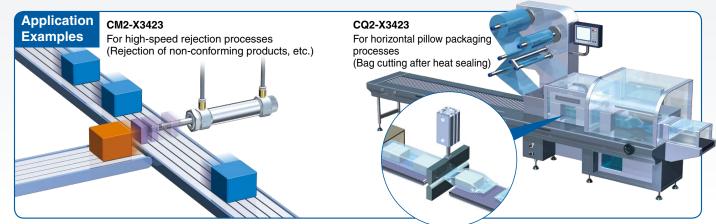
High Speed / High Frequency Cylinder ø20, ø25, ø32 New RoHS Maximum piston speed: 2500 mm/s (→ Refer to page 9.) Maximum operating frequency: **15 Hz** (→ Refer to page 9.) Maximum operating frequency PH 01 Hz H: H: H: CM2-X3423 CQ2 high-speed, high-frequency cylinder maximum piston speed/ maximum operating frequency area CQ2 standard product (rubber bumper) 1000 1500 2000 2500 500 mm/s mm/s mm/s mm/s mm/s Maximum piston speed (CQ2: Based on SMC's recommended circuit conditions when the stroke is 5 mm) Kinetic energy:

- **1.5 times** (Compared with the standard product)
- \cdot Reduced impact due to revision of cushion structure
- \cdot Reduced weight of moving parts (piston rod, piston, etc.)



CQ2-X3423

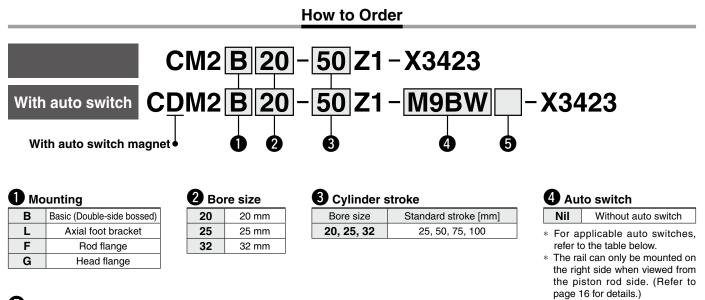
Applicable Cylinder

Series	Maximum	Maximum operating		e size [r	-	Cushion	Stroke	Mounting bracket	Auto switch
	piston speed	frequency	20	25	32		[mm]	J	
CM2-X3423	0500 mm/a	12 Hz (at 25 mm stroke)	•	•	•	Dubber	25 to 100	Basic Foot bracket Flange	D-M9⊡ D-F7NJ
CQ2-X3423	2500 mm/s	15 Hz (at 5 mm stroke)	•	•	•	Rubber	5 to 50	Basic Foot bracket Compact foot bracket Flange	D-M9□



CM2/CQ2-X3423

High Speed / High Frequency Cylinder *CN2-X3423* Ø20, Ø25, Ø32



5 Number of auto switches

Nil	2
S	1
n	n

Applicable Auto Switches / Refer to the Web Catalog for further information on auto switches.

			tor light		Lo	oad volta	age	Auto swite	ch model	Lead	d wir	e ler	ngth	[m]			
Туре	Special function	Electrical entry	Indicator	Wiring (Output)	D	С	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	-	None (N)	Pre-wired connector	Applica	ble load
				3-wire (NPN)		5 V,		M9NV	M9N		\bullet	\bullet	0	—	0	IC	
auto				3-wire (PNP)		12 V		M9PV	M9P	•	۲	۲	0	-	0	circuit	
ch al				2-wire		12 V		M9BV	M9B		٠	٠	0	—	0	—	
l state switch		Grommet	Yes	3-wire (NPN)	24 V	5 V,	—	M9NWV	M9NW		•	٠	0	—	0	IC	Relay, PLC
sv	Diagnostic indication (2-color indicator)			3-wire (PNP)		12 V		M9PWV	M9PW	•	٠		0	—	0	circuit	
Solid				2-wire		12 V		M9BWV	M9BW	•	•		0	—	0		1
	Heat resistant (2-color indicator)			3-wire (NPN)		_		_	F7NJ	_	_			-			1

* Lead wire length symbols: 0.5 m······Nil (Example) M9N

1 m M	(Example)	M9NM
3 m L	(Example)	M9NL

5 m······Z (Example) M9NZ

 $\ast~$ Solid state auto switches marked with a "O" are produced upon receipt of order.

* Auto switch mounting method is rail mounting.

* Screws and nuts for 2 auto switches come with the rail.

* The auto switches and auto switch mounting brackets are packed together (not assembled).

