

SMC Corporation

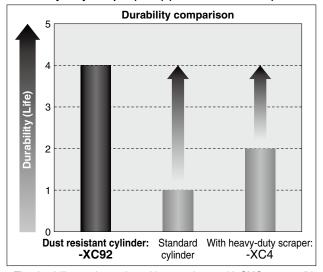
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09-E558D-DN Printing OZ 12450SZ

Dust Resistant Cylinder Series CM2/CQS/CQ2/MGP-XC92

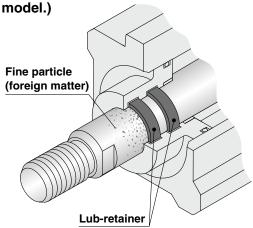
- Applicable for environments with flying micro-powder such as ceramic powder, toner powder, paper powder, and metallic powder (except weld spatter).
- 4 times stronger than the standard model

Comparison with the standard model and model with heavy-duty scraper (-XC4) (Relative ratio of B₁₀)



st The durability test is conducted in accordance with SMC test conditions.

- 2 Lub-retainers on the rod cover prevent micro-powder (20 to 30 μm) from entering.
- The Lub-retainers create coat with grease on the piston rod for improving durability.
- The full length dimensions of the CQ2 and MGP series are compatible with models with a heavy-duty scraper (-XC4). (The CM2 series dimensions are the same as the standard



Series CQ2-XC92

Applicable Cylinder



Series CM2-XC92 ø20 to ø40

Compact Cylinder/



Series CQS-XC92 ø12 to ø25

Compact Cylinder



Series CQ2-XC92 Ø32 to Ø100

Compact Guide Cylinder



Series MGP-XC92 Ø12 to Ø100

Specifications

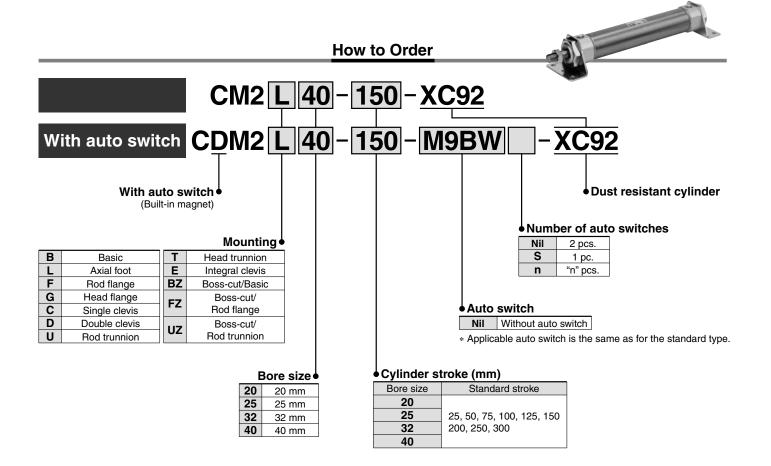
Applicable series	Bore size (mm)	Minimum operating pressure		
CM2	ø20 to ø40	0.1 MPa		
000	ø12, ø16	0.14 MPa		
CQS	ø20, ø25	0.1 MPa		
CQ2	ø32 to ø100	0.1 MPa		

Specifications other than above are the same as standard model.

Applicable series	Bore size	Minimum operating pressure	
MGP	-XC92	ø12, ø16	0.2 MPa
	(With lub-retainers on one side)	ø20 to ø100	0.15 MPa
	-XC92W	ø12, ø16	0.25 MPa
	(With lub-retainers on both sides)	ø20 to ø100	0.2 MPa



Series CM2-XC92 ø20, ø25, ø32, ø40



Dimensions

The CM2 series dimensions are the same as the standard model.

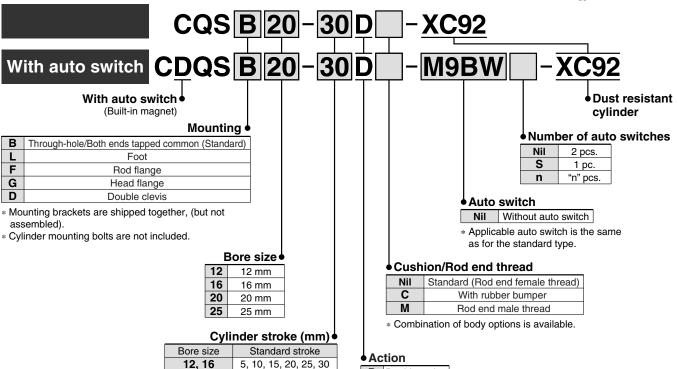


CQS-XC92 Series

ø12, ø16, ø20, ø25

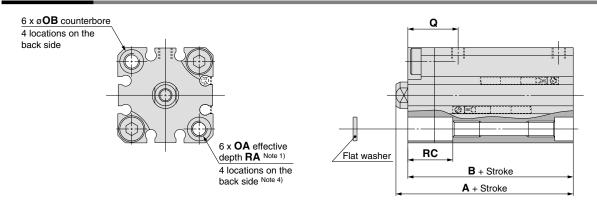
How to Order





Dimensions (Other dimensions are the same as the standard type.)

20, 25



5, 10, 15, 20, 25, 30

35, 40, 45, 50

Note 1) For the standard type ø12 and ø16 with 5 strokes, ø20 with 15 strokes or less, and ø25 with 5 or 10 strokes, and for models with an auto switch and built-in magnet of ø20 with 5 strokes, the through-hole is threaded over the entire length.

