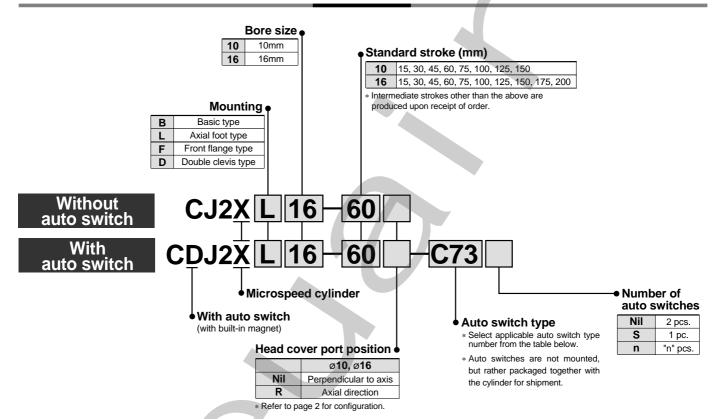
POWER ORDER ONLINE O AIRE **Microspeed Cylinder: Double Acting/Single Rod**

Series CJ2X ø10, ø16

Dimensions and auto switch details are equivalent to those of the standard double acting single rod cylinder.

How to Order



Auto switch specifications

				_	_		/																																
		light			Load vo	tage	Aut	to switch ty	/pe	Lead v	vire le	ngth	(m)*																										
Special function	entry	dicator	(output)		DC	AC	Band			0.5	3				icable ad																								
		Ĕ	2 wire				mounting	Perpendicular	In-line	(1311)	(Ľ)	(2)	(14)																										
			(NPN)	Ζ	5V	—	C76	—	A76H	•	•	—	—	IC circuit																									
Reed switch	Grommet	Yes		—		200V	—	A72	A72H	•	•	—	—																										
	-				12V	100V	C73	A73	A73H	•	•	•	—																										
		No		5V, 12V	100V or less	C80	A80	A80H	•	٠	—	—	IC circuit	Relay																									
	0	Yes	2-wire	24V	12V	—	C73C	A73C		•	•	٠	•	—	PLC																								
	Connector	No	-	Ę	5V, 12V	24V or less	C80C	A80C		•	٠	٠	٠	IC circuit																									
Diagnostic indication (2-color display)	Grommet	Yes						es			—	—	A79W	—	•	•	—	-	—																				
		tor 3-wire (PN 2-wire 3-wire (NF 3-wire (PN	3-wire (NPN	3-wire (NPN)		5V, 12V		H7A1	F7NV	F79	•	٠	0	—	IC circuit																								
	Grommet		3-wire (PNP)		50, 120		H7A2	F7PV	F7P	•	•	0	—	io onoun																									
				r 3-w 3-w	r																						Quuine		121/		H7B	F7BV	J79	•	٠	0	—		
	Connector												∠-wire		12.0		H7C	J79C	—	•	•	•	•	—															
					3-wire (NPN)		5\/ 12\/		H7NW	F7NWV	F79W	•	•	0	—	IC airea it																							
Diagnostic					3-wire (PNP)	2411	50, 120		H7PW	—	F7PW	•	•	0	—		Relay																						
(2-color display)	Grommet	103	2-wire	24 V	12V		H7BW	F7BWV	J79W	•	•	0	-	—	PLC																								
With timer			3-wire (NPN)					—	F7NT	—	•	0	—																										
Diagnostic output (2-color display)				viro	5V, 12\	5V, 12V		H7NF	—	F79F	•	•	0	—	IC circuit																								
Latch type with diagnostic output (2-color display)					—		H7LF	_	F7LF	•	•	0	_																										
d wire length sy	mbols:	0.5	m Nil (Exar	nple) C	73C	5m	Z (Ex	ample)	C73C	z																												
3m L					C	73CL	None .	N		C73C	N																												
	Diagnostic indication (2-color display) Diagnostic indication (2-color display) With timer Diagnostic output (2-color display) Latch type with diagnostic output (2-color display)	Connector Diagnostic indication (2-color display) Util timer Diagnostic cutput (2-color display) Grommet Util timer Diagnostic cutput (2-color display) dwire length symbols:	Special function entry ge Grommet Yes Connector (2-color display) Diagnostic indication (2-color display) With timer Diagnostic output (2-color display) With timer Diagnostic output (2-color display) Grommet diagnostic output (2-color display) d wire length symbols: 0.55	Diagnostic indication (2-color display) Grommet Yes 3-wire (NPN) Diagnostic indication (2-color display) Grommet Yes 2-wire Diagnostic indication (2-color display) Grommet Yes 3-wire (NPN) Diagnostic indication (2-color display) Grommet 2-wire 3-wire (NPN) Diagnostic indication (2-color display) Grommet 2-wire 3-wire (NPN) Utith timer Diagnostic cutput (2-color display) Grommet 4-wire (NPN) 4-wire (NPN) d wire length symbols: 0.5m Nil (0.5m Nil (No 3-wire (NPN)	Grommet Yes 3-wire (NPN) 5V Grommet Yes - - No 2-wire 24V 12V Diagnostic indication (2-color display) Grommet Yes - - Grommet Yes 2-wire 24V 5V, 12V Diagnostic indication (2-color display) Grommet 3-wire (NPN) 5V, 12V Diagnostic indication (2-color display) Grommet 2-wire 2-wire 12V Util timer - - - - 12V Util timer - - - - - Util timer - - - - - Util timer - - - - - - Util timer - - - - - - - Util timer - - - - - - - Util timer - - - - - -	Biagnostic indication (2-color display) Grommet Yes 3-wire (NPN) 5-V Diagnostic indication (2-color display) Grommet Wes 2-wire 24V 12V 100V Diagnostic indication (2-color display) Grommet Grommet 3-wire (NPN) 3-wire (NPN) 5V, 12V 12V Diagnostic indication (2-color display) Grommet Yes 2-wire 5V, 12V 24V 5V, 12V 24V -	Grommet Yes 3-wire (NPN) 5V C76 Grommet Yes - 200V - No 2-wire 24V 12V 100V C73 5V, 12V 100V C73 5V, 12V 100V C73 Diagnostic indication (2-color display) Grommet Yes 24V 12V - C73C Diagnostic indication (2-color display) Grommet Yes 