


Low Friction: Double Acting Single Rod

Series CJ2Q

ø10, ø16



How to Order



Bore size

10	10mm
16	16mm

Mounting

B	Basic
L	Axial foot
F	Front flange
D	Double clevis

Standard stroke (mm)

ø10	15, 30, 45, 60, 75, 100, 125, 150
ø16	15, 30, 45, 60, 75, 100, 125, 150, 175, 200

Standard

CJ2Q

L

16

60

With auto switch

CDJ2Q

L

16

60

C73

With auto switch
(Built-in magnet)

Port location on head cover

Symbol	Port location
—	Perpendicular
R	In-line

* Refer to p.1.3-54 for the configuration.

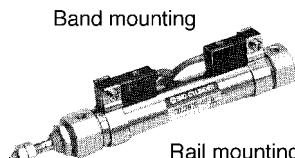
Auto switch

* Refer to the table below for selecting applicable auto switches.


* If requiring a built-in magnet cylinder without an auto switch, refer to the model number example below.

Number of switches

—	2
S	1
n	n



Band mounting



Rail mounting

Applicable Auto Switches/Refer to p.5.3-2 for further information on auto switch.

Style	Special function	Electrical entry	Indicator	Wiring (Output)	Load voltage		Auto switch model			Lead wire* (m)				Applicable load				
					DC	AC	Band	Rail		0.5 (—)	3 (L)	5 (Z)	None (N)					
Reed switch	—	Grommet	Yes	3 wire (NPN) 2 wire	— — 24V	5V	—	C76	—	A76H	●	●	—	—	IC	— Relay PLC		
						—	200V	—	A72	A72H	●	●	—	—	—			
						12V	100V	C73	A73	A73H	●	●	●	—	—			
		5V, 12V	≤100V			C80	A80	A80H	●	●	—	—	IC					
		12V	—			C73C	A73C	—	●	●	●	●	—					
		5V, 12V	≤24V			C80C	A80C	—	●	●	●	●	IC					
	Diagnostic indication (2 color)	Grommet	Yes	—	—	—	A79W	—	●	●	—	—	—					
Solid state switch	—	Grommet	Yes	3 wire (NPN)	24V	5V, 12V	—	H7A1	F7NV	F79	●	●	○	—	IC	Relay PLC		
				3 wire (PNP)		—	H7A2	F7PV	F7P	●	●	○	—	—				
				2 wire		12V	—	H7B	F7BV	J79	●	●	○	—	—			
		Connector	No	—		—	—	H7C	J79C	—	●	●	●	●	—			
				3 wire (NPN)		5V, 12V	—	H7NW	F7NVV	F79W	●	●	○	—	IC			
				3 wire (PNP)		—	H7PW	—	F7PW	●	●	○	—	—				
	Diagnostic indication (2 color)	Grommet	Yes	2 wire	24V	12V	—	H7BW	H7BWV	J79W	●	●	○	—	—			
				—				—	—	H7BA	—	F7BA	—	●	○		—	—
				3 wire (NPN)				5V, 12V	—	—	—	F7NT	—	●	○		—	IC
				3 wire (PNP)				—	H7NF	—	F79F	●	●	○	—		—	
				4 wire (NPN)				—	H7LF	—	F7LF	●	●	○	—		—	
				—				—	—	—	—	—	—	—	—		—	
				—				—	—	—	—	—	—	—	—		—	

* Lead wire length 0.5m..... e.g.) C73C 5m.....Z e.g.) C73CZ

3m.....L C73CL None.....N C73CN

* Solid state switches marked with "○" are manufactured upon receipt of order.

Part No. of Cylinder with Built-in Magnet

Symbol "A" (rail mounting) or "B" (band mounting) should be suffixed to the part No. of the cylinder with auto switch.

Ex.	Rail mounting	CDJ2QB16-60-A
	Band mounting	CDJ2QB10-45-B

Low Friction Style: Double Acting Single Rod *Series CJ2Q*

Specially designed to keep friction of the piston to a minimum. Suitable for contact-pressure control requiring smooth operation at low pressures.

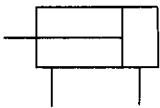
Low Friction

Min. operating pressure: 0.03MPa



JIS symbol

Double acting/Single rod

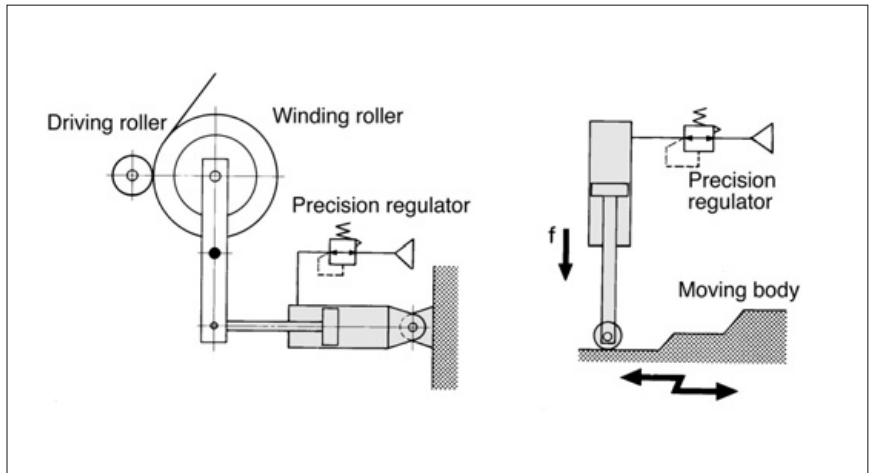


Precautions

Refer to p.0-39 to 0-46 before handling.

Application Example

The low friction cylinder should be used with precision regulator (e.g. Series IR).



Specifications

Action	Double acting/Single rod	
Fluid	Air	
Proof pressure	1.05MPa	
Max. operating pressure	0.7MPa	
Min. operating pressure	0.03MPa	
Ambient and fluid temperature	Without auto switch: -10°C to 70°C, With auto switch: -10°C to 60°C*	
Cushion	Rubber bumper	
Lubrication	Non-lube	
Thread tolerance	JIS class 2	
Stroke tolerance	+1.0 0	
Bore size (mm)	ø10, ø16	
Mounting	Basic, Axial foot, Front flange, Double clevis	
Piston speed	50 to 750mm/s	
Allowable kinetic energy	ø10	0.035J
	ø16	0.090J

* No freezing

Standard Stroke

Bore size	Standard stroke (mm)
10	15, 30, 45, 60, 75, 100, 125, 150
16	15, 30, 45, 60, 75, 100, 125, 150, 175, 200

Minimum Stroke for Auto Switch Mounting

- Refer to p.1.3-3.

CJ1

CJP

CJ2

CM2

C85

CG1

MB

C95

CA1

CS1