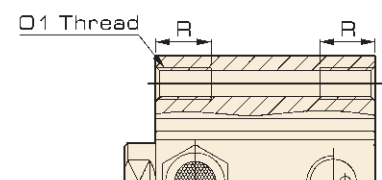
Spring-out (Thru hole) CQ2SB / CDQ2SB



Male Piston Rod Thread



Both Ends of Thread CQ2SA / CDQ2SA



Dimension

Bore/Symbol	Stroke Range (mm)	Without magnet				With magnet				C	D	E	H	J	K
		A	B	F	Q	A	B	F	Q						
32	5/10	40	33	7.5	10	50	43	7.5	10	13	16	45	M8×1.25	4.5	14
	15/20/25/30	50	43			60	53								
40	5/10	36.5	29.5	7.5	12.5	56.5	49.5	7.5	12.5	13	16	52	M8×1.25	5	14
	15/20/25/30	46.5	39.5			66.5	59.5								
50	5/10	38.5	30.5	10.5	10.5	58.5	50.5	10.5	10.5	15	20	64	M10×1.5	7	17
	15/20/25/30	48.5	40.5			68.5	60.5								
63	5/10	44	36	10.5	15	64	56	10.5	15	15	20	77	M10×1.5	7	17
	15/20/25/30	54	46			74	66								

Bore/Symbol	L	M	N	O	P	W	Z	B1	C1	H1	L1	MM	X	O1	R
12	7	34	5.5	9 deep 7	1/8	49.5	14	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
16	7	40	5.5	9 deep 7	1/8	57	15	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
20	8	50	6.6	11 deep 8	1/4	71	19	27	26	11	33.5	M18×1.5	28.5	M8×1.25	14
25	8	60	9	14 deep 10.5	1/4	84	19	27	26	11	33.5	M18×1.5	28.5	M10×1.5	18

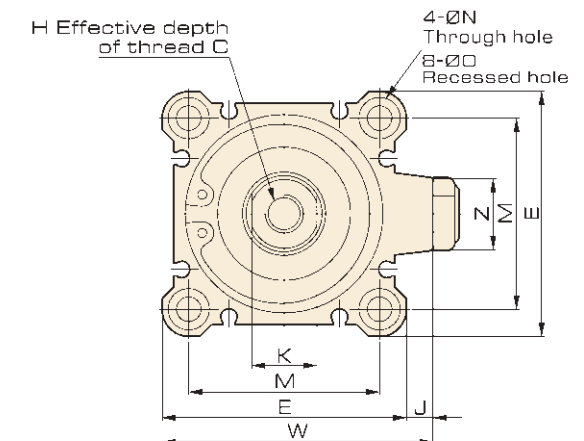
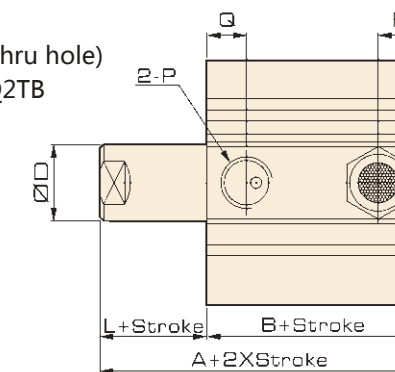
ISO9001:2015 CE

CQ2 Series Thin Type Cylinder

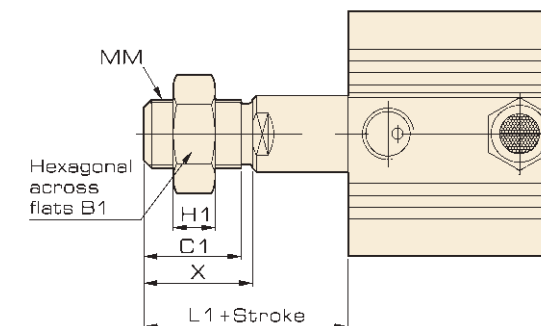
Overall Dimension

Ø32~Ø100 Without magnet / With magnet

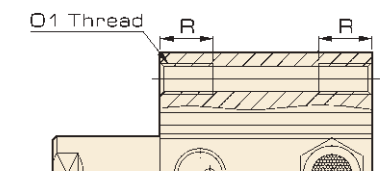
Spring-out (Thru hole) CQ2TB / CDQ2TB



Male Piston Rod Thread



Both Ends of Thread CQ2TA / CDQ2TA



Dimension

Bore/Symbol	Stroke Range (mm)	Without magnet				With magnet				C	D	E	H	J	K
		A	B	F	Q	A	B	F	Q						
32	5/10	40	33	7.5	10	50	43	7.5	10	13	16	45	M8×1.25	4.5	14
	15/20/25/30	50	43			60	53								
40	5/10	36.5	29.5	7.5	12.5	56.5	49.5	7.5	12.5	13	16	52	M8×1.25	5	14
	15/20/25/30	46.5	39.5			66.5	59.5								
50	5/10	38.5	30.5	10.5	10.5	58.5	50.5	10.5	10.5	15	20	64	M10×1.5	7	17
	15/20/25/30	48.5	40.5			68.5	60.5								
63	5/10	44	36	10.5	15	64	56	10.5	15	15	20	77	M10×1.5	7	17
	15/20/25/30	54	46			74	66								