* Use D-F7NJ heat-resistant auto switches when continuously operating at high speed/high frequency for long periods of time.

High Speed / High Frequency Cylinder CM2-X3423



20 Bore size [mm] 25 32 Action Double acting, Single rod Fluid Air 1.0 MPa **Proof pressure** 0.7 MPa Max. operating pressure 0.05 MPa Min. operating pressure Ambient and fluid temperatures -10 to 40°C (No freezing) Lubrication Not required (Non-lube) **Piston speed** 750 to 2500 mm/s Cushion Rubber bumper Rod end thread Male thread Allowable kinetic energy [J] 0.41 0.6 0.98 Stroke length tolerance 0 to +1.4 mm*1

Symbol





*1 Stroke length tolerance does not include the amount of bumper change.

Mounting Brackets/Part Nos.

Mounting	Min. order		Contents		
bracket	quantity	20	25	32	(for min. order quantity)
Foot bracket	2	CM-L020B	CM-L032B		2 foot brackets, 1 mounting nut
Foot bracket	1	CMZ1-L020B	CMZ1-	L032B	1 foot bracket
Flange	1	CM-F020B	CM-F	032B	1 flange

* Order two foot brackets per cylinder.

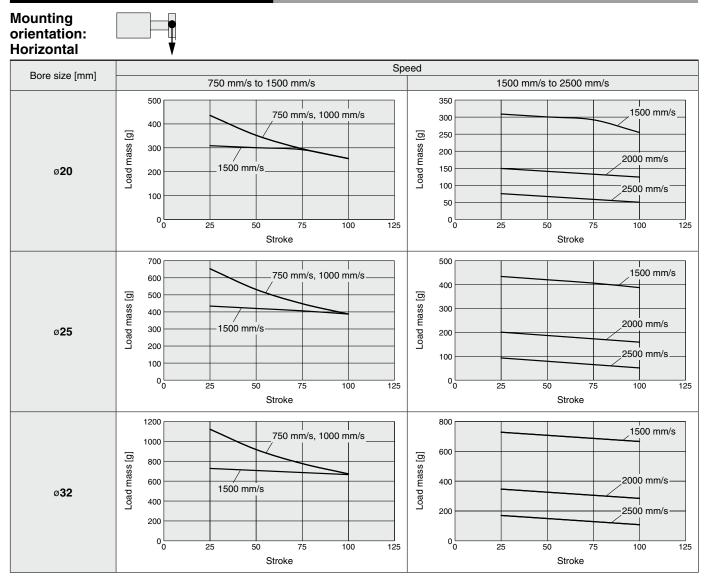
* A single foot is available.

Specifications

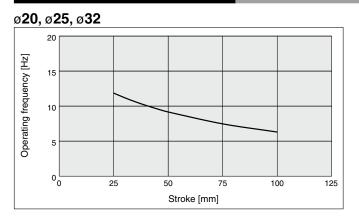
CQ2-X3423

CM2-X3423

Allowable Lateral Load at Rod End



Operating Frequency (Guide)



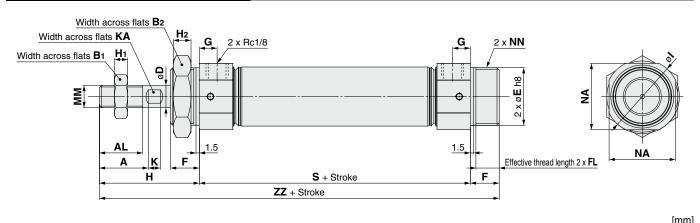
High Speed / High Frequency Cylinder CM2-X3423

Mounting orientation: Vertical Speed Bore size [mm] 750 mm/s to 1500 mm/s 1500 mm/s to 2500 mm/s 1500 350 300 750 mm/s 1500 mm/s 250 Load mass [g] Load mass [g] CM2-X3423 1000 200 150 ø**20** 1000 mm/s 500 100 2000 mm/s 50 1500 mm/s 2500 mm/s 0₀∟ 0∟ 0 25 50 75 100 125 25 50 75 100 125 Stroke Stroke 2500 500 2000 400 Load mass [g] 750 mm/s Load mass [g] 1500 mm/s 1500 300 CQ2-X3423 2000 mm/s ø**25** 1000 200 1000 mm/s .2500 mm/s 500 100 1500 mm/s 0 0 0 25 50 75 100 125 25 50 75 100 125 Stroke Stroke 4000 800 600 1500 mm/s 3000 750 mm/s Load mass [g] Load mass [g] Auto Switch Mounting 2000 400 2000 mm/s ø**32** 1000 mm/s 1000 200 2500 mm/s 1500 mm/s 0 0 100 25 50 75 125 25 50 75 100 125 Stroke Stroke

