

CQ2 Series Compact Cylinder:



1.Ordering Code :

CQ2	В -	12 x	10	D -	
Ť	↑	1	Ť	Ť	Ť
Model	Mounting style	Bore	Stroke	Action type	Rod thread type
CQ2: Normal type	A: Female thread	12~100mm	0~100mm	D:Double action	Blank: Female thread
CDQ2: With magnet inside	on both ends B: With through hole			S:Single action with spring return	M: Male thread C: With cushion
				T:Single action	
				with spring extent	

2.Characteristics:

- 1) This series of cylinder conforms to: SMC standard
- 2) Improved water and magnetic resistance performance
- 3) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 4) Needn't lubricate on piston rod by oil

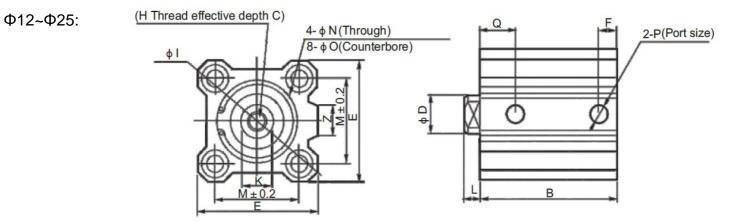
3.Specification:

Bore(mm)	12	16	20	25	32	40	50	63	80	100
Working Medium			,		A	Nir				
Motion Pattern		C	ouble actio	n/Single Ad	tion Extrus	ion type/Si	ngle Action	Drawing-in	Туре	
Ensured Pressure Resistance					15.3kgf/cn	n²(<mark>1.5</mark> Mpa)				
Max.pressure					10.2kgf/cn	n²(1.0Mpa)				
Environment and fluid temp					5~+	6 0° C				
Thread Type			1	nner Threa	d(Standard)/Outer Thr	ead(Option	al)		
Buffering					N	0				
Margin of Stroke Error(mm)					+1	.0				
Installation			Through	Hole (Stan	dard), Inn	er size on t	he two side	s(Optional)		
Port size		M5	×0.8		G1	/8"	G1	/4"	G3	3/8"

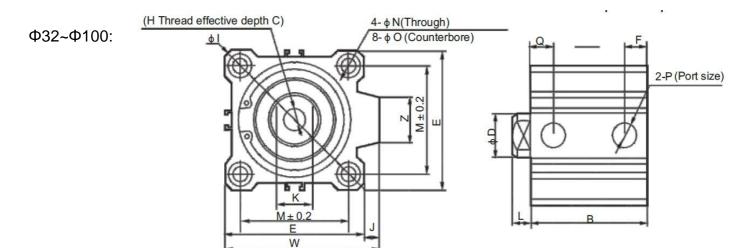
Note:Pls Confirm Single Type Can't With Cushion.

4. Overall and Dimension Sheet:

1) Through hole type CQ2 series:







Dimension for double action type:

Model	Stroke range (mm)	В	ΦD	E	F	н	С	ΦI	J	к	L	М	ΦN	ФО	Р	Q	W	Z
CQ2B12-D	5~30	17+st	6	25	5	M3×0.5	6	32	-	5	3.5	15.5	3.5	6.5 depth 3.5	M5×0.8	7.5	-	-
CQ2B16-D	5~30	18.5+st	8	29	5.5	M4×0.7	8	38	3	6	3.5	20	3.5	6.5 depth 3.5	M5×0.8	8	-	10
CQ2B20-	5~50	19.5+st	10	36	5.5	M5×0.8	7	47	-	8	4.5	25.5	5.5	9 depth 7	M5×0.8	9	-	10
CQ2B25-D	5~50	22.5+st	12	40	5.5	M6×1.0	12	52	12	10	5	28	5.5	9 depth 7	M5×0.8	11	20	10
CQ2B32-D	5	221 at	16	45	5.5	M8×1.25	10	60	4 5	14	7	34	5.5	9 depth 7	M5×0.8	11.5	49.5	40
	10~50	23+st	16	45	7.5	10 ^ 1.23	13	60	4.5	14	1	34	5.5	9 deput /	1/8	10.5		10
CQ2B40-□D	5~50	29.5+st	16	52	8	M8×125	13	69	5	14	7	40	5.5	9 depth 7	1/8	11	57	18
CQ2B50-□D	10~50	30.5+st	20	64	10.5	M10×1.5	15	86	7	17	8	50	6.6	11 depth 8	1/4	10.5	71	22
CQ2B63-DD	10~50	36+st	20	77	10.5	M10×1.5	15	103	7	17	8	60	9	14 depth 10.5	1/4	15	84	22
CQ2B80-DD	10~50	43.5+st	25	98	12.5	M16×2.0	21	132	6	22	10	77	11	17.5 depth 13.5	3/8	16	104	26
CQ2B100-	10~50	53+st	30	117	13	M20×2.5	27	156	6.5	27	12	94	11	17.5 depth 13.5	3/8	23	123.5	26

Note 1)The standard stroke is at a distance of each 5 mm.

Note 2)The stroke between 55mm-100mm(55,60,65,70,80,85,90,95,)need to be added thickness of 5,10,15 or 20mm pad.

