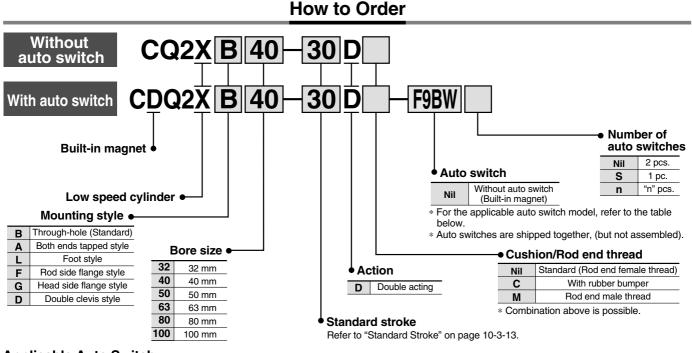


The external dimensions and the related things about auto switches are the same as standard type, double acting, single CAD rod. For Series CQ2, CDQ2, refer to Best Pneumatics Vol. 7.



Applicable Auto Switch/Refer to page 10-20-1 for further information on auto switches.

	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Rail mounting style		Direct mounting style		Lead wire length (m)*							
Туре					DC		AC	ø32 to ø100		ø32 to ø100		0.5	3		None	Pre-wire connector		cable
							AC	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(L)	(Z)	(N)	CONNECTOR	load	au
Reed switch		Grommet	I	3-wire (NPN equivalent)	_	5 V	_	_	A76H	A96V	A96	•	•	—	_	—	IC circuit	—
				2-wire	_	—	200 V	A72	A72H	—	—		\bullet	—	—		Relay, PLC	
d s/	_		es				100 V	A73	A73H	-	_				Ι	—		Delau
Reed			\succ		12 V	12 V		—	—	A93V	A93		\bullet	_	—	—		
		Connector		2 1110	24 V	/	_	A73C	_	—			\bullet	۲		_		1 20
	Diagnostic indication (2-color indication)	Grommet				_	—	A79W	—	-	—	•	•	—	—	—		
switch	_			3-wire (NPN)	514 4014		F7NV	F79	M9NV	M9N			0	—	0			
		Grommet		3-wire (PNP)		5 V, 12 V		F7PV	F7P	M9PV	M9P	•	۲	0	-	0	IC circuit	
				Quuina		12 V		F7BV	J79	M9BV	M9B			0	—	0		
		Co	Connector	6	2-wire		12 V		J79C	—	—	—		٠	٠		—	
state	Diagnostic indication (2-color indication)		Yes	3-wire (NPN)	24 V	5 V, 12 V	—	F7NWV	F79W	F9NWV	F9NW		•	0	—	0	IC circuit	Relay, PLC
Solid		-color indication) Grommet	3-wire (PNP)		5 V, 12 V	— F7PW F9PWV F9PW		•	0	—	0		1 20					
				2-wire		12 V		F7BWV	J79W	F9BWV	F9BW			0	—	0		
	With diagnostic output (2-color indication)			4-wire (NPN)		5 V, 12 V		_	F79F	_	—	•	•	0	_	0	IC circuit	
* Lead	* Lead wire length symbols: 0.5 m Nil (Example) A73C * Solid state switches marked with "O" are produced upon receipt of order.																	

(Example) A73CL 3 m L 5 m Z (Example) A73CZ None N (Example) A73CN

• Since there are other applicable auto switches than listed, refer to Best Pneumatics Vol. 7 for details.

• For details about auto switches with pre-wire connector, refer to page 10-20-66.

Low Speed Cylinder Double Acting, Single Rod Series CQ2X



40 100 Bore size (mm) 32 50 63 80 Model Pneumatic (Non-lube) Fluid Air 1.5 MPa Proof pressure 1.0 MPa Maximum operating pressure Without auto switch: -10 to 70°C (No freezing) Ambient and fluid temperature With auto switch: -10 to 60°C (No freezing) Note) Piping Screw-in type M5 x 0.8 Rc 1/8 Rc 1/4 Rc 1/4 Rc 3/8 Rc 3/8 Rc 1/8 Rubber bumper None Rod end thread Female thread Rod end thread tolerance JIS Class 2 +1.0 Stroke length tolerance Mounting Through-hole Piston speed 0.5 to 300 mm/s Note) Only 5 stroke comes with M5 x 0.8 in the case of no auto switch.

Minimum Operating Pressure

Bore size (mm)	32	40	50	63	80	100			
Min. operating pressure (MPa)	0.0	0.025		0.01					

Standard Stroke

Specifications

Bore size (mm)	Standard stroke (mm)				
32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100				
50, 63 80, 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100				

 Manufacturing of Intermediate stroke Intermediate strokes by the 1 mm interval are available by using spacers with standard stroke cylinders. But, as for ø40 to ø100 with damper, please consult with SMC separately.
Example) 18 mm width spacer is installed in the standard cylinder CQ2XB40-75D to make
CQ2XB40-57D.

APrecautions

Be sure to read before handling. For Safety Instructions and Actuator Precautions, refer to pages 10-24-3 to 10-24-6.

Snap Ring Installation/Removal

▲Caution

- For installation and removal, use an appropriate pair of pliers (tool for installing a type C snap ring).
- 2. Even if a proper plier (tool for installing type C snap ring) is used, it is likely to inflict damage to a human body or peripheral equipment, as a snap ring may be flown out of the tip of a plier (tool for installing a type C snap ring). Be much careful with the popping of a snap ring. Besides, be certain that a snap ring is placed firmly into the groove of rod cover before supplying air at the time of installment.

Pneumatic Circuit

1. Pressure supplied to cylinder should be set affordably. When the operating pressure is low, low speed operation may not be stable depending on a load condition. Besides, the maximum speed may be restricted depending on a pneumatic circuit, or operating pressure.

多SMC

Maintenance

\land Caution

1. Replacement parts/Seal kit

Order it in accordance with the bore size.								
Kit no.	Contents							
CQ2X32-PS	Piston seal	1 pc.						
CQ2X40-PS	1 131011 3041.	i po.						
CQ2X50-PS	Rod seal:	1 pc.						
CQ2X63-PS	Gasket:	1 pc.						
CQ2X80-PS	0	1						
CQ2X100-PS	Grease pack (10 g):	i pc.						
	Kit no. CQ2X32-PS CQ2X40-PS CQ2X50-PS CQ2X63-PS CQ2X80-PS	Kit no. Contents CQ2X32-PS Piston seal: CQ2X40-PS Pod seal: CQ2X50-PS Rod seal: CQ2X63-PS Gasket: CQ2X80-PS Grease pack (10 n)						

2. Grease pack

When maintenance requires only grease, use the following part numbers to order. Grease pack GR-L-005 (5 g) GR-L-010 (10 g)

GR-L-150 (150 g)

Mounting Bracket Part No.

Bore size (mm)	Foot ⁽¹⁾	Flange	Double clevis		
32	CQ-L032	CQ-F032	CQ-D032		
40	CQ-L040	CQ-F040	CQ-D040		
50	CQ-L050	CQ-F050	CQ-D050		
63	CQ-L063	CQ-F063	CQ-D063		
80	CQ-L080	CQ-F080	CQ-D080		
100	CQ-L100	CQ-F100	CQ-D100		

Note 1) When ordering foot bracket, order 2 pieces per cylinder. Note 2) Parts belonging to each bracket are as

follows. Foot or Flange: Body mounting bolts Double clevis: Clevis pin, Type C snap ring for shaft, Body mounting bolts

Note3) For double clevis style, clevis pin and snap ring are shipped together. Data

REA