Dust Resistant Cylinder

■ Up to 6 times more durable in dusty environments

Applicable powder particle size: 20 to 100 μm Suitable for environments with ceramic powder, toner powder, paper powder, and metallic powder

* Excludes weld spatter



Air Cylinder MB-XC4□

New Air Cylinder CG1-XC4□

New Air Cylinder CM2-XC4





RoHS

Compact Cylinder CQ2-XC4□

Compact Guide Cylinder MGP-XC4□

Can be selected according to the application

A Lube-retainer (stable lubrication function) and a heavy-duty scraper can be mounted on the piston rod.

For the MGP series compact guide cylinder, they can also be mounted on the guide rod (one or both sides).

High Durability Series

High Durability Series is the series name for the "special specification" that offers superior durability and environmental resistance compared to standard products.

Description	Applicable powder particle size	Structure (CQ2)	Durability
With 2 Lube-retainers XC4A	20 to 50 μm	Lube-retainer Lube-retainer	Standard model
With heavy-duty scraper + Lube-retainer XC4B	30 to 100 μm	Lube-retainer Heavy-duty scraper	Standard model
With heavy-duty scraper XC4C	50 to 100 μm	Heavy-duty scraper	2 times Standard model

The rod cover assembly can be replaced according to the operating environment. (For details p.9) ∗ Only for bore sizes ø20, ø25, and ø32 of the CQ2-XC4□

Applicable Cylinders

Series -		Bore size [mm]							Cushion	Domo			
		12	16	20	25	32	40	50	63	80	100	Cushion	Page
	CM2-XC4□			•	•	•	•					Rubber	p. 1
	CG1-XC4□			•	•	•	•	•	•	•	•	Rubber	p. 3
	MB-XC4□					•	•	•	•	•	•	Air or Rubber	p. 5
0	CQ2-XC4□			•	•	•	•	•	•			None or Rubber	p. 7
000	MGP-XC4□	•	•	•	•	•	•	•	•	•	•	Rubber	p. 11



Dust Resistant Cylinder

CM2-XC4

Ø20, Ø25, Ø32, Ø40



Mounting

В	Basic (Double-side bossed)
L	Axial foot bracket
F	Rod flange
G	Head flange
С	Single clevis
D	Double clevis
U	Rod trunnion

Т	Head trunnion
E	Integrated clevis
٧	Integrated clevis (90°)
BZ	Boss-cut/Basic
FZ	Boss-cut/Rod flange
UZ	Boss-cut/Rod trunnion

2 Bore size

_	
20	20 mm
25	25 mm
32	32 mm
40	40 mm

3 Port thread type

	71
Nil	Rc
TN	NPT
TF	G

* The available port thread types vary slightly from those of the standard product. For details, refer to the "Dimensions" section.

4 Cylinder stroke [mm]

Bore size [mm]	Standard stroke [mm]*1	Max. manufacturable stroke [mm]
20		
25	25, 50, 75, 100, 125,	1000
32	150, 200, 250, 300	1000
40		

*1 Intermediate strokes not listed above are produced upon receipt of order.

The manufacturing of intermediate strokes in 1 mm increments is possible. (Spacers are not used.)

5 Rod end thread

Nil	Male rod end
F	Female rod end

6 Pivot bracket

•		
Nil	No bracket	
N	Pivot bracket	

- Only for "C," "T," "U," "E," "V," and "UZ" mounting types
- The pivot bracket is shipped together with the product but does not come assembled.

7 Rod end bracket

Nil	No bracket	W	Double knuckle joint
٧	Single knuckle joint	Q	Rod end

- * No bracket is provided for the female rod end.
- * A knuckle joint pin is not provided with the single knuckle joint.
- * The rod end bracket is shipped together with the product but does not come assembled.

8 Auto switch

Nil	Without auto switch

* For applicable auto switches, refer to the **Web Catalog**.

Number of auto switches

Nil	2
S	1
n	n

Dust resistant specifications

	<u> </u>				
XC4A	With 2 Lube-retainers (Applicable powder particle size: 20 to 50 µm)	Lube-retainer			
хс4в	With heavy-duty scraper + Lube-retainer (Applicable powder particle size: 30 to 100 µm)	Lube-retainer Heavy-duty scraper			
XC4C	With heavy-duty scraper (Applicable powder particle size: 50 to 100 μm)	Heavy-duty scraper			

