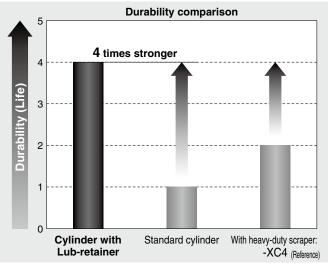
INFORMATION

Applicable to operation in micro-powder (20 to 100 μ m)/general environments Cylinder with Stable Lubrication Function (Lub-retainer)

Durability is 4 times stronger than

the standard model in micro-powder environments.



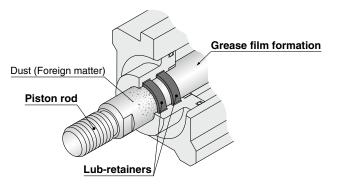
Comparison with the standard model and model with heavy-duty scraper (-XC4) (Relative ratio of B10) * The durability test is conducted in accordance with SMC test conditions.

As the Lub-retainer is mounted at two locations,

- Grease film is formed on the piston rod surface to improve the durability.
- Entry of dust and foreign matter is prevented.

Even with the built-in stable lubrication function (Lub-retainer), the overall length and mounting are the same as those of the standard model.

* Except for some models



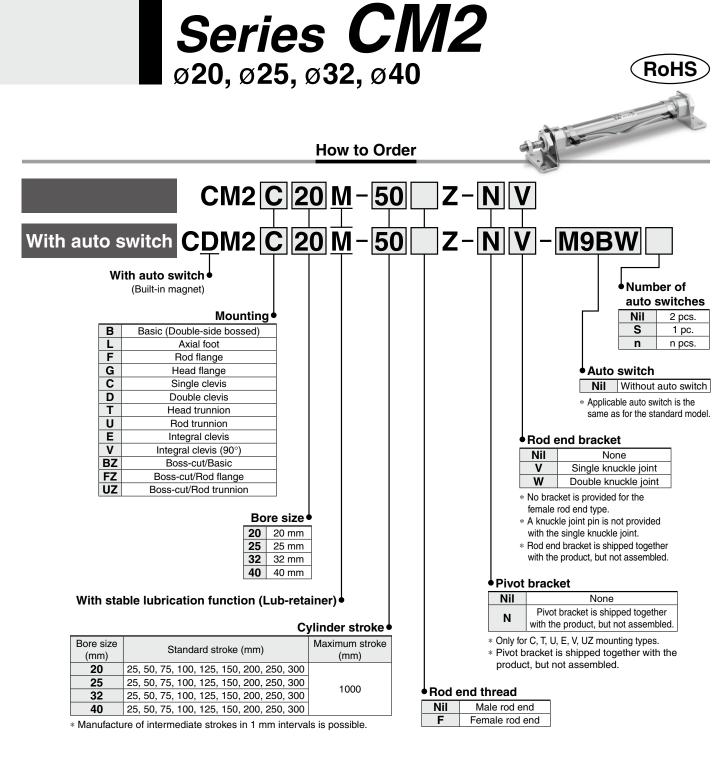
• The number of operating cycles can be improved even in general environments.

Air Cylinder Air Cylinder Compact Cylinder/Compact Type Air Cylinder (RoHS) RoHS (RoHS) Series CM2 Series CG1 Series CA2 Series CQS (RoHS) ø20 to ø40 ø20 to ø100 ø40 to ø100 ø20 and ø25 Compact Cylinder Air Slide Table Compact Guide Cylinder **Dual Rod Cylinder/ Dual Rod Cylinder** Series CQ2 Series MXQ Series MGP **Compact Type** Series CXS ø32 to ø100 (RoHS) ø6 to ø25 RoHS ø20 to ø100 RoHS RoHS ø6 to ø32 (RoHS) Series CXSJ ø6 to ø32

