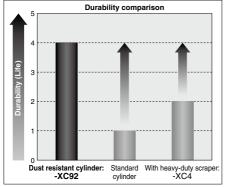
## **Dust Resistant Cylinder**

### CM2/CQS/CQ2/MGP-XC92

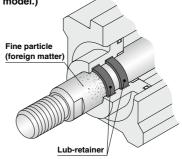
- Applicable for environments with flying micro-powder such as ceramic powder, toner powder, paper powder, and metallic powder (except weld spatter).
- 4 times stronger than the standard model

Comparison with the standard model and model with heavy-duty scraper (-XC4) (Relative ratio of B<sub>10</sub>)



\* 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 model.)



CQ2-XC92

#### **Applicable Cylinder**



ø20 to ø40





CQS-XC92 ø12 to ø25

#### Compact Cylinder



CQ2-XC92 ø32 to ø100

#### Compact Guide Cylinder



MGP-XC92 ø12 to ø100

#### **Specifications**

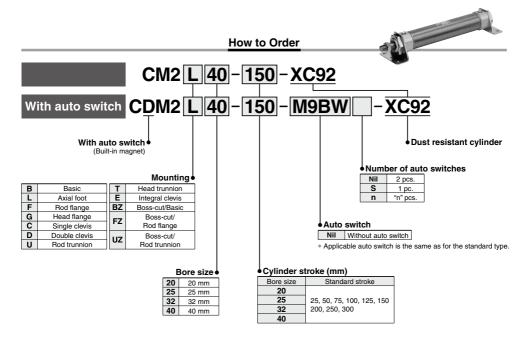
Applicable series	Bore size (mm)	Minimum operating pressure
CM2	ø20 to ø40	0.1 MPa
cos	ø12, ø16	0.14 MPa
CQS	ø20, ø25	0.1 MPa
CQ2	ø32 to ø100	0.1 MPa

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
IVIGE	-XC92W	ø12, ø16	0.25 MPa
	(With lub-retainers on both sides)	ø20 to ø100	0.2 MPa



# Dust Resistant Cylinder **CN2-XC92**©20, ©25, ©32, ©40



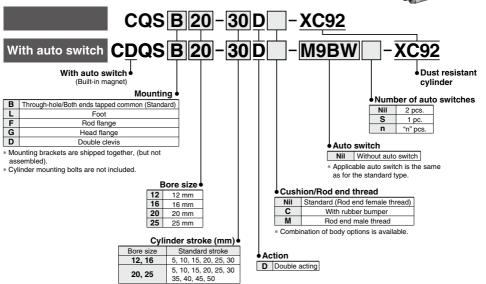
#### **Dimensions**

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

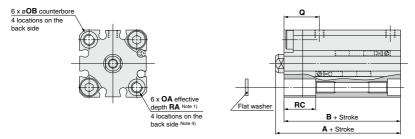
# Dust Resistant Cylinder **CQS-XC92**Ø12, Ø16, Ø20, Ø25

#### **How to Order**





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



- 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.
- 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.

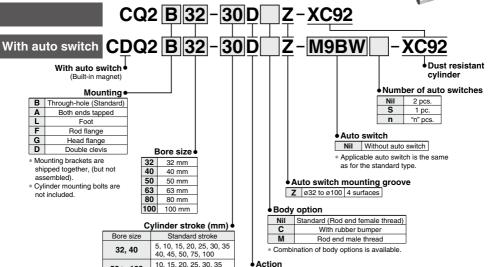
									(111111)
Bore size	Α		В		Q	OA	ОВ	RA	RC
(mm)	Without auto switch	With auto switch	Without auto switch	With auto switch	u	UA	ОВ	na	nc
12	30.5	35.5	27	32	17.5	M4 x 0.7	6.5	7	14
16	30.5	35.5	27	32	17.5	M4 x 0.7	6.5	7	14
20	34	44	29.5	39.5	19	M6 x 1.0	9	10	17
25	37.5	47.5	32.5	42.5	21	M6 x 1.0	9	10	17

# Dust Resistant Cylinder CQ2-XC92

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100

#### **How to Order**



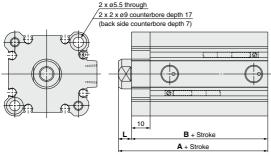


D Double acting

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

50 to 100

40, 45, 50, 75, 100



ø <b>T</b> h9		
<u>+</u>	1	
		B + Stroke

ø32

						(111111)
Bore size	A		E	В		
(mm)	Without auto switch	Without auto switch   With 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	54 (64)	64	36 (46)	46	18	35
80	63.5 (73.5)	73.5	43.5 (53.5)	53.5	20	43
100	75 (85)	85	53 (63)	63	22	59

ø40 to ø100

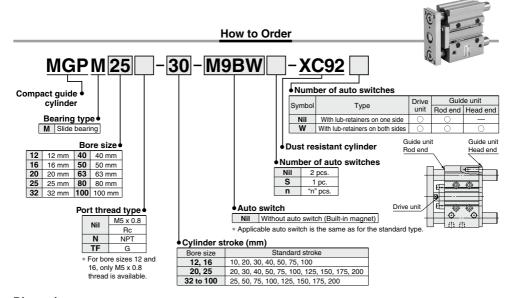
Note 1) For models with a rubber bumper, the stroke tolerance does not include bumper deflection.

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

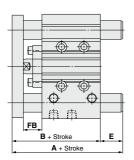
## Dust Resistant Cylinder IICD\_VCQ2

MGP-XC92

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



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



With lub-re	With lub-retainers on one side (mn						
D	- 1	4					
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	

	AW +	FT_2 x Stroke		EW + 5	Stroke
With lub-re	etainers o	on both s	sides		(mı
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

F

74.5

82.5

120.5



<sup>\*</sup> The standard stroke for ø12 and ø16 is 100 st.

### RHC-XC93□ With Greater Water Resistance + Stable Lubrication Function



#### **\**

#### With Greater Water Resistance + Stable Lubrication Function

Symbol -XC93

·5 times stronger against water (liquids) than the standard model

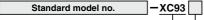
Equipped with the greater water resistant scraper (Fluororubber). The Lube-retainer creates grease coating around the piston rod, which improves lubrication.

·Stainless steel can be selected for the piston rod and rod end nut.

#### **Applicable Series**

Series	Description	Model	Action	Note	Vol. no. (for std model)
RHC	High power cylinder	RHC	Double acting, Single rod	Applicable bore size: ø32, ø40 Rc port only	Web Catalog

#### **How to Order**

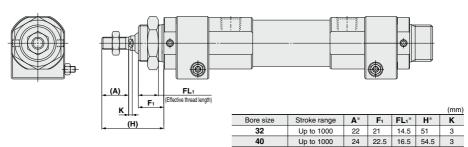


With greater water resistance + stable lubrication function

#### Piston rod,

ilou ollu liut illutollui					
Nil	Standard (Carbon steel)				
S	Stainless steel				

#### Dimensions (Dimensions other than below are the same as standard type.)



\*: Same as the standard model.