

CQ2 Series

Thin Type Cylinder



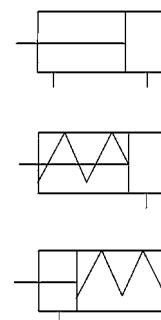
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Ordering Code

C D Q2	B	20	30	D	C	MT
Magnet	Mountings	Bore	Stroke	Operation	Thread	Sensor
Inner magnet	B: Topped stroke tength on 4 holes	12	As S/M chart	D: Double acting	Blank: Female piston rod thread	Blank:
Blank:		16		S: Single acting (Sprung-in)		Without sensor
Without magnet	A: Both end thread hole	20		T: Single Acting (Sprung-out)	M: Male piston rod thread	**Please refer to stroke for proper model of sensor switch
D: With magnet		25		*Bore size of single acting cylinder is fromø12~ø50	C: Runbber	
		32				
		40				
		50				
		63				
		80				
		100				

Symbol



Specification

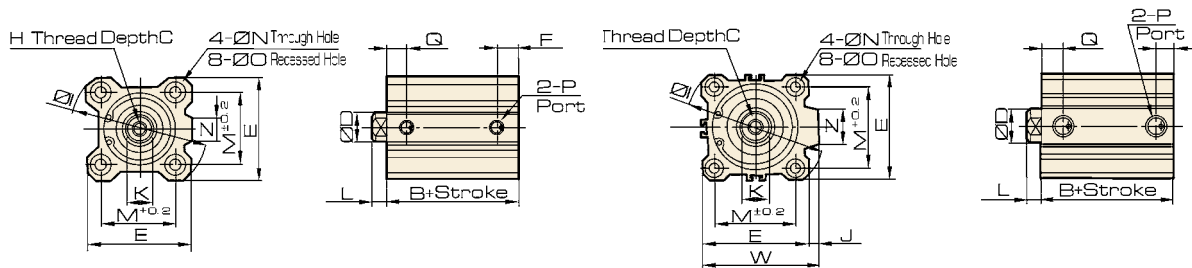
Bore (mm)	12	16	20	25	32	40	50	63	80	100
Operating Fluid	Air									
Operation	Double Acting/ Single Acting: Sprung-in, Sprung-out									
Proof Pressure	1.5 MPa									
Max. Operating Pressure	1.0 MPa									
Ambient and Fluid Temperature	5°C ~ 60 °C									
Piston Rod Thread	Female thread (Standard), Male thread (Optional)									
Cushion	Non-lub									
Piston Acting Speed	50-500 mm/s									
Tolerance Stroke	+1.0 mm 0 mm									
Lubricant	Non-Lub									
Installation	Through Hole (Standard), Two side dove tails (Optional)									
Port Size	M5 x 0.8				1/8		1/4		3/8	

Stroke/Sensor Switch Model

Bore	Standard Stroke (mm)	*With Sensor
12,16	5, 10, 15, 20, 25, 30	5.10 D-A72L D-A76L D-A73L D-A80L D-F78L D-J79L
20,25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	
32,40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100	
50	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100	10.20
63,80,100		

* To choose proper sensor switch, please refer to sensor switch pages.
Lead wire length code as follow:
Blank - 0.5m, L-3m, Z-5m
Example: A72,A72L
* For slide installation.

Overall Dimension



Dimension

Double Acting Cylinder

Model	Stroke Range (mm)	B	ΦD	E	F	H	C	ΦI	J
CQ2B12-□D	5~30	17	6	25	5	M3 x 0.5	6	32	-
CQ2B16-□D	5~30	18.5	8	29	5.5	M4 x 0.7	8	38	-
CQ2B20-□D	5~50	19.5	10	36	5.5	M5 x 0.8	7	47	-
CQ2B25-□D	5~50	22.5	12	40	5.5	M6 x 1.0	12	52	-
CQ2B32-□D	5 10~50	23	16	45	5.5 7.5	M8 x 1.25	13	60	4.5
CQ2B40-□D	5~50	29.5	16	52	8	M8 x 1.25	13	69	5
CQ2B50-□D	10~50	30.5	20	64	10.5	M10 x 1.5	15	86	7
CQ2B63-□D	10~50	36	20	77	10.5	M10 x 1.5	15	103	7
CQ2B80-□D	10~50	43.5	25	98	12.5	M16 x 2.0	21	132	6
CQ2B100-□D	10~50	53	30	117	13	M20 x 2.5	27	156	6.5

Model	K	L	M	ΦN	ΦO	P	Q	W	Z
CQ2B12-□D	5	3.5	15.5	3.5	6.5 deep 3.5	M5 x 0.8	7.5	-	-
CQ2B16-□D	6	3.5	20	3.5	6.5 deep 3.5	M5 x 0.8	8	-	10
CQ2B20-□D	8	4.5	25.5	5.5	9 deep 7	M5 x 0.8	9	-	10
CQ2B25-□D	10	5	28	5.5	9 deep 7	M5 x 0.8	11	-	10
CQ2B32-□D	14	7	34	5.5	9 deep 7	M5 x 0.8 1/8	11.5 10.5	49.5	18
CQ2B40-□D	14	7	40	5.5	9 deep 7	1/8	11	57	18
CQ2B50-□D	17	8	50	6.6	11 deep 8	1/4	10.5	71	22
CQ2B63-□D	17	8	60	9	14 deep 10.5	1/4	15	84	22
CQ2B80-□D	22	10	77	11	17.5 deep 13.5	3/8	16	104	26
CQ2B100-□D	27	12	94	11	17.5 deep 13.5	3/8	23	123.5	26

Stroke

Model	Stroke (mm)	B	F	P	Q
32	75,100	33	7.5	1/8	10.5
40	75,100	39.5	8	1/8	11
50	75,100	40.5	10.5	1/4	10.5
63	75,100	46	10.5	1/4	15
80	75,100	53.5	12.5	3/8	16
100	75,100	63	13	3/8	23

1. Standard stroke is classified every 5 mm.
2. 5, 10, 15 or 20 mm thick gaskets are applied on stroke from 55mm to 100mm (55, 60, 65, 70, 80, 85, 90, 95).
3. Unless specified, the dimension of 4 holes tapped with stroke length cylinder and two side cover talls cylinder are the same.