Series CM2/CG1/CA2/CQS/CQ2/MXQ/MGP/CXSJ/CXS 🥝 SN

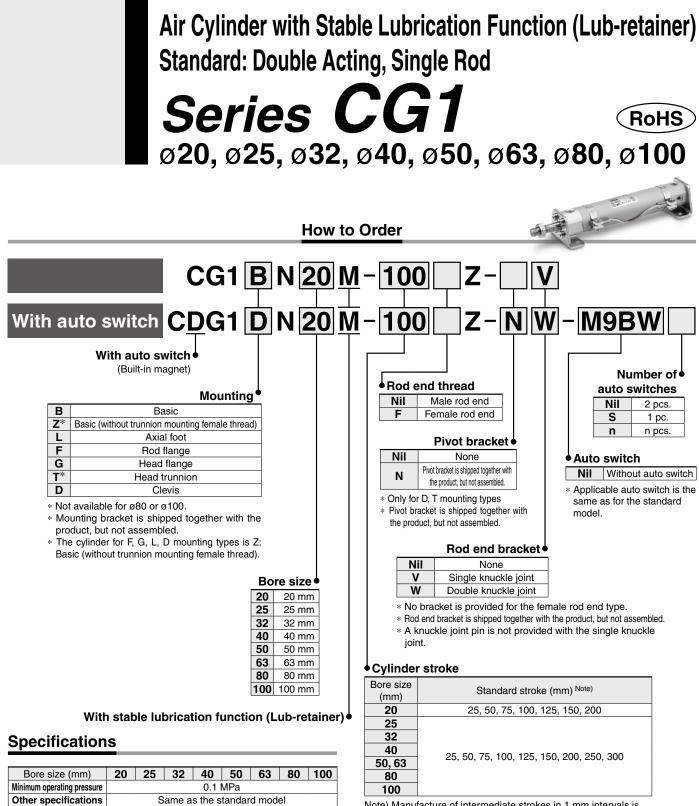
Applicable Cylinders

Air Cylinder with Stable Lubrication Function (Lub-retainer) Standard: Double Acting, Single Rod



Specifications

Bore size (mm)	20	25	32	40	
Minimum operating pressure	0.1 MPa				
Other specifications	Same as the standard model				
Dimensions	Same as the standard model				



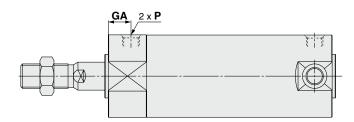
Note) Manufacture of intermediate strokes in 1 mm intervals is possible. (Spacers are not used.) Produced upon receipt of order.

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

See below

* No trunnion mounting female thread is provided on the rod side. (For B: Basic)

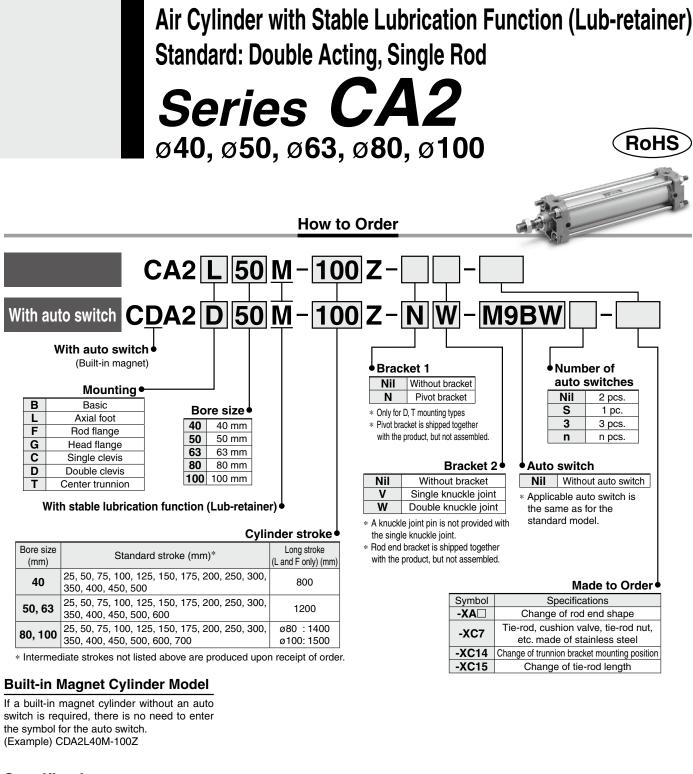
Dimensions



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

 When female thread is used, use a washer, etc. to prevent the contact part at the rod end from being deformed depending on the material of the workpiece.
 (): Same as the standard model.

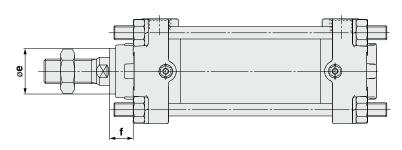
* The mounting dimensions of the mounting bracket are the same as the standard model.