Allowable Lateral Load at Rod End

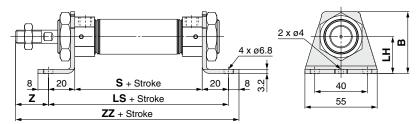
CM2-X3423

Dimensions: Mounting Brackets



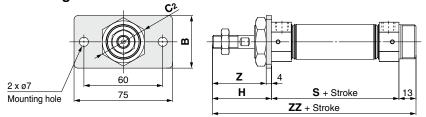
Bore size	Standard stroke	Α	AL	B1	B2	D	E	F	FL	G	н	H1	H2	I	к	КА	ММ	NA	NN	s	ZZ
20		18	15.5	13	26	8	20 _{-0.033}	13	10.5	8	41	5	8	28	5	6	M8 x 1.25	24	M20 x 1.5	77	131
25	25, 50, 75, 100	22	19.5	17	32	10	26 _{-0.033}	13	10.5	8	45	6	8	33.5	5.5	8	M10 x 1.25	30	M26 x 1.5	82	140
32	75,100	22	19.5	17	32	12	26 _{-0.033}	13	10.5	8	45	6	8	37.5	5.5	10	M10 x 1.25	34.5	M26 x 1.5	84	142

Foot bracket



						[mm]
Bore size	В	LH	LS	S	z	zz
20	40	25	117	77	21	146
25	47	28	122	82	25	155
32	47	28	124	84	25	157

Rod flange



						[mm]
Bore size	В	C2	н	S	z	ZZ
20	34	30	41	77	37	131
25	40	37	45	82	41	140
32	40	37	45	84	41	142

[mm]

ΖZ

131

140

142

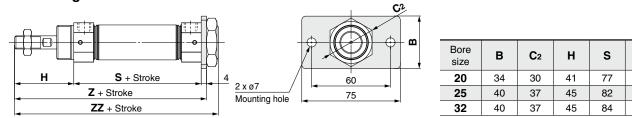
Ζ

122

131

133

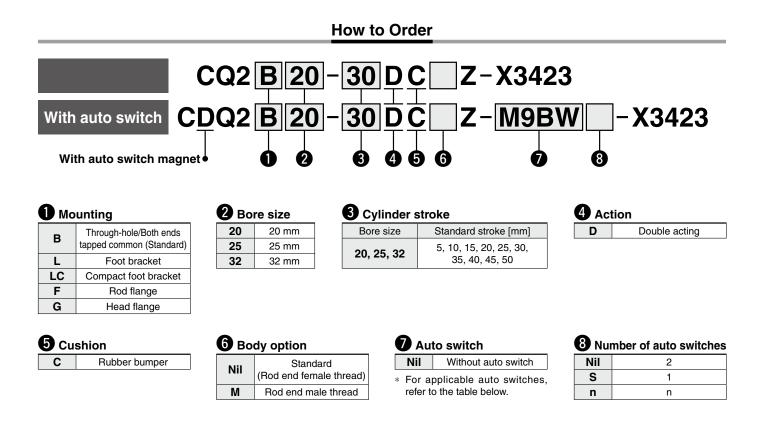
Head flange



-
\mathbf{r}
\mathbf{N}
N
9
\mathbf{X}
N
\sim
\mathbf{U}



High Speed / High Frequency Cylinder *CQ2-X3423* Ø20, Ø25, Ø32



Applicable Auto Switches / Refer to the Web Catalog for further information on auto switches.

			light		Lo	oad volt	age	Auto swite	ch model	Lead	wire	lenç	gth [r	n]*2			
Туре	Special function	Electrical entry	Indicator light	Wiring (Output)	D	С	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	-	None (N)	Pre-wired connector	Applica	ble load
o				3-wire (NPN)		5 V,		M9NV	M9N	•	٠		0	-	0	IC	
auto				3-wire (PNP)		12 V		M9PV	M9P				0	-	0	circuit	
tch		Crownet	Vee	2-wire	24 V	12 V]	M9BV	M9B		٠		0	-	0	—	Relay,
olid state switch		Grommet	Yes	3-wire (NPN)	24 V	5 V,] —	M9NWV	M9NW	•	٠		0	-	0	IC	PLC
olid	Diagnostic indication (2-color indicator)			3-wire (PNP)		12 V		M9PWV	M9PW	•			0	-	0	circuit	
So				2-wire		12 V		M9BWV	M9BW				0	—	0	—	

* Lead wire length symbols: 0.5 m······Nil (Example) M9NW

 $\ast~$ Solid state auto switches marked with a "O" are produced upon receipt of order.

