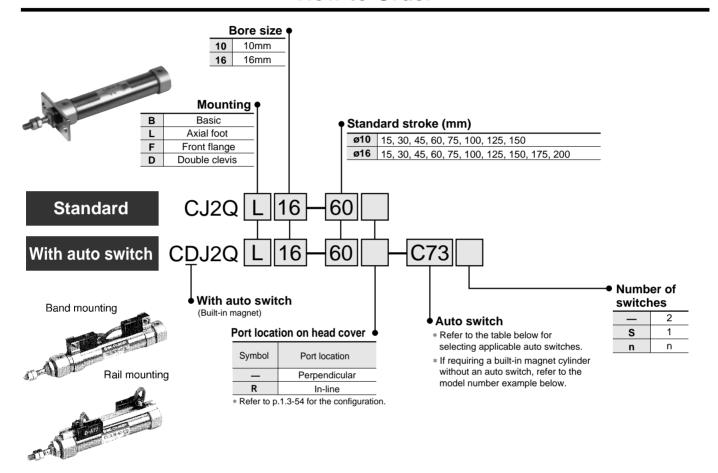
Low Friction: Double Acting Single Rod

Series CJ2Q



ø10, ø16

How to Order



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

			Ď			Load vol	tage	Auto	switch m	odel	Lead	iw b	·е* (г	m)		
Style	Special function	Electrical entry	ndicator	Wiring (Output)		DC AC		Band	Rail		0.5	3		None		icable ad
		entry	Ĕ	, , ,		DC	AC	Danu	Perp.	In-line	(—)	(L)	(Z)	(N)		
				3 wire (NPN)	_	5 V	—	C76	_	A76H	•	•	-	-	IC	_
Reed switch		Grommet	Yes		_		200V	_	A72	A72H	•	•	_	_		
Ž						12V	100V	C73	A73	A73H	•	•	•	_		
ğ			No	2 wire		5V, 12V	≤100V	C80	A80	H08A	•	•	_	-	IC	Relay
ă		Canadas	Yes	2 wire	24V	12V	_	C73C	A73C	_	- • •	•	•	_	PLC	
_			No			5V, 12V	≤24V	C80C	A80C	_	•	•	•	•	IC	
	Diagnostic indication (2 color)	Grommet	Yes						A79W	_	•	•	_	_	_	
				3 wire (NPN)		5V, 12V	_	H7A1	F7NV	F79	•	•	0	_	IC	
		Grommet		3 wire (PNP)				H7A2	F7PV	F7P	•	•	0	-		
_				2 wire		12V		H7B	F7BV	J79	•	•	0			
غ		Connector		2 WIIG		120		H7C	J79C	_	•	lacktriangle	•	•		
Š				3 wire (NPN)		5V, 12V		H7NW	F7NWV	F79W	•	•	0		IC	
ate	Diagnostic indication (2 color)		Yes	3 wire (PNP)	24V	30,120		H7PW	_	F7PW	•	lacktriangle	0	_	ic	Relay PLC
st	(2 3010.)		res		24 V			H7BW	H7BWV	J79W	•	•	0			1 20
Solid state switch	Water resistant (2 color)	Grommet	t	2 wire		12V	—	Н7ВА	_	F7BA		•	0	$\left - \right $	_	
	With timer			3 wire (NPN)				_	— F7NT	F7NT	_	•	0	-	IC	
	With diagnostic output (2 color)			4 wire		5V, 12V		H7NF		F79F	•	•	0		10	
	Latch with diagnostic output (2 color)			(NPN)				H7LF		F7LF	•	•	0	_		

* Lead wire length

0.5m······Z e.g.) C73C 5m······Z e.g.) C73CZ 3m·····L C73CL None·····N C73CN

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.

Ev	Rail mounting	CDJ2QB16-60-A
LA.	Band mounting	CDJ2QB10-45-B

^{*} Solid state switches marked with" \bigcirc " are manufactured upon receipt of order.

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

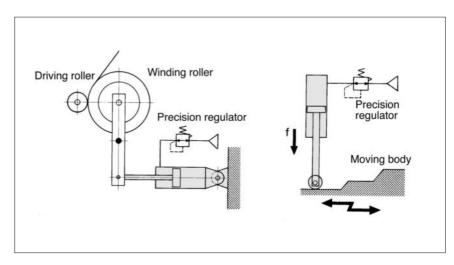


A Precautions

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

Application Example

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



Specifications

Decinications					
Action		Double acting/Single rod			
Fluid		Air			
Proof pressure		1.05MPa			
Max. operating pressure		0.7MPa			
Min. operating pressure		0.03MPa			
Ambient and fluid temperate	ure	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			
Allewahle kinetie enemy	ø10	0.035J			
Allowable kinetic energy	ø16	0.090J			

^{*} No freezing

Standard Stroke

Bore size	Standard stroke
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

CM2

C85

CG1

МВ

C95

CA1

CS1

Series CJ2Q

Mounting Accessories/Refer to p.1.3-12 for details.

	Mounting	Basic	Axial foot	Front flange	Double clevis*
<u> </u>	Mounting nut	•	•	•	_
Standard	Rod end nut	•	•	•	•
Sta	Clevis pin		_	_	•
	Single knuckle joint	•	•	•	•
Option	Double knuckle joint*	•	•	•	•
	T bracket	_	_	_	•

^{*} Double clevis or double knuckle joint are packaged with pins and rings.

