

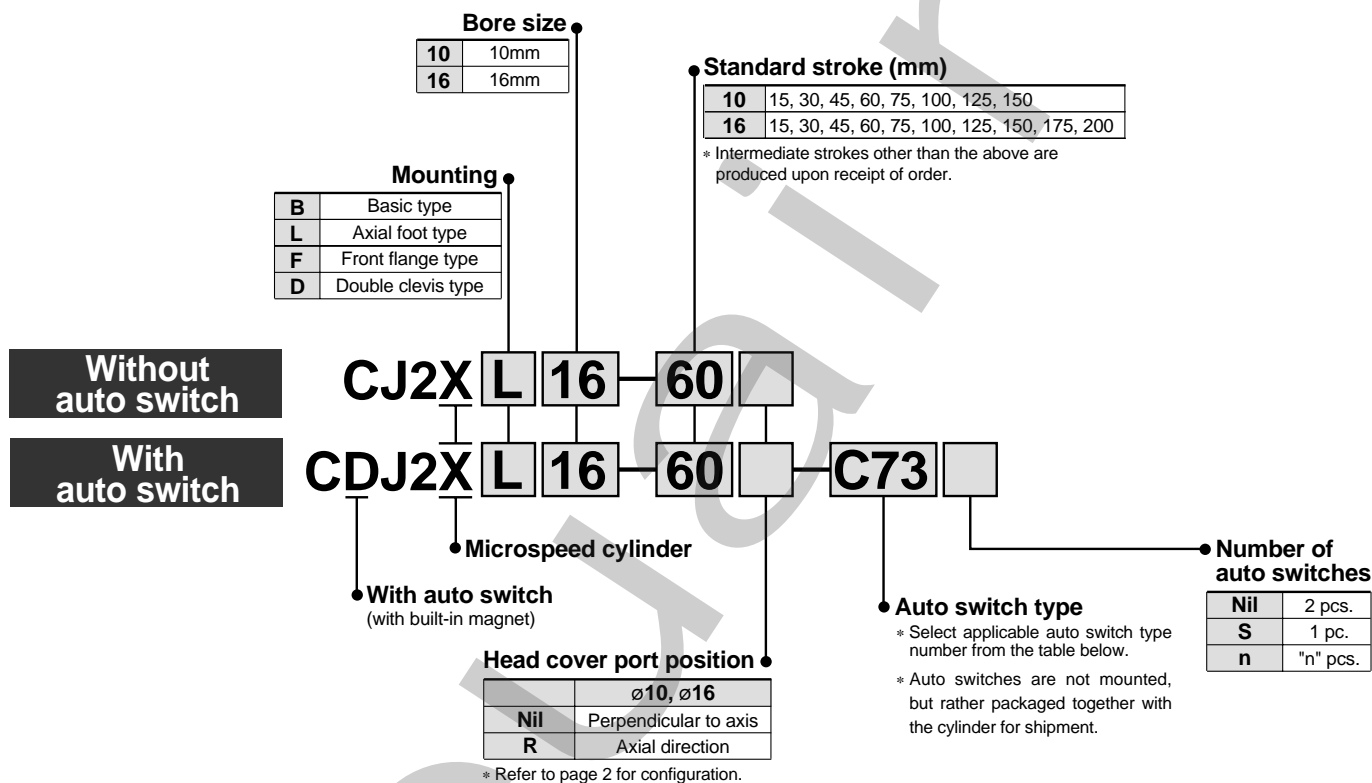
Microspeed Cylinder: Double Acting/Single Rod

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

Type	Special function	Electrical entry	Indicator/light	Wiring (output)	Load voltage		Auto switch type		Lead wire length (m)*				Applicable load										
					DC	AC	Band mounting	Rail mounting	0.5 (Nil)	3 (L)	5 (Z)	None (N)											
Reed switch	—	Grommet	Yes	3-wire (NPN)	—	5V	—	C76	—	A76H	●	●	—	—	IC circuit								
											—	—	—	—		—	—	Relay PLC					
				2-wire	24V	12V	100V	—	200V	—	C73	A73	A73H	●	●	—	—						
														5V, 12V	100V or less	C80	A80	A80H	●	●	—	—	IC circuit
				Connector	No	12V	—	—	—	—	C73C	A73C	—	—	●	●	●	●	—				
															5V, 12V	24V or less	C80C	A80C	—	●	●	●	●
Diagnostic indication (2-color display)	—	Grommet	Yes	—	—	—	—	A79W	—	—	●	●	—	—	—								
Solid state switch	—	Grommet	No	3-wire (NPN)	5V, 12V	—	—	H7A1	F7NV	F79	●	●	○	—	IC circuit								
				3-wire (PNP)							●	●	○	—									
				2-wire							12V	—	—	—		—	H7B	F7BV	J79	●	●	○	—
																				H7C	J79C	—	●
		Connector	Yes	3-wire (NPN)	24V	5V, 12V	—	—	H7NW	F7NWV	F79W	●	●	○	—	IC circuit							
												3-wire (PNP)	H7PW	—	F7PW		●	●	○	—			
		Grommet	No	2-wire	12V	—	—	—	H7BW	F7BWV	J79W	●	●	○	—	—							
												—	—	F7NT	—		●	○	—	IC circuit			
		Diagnostic indication (2-color display)	—	Grommet	Yes	3-wire (NPN)	5V, 12V	—	—	H7NF	—	F79F	●	●	○	—	—						
		With timer	—										—	—	—	—		—	—	—	—	—	—
Diagnostic output (2-color display)	—	Grommet	No	4-wire (NPN)	—	—	—	H7LF	—	F7LF	●	●	○	—	—								
Latch type with diagnostic output (2-color display)	—										—	—	—	—		—	—	—	—	—	—	—	

* Lead wire length symbols: 0.5m..... Nil (Example) C73C 5m Z (Example) C73CZ
3m L C73CL None N C73CN

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

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.

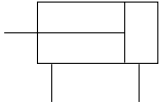
Example	Rail mounting type	CDJ2XB10-45-A
	Band mounting type	CDJ2XB16-60-B

Specifications



JIS symbol

Double acting/Single rod



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°C (with no freezing) With auto switch: -10° to 60°C	
Cushion	Rubber bumper (standard)	
Lubrication	Non-lube	
Thread tolerance	JIS class 2	
Stroke length tolerance	+1.0 0	
Piston speed	1 to 300mm/s	
Allowable kinetic energy	ø10	0.035J
	ø16	0.090J

! Specific Product Precautions

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

Mounting

! Caution

- 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.
- 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

- 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.
- 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

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

! Caution

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

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
Standard	Mounting nut	●	●	●	—
	Rod end nut	●	●	●	●
	Clevis pin	—	—	—	●
Option	Single knuckle joint	●	●	●	●
	Double knuckle joint *	●	●	●	●
	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.

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

* T-bracket is applicable to double clevis type (D).

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

Bore size (mm)	Auto switch mounting bracket part no.	Note
10	BJ2-010	Common for models D-C7, D-C8, and D-H7
16	BJ2-016	