Specifications

Bore size (mm)	40	50	63	80	100	
Minimum operating pressure	0.1 MPa					
Other specifications	Same as the standard model					
Dimensions	See below					

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

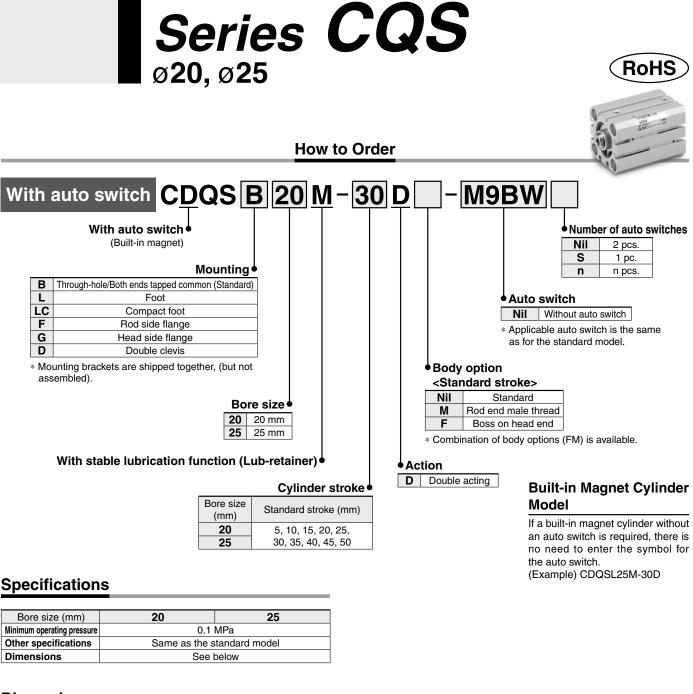


		(mm)
Bore size	øe	f
40	26	13.5
50	30	12.5
63	30	12.5
80	36	16.5
100	42	16

* The mounting dimensions of the mounting bracket are the same as the standard model.

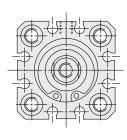


Compact Cylinder with Stable Lubrication Function (Lub-retainer) Standard: Double Acting, Single Rod



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

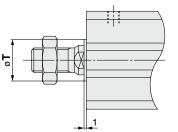
(Flat washer 4 pcs.)



		(mm)
Bore size	Standard stroke	Т
20	5, 10, 15, 20, 25, 30,	15
25	35, 40, 45, 50	18

* The mounting dimensions of the mounting bracket are the same as the standard model.

DM: Rod end male thread

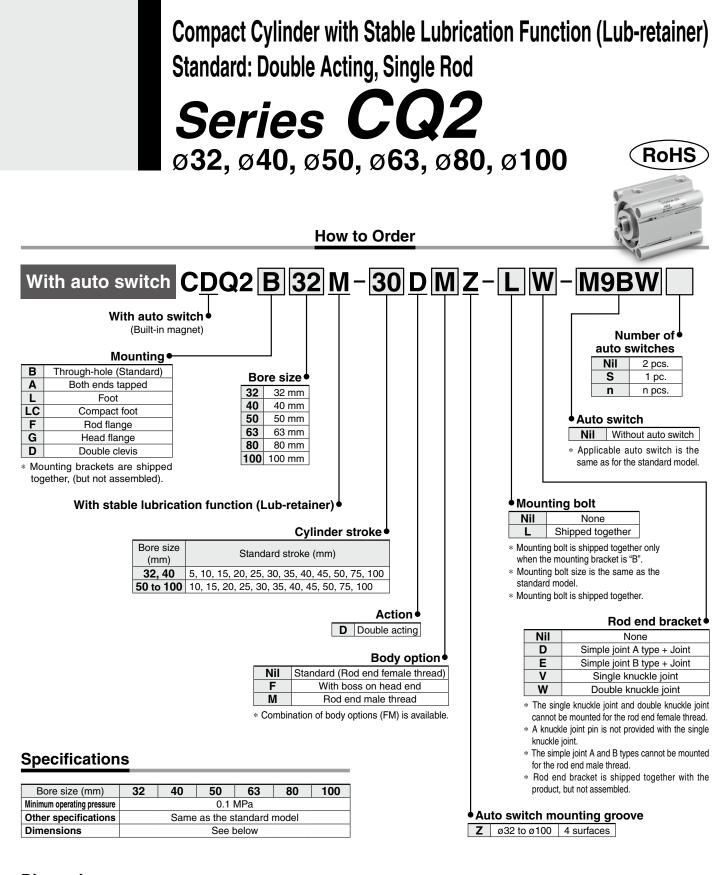


Mounting Bracket Part No.