24V 12V - C73C Diagnostic indication (2-color display) Grommet 3-wire (NPN) 5V, 12V 47A1 H7A2 Diagnostic indication (2-color display) Grommet 3-wire (NPN) 24V 5V, 12V H7B Diagnostic indication (2-color display) Grommet 3-wire (NPN) 24V 5V, 12V H7BW Utilt timer Grommet 3-wire (NPN) 2-wire 12V H7BW H7DW Latch type with disgnostic output (2-color display) Grommet S-wire (NPN) 5V, 12V H7BW H7NF Latch type with disgnostic output (2-color displ	Grommet Yes 5v C76 — Grommet Yes - 200V - A72 No 2-wire - 200V - A72 Diagnostic indication (2-color display) Grommet Yes - 200V - A72 Diagnostic indication (2-color display) Grommet Yes 2-wire 24V 12V 100V C73 A73 Diagnostic indication (2-color display) Grommet Yes 2-wire 24V 5V, 12V 24V or less C80C A80C Diagnostic indication (2-color display) Grommet 3-wire (NPN) 5V, 12V 24V H7A1 F7NV Diagnostic indication (2-color display) Grommet 2-wire 24V 5V, 12V H7A2 F7PV Diagnostic indication (2-color display) Grommet 2-wire 5V, 12V - H7RW F7BWV Latch type with diagnostic output (2-color display) 3-wire (NPN) 5V, 12V - H7BW F7BWV Latch type with digenostic outp	Grommet Yes 3-wire (NPN) 5V C76 A76H Grommet Yes - 200V - A72L A72H No 2-wire 2-wire 12V 100V C73 A73 A73H Diagnostic indication (2-color display) Grommet Yes 2-wire 24V 12V 100V C73 A73 A73H Diagnostic indication (2-color display) Grommet Yes - - C73C A73C - Diagnostic indication (2-color display) Grommet Yes 3-wire (NPN) 5V, 12V 24V F7PV F7P9 12V - - - A79W - <t< td=""><td>Special function Electrical entry Wiring (output) Wiring (output) D AC Band mounting Perpendicular Railmounting (Neithing) 0.5 Grommet Yes - 5V - C76 - A72H • No - - 200V - A72 A72H • Diagnostic indication (2-color display) Grommet Yes - - 200V - A73 A73H • Diagnostic indication (2-color display) Grommet Yes -<td>Special function Electrical entry Bard (number) Rail mounting (Nil) 0.5 3 Constant Yes 3-wire (NPN) - 5V. - C76 - A76H • • No - - 200V - A72 A72H • • No - - 200V - A73 A73H • • Diagnostic indication (2-color display) Grommet Yes - - Conector 5V, 12V 100V C73 A73 A73H •</td></td></t<> <td>Special function Electrical of entry Special function Electrical of entry Special function Rail mounting mounting Rail mounting (Nil) 0.5 3 5 AC Band mounting Rail mounting 0.5 3 5 Grommet Yes 3-wire (NPN) - 5V - C76 - A76H • - No - - 200V - A72 A72H • - Diagnostic indication (2-color display) Grommet Yes - 2-wire 5V, 12V 100V C73 A73 A73H • • - Diagnostic indication (2-color display) Grommet 3-wire (NPN) 5V, 12V 24V 12V - C73C A73C - •</td> <td>Grommet Yes 3-wire (NPN) 5V - C76 A76H • - - Grommet Yes - 200V - A72 A72H • -</td> <td>Special function Electrical entry Wiring (output) Wiring (output) Wiring (output) AC Band mounting perpendicular in-line Rall mounting (Nil) 0.5 3 None (L) Appl (L) Grommet Yes </td>	Special function Electrical entry Wiring (output) Wiring (output) D AC Band mounting Perpendicular Railmounting (Neithing) 0.5 Grommet Yes - 5V - C76 - A72H • No - - 200V - A72 A72H • Diagnostic indication (2-color display) Grommet Yes - - 200V - A73 A73H • Diagnostic indication (2-color display) Grommet Yes - <td>Special function Electrical entry Bard (number) Rail mounting (Nil) 0.5 3 Constant Yes 3-wire (NPN) - 5V. - C76 - A76H • • No - - 200V - A72 A72H • • No - - 200V - A73 A73H • • Diagnostic indication (2-color display) Grommet Yes - - Conector 5V, 12V 100V C73 A73 A73H •</td>	Special function Electrical entry Bard (number) Rail mounting (Nil) 0.5 3 Constant Yes 3-wire (NPN) - 5V. - C76 - A76H • • No - - 200V - A72 A72H • • No - - 200V - A73 A73H • • Diagnostic indication (2-color display) Grommet Yes - - Conector 5V, 12V 100V C73 A73 A73H •	Special function Electrical of entry Special function Electrical of entry Special function Rail mounting mounting Rail mounting (Nil) 0.5 3 5 AC Band mounting Rail mounting 0.5 3 5 Grommet Yes 3-wire (NPN) - 5V - C76 - A76H • - No - - 200V - A72 A72H • - Diagnostic indication (2-color display) Grommet Yes - 2-wire 5V, 12V 100V C73 A73 A73H • • - Diagnostic indication (2-color display) Grommet 3-wire (NPN) 5V, 12V 24V 12V - C73C A73C - •	Grommet Yes 3-wire (NPN) 5V - C76 A76H • - - Grommet Yes - 200V - A72 A72H • -	Special function Electrical entry Wiring (output) Wiring (output) Wiring (output) AC Band mounting perpendicular in-line Rall mounting (Nil) 0.5 3 None (L) Appl (L) Grommet Yes																								