¹ m······M (Example) M9NWM

³ m······ L (Example) M9NWL 5 m····· Z (Example) M9NWZ

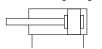
High Speed / High Frequency Cylinder CQ2-X3423

Specifications



Bore size [mm]	20	25	32					
Action	De	ouble acting, Single ro	bd					
Fluid		Air						
Proof pressure		1.0 MPa						
Max. operating pressure		0.7 MPa						
Min. operating pressure		0.05 MPa						
Ambient and fluid temperatures	–1	0 to 40°C (No freezin	g)					
Lubrication	N	lot required (Non-lube	e)					
Piston speed	500 to 2500 mm/s							
Cushion		Rubber bumper						
Allowable kinetic energy [J]	0.16	0.27	0.43					
Stroke length tolerance		0 to +1.0 mm*1						

Symbol Double acting, Single rod



*1 Stroke length tolerance does not include the amount of bumper change.

Mounting Brackets/Part Nos.

Bore size [mm]	Foot bracket*1	Compact foot bracket*1	Flange
20	CQ-L020-X3423	CQ-LC020-X3423	CQS-F020
25	CQ-L025-X3423	CQ-LC025-X3423	CQS-F025
32	CQ-L032-X3423	CQ-LC032-X3423	CQS-F032-X3423

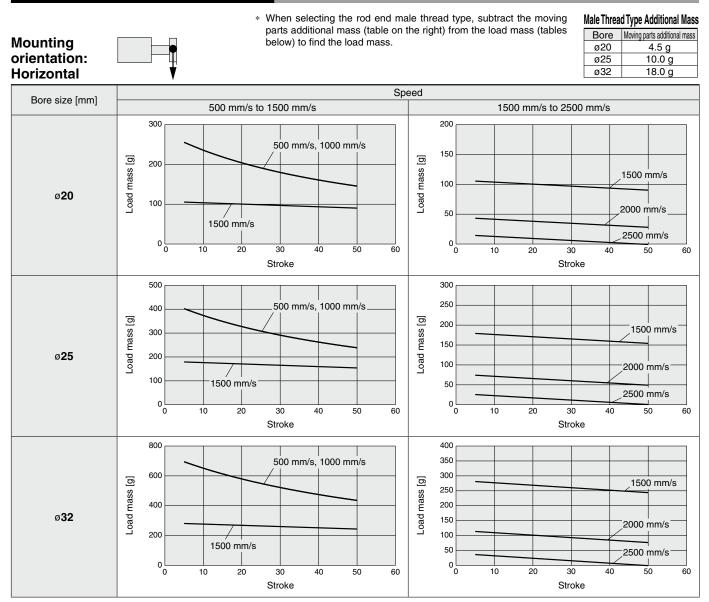
*1 When ordering foot and compact foot brackets, order 2 pieces per cylinder.

* Parts included with each type of bracket are as follows.

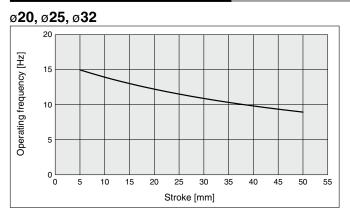
Foot, Compact foot, Flange: Body mounting bolts

SMC

Allowable Lateral Load at Rod End

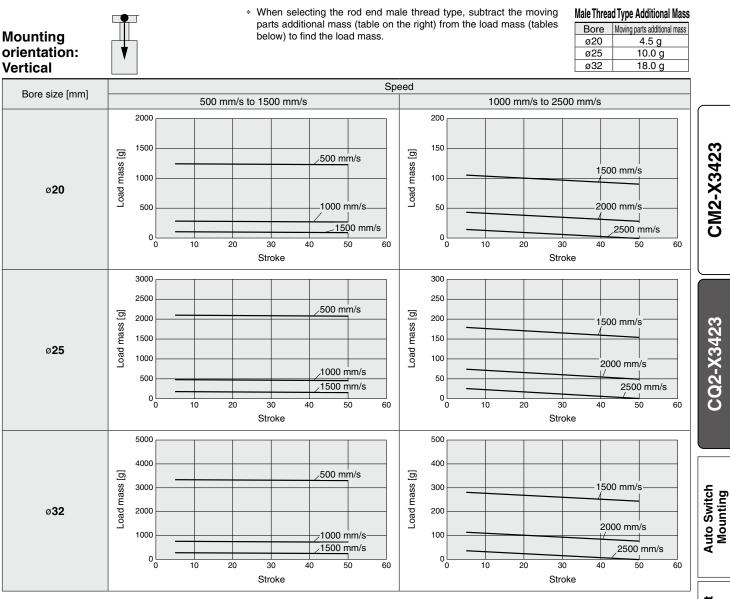


Operating Frequency (Guide)