Specifications

Bore size [mm]		20	25	32	40
Туре			Pneu	matic	
Action		Double acting, Single rod			
Fluid			Α	vir	
Proof pressure			1.5	MPa	
Max. operating pressure			1.0	MPa	
	XC4A		0.4 MD-		
Min. operating pressure	XC4B	0.1 MPa			
pressure	XC4C	0.05 MPa			
Ambient and fluid temperatures		Without auto switch: -10°C to 70°C (No freezing) With auto switch: -10°C to 60°C			
Lubrication		Not required (Non-lube)			
Stroke length tolerance*1		+1.4 mm			
Piston speed		50 to 750 mm/s			
Cushion		Rubber bumper			
·					

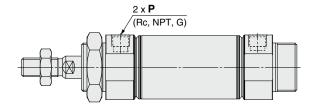
*1 Does not include the amount of bumper change



For the mounting bracket dimensions, refer to the standard CM2 series cylinder (double acting, single rod).

Dimensions (Dimensions other than those shown below are the same as those of the standard model.)

CM2-XC4□



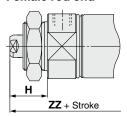
						[mm]
	XC	24A, XC4	4B		XC4C	
Bore size		Р			Р	
	Rc	NPT	G	Rc	NPT	G
20	(1/8)	M5 >	0.8		(1/8)	
25	(1/8)			(1/8)		
32	32 (1/8)			(1/8)		
40	(1/4)			(1/4)		

 $\ast\,$ The dimensions in () are the same as those of the standard type.

CM2-XC4B/4C

- $\ast\,$ The "-XC4A" has the same dimensions as the standard model.
- * The male rod end type has the same dimensions as the standard model.

Female rod end



		[mm]
Bore size	Н	ZZ
20	24	99
25	24	99
32	24	101
40	26	130



Dust Resistant Cylinder

CG1-XC4



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

Mounting

В	Basic (Without trunnion mounting female thread)	
Z *1	Basic (With trunnion mounting female thread)	
L	Axial foot bracket	
F	Rod flange	
G	Head flange	
U*1	Rod trunnion	
T *1	Head trunnion	
D	Clevis	

- *1 Not available for bore sizes Ø80 and Ø100
- * Mounting brackets are shipped together with the product but do not come assembled.
- * The cylinder for "L," "F," "G," and "D" mounting types is the basic type ("B" Without trunnion mounting female thread).
- Only the "-XC4C" can be selected for mounting type.
- * For the "-XC4A" and "-XC4B," the trunnion mounting female thread for mounting types "Z" and "T" is only provided on the head side.

The presence (mounting type "Z") or absence (mounting type "B") of the trunnion mounting female thread differs from the existing CG1 series product. Choose "Z" when mounting a trunnion afterward.

Rod end bracket

Nil	No bracket	
V	Single knuckle joint	
W	Double knuckle joint	
Q Rod end		

- No bracket is provided for the female rod end.
- The rod end bracket is shipped together with the product but does not come assembled.
- A knuckle joint pin is not provided with the single knuckle joint.

2 Bore size

Symbol	Bore size	XC4A	XC4B	XC4C
20	20 mm	•	_	_
25	25 mm	•	_	_
32	32 mm	•	•	•
40	40 mm	•	•	•
50	50 mm	•	•	•
63	63 mm	•	•	•
80	80 mm	•	_	_
100	100 mm	•	_	_

3 Port thread type

Rubber bumper

Nil	M5 x 0.8	ø20, ø25
IVII	Rc	
TN	NPT*2	ø32 to ø100
TF	G*2	

*2 Not available for bore sizes ø20 and ø25

8 Auto switch

Nil	Without auto switch

* For applicable auto switches, refer to the **Web Catalog**.

9 Number of auto switches

Nil	2
S	1
n	n

4 Cylinder stroke [mm]

Bore size	Standard stroke*3	Manufacturable stroke
20	25, 50, 75, 100, 125, 150, 200	
25		
32	i	1 to 1000
40	25, 50, 75, 100, 125,	
50, 63	150, 200, 250, 300	
80		
100		

*3 Intermediate strokes not listed above are produced upon receipt of order. The manufacturing of intermediate strokes in 1 mm increments is possible. (Spacers are not used.)

6 Rod end thread

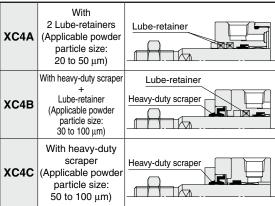
Nil	Male rod end	
F	Female rod end	

6 Pivot bracket

	•				
Nil	No bracket				
N	Pivot bracket				

- * Only for "D" and "T" mounting types
- * The pivot bracket is shipped together with the product but does not come assembled.