Bore/Symbol	L	M	N	O	P	W	Z	B1	C1	H1	L1	MM	X	O1	R
12	7	34	5.5	9 deep 7	1/8	49.5	14	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
16	7	40	5.5	9 deep 7	1/8	57	15	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
20	8	50	6.6	11 deep 8	1/4	71	19	27	26	11	33.5	M18×1.5	28.5	M8×1.25	14
25	8	60	9	14 deep 10.5	1/4	84	19	27	26	11	33.5	M18×1.5	28.5	M10×1.5	18

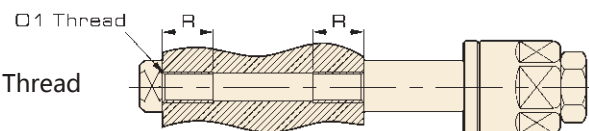
CQ2 Series Thin Type Cylinder



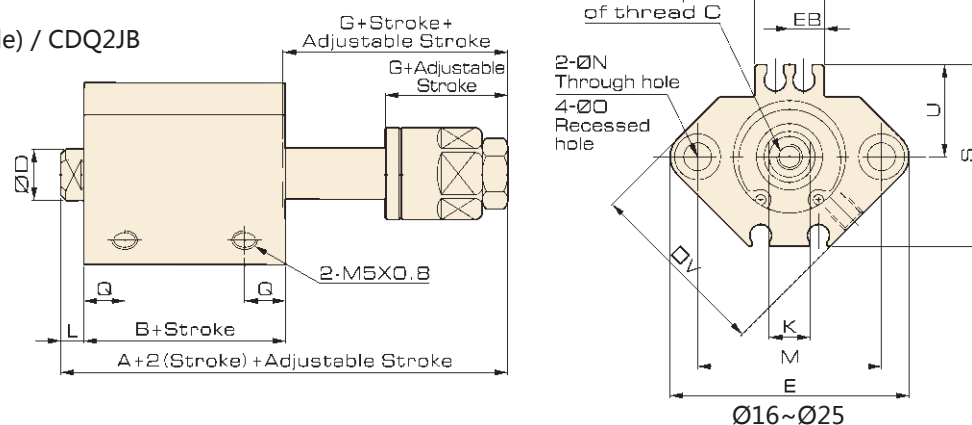
Overall Dimension

Ø12~Ø25 With magnet

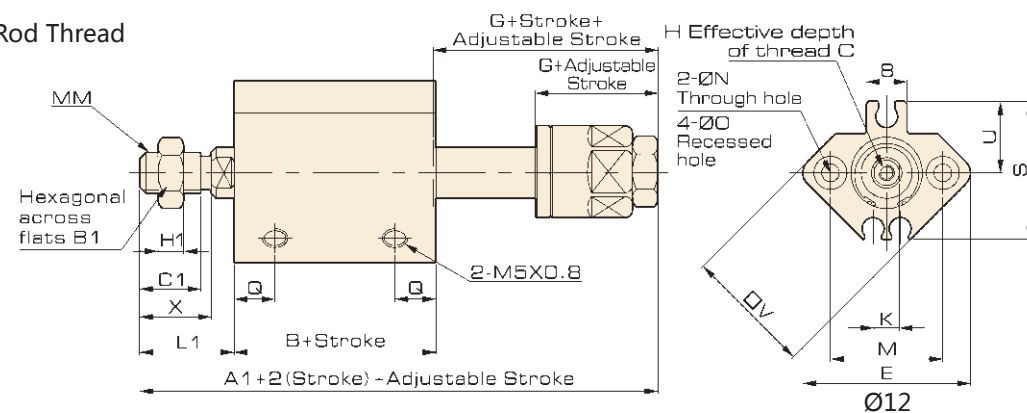
Both Ends of Thread CDQ2JA



Standard (Thru hole) / CDQ2JB Ø16~Ø25



Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	EA	EB	G	H	K	L	M	N
12	5~30	52.4	32.4	6	6	33	-	-	17	M3×0.5	5	3.5	22	3.5
16	5~30	60	36	8	8	37	13.2	6.6	21	M4×0.7	6	3.5	28	3.5
20	5~50	66	38	7	10	47	13.6	6.8	24	M5×0.8	8	4.5	36	5.5
25	5~50	70.5	39	12	12	52	13.6	6.8	27	M6×1	10	5	40	5.5