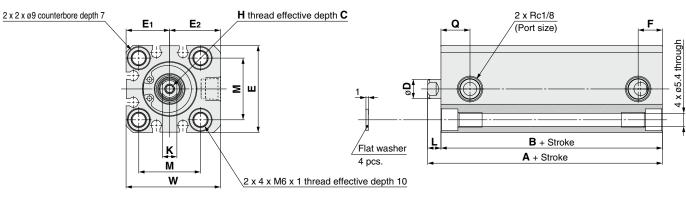
High Speed / High Frequency Cylinder CQ2-X3423

Allowable Lateral Load at Rod End

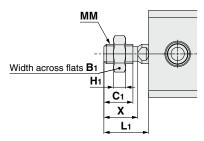


Dimensions



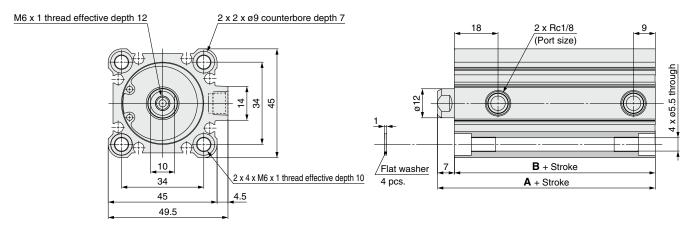


Rod end male thread

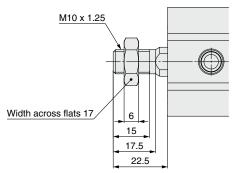


															[mm]
Bore	Stroke	Without	auto swit	ch Wit	h auto	switch	с		`	Е	E1	E	2 F		н
size	range	ge A B			4	В	C	╵╹			E 1		2 F		п
20	F 40 F0	50.5	46	60).5	56	8		8	36	18	21	10	M4	x 0.7
25	5 to 50	54	49	64	1	59	7	1	0	40	20	23	.5 10	M5	x 0.8
		· · · · ·													
Bore size	Stroke range	к	L	М	Q	w	B	1	C1	н	1	L1	MN	1	x
20	5 to 50	6	4.5	25.5	12	39	13	3	12	5	1	8.5	M8 x 1	.25	14
25	5 10 50	8	5	28	11	43.5	5 17	7	15	6	2	2.5	M10 x	1.25	17.5

ø**32**



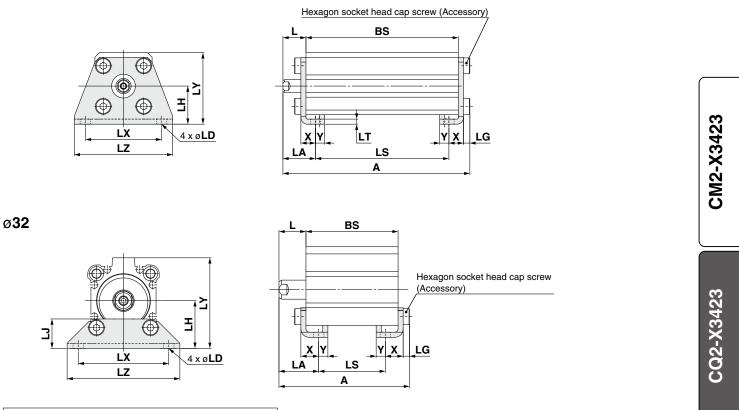




					[mm]
Bore	Stroke	Without a	uto switch	With aut	o switch
size	range	Α	В	Α	В
32	5 to 50	60	53	70	63

Dimensions: Mounting, Foot Bracket

ø**20**, ø**25**

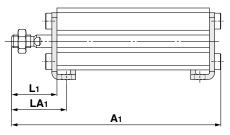


_	
	* BS indicates the overall length of the cylinder tube to be used.