Dust resistant specifications



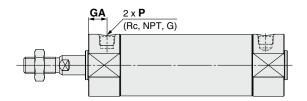
Specifications

D! []	XC4A	20	25	32	40	50	63	80	100
Bore size [mm]	XC4B, XC4C	_	_	32	40	50	63	_	_
Туре	Pneumatic								
Action	Double acting, Single rod								
Fluid	Fluid Air								
Proof pressure 1.5 MPa									
Max. operating pressure 1.0 MPa									
Min anaustina nasaassa XC4A, XC4B		0.1 MPa							
Min. operating pressure	XC4C	0.05 MPa							
A bi A d florid A		Without auto switch: -10°C to 70°C (No freezing)							
Ambient and fluid temperatu	162	With auto switch: -10°C to 60°C (No freezing)							
Lubricant	Not required (Non-lube)								
Stroke length tolerance	*1.4 mm								
Piston speed		50 to 1000 mm/s 50 to 700 mm/s					00 mm/s		
Cushion		Rubber bumper							

For the mounting bracket dimensions, refer to the standard CG1 series cylinder (double acting, single rod).

Dimensions (Dimensions other than those shown below are the same as those of the standard model.)

XC4A

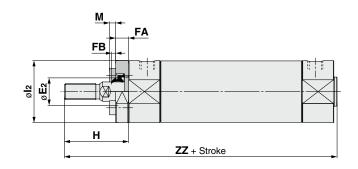


					[mm]
Bore size	GA	Р	Bore size	GA	Р
20	(11.5)	M5 x 0.8	50	(14)	(1/4)
25	12	M5 x 0.8	63	(14)	(1/4)
32	(11.5)	(1/8)	80	(20)	(3/8)
40	(13)	(1/8)	100	(16)	(1/2)

- * When a female thread is used, depending on the material of the workpiece, use a washer, etc., to prevent the contact part at the rod end from being deformed.
- (): Same as the standard model.
- * The mounting dimensions with a mounting bracket are the same as those of the standard model.

XC4B/XC4C





	_
m	ıml

	[mm]								
Bore	E ₂	FA	FB	м	la.	H	Н		Z
size	E2	FA	ГБ	IVI	l2	Female thread	Male thread	Female thread	Male thread
32	17	8	3	5	38	48	28	121	101
40	21	8	3	3.5	47	58	29	138	109
50	26	9	3	4.5	58	66	30	158	122
63	26	9	3	5.5	72	66	30	158	122

- * For the axial foot bracket type and the rod flange type, the mounting bracket is wedged and bolted between the cylinder and the scraper at the time of shipment. For other types, it is placed in the same package but does not come assembled.
- * øE2 and FB are the scraper protrusion dimensions.

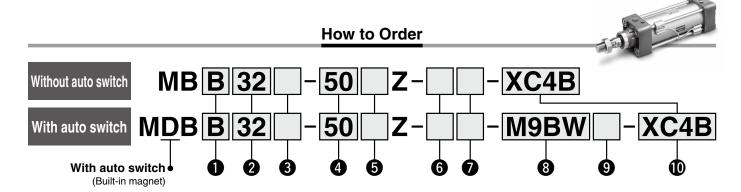


Dust Resistant Cylinder

MB-XC4

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100





Mounting

В	Basic		
L	Axial foot bracket		
F	Rod flange		
G	Head flange		
С	Single clevis		
D	Double clevis		
Т	Center trunnion		

- Trunnion type is mounted before shipment.
- Other mounting brackets: Shipped together

2 Bore size

32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

3 Port thread type

Nil	Rc
TN	NPT
TF	G

4 Cylinder stroke [mm]

Bore size	Standard stroke	
Dore Size	Stroke range ①	Stroke range ②
32	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500	Up to 1000
40	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500	
50, 63	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600	Up to 1800
80, 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	

- * Manufacture of intermediate strokes is possible. (Spacers are not used.)
- Applicable strokes should be confirmed according to the usage. For details, refer to "Air Cylinders Model Selection" in the Web Catalog. In addition, the products that exceed the stroke range 1) might not be able to fulfill the specifications due to the
- Please consult with SMC for manufacturability and the part numbers when exceeding the stroke range 2.

5 Suffix (Cushion)

Nil	Air c	ushion
N	Rubber	r bumper

Nil	No bracket
N	Pivot bracket

- * Only for "D" and "T" mounting
- For details, refer to the Web
- Catalog.

Accessories 2

Nil	No bracket	
V	Single knuckle joint	
W	Double knuckle joint	

- * A knuckle joint pin is not provided with the single knuckle joint.
- * Rod end bracket is shipped together with the product.

