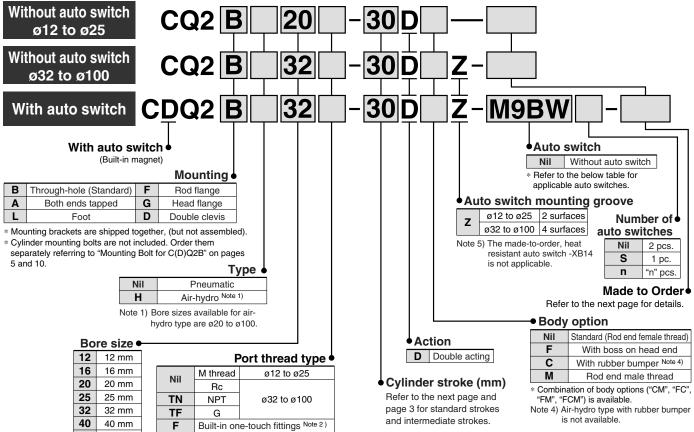
Compact Cylinder: Standard Double Acting, Single Rod

Series CQ2

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

How to Order



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) CDQ2L32-25DZ

Refer to pages 1263 to 1371 in Best Pneumatics No. 2 for further information on auto switches.

Applicable Auto Switches/Refer to the individual catalog (ES20-201) for the D-P3DW type.

use for air-hydro type. Note 3) "TF" is not available for air-hydro type.

compatible only for ø32-5 mm stroke.

Note 2) Bore sizes available with one-touch fittings

* For cylinders without auto switch, M threads are

are Ø32 to Ø63. Besides, it is not possible to

50

63

80

100

50 mm

63 mm

80 mm

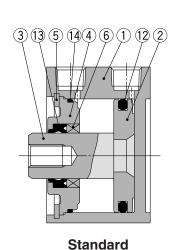
100 mm

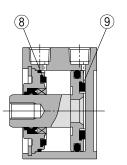
	Special function	Electrical of the contry	Indicator light	\A/:	Load voltage		Auto switch model		Lead wire length (m)				(m)	D								
Туре				Wiring (Output)	D	С	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)		Applical	ble load					
Solid state auto switch				3-wire (NPN)	-wire (PNP) 2-wire -wire (NPN) -wire (PNP) 2-wire -wire (NPN) 24 V	5 V,	5 V, 12 V 12 V 5 V, 12 V	M9NV	M9N	•	•	•	0	_	0	IC aireuit	0					
				3-wire (PNP)		12 V		M9PV	M9P	•	•	•	0	-	0	IC circuit						
				2-wire		12 V		M9BV	M9B	•	•	•	0	_	0							
	Diagnostic indication (2-color indication)	Grommet		3-wire (NPN)		5 V,		M9NWV	M9NW	•	•	•	0	-	0	IC circuit						
			Yes	3-wire (PNP)		12 V		M9PWV	M9PW		—	0	IC circuit	Relay,								
			163	2-wire		12 V		M9BWV	M9BW	•	•	•	0	-	0	— PLO	PLC					
	Water resistant (2-color indication)			3-wire (NPN)		5 V,	'	M9NAV**	M9NA**	0	0	•	0	—	0	IC circuit						
				3-wire (PNP)		1	12 V		M9PAV**	M9PA**	0	0	•	0	-	0	Circuit					
				2-wire	12 V	1	M9BAV**	M9BA**	0	0	•	0	_	0								
	Magnetic field resistant (2-color indication)			2-wire (Non-polar)		_		_	P3DW	•	_	•	•	_	0							
Reed auto switch		— Grommet	Vo				Yes	Vaa	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	•	_	•	_	-	_	IC circuit	_
			No	2-wire 24 V	12 V	100 V	A93V	A93	•	_	•	_	_	_	_	Relay,						
					24 V	5 V,12 V	100 V or less	A90V	A90	•		•	Ė		_	IC circuit	PLC					

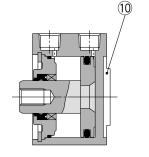
- * Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.
- If water resistance is needed, we recommend water resistant cylinders be used. (Page 156) * Lead wire length symbols: 0.5 m ······ Nil (Example) M9NW
 - 1 m M (Example) M9NWM (Example) M9NWL (Example) M9NWZ
- Solid state auto switches marked with "O" are produced upon receipt of order.
- The D-P3DW□ type is available from ø32 to ø100 only.
- * There are other applicable auto switches other than the listed above. For details, refer to page 175.
- * For details about auto switches with pre-wired connector, refer to pages 1328 and 1329 in Best Pneumatics No. 2.



Construction

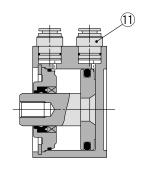


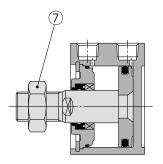




With rubber bumper

With boss on head end





Built-in one-touch fittings

Rod end male thread

Component Parts

No.	Description	Material	Note			
1	Cylinder tube	Aluminum alloy	Hard anodized			
2	Piston	Aluminum alloy	Chromated			
3	Piston rod	Stainless steel	ø12 to ø25			
3	Pistoli iou	Carbon steel	ø32 to ø100, Hard chrome plated			
4	Collar	Aluminum alloy	ø12 to ø40, Anodized			
4	Collar	Aluminum alloy casted	ø50 to ø100, Chromated, Painted			
5	Retaining ring	Carbon tool steel	Phosphate coated			
6	Bushing	Bearing alloy	For ø50 or more only			
7	Rod end nut	Carbon steel	Nickel plated			
8	Bumper A	Urethane				

No.	Description	Material	Note			
9	Bumper B	Urethane				
10	Centering location ring	Aluminum alloy	ø20 to ø100, Hard anodized			
11	One-touch fitting	_	ø32 to ø63			
12	Piston seal	NBR				
13	Rod seal	NBR				
14	Gasket	NBR				

Replacement Parts/Seal Kit (Pneumatic type)

inspirate in the countries of the contract of						
Bore size (mm)	Kit no.	Contents				
12	CQ2B12-PS					
16	CQ2B16-PS					
20	CQ2B20-PS					
25	CQ2B25-PS					
32	CQ2B32-PS	Kits include items				
40	CQ2B40-PS	the table.				
50	CQ2B50-PS					
63	CQ2B63-PS					
80	CQ2B80-PS					
100	CQ2B100-PS					

- * Seal kit includes ①, ①, ①. Order the seal kit, based on each bore size.
- * Since the seal kit does not include a grease pack, order it separately.

Grease pack part no.: GR-S-010 (10 g)

Replacement Parts/Seal Kit (Air-hydro type)

) · · · · /				
Bore size (mm)	Kit no.	Contents				
20	CQ2BH20-PS					
25	CQ2BH25-PS					
32	CQ2BH32-PS					
40	CQ2BH40-PS	Kits include items				
50	CQ2BH50-PS	the table.				
63	CQ2BH63-PS					
80	CQ2BH80-PS					
100	CQ2BH100-PS					

- * Seal kit includes 12, 13, 14. Order the seal kit, based on each bore size.
- * Since the seal kit does not include a grease pack, order it separately. Grease pack part no.: GR-S-010 (10 g)