Bore size (mm)	Foot	Compact foot	Flange
20	CQS-LM020	CQS-LCM020	CQS-FM020
25	CQS-LM025	CQS-LCM025	CQS-FM025

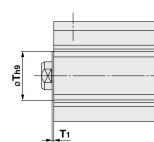
* The double clevis type is the same as the standard model.

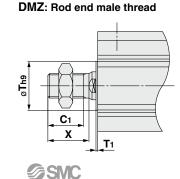
* When ordering foot and compact foot brackets, order 2 pieces per cylinder.



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

ø**32 to** ø**100**





				(mm)
Bore size	Т	T 1	C 1	X
32	22	1	20.5	23.5
40	28	1	20.5	23.5
50	35	2	24	26.5
63	35	2	24	26.5
80	_	—	32.5	35.5
100	_	_	32.5	35.5

* The mounting dimensions of the mounting bracket are the same as the standard model.

Air Slide Table with Stable Lubrication Function (Lub-retainer) Double Ported Type



			How to Order				Contraction of the second seco
	Ν	MXQ 12 A N	<u>/</u> -30 ZA	- <u>M9B</u>	• Number of Nil 2 pcs.		tches
	With stable lubricati	ion function (Lub-retainer)●		Ni * Re	S 1 pc. n n pcs. Ito switch I Without auto switch I fer to Best Pneumatics No applicable auto switches.		
●Bore size	Body option: Double ported type A	•Standard stroke (m			djuster type	Adjuster positio Extension stroke end	mounting n ^{Note 1})
6	Port Switch mounting Switch mounting Port groove	10, 20, 30, 40, 50	Z	Without adjuste	r	Enteriorente ente	
8		10, 20, 30, 40, 50, 75	ZA ZB ZC	Metal stopper w (Not available fo		•	•
12 16	Auto switch mounting groove	10, 20, 30, 40, 50, 75, 100 10, 20, 30, 40, 50, 75, 100, 12	ZD	Rubber stopper		•	•
20 25	Two auto switch mounting grooves	10, 20, 30, 40, 50, 75, 100, 12 10, 20, 30, 40, 50, 75, 100, 12	25, 150 ZG	Shock absorber (Not available fo		•	•
			ZN ZP ZQ	Shorter Shorter	thout adjuster Ibber stopper lock absorber (RJ)		

Note 1)

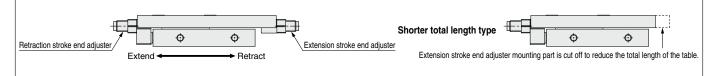
Shipped together with the product, but not assembled. Without any symbols for the adjuster mounting position, the adjuster can be mounted afterward.

(Not available for ø6 and ø8) Metal stopper with bumper

(Not available for ø6)

Note 2) Extension stroke end adjuster mounting holes are removed to reduce the total length. As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward. (Retraction stroke end adjuster can be mounted afterward.)

Adjuster Mounting Position



SMC

ZQ

ZS

total length type Note 2)

Specifications

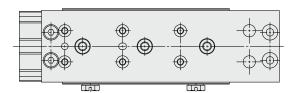
Bore size (mm)		6	8	12	16	20	25
N41	Without adjuster						
Minimum operating	Rubber stopper	0.15 MPa					
	Shock absorber		_				
pressure	Metal stopper with bumper	—	0.3 MPa	0.3 MPa	0.2 MPa	0.2 MPa	0.2 MPa
Other specifi	ications	Same as the standard model					
Dimensions		Refer to next page.					

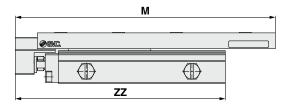
RoHS

Series MXQ A

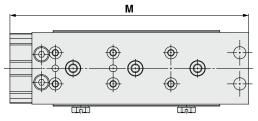
Dimensions (Dimensions other than those shown below are the same as the standard model.)