9 Number of auto switches

Nil	2
S	1
3	3
n	n

5

6 Accessories 1

Nil	No bracket
N	Pivot bracket

- types
- Pivot bracket is shipped together with the product.

Auto switch

Nil Without auto switch

The applicable auto switches are the same as those for the standard model. Refer to the Web Catalog.

Dust resistant specifications

XC4A	With 2 Lube-retainers (Applicable powder particle size: 20 to 50 μm)	Lube-retainer Lube-retainer
XC4B	With heavy-duty scraper + Lube-retainer (Applicable powder particle size: 30 to 100 μm)	Lube-retainer Heavy-duty scraper
XC4C	With heavy-duty scraper (Applicable powder particle size: 50 to 100 μm)	Heavy-duty scraper

Specifications

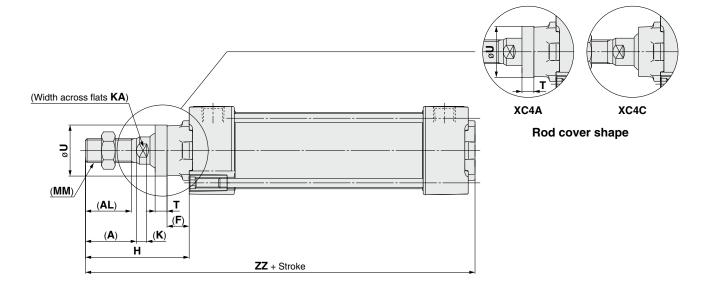
Bore size	[mm]	32 40 50 63 80 100				100	
Action	Double acting, Single rod						
Fluid		Air					
Proof pressure	•	1.5 MPa					
Max. operating	pressure	1.0 MPa					
Min. operating	pressure	0.05 MPa					
Applicable	XC4A	20 to 50 μm					
powder	XC4B	30 to 100 μm* ¹					
particle size	XC4C	50 to 100 μm					
Lubrication		Not required (Non-lube)					
Piston speed		50 to 1000 mm/s					
Stroke length	tolerance	Up to 250 : ${}^{+1.0}_{0}$, 251 to 1000 : ${}^{+1.4}_{0}$, 1001 to 1500 : ${}^{+1.8}_{0}$, 1501 to 1800 : ${}^{+2.2}_{0}$			1800 : +2.2		
Cushion		Air cushion or Rubber bumper					

 $[\]ast 1$. It can also be used in fine powder environments of less than 30 $\mu m.$

For the mounting bracket dimensions, refer to the standard MB series cylinder (double acting, single rod).

Dimensions (Dimensions other than those shown below are the same as those of the standard type, double acting, single rod.)

MB-XC4B



Air Cushion [mm]

Bore size					XC4	A, XC4B					XC	4C
Dore Size	Α	AL	F	Н	K	KA	MM	Т	U	ZZ	Н	ZZ
32	(22)	(19.5)	(13)	52	(6)	(10)	(M10 x 1.25)	6.5	25	140	47	135
40	(30)	(27)	(13)	61	(6)	(14)	(M14 x 1.5)	7	30	149	58	146
50	(35)	(32)	(14)	73	(7)	(18)	(M18 x 1.5)	8	36	171	67	165
63	(35)	(32)	(14)	73	(7)	(18)	(M18 x 1.5)	8	36	171	67	165
80	(40)	(37)	(20)	87	(10)	(22)	(M22 x 1.5)	8	41	205	81	199
100	(40)	(37)	(20)	87	(10)	(26)	(M26 x 1.5)	8	46	205	81	199

^{*} The dimensions in () are the same as those of the standard type (double acting, single rod).

Rubber Bumper [r				
Bore size	XC4A, XC4B	XC4C		
Dore Size	ZZ	ZZ		
32	146	141		
40	155	152		
50	179	173		
63	179	173		
80	215	209		
100	215	209		



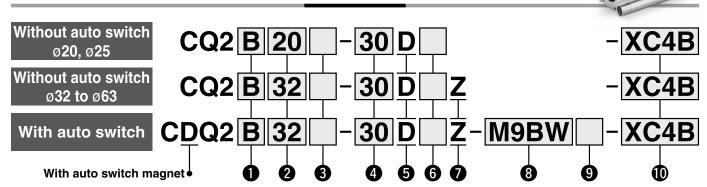
Dust Resistant Cylinder

CQ2-XC4

Ø20, Ø25, Ø32, Ø40, Ø50, Ø63



How to Order



Mounting

В	Through-hole			
Α	Both ends tapped			
L	Foot bracket			
LC	Compact foot bracket			
G	Head flange			
D	Double clevis			

- Mounting brackets are shipped together with the product but do not come assembled.
- For bore sizes 20 to 32, the body is the same for both the "B" type (through-hole) and the "A" type (both ends tapped), so the "A" type cannot be selected. Example) CQ2A32-10DZ-XC4

2 Bore size

20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

3 Port thread type

Nil	M thread	ø20, ø25
INII	Rc	
TN	NPT	ø32 to ø63
TF	G	

* M threads are only compatible with bore size ø32 at a 5 mm stroke for cylinders without an auto switch magnet.