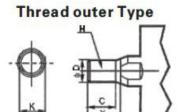
Note 3)External dimensions with rumper are same as stsndard type as shown above.

Long Stroke:						
-	Model	(mm)	В	F	Ρ	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	<mark>1</mark> 3	3/8	23
			St=	(Stro	ke)	

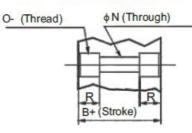


Dimension for single action type:

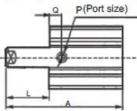
Model		В		-	-	1	F	10	~	d i	14	12	112		(DA)	0		P		C	2	100	-
Model	5st	10st	20st	ΦD	E	5st	10st	Н	С	Ф	J	ĸ	F	M	ΦN	ΦΟ	5st 1	Ost 2	20st	5st	10st		Z
CQ2B12-DS	22	27		6	25	5	5	M3×0.5	6	32	:	5	3.5	15.5	3.5	6.5 /depth 3.5	M5×0	.8	-	7.5	7.5	-	-
CQ2B16-DS	23.5	28.5	328	8	29	5.5	5.5	M4×0.7	8	38	12	6	3.5	20	3.5	6.5 /depth 3.5	M5×0	8.0	-	8	8	1	10
CQ2B20-DS	24.5	29.5	8.79	10	36	5.5	5.5	M5×0.8	7	47	0.00	8	4.5	25.5	5.5	9 /depth 7	M5×0	.8	5	9	9	-	10
CQ2B25-DS	27.5	32.5	329	12	40	5.5	5.5	M6×1.0	12	52	-	10	5	28	5.5	9 /depth 7	M5×0	.8	2	11	11	12	10
CQ2B32-S	28	33		16	45	5.5	7.5	M8×1.25	13	60	4.5	14	7	34	5.5	9 /depth 7	M5×0.8 1	/8	-	11.5	11.5	49.5	18
CQ2B40-	34.5	39.5	12	16	52	8	8	M8×1.25	13	69	5	14	7	40	5.5	9 /depth 7	1/8		2	11	11	57	18
CQ2B50-DS	- 1	40.5	50.5	20	64	10.5	10.5	M10×1.5	15	86	7	17	8	50	6.6	11 /depth 8	-	1/4		10.5	10.5	71	22



Inner Thread Type/CO2A



Single Action (with Spring extent) φ 12~ φ 50



Thread outer Type

Bore (mm)	С	x	ΦD	н	L	к	Bore (mm)	0	R	Bore (mm)	5st	
12	9	10.5	6	M5×0.8	14	5	12	M4×0.7	7	12	30.5	
16	10	12	8	M6×1.0	15.5	6	16	M4×0.7	7	16	32	
20	12	14	10	M8×1.25	18.5	8	20	M6×1.0	10	20	34	
25	15	17.5	12	M10×1.25	22.5	10	25	M6×1.0	10	25	37.5	
32	20.5	23.5	16	M14×1.5	28.5	14	32	M6×1.0	10	32	40	
40	20.5	23.5	16	M14×1.5	28.5	14	40	M6×1.0	10	40	46.5	
50	26	28.5	20	M18×1.5	33.5	17	50	M8×1.25	14	50	-	
63	26	28.5	20	M18×1.5	33.5	17	63	M10×1.5	18	*Extern	al dime	
80	32.5	35.5	25	M22×1.5	43.5	22	80	M12×1.75	22	stsnda	ard type	
100	32.5	35.5	30	M26×1.5	43.5	27	100	M12×1.75	22			

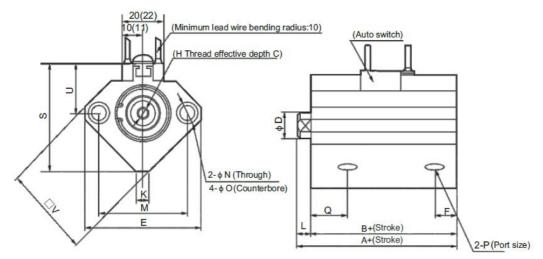
Note3)InnerThread Type Single Action (with Spring extent)

Bore		Α			L	
(mm)	5st	10st	20st	5st	10st	20st
12	30.5	40.5	2	8.5	13.5	2
16	32	42	-	8.5	13.5	÷
20	34	44		9.5	14.5	÷
25	37.5	47.5	-	10	15	-
32	40	50	÷	12	17	-
40	46.5	56.5	2	12	17	-
50	-	58.5	78.5		18	28
	(mm) 12 16 20 25 32 40	(mm) 5st 12 30.5 16 32 20 34 25 37.5 32 40 40 46.5	(mm) 5st 10st 12 30.5 40.5 16 32 42 20 34 44 25 37.5 47.5 32 40 50 40 46.5 56.5	Solution 5st 10st 20st 12 30.5 40.5 - 16 32 42 - 20 34 44 - 25 37.5 47.5 - 32 40 50 - 40 46.5 56.5 -	(mm) 5st 10st 20st 5st 12 30.5 40.5 - 8.5 16 32 42 - 8.5 20 34 44 - 9.5 25 37.5 47.5 - 10 32 40 50 - 12 40 46.5 56.5 - 12	(mm) 5st 10st 20st 5st 10st 12 30.5 40.5 - 8.5 13.5 16 32 42 - 8.5 13.5 20 34 44 - 9.5 14.5 25 37.5 47.5 - 10 15 32 40 50 - 12 17 40 46.5 56.5 - 12 17

External dimensions with rumper are same as stsndard type as shown above.