Part nos. for cylinders with built-in magnet

Indicate -A (rail mounting type) or -B (band mounting type) at the end of the ordering number for the cylinder with auto switch.

Example	Rail mounting type	CDJ2XB10-45-A
Example	Band mounting type	CDJ2XB16-60-B

* Solid state auto switches marked "O" are produced upon receipt of order.





Microspeed Cylinder Double Acting/Single Rod



Specifications

	-	-	
	6) I		
1.00	-		

JIS symbol

Double acting/Single rod



Specific Product Precautions
Be sure to read before handling. Refer to pages 15 through 24 for safety instructions and precautions.
Mounting

1. When mounting a cylinder, secure the rod cover by applying an appropriate tightening torque to the mounting nut, or by applying the appropriate tightening torque to the rod cover itself.

Anchoring the head cover or tightening the head cover itself may cause the cover to rotate and slippage to occur.

2. The correct tightening torque for the mounting threads must be within the range shown in the table below. Apply Loctite® (No. 242, Blue) to the mounting threads.

Bore size (mm)	Proper tightening torques for mounting thread (N·m) (tightening torque for mounting nut)
10	3.0 to 3.2
16	5.4 to 5.9

- 3. Use appropriate pliers (C-type snap ring mounting tool) for mounting and removal of the knuckle pin and clevis pin snap rings. Especially with ø10, use ultra thin pliers.
- 4. For rail mounting type auto switches, do not remove the rails that are mounted. Since the mounting screw penetrates into the cylinder, the removal of the rails will cause air leakage.

Operation

∆Warning

1. The speed may not be controllable during low speed operation with the meter-out controller.

Caution

1. For Series CJ2X, up to 0.1N /min (ANR) of internal leakage is anticipated due to cylinder structure.

Action	Double acting/Single rod			
Fluid	Air			
Proof pressure	1.05MPa			
Maximum operating pressure	0.7MPa			
Minimum operating pressure	0.06MPa			
Ambient and fluid temperature	Without auto switch: -10° to $70^{\circ}C$ (with no freezing) With auto switch: -10° to $60^{\circ}C$			
Cushion	Rubber bumper (standard)			
Lubrication	Non-lube			
	INDIFICUDE			
Thread tolerance	JIS class 2			
Thread tolerance Stroke length tolerance				
	JIS class 2 +1.0			
Stroke length tolerance Piston speed	JIS class 2 +1.0 0			
Stroke length tolerance Piston speed	JIS class 2 +1.0 0 1 to 300mm/s			

Standard Strokes

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

Mounting and Accessories

	Mounting	Basic type	Axial foot type	Front flange type	Double * clevis type
ard	Mounting nut	•	•	•	—
Rod end nut		•	•	•	•
Sta	Clevis pin	—		_	•
-	Single knuckle joint	•	•	•	•
Option	Double knuckle joint *	•	٠	•	•
0	T-bracket				●

* For double clevis and double knuckle joint types, pins and snap rings are packed together.

Port Position for Head Cover

For the standard type, the following two port positions for head cover are available: perpendicular to axis and axial direction.



Mounting Bracket Part Nos.

Perpendicular to axis

Auto Switch Mounting Bracket Part Nos. (Band Mounting Type)

BJ2-016

16

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

Auto switch mounting Bore size Note (mm) bracket part no Common for models 10 BJ2-010



D-C7, D-C8, and D-H7