MXQ6AM



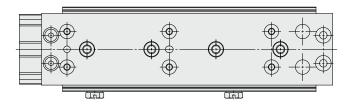


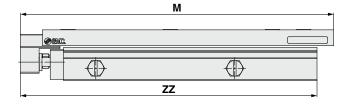
Shorter total length type



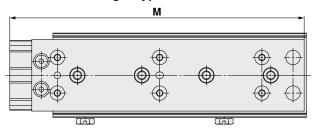
			(mm)
Model	Γ	ZZ	
woder	Standard type	Shorter total length type	22
MXQ6AM-10Z	74	64.5	69.5
MXQ6AM-20Z	84	74.5	69.5
MXQ6AM-30Z	105	95.5	82.5
MXQ6AM-40Z	117	107.4	94.5
MXQ6AM-50Z	127	117.5	104.5

MXQ8AM





Shorter total length type

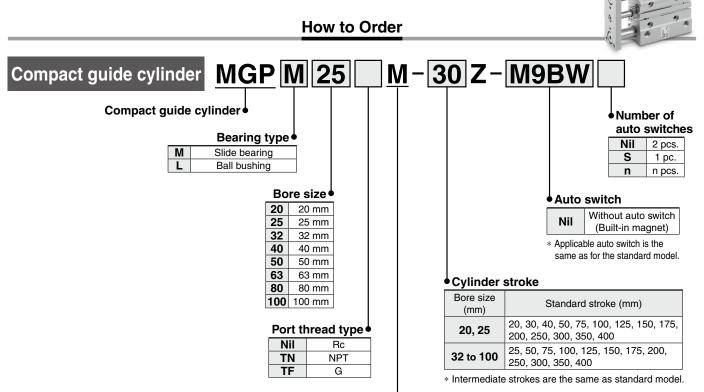


			(mm)	
Model	Γ	Ν	ZZ	
woder	Standard type	Shorter total length type	22	
MXQ8AM-10Z	78	69.5	70.5	
MXQ8AM-20Z	88	79.5	80.5	
MXQ8AM-30Z	98	89.5	90.5	
MXQ8AM-40Z	114	105.5	106.5	
MXQ8AM-50Z	141	132.5	133.5	
MXQ8AM-75Z	166	157.5	135.5	

The MXQ12AM/MXQ16AM/MXQ20AM/MXQ25AM dimensions are the same as the standard model.

Compact Guide Cylinder with Stable Lubrication Function (Lube-retainer)

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

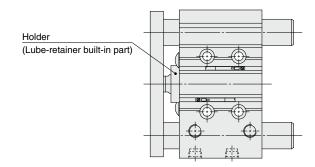


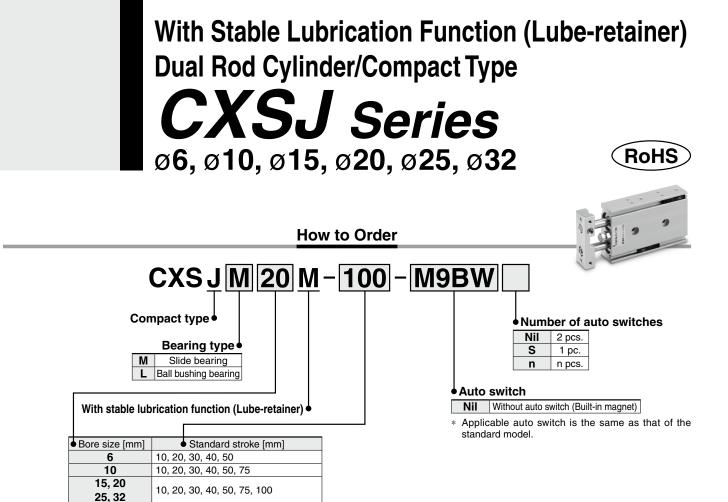
With stable lubrication function (Lube-retainer)

Specifications

Bore size (mm)	20	25	32	40	50	63	80	100
Minimum operating pressure		0.15 MPa						
Other specifications		Same as the standard model						
Dimensions		See right side						

Dimensions (Dimensions are the same as the standard model.)