4 Cylinder stroke [mm]

Bore size	Standard stroke
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, 63	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100

Action

D	Double acting
---	---------------

Dust resistant specifications

6 Body option

	, ·
Nil	Rod end female thread
F	With boss on head end
С	With rubber bumper
М	Rod end male thread

Combined body options, such as "FC," "FM," "FCM," and "CM," can be selected.

Auto switch mounting groove

Z	ø20 to ø63	4 surfaces

8 Auto switch

Nil	Without auto switch

The applicable auto switches are the same as those for the standard model. Refer to the Web Catalog.

9 Number of auto switches

Nil	2
S	1
n	n

Specifications

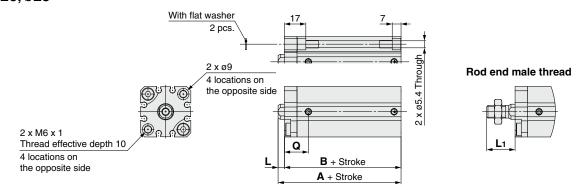
V044	With 2 Lube-retainers	Lube-retainer			
XC4A	(Applicable powder particle size: 20 to 50 µm)				
Size. 20 to 30 μm	3120. 20 to 00 μm)				
	With heavy-duty	Lube-retainer			
YC4B	scraper	Heavy-duty			
	+ Lube-retainer	scraper			
	(Applicable powder particle				
	size: 30 to 100 μm)				
	With heavy-duty	th heavy-duty Heavy-duty			
XC4C	coranor	scraper			
AC4C	(Applicable powder particle				
	size: 50 to 100 μm)				

- *1 It can also be used in fine powder environments of less than 30 μm.
- *2 The stroke length tolerance does not include the amount of bumper change.

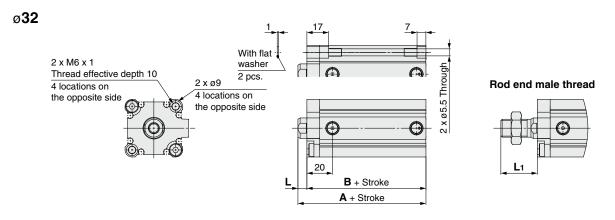
For the mounting bracket dimensions, refer to the standard CQ2 series cylinder (double acting, single rod).

Dimensions (Dimensions other than those shown below are the same as those of the standard type, double acting, single rod.)

ø20, ø25

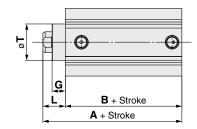


[mm] XC4A, XC4C XC4B Bore size Without auto switch With auto switch Without auto switch With auto switch Q L Q [mm] L₁ L₁ В В В В 20 34 29.5 44 39.5 4.5 18.5 18 39 29.5 49 39.5 9.5 23.5 18 37.5 32.5 47.5 22.5 42.5 32.5 52.5 42.5 25 42.5 5 19 10 27.5 19

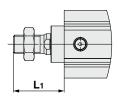


																						[mm]
	D!	XC4A, XC4C								XC4B												
	Bore size Stroke range		Without auto switch			switch	With auto switch				Without auto switch				With auto switch					1.4		
	[mm]	[mm]	Α	В	F	Р	Α	В	F	Р	-	L	Α	В	F	Р	Α	В	F	Р		Li
Ī		5	40	33	5.5	M5 x 0.8							45	33	5.5	M5 x 0.8						
	32	10 to 50	40	33	7.5	1/8	50	43	7.5	1/8	7	28.5	45	33	7.5	1/8	55	43	7.5	1/8	12	33.5
		75, 100	50	50 43	7.5	1/0							55	55 43	7.5	1/0				1	1	