Bore/Symbol	O	Q	S	U	V	A1	B1	C1	H1	L1	MM	X	O1	R
12	6.5 deep 3.5	9	27.5	14	25	62.9	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	6.5 deep 3.5	9.5	29.5	15	29	72	10	10	5	15.5	M6×1	12	M4×0.7	7
20	9 deep 7	8	35.5	18	36	80	13	12	5	18.5	M8×1.25	14	M6×1	10
25	9 deep 7	9	40.5	21	40	88	17	15	6	22.5	M10×1.25	17.5	M6×1	10

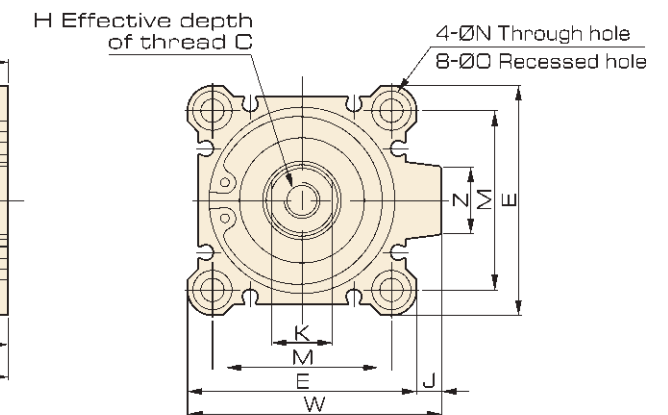
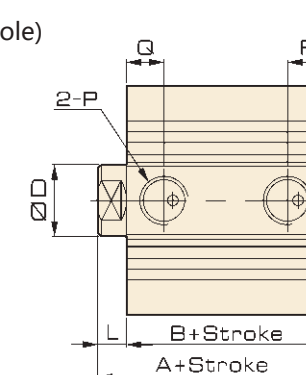
ISO9001:2015 CE

CQ2 Series Thin Type Cylinder

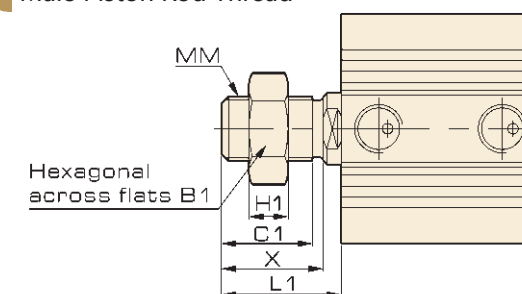
Overall Dimension

Ø32~Ø100 Without magnet / With magnet

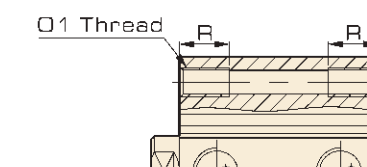
Standard (Thru hole) CQ2B / CDQ2B



Male Piston Rod Thread



Both Ends of Thread CQ2A / CDQ2A



Dimension

Bore/Symbol	Stroke Range (mm)	Without magnet				With magnet				C	D	E	H	J	K
		A	B	F	Q	A	B	F	Q						
32	5	30	23	6.5	7.5	40	33	7.5	10	13	16	45	M8×1.25	4.5	14
	10~50	40	33	7.5	10										
	50~100	40	33	7.5	10										
40	5	36.5	29.5	8	11	46.5	39.5	7.5	12.5	13	16	52	M8×1.25	5	14
	10~50	46.5	39.5	7.5	12.5										
	50~100	46.5	39.5	7.5	12.5										
50	5	38.5	30.5	9	9	48.5	40.5	10.5	10.5	15	20	64	M10×1.5	7	17
	10~50	48.5	40.5	10.5	10.5										
	50~100	48.5	40.5	10.5	10.5										
63	5	44	36	9.5	14	54	46	10.5	15	15	20	77	M10×1.5	7	17
	10~50	54	46	10.5	15										
	50~100	54	46	10.5	15										
80	5~50	53.5	43.5	12.5	16	63.5	53.5	12.5	16	21	25	98	M16×2	6	22
	50~100	63.5	53.5	12.5	16										
	5~50	65	53	13	23	75	63	13	23	27	32	117	M20×2.5	6.5	27
100	50~100	75	63	13	23										

Bore/Symbol	L	M	N	O	P	W	Z	B1	C1	H1	L1	MM	X	O1	R
32	7	34	5.5	9 deep 7	1/8	49.5	14	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
40	7	40	5.5	9 deep 7	1/8	57	15	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
50	8	50	6.6	11 deep 8	1/4	71	19	27	26	11	33.5	M18×1.5	28.5	M8×1.25	14
63	8	60	9	14 deep 10.5	1/4	84	19	27	26	11	33.5	M18×1.5	28.5	M10×1.5	18
80	10	77	11	17.5 deep 13.5	3/8	104	25	32	32.5	13	43.5	M22×1.5	35.5	M12×1.75	22
100	12	94	11	17.5 deep 13.5	3/8	123.5	25	41	32.5	13	43.5	M26×1.5	35.5	M12×1.75	22