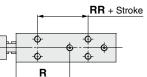


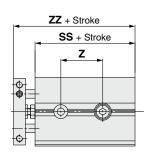
Specifications

Bore size [mm]	6	10	15	20	25	32			
Minimum operating pressure	0.2 MPa	0.15	MPa	0.1 MPa					
Piston speed	50 to 80	0 mm/s	50 to 70	00 mm/s	s 50 to 600 mm/s				
Other specifications		Same as the standard model							
Dimensions		See below.							

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

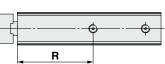
CXSJ[6, 10M

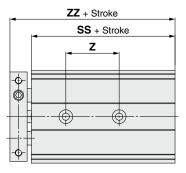




8-1

CXSJD15 to 32M





				[mm]
Model	R	RR	SS	ZZ
CXSJ⊟6M	25	13.5	36.5	46.5
CXSJD10M	33.5	17	49.5	61
CXSJ□15M	44	—	63.5	76
CXSJ 20M	51	—	73.5	90
CXSJ□25M	52	—	76.5	93
CXSJ ^{32M}	66	_	90.5	110.5

								[mm]				
Syn	nbol		Z									
Model Stro	oke	10	20	30	40	50	75	100				
CXSJ 6M		19.5	29.5	39.5	49.5	59.5	—	—				
CXSJD10	Ζ	23	33	43	53	63	88	—				
CXSJD15	Μ	3	1	41			51	61				
CXSJ 20	Ν	3	6		46		66					
CXSJ 25	М	3	7		47			67				
CXSJD32	Μ	5	0		60			80				

SMC

Dual Rod Cylinder with Stable Lubrication Function (Lub-retainer)

Series CXS ø6, ø10, ø15, ø20, ø25, ø32

How to Order



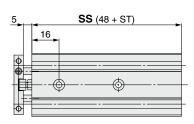
With stable lubrication function (Lub-retainer) CXSM 20M-100 Y7BW Bearing type Number of auto М Slide bearing switches Ball bushing bearing L Nil 2 pcs. S 1 pc. Bore size/Standard stroke n n pcs. Bore size (mm) Standard stroke (mm) 6 10, 20, 30, 40, 50 Auto switch 10, 15, 20, 25, 30, 35, 40, 45, 50, 10 Nil Without auto switch (Built-in magnet) 60, 70, 75 * Applicable auto switch is the same as for the 15, 20 10, 15, 20, 25, 30, 35, 40, 45, 50, standard model. 60, 70, 75, 80, 90, 100 25, 32

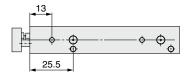
Specifications

Bore size (mm)	6	10	15	20	25	32			
Minimum operating pressure	0.2 MPa	0.15 MPa			0.1 MPa				
Piston speed	50 to 300 mm/s	50 to 800 mm/s	50 to 70	700 mm/s 50 to 600 mm/s					
Other specifications		Same as the standard model							
Dimensions		See below							

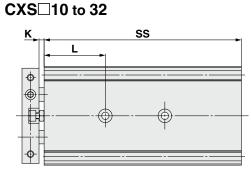
Dimensions (Dimensions other than those shown below are the same as the standard model.)

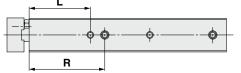
CXS₆





(mm)





Model	Κ	L	R	Symbol				
CXS□10	4	25	35	Model Stroke	10	15	20	25
CXSD15	3	36	44.5	CXS⊡10	70	75	80	85
CXS□20	6	36	50.5	CXS□15	76	81	86	91
CXS ²⁵	6	36	52	CXS□20	86	91	96	101
CXS□32	4	40	66	CXS□25	88	93	98	103
					100	10-	110	

(r	r	h	r	r	۱
	ŀ	ı	ł	ŀ	ŀ	

															(mm)
Symbol		SS													
odel Stroke	10	15	20	25	30	35	40	45	50	60	70	75	80	90	100
CXS□10	70	75	80	85	90	95	100	105	110	120	130	135	—	-	—
CXS□15	76	81	86	91	96	101	106	111	116	126	136	141	146	156	166
CXS⊟20	86	91	96	101	106	111	116	121	126	136	146	151	156	166	176
CXS□25	88	93	98	103	108	113	118	123	128	138	148	153	158	168	178
CXS 22	102	107	112	117	122	127	132	137	142	152	162	167	172	182	192



With Stable Lubrication Function (Lube-retainer)

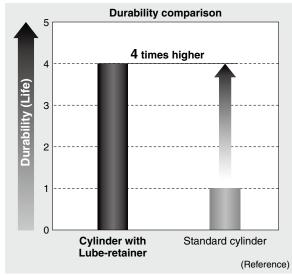
Dual Rod Cylinder/ Compact Type

ø6, ø10, ø15, ø20, ø25, ø32



4 times the durability of

10 to 100 μm the standard model in micro-powder environments





Comparison with the standard model (Relative ratio of B10) This durability test was conducted in accordance with SMC test

conditions.