ø40 to ø63



Rod end male thread

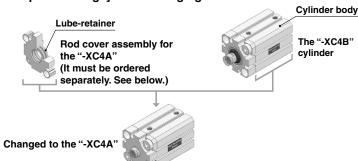


																									[mm]
D	Stroke				XC4	Α							XC4	В							XC4	С			
Bore size	range	Without a	uto switch	With au	to switch	G		1.4	_	Without a	uto switch	With aut	to switch	G		1.4	_	Without a	uto switch	With aut	to switch	G		1.	_
[mm]	[mm]	Α	В	Α	В	G	L	L1	'	Α	В	Α	В	G	-	L1	'	Α	В	Α	В	G	-	L1	
40	5 to 50	46.5	29.5	56.5	39.5	10	17	20 E	28	51.5	29.5	G1 E	39.5	10	22	43.5	28	46.5	29.5	EG E	39.5	5	17	38.5	20
40	75, 100	56.5	39.5	36.5	39.5	10	17	38.5	20	61.5	39.5	01.5	39.5 10	22	45.5	20	56.5	39.5	36.3	39.5	5	17	36.5	20	
50	10 to 50	48.5	30.5	58.5	40.5	10	10	40 E	35	53.5	30.5	60 E	40 E	10	22	48.5	25	48.5	30.5	E0 E	40.5	5	10	43.5	25
50	75, 100	58.5	40.5	56.5	40.5	10	0 18 43.5 35 63.	63.5	40.5	03.5	63.5 40.5 10	10	10 23		35	58.5	40.5	56.5	40.5	э	18	43.5	33		
62	10 to 50	54	36	64	46	10	18	40 E	35	59	36	69	46	10	23	10 E	35	54	36	64	46	_	10	42 E	25
63	75, 100	64	46	04	40	10	18	43.5	ა5	69	46	09	40	5 10	10 23	23 48.5	.5 35	64	46	04	46	5	18	43.5	35



Rod Cover Assembly Replacement Procedure (Only for ø20, ø25, and ø32)

[Example of change] When changing from the "-XC4B" to the "-XC4A"



<Rod Cover Assembly Replacement Comparison Chart>

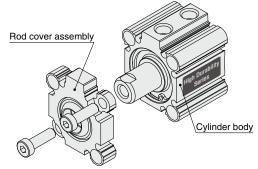
Before replacement		After replacement
XC4A	→	XC4C
VC4P		XC4A*1
XC4B	→	XC4C*1
XC4C	→	XC4A

^{*1} The overall length after replacement remains the same as that of the "-XC4B."

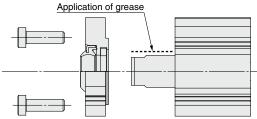
When replacing the rod cover assembly for maintenance or specification changes, follow the instructions below. If the assembly is not replaced using the correct procedure, its performance may decline significantly.

Additionally, if the rod cover assembly is replaced, it will no longer be covered by the product warranty.

- 1. Remove the 2 hexagon socket head cap screws (M6 x 1), and remove the rod cover assembly from the cylinder.
 - * At this time, be careful not to scratch or dent the surface of the piston rod.



- 2. Apply grease to the surface of the piston rod, and install the new rod cover assembly without scratching the Lube-retainer or scraper.
 - * At this time, make sure that the Lube-retainer does not fall out.
 - * Scratching the Lube-retainer or scraper during the installation of the rod cover assembly may seriously impair the performance of the product.
- 3. After confirming that the rod cover assembly is secured in the correct position (direction), tighten the 2 hexagon socket head cap screws removed in step 1 with the proper tightening torque (5.2 N·m).
 - * The application of adhesive to prevent looseness is not necessary.



Rod Cover Assembly Part Nos.

Bore size [mm]	XC4A	XC4B	XC4C
ø 20	CQ2B20-XC4A	CQ2B20-XC4B	CQ2B20-XC4C
ø 25	CQ2B25-XC4A	CQ2B25-XC4B	CQ2B25-XC4C
ø 32	CQ2B32-XC4A	CQ2B32-XC4B	CQ2B32-XC4C

- * The rod cover assembly includes a cover and a seal.
- * A grease pack is not included. Please order one with the part numbers below.

Grease Pack Part Nos.

Kit no.	Grease weight
GR-S-005	5 g
GR-S-010	10 g
GR-S-020	20 g





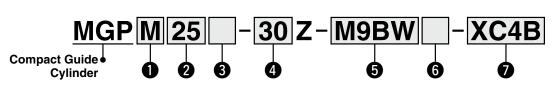
Dust Resistant Cylinder

MGP-XC4□



 \emptyset 12, \emptyset 16, \emptyset 20, \emptyset 25, \emptyset 32, \emptyset 40, \emptyset 50, \emptyset 63, \emptyset 80, \emptyset 100