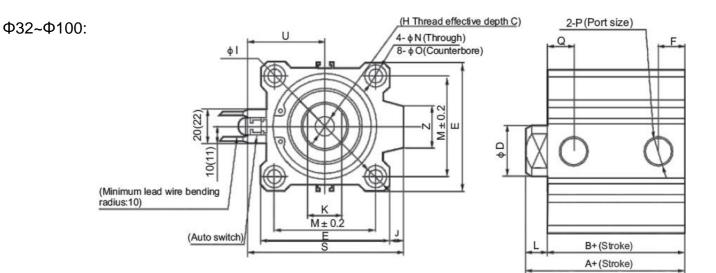
2) CDQ2 series:

Φ12~Φ25:



www.fescolo.com





Dimension for double action type:

Model	Stroke range (mm)	Α	В	ΦD	Е	F	Н	С	ΦI	J	ĸ	L	Μ	ΦN	ФО	Р	Q	S	U	V	Z
CDQ2B12	5~30	31.5	28	6	32	6.5	M3×0.5	6	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	-	5	3.5	22	3.5	6.5 depth 3.5	M5×0.8	11	35.5	19.5	25	-
CDQ2B16	<mark>5~3</mark> 0	34	30.5	8	38	5.5	M4×0.7	8	-	-	6	3.5	28	3.5	6.5 depth 3.5	M5×0.8	10	41.5	22.5	29	-
CDQ2B20	5~50	36	31.5	10	46.8	5.5	M5×0.8	7		-	8	4.5	36	5.5	9 depth 7	M5×0.8	10.5	48	24.5	36	-
CDQ2B25	5~50	37.5	32.5	12	52	5.5	M6×1.0	12	-	<u>i</u>	10	5	40	5.5	9 depth 7	M5×0.8	11	53.5	27.5	40	-
CDQ2B32	5~50	40	33	16	45	7.5	M8×1.25	13	60	4.5	14	7	34	5.5	9 depth 7	1/8	10.5	58.5	31.5	-	18
CDQ2B40	5~50	46.5	<mark>39.5</mark>	16	52	8	M8×1.25	13	69	5	14	7	40	5.5	9 depth 7	1/8	11	66	35	2	1
CDQ2B50	10~50	48.5	40.5	20	64	10.5	M10×1.5	15	86	7	17	8	50	6.6	11 depth 8	1/4	10.5	80	41	-	2
CDQ2B63	10~50	54	46	20	77	10.5	M10×1.5	15	103	7	17	8	60	9	14 depth 10.5	1/4	15	93	47.5	-	22
CDQ2B80	10~50	63.5	53.5	25	98	12.5	M16×2.0	21	132	6	22	10	77	11	17.5 depth 13.5	3/8	16	112.5	57.5	-	26
CDQ2B100	10~50	75	63	30	117	13	M20×2.5	27	156	6.5	27	12	94	11	17.5 depth 13.5	3/8	23	132.5	67.5	2	2

Long Stroke:

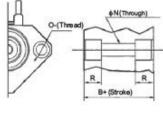
Model	Stroke	Α	В	F	Ρ	Q
32	75,100	40	33	7.5	1/8	10.5
40	75,100	46.5	39.5	8	1/8	11
50	75,100	48.5	40.5	10.5	1/4	10.5
63	75,100	54	46	10.5	1/4	15
80	75,100	63.5	53.5	12.5	3/8	16
100	75,100	75	63	13	3/8	23

Note 1)The standard stroke is at a distance of each 5 mm.

Note 2)The stroke between 55mm-100mm(55,60,65,70,80,85,90,95,)need to be added thickness of 5,10,15 or 20mm pad. Note 3)External dimensions with rumper are same as stsndard type as shown above.

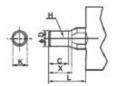
Note 4)The stroke of cylinder in 5 mm can be fixed only one magnetism swith

CDQ2A	in ner Thread Type
8	



Inner T	hread Type	<u></u>
Bore (mm)	0	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14
63	M10×1.5	18
80	M12×1.75	22
100	M12×1.75	22

Outer thread type



Bore (mm)	С	x	ΦD	н	L	ĸ
12	9	10.5	6	M5×0.8	14	5
16	10	12	8	M6×1.0	15.5	6
20	12	14	10	M8×1.25	18.5	8
25	15	17.5	12	M10×1.25	22.5	10
32	20.5	23.5	16	M14×1.5	28.5	14
40	20.5	23.5	16	M14×1.5	28.5	14
50	26	28.5	20	M18×1.5	33.5	17
63	26	28.5	20	M18×1.5	33.5	17
80	32.5	35.5	25	M22×1.5	43.5	22
100	32.5	35.5	30	M26×1.5	43.5	27