As Lube-retainers are mounted in two locations. grease film is formed on the piston rod surface, improving durability.

This construction allows for the prevention of the entry of dust and foreign matter.

The number of operating cycles can be improved even in general environments.

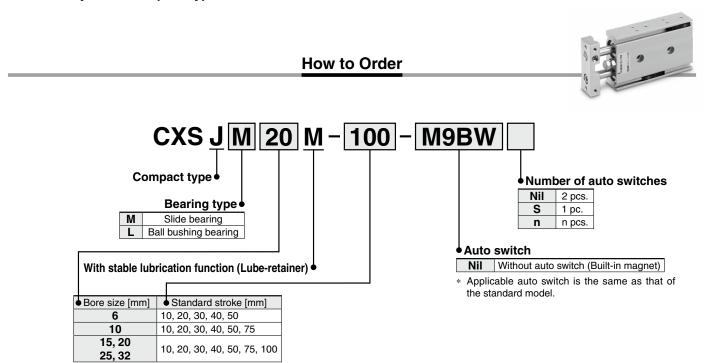
Lube-retainers Dust (Piston rod B features (Foreign matter) the same configuration.) Grease film formation Piston rod A







CXSJ Series



Specifications

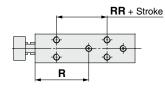
Bore size [mm]	6	10	15	20	25	32		
Minimum operating pressure	0.2 MPa	0.15 MPa 0.1 MPa						
Piston speed	50 to 80	00 mm/s	50 to 70	00 mm/s 50 to 600 mm/s				
Other specifications		Same as the standard model						
Dimensions	See below.							

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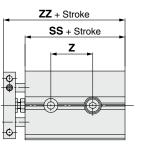
Dimensions (Dimensions other than those shown below are the same as those of the standard model.)

CXSJ□6, 10M

CXSJD15 to 32M







ZZ + Stroke SS + Stroke Z

				[mm]
Model	R	RR	SS	ZZ
CXSJ□6M	25	13.5	36.5	46.5
CXSJD10M	33.5	17	49.5	61
CXSJD15M	44	_	63.5	76
CXSJ 20M	51	_	73.5	90
CXSJ 25M	52	_	76.5	93
CXSJD32M	66	_	90.5	110.5

								[mm]				
\swarrow	Symbol		Z									
Model	Stroke	10	20	30	40	50	75	100				
CXSJ	_6M	19.5	29.5	39.5	49.5	59.5	—	_				
CXSJ]10M	23	33	43	53	63	88	—				
CXSJ]15M	3	1		41	51	61					
CXSJ	20M	3	6		46		66					
CXSJ	25M	3	7		47			7				
CXSJ	32M	5	0		60		80					

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

SMC

Made to Order Common Specifications: -XC93 : With Greater Water Resistance + Stable Lubrication Function

66 With Greater Water Resistance + Stable Lubrication Function

Symbol -XC93

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

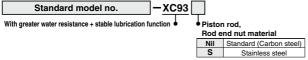
Equipped with the greater water resistant scraper (Fluororubber). The Lube-retainer creates grease coating around the piston rod, which improves lubrication.

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

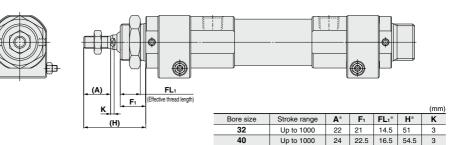
Applicable Series

Series	Description	Model	Action		Vol. no. (for std model)
RHC	High power cylinder	RHC	Double acting, Single rod	Applicable bore size: ø32, ø40 Rc port only	2-3 From P. 351

How to Order



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



*: Same as the standard model.