D Double acting

- Note 2) Be sure to use the attached flat washer for mounting cylinder with through-holes.
- Note 3) For models with a rubber bumper, the stroke tolerance does not include bumper deflection.
- Note 4) 2 locations on the back side for the standard-type ø20 with 15 strokes or less and ø25 with 5 strokes, and for models with an auto switch and built-in magnet.

									(mm)
Bore size	A		В		Q	OA	ОВ	RA	RC
(mm)	Without auto switch	With auto switch	Without auto switch	With auto switch	Q	UA	ОВ	na	nc
12	30.5	35.5	27	32	17.5	M4 x 0.7	6.5	7	14
16	30.5	35.5	27	32	17.5	M4 x 0.7	6.5	7	14
20	34	44	29.5	39.5	19	M6 x 1.0	9	10	17
25	37.5	47.5	32.5	42.5	21	M6 x 1.0	9	10	17

Series CQ2-XC92

ø32, ø40, ø50, ø63, ø80, ø100

How to Order





With auto switch CDQ2 B 32 - 30 D

With auto switch

(Built-in magnet)

Mounting •

В	Through-hole (Standard)					
Α	Both ends tapped					
L	Foot					
F	Rod flange					
G	Head flange					
D	Double clevis					

- * Mounting brackets are shipped together, (but not assembled).
- * Cylinder mounting bolts are not included.

	sore size
32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm

Cylinder stroke (mm)

Bore size	Standard stroke
32, 40	5, 10, 15, 20, 25, 30, 35 40, 45, 50, 75, 100
50 to 100	10, 15, 20, 25, 30, 35 40, 45, 50, 75, 100

100 100 mm

Dust resistant cylinder

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Auto switch

Nil Without auto switch

Applicable auto switch is the same as for the standard type.

Auto switch mounting groove

Z ø32 to ø100 4 surfaces

■ Body option

Nil	Standard (Rod end female thread)
С	With rubber bumper
M	Rod end male thread

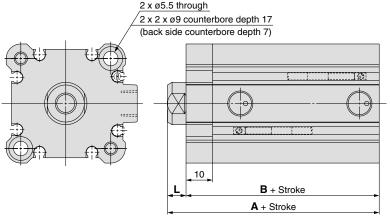
^{*} Combination of body options is available.

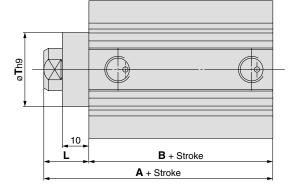
(mm)

Action

D Double acting

Dimensions (Other dimensions are the same as the standard type.)





ø32

4

Bore size (mm) Without auto switch | With auto switch

Т L Without auto switch | With auto switch 32 40 (50) 50 33 (43) 43 7 40 46.5 (56.5) 56.5 29.5 (39.5) 39.5 17 28 50 48.5 (58.5) 58.5 30.5 (40.5) 40.5 18 35 63 36 (46) 54 (64) 64 46 18 35 80 63.5 (73.5) 73.5 43.5 (53.5) 53.5 20 43 100 85 22 59 75 (85) 53 (63) 63

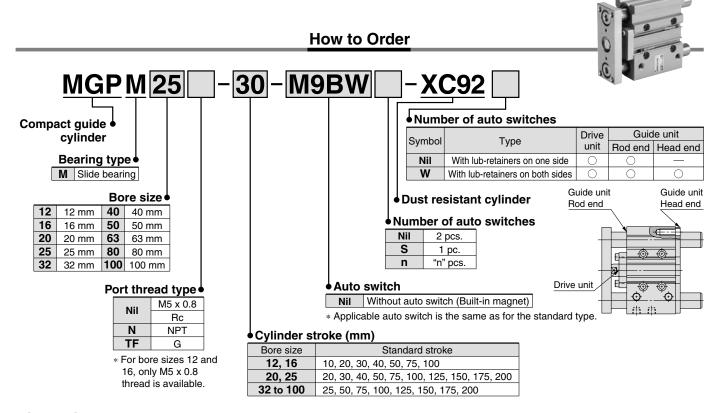
ø40 to ø100

Note 1) For models with a rubber bumper, the stroke tolerance does not include bumper deflection.

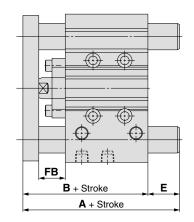
Note 2) Dimensions in () indicates 75 st and 100 st

Series MGP-XC92

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100



Dimensions (Other dimensions are the same as the standard type.)



With lub-retainers on one side							
D	Α						
Bore size (mm)	50 st or less	Over 50 st and 200 st or less*	В	50 st or less	Over 50 st and 200 st or less*	FB	
12	52	70.5	52	0	18.5	15	
16	56	74.5	56	0	18.5	15	
20	63	94.5	63	0	31.5	16	
25	63.5	95	63.5	0	31.5	16	
32	97	112	69.5	27.5	42.5	20	
40	97	112	76	21	36	20	
50	106.5	128	82	24.5	46	22	
63	106.5	128	87	19.5	41	22	
80	125	152	106.5	18.5	45.5	28	
100	147	172	126	21	46	35	

With lub-retainers on both sides (mm)

Bore size (mm)

AW EW FT MT HT

12 63 6 5 5 5 57

Bore size (mm)	AW	EW	FT	МТ	нт
12	63	6	5	5	57
16	67	6	5	6	64
20	74	6	5	6	80
25	74.5	6	5	7	93
32	82.5	7	6	9	110
40	89	7	6	9	118
50	95	7	6	11	146
63	100	7	6	11	160
80	120.5	8	6	14	200
100	143	8	9	16	236



^{*} The standard stroke for Ø12 and Ø16 is 100 st.