Mounting Bracket Part No.

Mounting bracket	Bore size (mm)							
woulding bracket	10	16						
Foot	CJ-L010B	CJ-L016B						
Flange	CJ-F010B	CJ-F016B						
T bracket*	CJ-T010B	CJ-T016B						

^{*} T bracket is used with double clevis (D).

Auto Switch Mounting Bracket Part No. (Band mounting)

Bore size (mm)	Bracket part No.	Note
10	BJ2-010	Common use to all of D-C7,
16	BJ2-016	C8 and D-H7



Note) A set of stainless steel mounting screws "BBA4" is attached. (A switch mounting band is not attached. Please order the band separately.) "BBA4" screws are used for D-C7/C8/H7. "D-H7BAL" switch is set on the cylinder with the screws above when shipped.

Also, when a switch only is shipped, "BBA4" screws are attached.

Port Location on Head Cover

Either perpendicular to the cylinder axis or in-line with the cylinder axis is available for basic style.

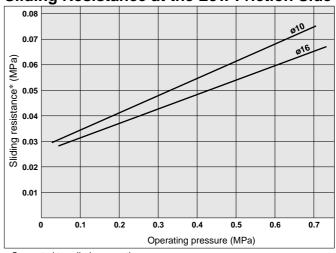




ine

Perpendicular

Sliding Resistance at the Low Friction Side



^{*} Converted to cylinder operating pressure.

Weight (g) Bore size (mm) 10 16 Basic weight* 24 55

Dasic	weignt		24	55
Addit	ional we	eight for each 15 of stroke	4	6.5
	Axial foot	8	20	
Moun bracket		Front flange	5	15
2.45101 11		Double clevis** (with pins)	4	10

^{*} This basic weight includes weights of mounting nut and rod end nut.

Calculation example) CJ2QL10-45

• Basic weight 24 (Ø10)

Additional weight ----- 4/15 stroke

Cylinder stroke ----- 45 stroke

• Mounting bracket weight ······· 8 (Axial foot) 24+4/15 X 45+8=44g

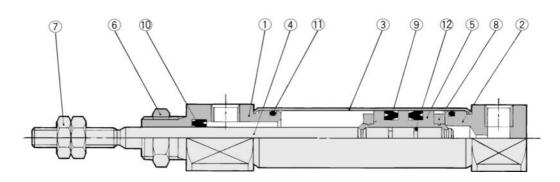
^{**} The mounting nut is not attached to the double clevis style, so the mounting nut weight is already reduced.

Low Friction Style: Double Acting Single Rod Series CJ2Q

Construction (The cylinder cannot be disassembled.)







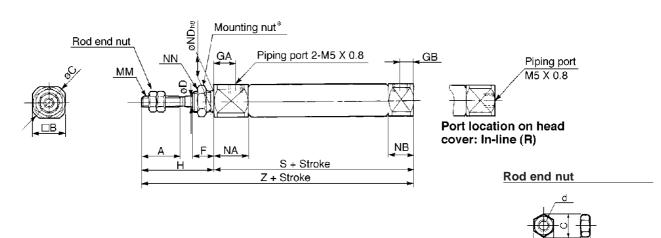
Component Parts

No.	Description	Material	Note		
1	Rod cover	Aluminum alloy	White anodized		
2	Head cover	Aluminum alloy	White anodized		
3	Cylinder tube	Stainless steel			
4	Piston rod	Stainless steel			
(5)	Piston	Brass			
6	Mounting nut	Brass	Nickel plated		

No.	Description	Material	Note
7	Rod end nut	Rolled steel	Nickel plated
8	Bumper	Urethane	
9	Piston seal	NBR	
10	Rod seal	NBR	
11)	Tube gasket	NBR	
12	Piston gasket	NBR	

Basic Style (B)

CJ2QB Bore size Stroke Port location on head cover



Material: Iron											
Part No.	Bore	В	С	d	Н						
NTJ-010A	10	7	8.1	M4 X 0.7	3.2						
NTJ-015A	16	8	9.2	M5 X 0.8	4						

* Refer to p 1.3-12 for details of the mounting nut

. Refer to p. 1.6 12 for detaile of the mounting flat.														(111111)	
Bore	Α	В	С	D	F	GA	GB	Н	MM	NA	NB	ND	NN	S	Z
10	15	12	14	4	8	8	5	28	M4 X 0.7	12.5	9.5	8_0.022	M8 X 1.0	46	74
16	15	18	20	5	8	8	5	28	M5 X 0.8	12.5	9.5	10 -0.022	M10 X 1.0	47	75

Refer to p.1.3-8 to 1.3-10 for dimensions of each mounting bracket.



JT2Q□10 SCJ210, #1 JT2Q□16 SCJ216, #1

SCJ210, #1, #3 SCJ216, #1, #3

Front flange SCJ210, #1, #9 SCJ216, #1, #9 Double cleivis SCJ210. #5 SCJ216, #5

CJ1

CJP

CJ₂

CM₂

C85

CG₁

MB

C95

CA1

CS₁