How to Order





			Bear	ing type					
2	M: MGF	PM (Slide l	pearing)	L: MGPL (Ball bushing)					
Bore size	Dust resi	stant spec	ifications	Dust resi	stant spec	ifications			
	XC4A	XC4B	XC4C	XC4A	XC4B	XC4C			
12	•	_	_	_	_	_			
16	•	_	_	_	_	_			
20	•	•	•	_	•	•			
25	•	•	•	_	•	•			
32	•	•	•	_	•	•			
40	•	•	•	_	•	•			
50	•	•	•	_	•	•			
63	•	•	•	_	•	•			
80	•	•	•	_	•	•			
100	•	•	•	_	•	•			

3 Port thread type

Nil	M5 x 0.8	ø12 to ø16				
INII	Rc					
TN	NPT	ø20 to ø100				
TF	G					

4 Cylinder stroke

Bore size	Standard s	stroke [mm]
[mm]	xC4A , 16 10, 20, 30, 40, 50, 75, 100 20, 30, 40, 50, 75,	XC4B, XC4C
12, 16		_
20, 25	100, 125, 150, 175,	20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400
32 to 100	25, 50, 75, 100, 125, 150, 175, 200	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400

5 Auto switch

Nil Without auto switch (Built-in magnet)

* The applicable auto switches are the same as those for the standard model. Refer to the **Web Catalog**.

6 Number of auto switches

Nil	2
S	1
n	n

Click here for details.



Dust resistant specifications

	With single side (Ro	d end side mounting)	With b	oth sides (Rod/Head end side mounting)
Symbol	Description	Construction	Symbol	Construction
XC4A	[Piston rod] With 2 Lube-retainers [Guide rod] With 1 Lube-retainer (Applicable powder particle size: 20 to 50 μm)	Guide rod Lube-retainer Lube-retainer Piston rod	XC4AW	Rod end side Lube-retainer Lube-retainer Lube-retainer
XC4B	[Piston rod] With heavy-duty scraper + Lube-retainer [Guide rod] With heavy-duty scraper + Lube-retainer (Applicable powder particle size: 30 to 100 µm)	Heavy-duty scraper Lube-retainer Lube-retainer Heavy-duty scraper	XC4BW	Heavy-duty scraper Lube-retainer Heavy-duty scraper Lube-retainer Lube-retainer Heavy-duty scraper
XC4C	[Piston rod] With heavy-duty scraper (Outer lip type) + Lube-retainer [Guide rod] With heavy-duty scraper (Outer lip type) + Lube-retainer (Applicable powder particle size: 50 to 100 μm)	Heavy-duty scraper (Outer lip type) Lube-retainer Lube-retainer Heavy-duty scraper (Outer lip type)	XC4CW	Heavy-duty scraper (Outer lip type) Lube-retainer Heavy-duty scraper Lube-retainer Heavy-duty scraper (Outer lip type)

Specifications (Specifications other than those shown below are the same as those of the standard model.)

MGPM (Slide bearing)

	(Cildo bo		<u> </u>								
lå a ma	Dust resistant				Вс	re siz	ze [m	m]			
Item	specifications	12	16	20	25	32	40	50	63	80	100
	XC4A		0.15 MPa								
	XC4B	_	— — 0.2 MPa								
Min.	XC4C	_	— — 0.12 MPa								
operating pressure	XC4AW	0.2 MPa									
piessuie	XC4BW	_	— — 0.3 MPa								
	XC4CW	_	— — 0.14 MPa								
Piston	XC4A(W)			50	to 50	00 mn	n/s			50 to 4	00 mm/s
speed	XC4B(W)	_		100 to 500 mm/s 100 to 400 mm/s							
speeu	XC4C(W)	_	_	50 to 500 mm/s						50 to 4	00 mm/s

MGPL (Ball bushing)

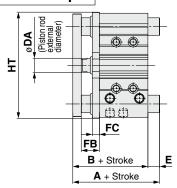
Item	Dust resistant				Вс	re siz	ze [m	m]			
item	specifications	12	16	20	25	32	40	50	63	80	100
	XC4A		_								
NA:	XC4B	_	— — 0.2 MPa								
Min.	XC4C	_	— — 0.12 MPa								
operating pressure	XC4AW	_									
pressure	XC4BW	— — 0.3 MPa									
	XC4CW	_	_				0.14	MPa			
D:	XC4A(W)					_	_				
Piston speed	XC4B(W)	_	_	100 to 5	00 mm/s		100) to 4	00 m	m/s	
speed	XC4C(W)	_	_		50	to 50	00 mn	n/s		50 to 4	00 mm/s





Dimensions (Dimensions other than those shown below are the same as those of the standard model.)