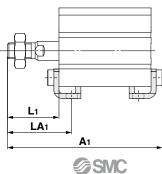
* DO Indicates																		[mm]	
Bore size	Part no.	Α	A 1	L	L1	LA	LA ₁	LD	LG	LH	LJ	LS	LT	LX	LY	LZ	X	Y	
20	CQ-L020-X3423	BS + 21.7	BS + 35.7	14.5	28.5	20.5	34.5	6.6	4	24	—	BS-12	3.2	48	45	62	9.2	5.8	-
25	CQ-L025-X3423	BS + 22.2	BS + 39.7	15	32.5	22.5	40	6.6	4	26	—	BS-15	3.2	52	49.5	66	10.7	5.8	ng
32	CQ-L032-X3423	BS + 24.2	BS + 39.7	17	32.5	25	40.5	6.6	4	30	18.5	BS-16	3.2	57	57	71	11.2	5.8	Swi
																			Auto S Moui
D																			

Rod end male thread

ø**20,** ø**25**



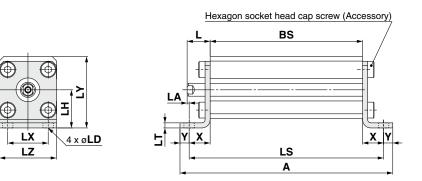




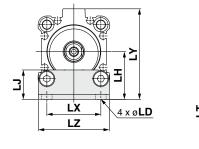
			[mm]
Bore size	A 1	Lı	LA1
20	BS + 35.7	28.5	34.5
25	BS + 39.7	32.5	40
32	BS + 39.7	32.5	40.5

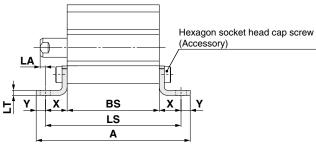
Dimensions: Mounting, Compact Foot Bracket

ø**20**, ø**25**



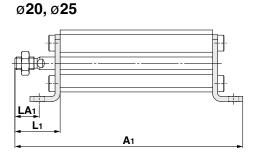
ø**32**



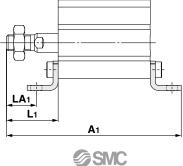


* BS indicates	the overall length o	sed.													[mm]		
Bore size	Part no.	Α	A 1	L	L1	LA	LA ₁	LD	LH	LJ	LS	LT	LX	LY	LZ	X	Υ
20	CQ-LC020-X3423	BS + 38	BS + 47.5	14.5	28.5	1.3	15.3	6.6	24	—	BS + 26.4	3.2	25.5	42	36	13.2	5.8
25	CQ-LC025-X3423	BS + 38	BS + 51.5	15	32.5	1.8	19.3	6.6	26	—	BS + 26.4	3.2	28	46	40	13.2	5.8
32	CQ-LC032-X3423	BS + 39	BS + 52	17	32.5	3.3	18.8	6.6	30	18.5	BS + 27.4	3.2	34	57	45	13.7	5.8

Rod end male thread



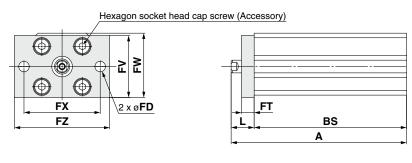
ø**32**



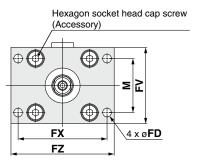
			[mm]
Bore size	A 1	L1	LA ₁
20	BS + 47.5	28.5	15.3
25	BS + 51.5	32.5	19.3
32	BS + 52	32.5	18.8

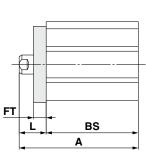
Dimensions: Mounting, Rod Flange

ø**20**, ø**25**



ø**32**

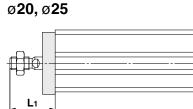




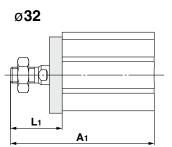
1	
	* BS indicates the overall length of the cylinder tube to be used.

