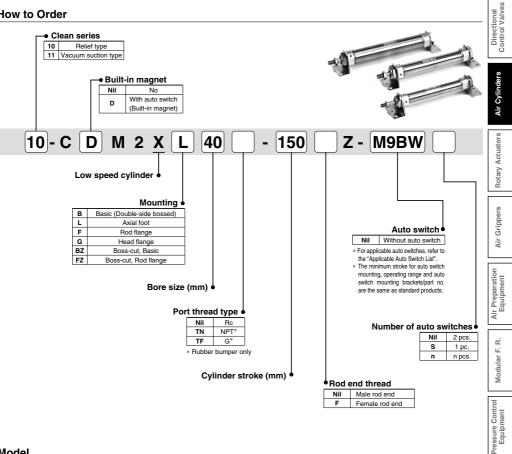
Series ¹⁰⁻CM2X-Z ^{020, 025, 032, 040 Low Speed Cylinder} Double Acting, Single Rod

How to Order



Model

	Model	Bore size (mm)	Port size	Lubrication	Action	Standard stroke (mm)	Auto switch mounting	Cushion Rubber	ubing.									
type	10-CM2X□20	20			be Double acting, 25, 50, 75, 100, 12 Single Rod 150, 200, 250, 30				Fittings & T									
Ţ.	10-CM2X□25	25	1/8	– – Non-lube														
Relief	10-CM2X□32	32																
щ	10-CM2X□40	40	1/4			ing, 25, 50, 75, 100, 125,	0	0	ш									
Vacuum suction type	11-CM2X□20	20				Single Rod 150, 200, 250, 300	150, 200, 250, 300		Ŭ									
	11-CM2X 25	25	1/8							u s								
	11-CM2X 32	32																
> ng	11-CM2X 40	40	1/4	1					uip C									
							-		Flow Control Equipment									

Low Speed Cylinder 10-CM2X-Z/11-CM2X-Z

Specifications

Bore size (mm)	20/25/32/40		
Proof pressure	1.5 MPa		
Maximum operating pressure	1.0 MPa		
Minimum operating pressure	10-: 0.035 MPa, 11-: 0.025 MPa		
	Without auto switch: -10°C to 70°C		
Ambient and fluid temperature	With auto switch: -10°C to 60°C (No freezing)		
Piston speed	10-: 1 to 200 mm/s, 11-: 0.5 to 200 mm/s		
Stroke length tolerance	+1.4 0		
Mounting	Basic/Axial foot/Rod flange/Head flange		
Grease	Fluorine grease		
	10-: Class 4		
Cleanliness class (ISO class)	11-: Class 3		

Suction Flow Rate of Vacuum Suction Type (Reference values)

Bore size (mm)	Suction flow rate L/min (ANR)		
20/25/32/40	2		

Dimensions and applicable auto switches are the same as 10-/11-CM2-Z. Refer to pages 701 to 707.

▲ Specific Product Precautions

Be sure to read this before handling.

Handling

A Warning

1. Do not rotate the cover.

If a cover is rotated when installing a cylinder or screwing a fitting into the port, it is likely to damage the junction part with cover.

A Caution

1. Use caution to the popping of a retaining ring.

When replacing rod seals and removing and mounting a retaining ring, be much careful with the popping of a retaining ring.

Maintenance

A Caution

1. Grease pack

When maintenance requires only grease, use the following part number to order.

Grease pack part no.: GR-X-005 (5 g)

Series 10-CQSX 012, 016, 020, 025 Low Speed Cylinder

suction type

Vacuum

11-CQSXB12

11-CQSXB16

11-CQSXB20

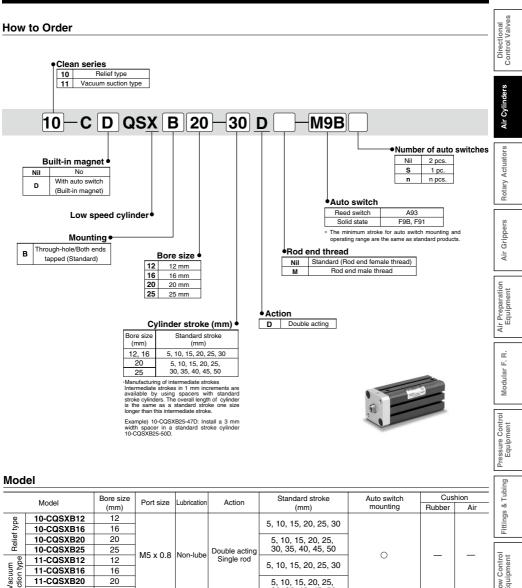
11-CQSXB25

12

16

20

25



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Pressure Switches/	Pressure Sensors	