CQ2 Series

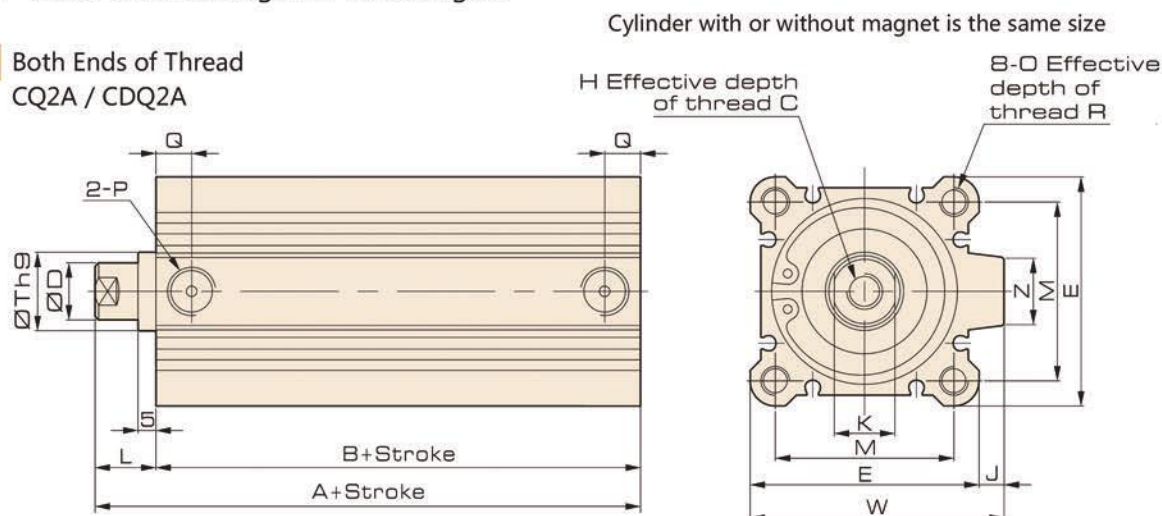
Thin Type Cylinder



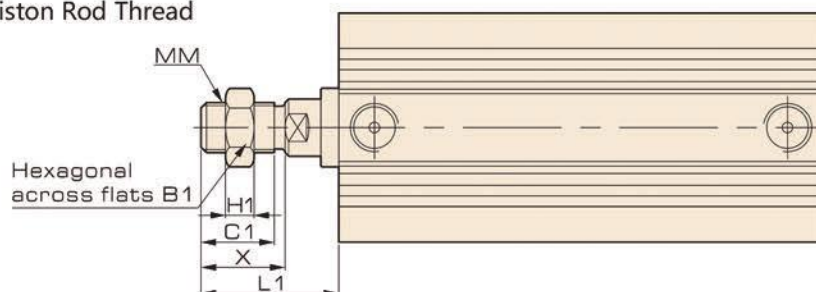
Overall Dimension

Ø32~Ø100 Without magnet / With magnet

Both Ends of Thread CQ2A / CDQ2A



Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	H	J	K	L	M	P	Q
32	100~300	62.5	45.5	13	16	45	M8×1.25	4.5	14	17	34	1/8	12.5
40		72	55	13	16	52	M8×1.25	5	14	17	40	1/8	14
50		73.5	55.5	15	20	64	M10×1.5	7	17	18	50	1/4	14
63		75	57	15	20	77	M10×1.5	7	17	18	60	1/4	16.5
80		86	66	21	25	98	M16×2	6	22	20	77	3/8	19
100		97.5	75.5	27	32	117	M20×2.5	6.5	27	22	94	3/8	23

Bore/Symbol	W	Z	B1	C1	H1	L1	MM	X	O	R	Th9
32	49.5	14	22	20.5	8	38.5	M14×1.5	23.5	M6×1	10	22 ⁰ _{-0.052}
40	57	15	22	20.5	8	38.5	M14×1.5	23.5	M6×1	10	28 ⁰ _{-0.052}
50	71	19	27	26	11	43.5	M18×1.5	28.5	M8×1.25	14	35 ⁰ _{-0.052}
63	84	19	27	26	11	43.5	M18×1.5	28.5	M10×1.5	18	35 ⁰ _{-0.052}
80	104	25	32	32.5	13	53.5	M22×1.5	35.5	M12×1.75	22	43 ⁰ _{-0.052}
100	123.5	25	41	32.5	16	53.5	M26×1.5	35.5	M12×1.75	22	59 ⁰ _{-0.052}