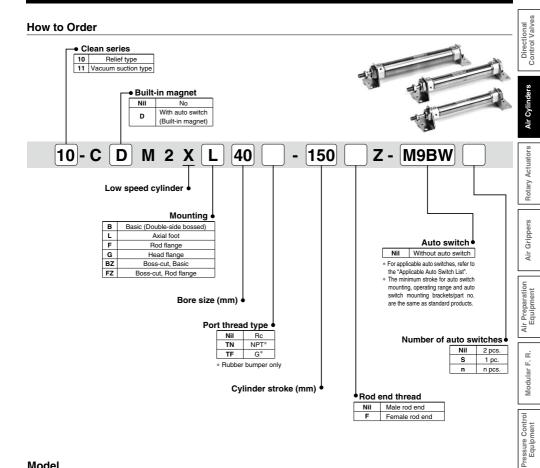
Series 10-CM2X-Z ©20, ©25, ©32, ©40 Low Speed Cylinder Double Acting, Single Rod



Model

	Model	Bore size (mm)	Port size	Lubrication	Action	Standard stroke (mm)	Auto switch mounting	Cushion Rubber
96	10-CM2X □20	20						
type	10-CM2X □25	25	1/8					
Relief	10-CM2X □32	32						
	10-CM2X □40	40	1/4	Non-lube	Double acting,	25, 50, 75, 100, 125,	0	0
acuum tion type	11-CM2X □20	20		Non-lube	Single Rod	150, 200, 250, 300	Ŭ	Ŭ
₩ £ [11-CM2X □25	25	1/8					
Vacue	11-CM2X□32	32						
ons	11-CM2X□40	40	1/4					

Pressure Switches/ Pressure Sensors

Flow Control Equipment

Fittings & Tubing

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	0.05 MPa				
Ambient and fluid temperature	Without auto switch: -10°C to 70°C With auto switch: -10°C to 60°C (No freezing)				
Piston speed	30 to 400 mm/s				
Stroke length tolerance	+1.4 0				
Mounting	Basic/Axial foot/Rod flange/Head flange				
Grease	Fluorine grease				
01 11 (100 1)	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

⚠ 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.

⚠ 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.

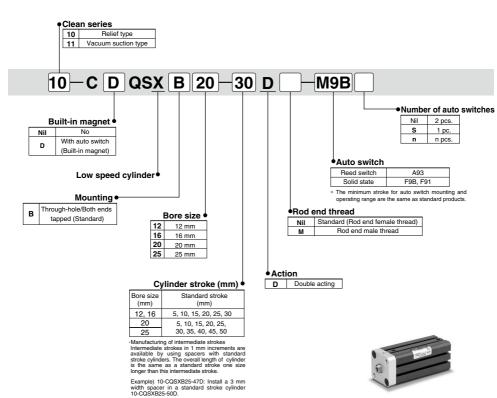
Maintenance

⚠ 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)



Model

How to Order

	<u> </u>								
	Martal	Bore size		Lubrication Action	Standard stroke	Auto switch	Cushion		
	Model	(mm)	Port size	Lubrication	Action	(mm)	mounting	Rubber	Air
9	10-CQSXB12	12				5, 10, 15, 20, 25, 30			
Relief type	10-CQSXB16	16				5, 10, 15, 20, 25, 30			
ie l	10-CQSXB20	20				5, 10, 15, 20, 25,			
	10-CQSXB25	25	M5 x 0.8	Non lubo	Double acting	30, 35, 40, 45, 50	0		
ر pe	11-CQSXB12	12	IVID X U.6	Non-lube	Single rod	5, 10, 15, 20, 25, 30	O	_	
F 5	11-CQSXB16	16				3, 10, 13, 20, 23, 30			
Vacuum suction type	11-CQSXB20	20				5, 10, 15, 20, 25,			
^ ă∣	11-CQSXB25	25				30, 35, 40, 45, 50			

Low Speed Cylinder 10-CQSX/11-CQSX

Specifications

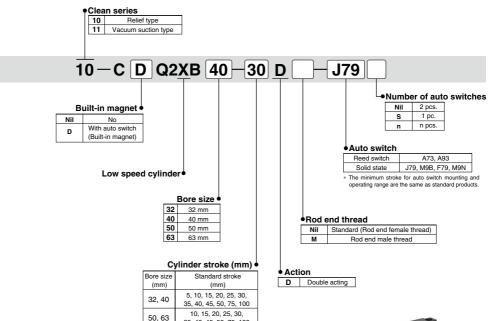
Bore size	10- (Relief type)				
(mm)	12	25			
Fluid		А	ir		
Proof pressure		1.5	MPa		
Maximum operating pressure		1.0	MPa		
Minimum operating pressure	0.04 MPa 0.035 MPa			5 MPa	
A bi b d file id b	Without auto switch: -10 to 70°C (With no freezing)				
Ambient and fluid temperature	With auto switch: -10 to 60°C (With no freezing)				
Piston speed		1 to 20	0 mm/s		
Stroke length tolerance		+1.0 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	25				
Fluid		-	Air			
Proof pressure		1.5	MPa			
Maximum operating pressure	1.0 MPa					
Minimum operating pressure	0.03 MPa 0.025 MPa			5 МРа		
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 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.

Air

How to Order



35, 40, 45, 50, 75, 100 ·Manufacturing of intermediate strokes Intermediate strokes in 1 mm increments are available by using spacers with standard

Please contact SMC for ø40 with bumper

Example) 10-CQ2XB40-57D; Install an 18 mm width spacer in a standard stroke cylinder 10-CQ2XB40-75D.

stroke cylinders

Model

	Model	Bore size	Port size	Lubrication	Action	Standard stroke	Auto switch	Cus	hion
	Model	(mm)	Port Size	Lubrication	ACTION	(mm)	mounting	Rubber	Air
type	10-CQ2XB32	32	M5 x 0.8, Rc1/8 Note 1)			5, 10, 15, 20, 25, 30,			
Ţ	10-CQ2XB40	40	Rc1/8			35, 40, 45, 50, 75, 100			
Relief	10-CQ2XB50	50	Rc1/4	1		10, 15, 20, 25, 30, 35			
	10-CQ2XB63	63	HC1/4	Non-lube	Double acting	40, 45, 50, 75, 100			
type	11-CQ2XB32	32	M5 x 0.8, Rc1/8 Note 1)	INOII-IUDE	Single rod	5, 10, 15, 20, 25, 30,	0	-	_
uum n typ	11-CQ2XB40	40	Rc1/8]		35, 40, 45, 50, 75, 100			
Vacuu suction 1	11-CQ2XB50	50	De1/4	1		10, 15, 20, 25, 30, 35			
> ೫	11-CQ2XB63	63	Rc1/4			40, 45, 50, 75, 100			

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	63			
Fluid		А	ir		
Proof pressure		1.5	MPa		
Maximum operating pressure		1.0	MPa		
Minimum operating pressure	0.035 MPa 0.03 MPa				
A bi b d florid b	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	acuum suction type)			
(mm)	32	32 40 50				
Fluid		Α	ir			
Proof pressure		1.5	MPa			
Maximum operating pressure		1.0 l	MPa			
Minimum operating pressure	e 0.025 MPa 0.02 M					
Ambient and fluid temperature	Without auto switch: -10 to 70°C (With no freezing)					
Ambient and huld 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/mir	(ANR)	10 L/mi	in (ANR)		

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