With single side scraper



					[]
Bore size		4	E		
[mm]	50 st or less	Over 50 st to 200 st*1	50 st or less	Over 50 st to 200 st*1	HT*1
12	52	70.5	0	18.5	57
16	56	74.5	0	18.5	63
20	63	93	0	30	(83)
25	63.5	93.5	0	30	(93)
32	92	110.5	22.5	41	(112)
40	92	110.5	16	34.5	(120)
50	105.5	126.5	23.5	44.5	(148)
63	105.5	126.5	18.5	39.5	(162)
80	123.5	150.5	17	44	(202)
100	145.5	170.5	19.5	44.5	(240)

Common Dimensions: MGPM, MGPL

Commo	Common Dimensions: MGPM, MGPL [mm]												
Dava sina					FC								
Bore size [mm]	В	DA	FB	XC4A	XC4B,	XC4C							
[IIIIII]				MGPM	MGPM	MGPL							
12*1	52	6	16	5	_	_							
16*1	56	8	16	5	_	_							
20	63	10	18	0	9	5							
25	63.5	10	17	0	9	5							
32	69.5	14	22	0	9	5							
40	76	14	22	0	9	5							
50	82	20	26	0	10	8							
63	87	20	26	0	10	5							
80	106.5	25	34	0	15	6							
100	126	30	41	0	15	6							

^{*1} Only applicable to the "-XC4A"

MGPM-XC4B, -XC4C: "A," "E," and "HT" Dimensions [mm]

Bore size		Α			Е			
[mm]	50 st or less	Over 50 st to 200 st	Over 200 st	50 st or less	Over 50 st to 200 st	Over 200 st	НТ	
20	63	87.5	120	0	24.5	57	80	
25	63.5	87.5	119.5	0	24	56	93	
32	85	103.5	139.5	15.5	34	70	111.5	
40	85	103.5	139.5	9	27.5	63.5	119	
50	98.5	119.5	160.5	16.5	37.5	78.5	151	
63	98.5	119.5	160.5	11.5	32.5	73.5	165	
80	114.5	141.5	190.5	8	35	84	202	
100	136.5	161.5	200.2	10.5	35.5	74.5	240	

-YC/C: "A " "F " and "HT" Dimensions

MIGPL-AC4B, -AC4C: A, E, and HI Dimensions										
Ī	Bore size			4		E				
[mm]	30 st or less	Over 30 st to 100 st	Over 100 st to 200 st	Over 200 st	30 st or less	Over 30 st to 100 st	Over 100 st to 200 st	Over 200 st	HT	
	20	69	86	110	127.5	6	23	47	64.5	80
Ī	25	75.5	91.5	110.5	127.5	12	28	47	64	93

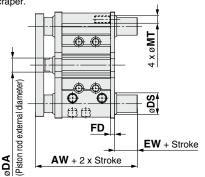
[mm]

Bore size [mm]			4		Ė				
	50 st or less	Over 50 st to 100 st	Over 100 st to 200 st	Over 200 st	50 st or less	Over 50 st to 100 st	Over 100 st to 200 st	Over 200 st	НТ
32	89.5	106.5	126.5	148.5	20	37	57	79	110
40	89.5	106.5	126.5	148.5	13.5	30.5	50.5	72.5	118
50	101.5	122.5	142.5	169.5	19.5	40.5	60.5	87.5	146
63	101.5	122.5	142.5	169.5	14.5	35.5	55.5	82.5	160

Bore size [mm]			4		E				
	25 st or less	Over 25 st to 100 st	Over 100 st to 200 st	Over 200 st	50 st or less	Over 50 st to 100 st	Over 100 st to 200 st	Over 200 st	НТ
80	114.5	138.5	168.5	201.5	8	32	62	95	199
100	129.5	155.5	188.5	211.5	3.5	29.5	62.5	85.5	236

With scraper on both sides

Dimensions other than those shown to the right are the same as those of the type with a single side scraper.



Dimensions: "AW," "EW," "FD," "MT," and "DS"

Bore size [mm]	"" AW FW FD N	МТ	DS (Bypass port for guide rod) XC4A XC4B, XC4C				
					MGPM	MGPM	MGPL
12 *1	63	6	5	5	10	_	_
16*1	67	6	5	6	12	_	_
20	74	6	5	6	14	17	15
25	74.5	6	5	7	18	21	19
32	82.5	7	6	8.5	22	26	21
40	89	7	6	8.5	22	26	21
50	95	7	6	11	27	31	26
63	100	7	6	11	27	31	26
80	120.5	8	6	14	33	36	31
100	143	8	9	16	39	44	36

^{*1} Only applicable to the "-XC4A"



^{*1} Over 50 st to 100 st for bore sizes ø12 and ø16 * The dimensions in () are the body dimensions of the standard model.

Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.

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