															[mm]	
Bore size	Part no.	Α	A 1	A 2	Аз	FD	FT	FV	FX	FZ	L	L1	L2	L3	М	
20	CQS-F020	BS + 14.5	BS + 28.5	BS + 12.5	BS + 26.5	6.6	8	39	48	60	14.5	28.5	4.5	18.5	—	
25	CQS-F025	BS + 15	BS + 32.5	BS + 13	BS + 30.5	6.6	8	42	52	64	15	32.5	5	22.5	—	itch
32	CQ-F032-X3423	BS + 17	BS + 32.5	BS + 15	BS + 30.5	5.5	8	48	56	65	17	32.5	7	22.5	34	_ ≥ ÷⊒
																Sound
																Mo
																◄

Rod end male thread



A1



		[mm]
Bore size	A1	L1
20	BS + 28.5	28.5
25	BS + 32.5	32.5
32	BS + 32.5	32.5

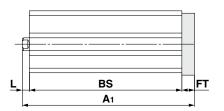
CM2-X3423

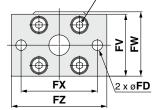
CQ2-X3423

Dimensions: Mounting, Head Flange

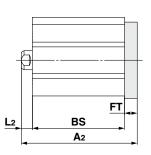
ø**20**, ø**25**

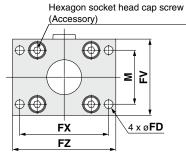
Hexagon socket head cap screw (Accessory)





ø**32**





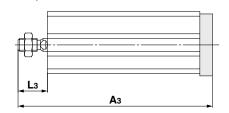
	* BS indicates the overall length of the cylinder tube to be used.														I	
	Bore size	Part no.	Α	A 1	A 2	Аз	FD	FT	FV	FX	FZ	L	L1	L2	L3	
	20	CQS-F020	BS + 14.5	BS + 28.5	BS + 12.5	BS + 26.5	6.6	8	39	48	60	14.5	28.5	4.5	18.5	
	25	CQS-F025	BS + 15	BS + 32.5	BS + 13	BS + 30.5	6.6	8	42	52	64	15	32.5	5	22.5	
_	32	CQ-F032-X3423	BS + 17	BS + 32.5	BS + 15	BS + 30.5	5.5	8	48	56	65	17	32.5	7	22.5	

[mm] **M**

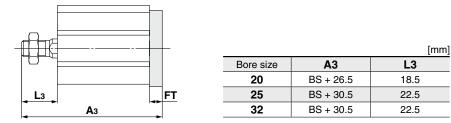
_

34

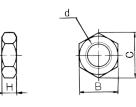
Rod end male thread \emptyset 20, \emptyset 25



ø**32**



Rod End Nut



					[mm]
Bore size	Part no.	d	Н	В	С
20	NT-02	M8 x 1.25	5	13	15.0
25, 32	NT-03	M10 x 1.25	6	17	19.6
,			-		

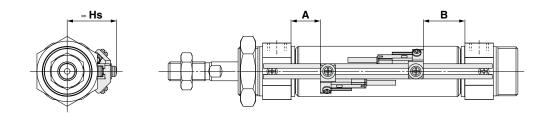
SMC

15

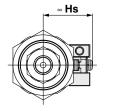


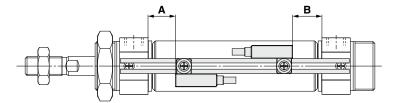
Auto Switch Proper Mounting Position (Detection at stroke end) and Mounting Height

D-M9□(**V**), **D-M9**□**W**(**V**)



D-F7NJ





						[mm]
	Auto switch model					
Bore size		D-M9□(V) D-M9□W(V)		D-F7NJ		
	Α	В	Hs	Α	В	Hs
20	13.5	16.5	23.5	12.5	15.5	23.5
25	15.5	22	26.5	14.5	21	26.5
32	16	23.5	30	15	22.5	30

CM2-X3423

Minimum Stroke for Auto Switch Mounting

n: Number of auto switches [mm]				
Auto switch model	Number of auto switches			
Auto Switch model	With 1 pc.	With 2 pcs.	With n pcs.	
D-M9□(V)	25		10 + 15 (n - 2)	
D-M9⊟W(V)		25	(n = 4, 6…)	
D-F7NJ	25	15 + 20 (n - 2)		
			(n = 4, 6…)	

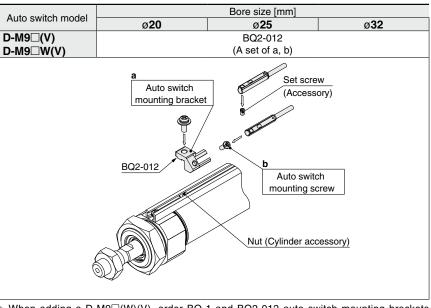
F.....

Operating Range

			լՠՠյ	
Auto switch model	Bore size			
Auto switch model	20	25	32	
D-M9□(V)	3	3.5	1	
D-M9□W(V)	3	3.5	4	

 Values which include hysteresis are for reference purposes only. They are not a guarantee (assuming approximately ±30% dispersion) and may change substantially depending on the ambient environment.