Single rod

5, 10, 15, 20, 25, 30

5, 10, 15, 20, 25, 30, 35, 40, 45, 50

Low Speed Cylinder 10-CQSX/11-CQSX

Specifications

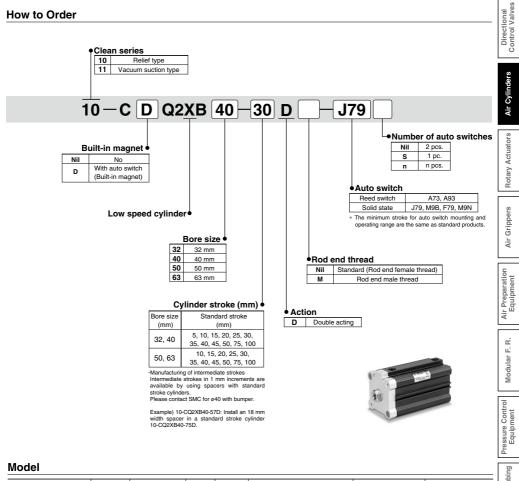
Bore size	10- (Relief type)				
(mm)	12	16	20	25	
Fluid	Air				
Proof pressure		1.5	MPa		
Maximum operating pressure		1.0	MPa		
Minimum operating pressure	0.04 MPa		0.035 MPa		
Ambient and fluid temperature	Without auto switch: -10 to 70°C (With no freezing)				
Ambient and fluid temperature	With auto switch: -10 to 60°C (With no freezing)				
Piston speed	1 to 200 mm/s				
Stroke length tolerance	^{+1.0} mm				
Port size	M5 x 0.8				
Relief port	M5 x 0.8				
Grease	Fluorine grease				
Cleanliness class (ISO class)	Class 4				

Bore size	 11- (Vacuum suction type) 					
(mm)	12	16	20	25		
Fluid		A	ir			
Proof pressure		1.5	MPa			
Maximum operating pressure		1.0	MPa			
Minimum operating pressure	0.03	MPa	0.025 MPa			
Ambient and fluid temperature	Without auto switch: -10 to 70°C (With no freezing)					
Ambient and huid temperature	With auto switch: -10 to 60°C (With no freezing)					
Piston speed	1 to 20	0 mm/s	0.5 to 200 mm/s			
Stroke length tolerance	+1.0 mm					
Port size	M5 x 0.8					
Vacuum suction port	M5 x 0.8					
Grease	Fluorine grease					
Cleanliness class (ISO class)	Class 3					
Suction flow rate (Reference values)	5 L/min (ANR)					

Dimensions and applicable auto switches are the same as 10-/11-CQS. Refer to pages 750 to 754.

Series 10-CQ2X 032, 040, 050, 063 Low Speed Cylinder





	-											
Model		Bore size	Port size	Lubrication	Action	Standard stroke	Auto switch	Cushion		Tut		
	Model		FUILSIZE	Lubrication	(mm)	mounting	Rubber	Air	оо (0			
e	10-CQ2XB32	32	M5 x 0.8, Rc1/8 Note 1)			5, 10, 15, 20, 25, 30,				ngs		
ţ	10-CQ2XB40	40	Rc1/8	1		35, 40, 45, 50, 75, 100				Etti		
Relief type	10-CQ2XB50	50	D-1/4			10, 15, 20, 25, 30, 35						
Å,	10-CQ2XB63	63	Rc1/4	- Non-lube	Double acting	40, 45, 50, 75, 100				-		
type	11-CQ2XB32	32	M5 x 0.8, Rc1/8 Note 1)		Single rod	5, 10, 15, 20, 25, 30,	0			Control ipment		
n typ	11-CQ2XB40	40	Rc1/8			35, 40, 45, 50, 75, 100				D u u		
Vacut suction	11-CQ2XB50	50	De1/4			10, 15, 20, 25, 30, 35				Flow (Equi		
> suc	11-CQ2XB63	63	RC1/4	Rc1/4	./4			40, 45, 50, 75, 100				운피

SMC

Note 1) For ø32 without an auto switch, M5 x 0.8 is used for 5 mm stroke only.

Pressure Switches/ Pressure Sensors

Low Speed Cylinder 10-CQ2X/11-CQ2X

Specifications

Bore size	10- (Relief type)					
(mm)	32	50	63			
Fluid	Air					
Proof pressure		1.5	MPa			
Maximum operating pressure		1.0	MPa			
Minimum operating pressure	0.035	5 MPa	0.03 MPa			
	Without auto switch: -10 to 70°C (With no freezing)					
Ambient and fluid temperature	With auto switch: -10 to 60°C (With no freezing)					
Piston speed	1 to 200 mm/s					
Stroke length tolerance	+1.0 mm					
Port size	M5 x 0.8, 1/8	1/8	1	/4		
Relief port	M5 x 0.8					
Grease	Fluorine grease					
Cleanliness class (ISO class)	Class 4					

Bore size	11- (Vacuum suction type)				
(mm)	32	40	50	63	
Fluid		A	lir		
Proof pressure		1.5	MPa		
Maximum operating pressure		1.0	MPa		
Minimum operating pressure	0.025	MPa	0.02 MPa		
Ambient and fluid temperature	Without auto switch: -10 to 70°C (With no freezing)				
Ambient and fluid temperature	With auto switch: -10 to 60°C (With no freezing)				
Piston speed	0.5 to 200 mm/s				
Stroke length tolerance	+1.0 mm				
Port size	M5 x 0.8, 1/8	1/8	1.	/4	
Vacuum suction port	M5 x 0.8				
Grease	Fluorine grease				
Cleanliness class (ISO class)	Class 3				
Suction flow rate (Reference values)	5 L/min (ANR) 1			n (ANR)	

Dimensions and applicable auto switches are the same as 10-/11-CQ2. Refer to pages 759 to 762.