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Dimension

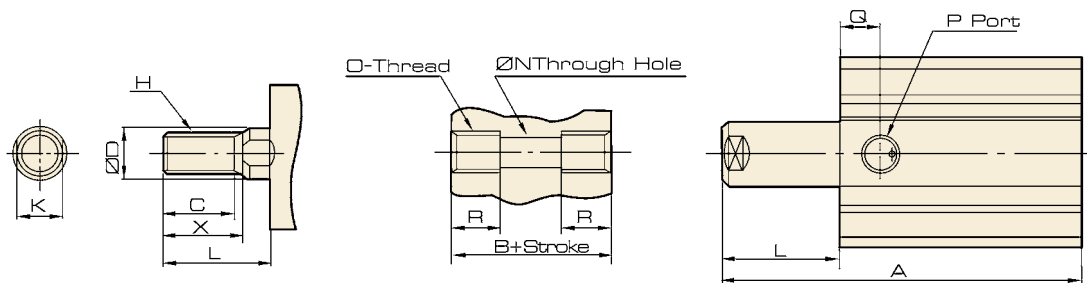
Single Acting Cylinder

Model	B			ΦD	E	F		H	C	ΦI	J	K
	5st	10st	20st			5st	10st					
CQ2B12-□S	22	27	-	6	25	5	5	M3x0.5	6	32	-	5
CQ2B16-□S	23.5	28.5	-	8	29	5.5	5.5	M4x0.7	8	38	-	6
CQ2B20-□S	24.5	29.5	-	10	36	5.5	5.5	M5x0.8	7	47	-	8
CQ2B25-□S	27.5	32.5	-	12	40	5.5	5.5	M6x1.0	12	52	-	10
CQ2B30-□S	28	33	-	16	45	7.5	7.5	M8x1.25	13	60	4.5	14
CQ2B40-□S	34.5	39.5	-	16	52	8	8	M8x1.25	13	69	5	14
CQ2B50-□S	-	40.5	50.5	20	64	10.5	10.5	M20x2.5	15	86	7	17

Model	L	M	ΦN	ΦO	P			Q		W	Z	K
					5st	10st	20st	5st	10st			
CQ2B12-□S	3.5	15.5	3.5	6.5 deep 3.5	M5x0.8			7.5	7.5	-	-	5
CQ2B16-□S	3.5	20	3.5	6.5 deep 3.5	M5x0.8			8	8	-	10	6
CQ2B20-□S	4.5	25.5	5.5	9 deep 7	M5x0.8			9	9	-	10	8
CQ2B25-□S	5	28	5.5	9 deep 7	M5x0.8			11	11	-	10	10
CQ2B30-□S	7	34	5.5	9 deep 7	M5x0.8	1/8	-	10.5	10.5	49.5	18	14
CQ2B40-□S	7	40	5.5	9 deep 7	1/8			11	11	57	18	14
CQ2B50-□S	8	50	6.6	11 deep 8	-	1/4		10.5	10.5	71	22	17

st=Stroke

Overall Dimension



Dimension

Male Piston Rod Thread

Bore (mm)	C	X	ΦD	H	L	K
12	9	10.5	6	M5 x 0.8	14	5
16	10	12	8	M6 x 1.0	15.5	6
20	12	14	10	M8 x 1.25	18.5	8
25	15	17.5	12	M10 x 1.25	22.5	10
32	20.5	23.5	16	M14 x 1.5	28.5	14
40	20.5	23.5	16	M14 x 1.5	28.5	14
50	26	28.5	20	M18 x 1.5	33.5	17
63	26	28.5	20	M18 x 1.5	33.5	17
80	32.5	35.5	25	M22 x 1.5	43.5	22
100	32.5	35.5	30	M22 x 1.5	43.5	27

Both end Thread Hole

Bore (mm)	O	R
12	M4 x 0.7	7
16	M4 x 0.7	7
20	M6 x 1.0	10
25	M6 x 1.0	10
32	M6 x 1.0	10
40	M6 x 1.0	10
50	M18 x 1.25	14
63	M10 x 1.5	18
80	M12 x 1.75	22
100	M12 x 1.75	22

Single Acting, Sprung-out

Bore (mm)	A			L		
	5st	10st	20st	5st	10st	20st
12	30.5	40.5	-	8.5	13.5	-
16	32	32	-	8.5	13.5	-
20	34	34	-	9.5	14.5	-
25	37.5	37.5	-	10	15	-
32	40	50	-	12	17	-
40	46.5	56.5	-	12	17	-
50	-	58.5	78.5	-	18	28

* Unless Specified, the dimension of the type stroke length cylinder end two side cover tails cylinder are the same.