Auto Switch Mounting Brackets/Part Nos.



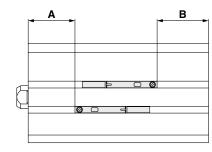
* When adding a D-M9□(W)(V), order BQ-1 and BQ2-012 auto switch mounting brackets separately. When adding a D-F7NJ, order a BQ-1 auto switch mounting bracket separately.

CDQ2-X3423 D-M9 **Auto Switch Mounting**



Auto Switch Proper Mounting Position * Adjust the auto switch after confirming the operating conditions in the actual setting.

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		[mm]	
Bore size	D-M9□(V) D-M9□W(V)		
	Α	В	
20	23.0	21.0	
25	24.5	22.5	
32	28.5	22.5	

Auto Switch Mounting Height * Adjust the auto switch after confirming the operating conditions in the actual setting.

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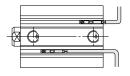
Auto Switch Mounting Height [mm			
Auto switch	D-M9⊡V		
model	D-M9⊟WV		
Bore size	Hs		
20	24.5		
25	26.5		
32	32.5		

Minimum Stroke for Auto Switch Mounting * Adjust the auto switch after confirming the operating conditions in the actual setting.

Applicable Cylinder Series: CDQ2

Applicable Cylinder Series: CDQ2 [m				
Number of auto switches	D-M9□(V)	D-M9⊡W(V)		
With 1 pc.	5	5		
With 2 pcs.	5	10		

* The dimension stated in () shows the minimum stroke for the auto switch mounting when the auto switch does not project from the end surface of the cylinder body and hinder the lead wire bending space. (Refer to the figure below.) The auto switch and auto switch mounting bracket are ordered separately.



Operating Range

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Auto switch model	Bore size			
Auto switch model	20	25	32	
D-M9□(V) D-M9□W(V)	3	3.5	4	

* Values which include hysteresis are for reference purposes only. They are not a guarantee (assuming approximately $\pm 30\%$ dispersion) and may change substantially depending on the ambient environment.

[mm]

CM2-X3423



CM2/CQ2-X3423 Specific Product Precautions

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For actuator and auto switch precautions, refer to "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website.

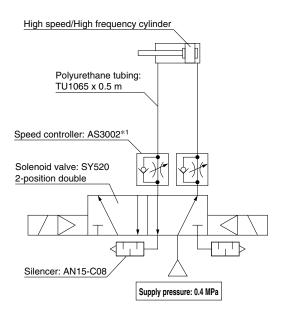
Marning

1. The surface of the cylinder tube may become hot when continuously operated at high speed/high frequency for long periods of time. Therefore, refrain from touching the tube with bare hands.

The surface of the cylinder tube may become hot depending on the pneumatic circuit, operating conditions, and surrounding environment.

Pay attention not to touch it because doing so can cause burns.

* We recommend the following circuit as a measure against the above.



*1 As a measure against cylinder heat generation, install the speed controller as close to the solenoid valve as possible.

Precautions

≜Caution

- High-speed, high-frequency operation may not be possible depending on the pneumatic circuit. (Solenoid valves, silencers, piping, fittings, speed controllers, etc.)
- 2. With high-speed operation, there is a larger impact at the end of the stroke.

Adjust the operating speed and load mass, and use within the allowable kinetic energy range.



These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

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Danger : Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury. Marning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

Caution: Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

A Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. SMC products cannot be used beyond their specifications. They are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not allowed.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, combustion equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogs and operation manuals.
 - 3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

*1) ISO 4414: Pneumatic fluid power - General rules and safety requirements for systems and their components ISO 4413: Hydraulic fluid power - General rules and safety requirements for systems and their components IEC 60204-1: Safety of machinery - Electrical equipment of machines - Part 1: General requirements ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots etc.

SMC develops, designs, and manufactures products to be used for automatic control equipment, and provides them for peaceful use in manufacturing industries.

Use in non-manufacturing industries is not allowed.

Products SMC manufactures and sells cannot be used for the purpose of transactions or certification specified in the Measurement Act of each country. The new Measurement Act prohibits use of any unit other than SI units in Japan.

Limited warranty and Disclaimer/ Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.*2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.
 - *2) Suction cups (Vacuum pads) are excluded from this 1 year warranty. A suction cup (vacuum pad) is a consumable part, so it is warranted for a year after it is delivered.

Also, even within the warranty period, the wear of a product due to the use of the suction cup (vacuum pad) or failure due to the deterioration of rubber material are not allowed by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

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

SMC Corporation

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