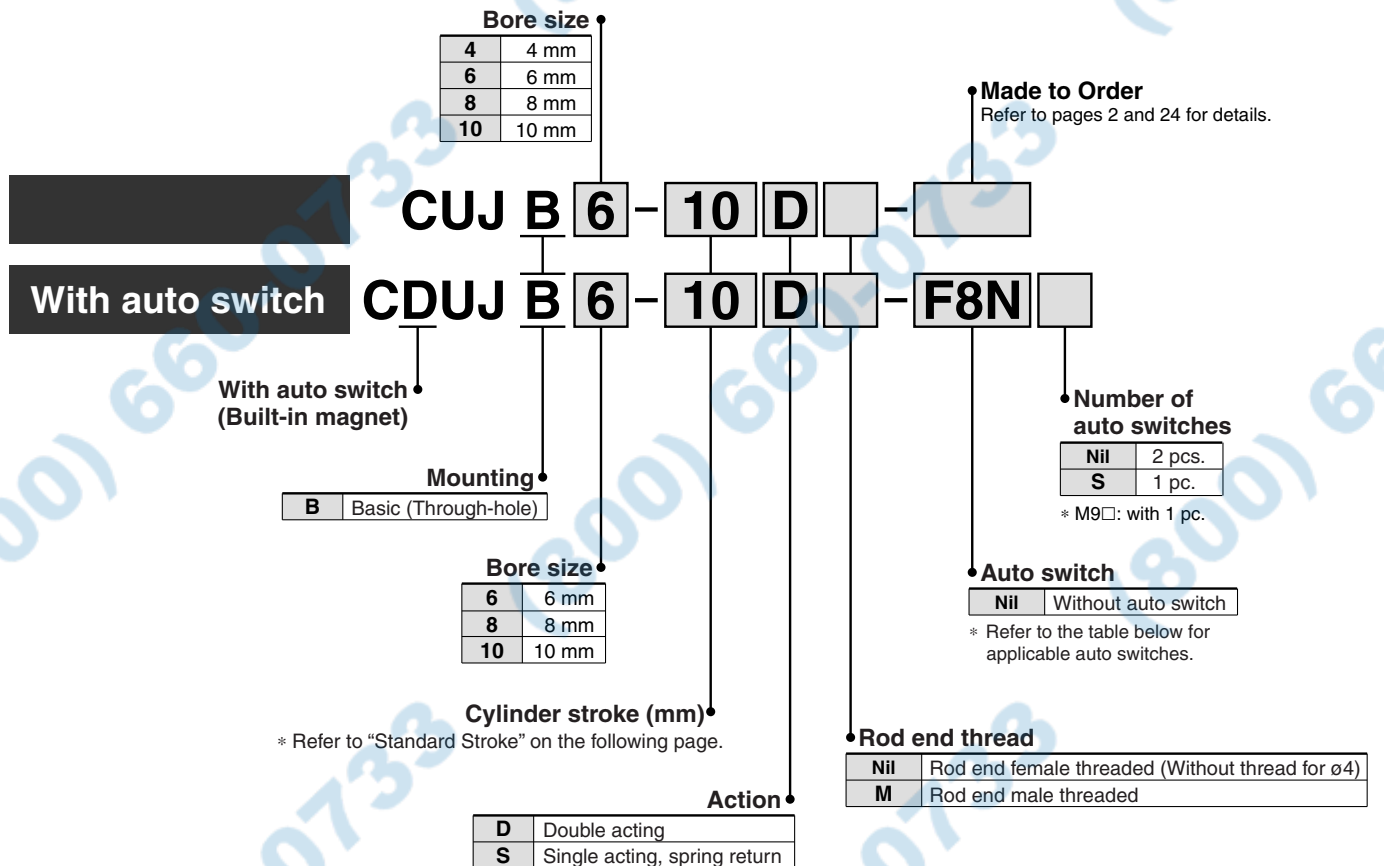


Mini Free Mount Cylinder

Series CUJ

ø4, ø6, ø8, ø10

How to Order



Built-in Magnet Cylinder Model

In the case of built-in magnet without auto switch, the symbol for auto switch is "Nil".
(Example) CDUJB8-15DM

Applicable Auto Switches

Refer to pages 21 through to 23 for additional information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m) *				Pre-wired connector	Applicable load			
					DC	AC	Electrical entry		0.5 (Nil)	1 (M)	3 (L)	5 (Z)					
							Perpendicular	In-line									
Solid state switch	—	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	—	M9N	●	—	●	○	○	IC circuit	Relay, PLC		
								F8N	—	—	●	○	○				
				3-wire (PNP)	M9P		●	—	●	○	○						
					F8P		—	—	●	○	○						
	2-wire			12 V	M9B		●	—	●	○	○						
				F8B	—		—	●	○	○							
	Diagnostic indication (2-color indication)			3-wire (NPN)	5 V, 12 V		—	M9NW	●	—	●	○	○	○		○	IC circuit
				3-wire (PNP)	12 V		—	M9PW	●	—	●	○	○	○		○	
2-wire		12 V	—	M9BW	●	—	●	○	○	○	○	—					
		12 V	—	—	—	—	—	—	—	—	—	—					

* Lead wire length symbols: 0.5 m Nil (Example) M9NW
 1 m M (Example) M9NWM
 3 m L (Example) M9NWL
 5 m Z (Example) M9NWZ

* Auto switches marked with "○" are produced upon receipt of order.

Note 1) For 2-color indication type, use caution on hysteresis. Refer to page 19, "Auto Switch Hysteresis" prior to use.

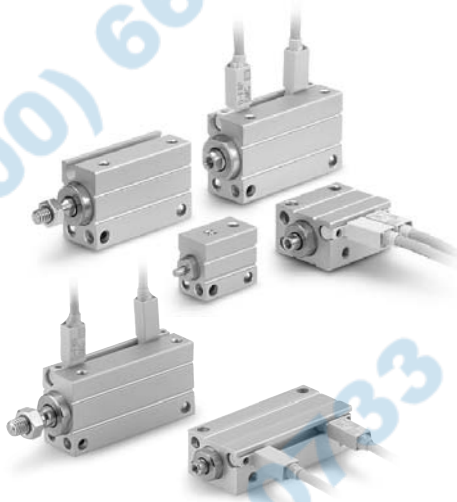
Note 2) Refer to pages 21 through to 23 for detailed auto switch specifications.

* Refer to "Best Pneumatics" catalog for further information on auto switches with pre-wired connector.

* Auto switches are included, (but not assembled).

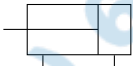
Specifications

Bore size (mm)		4	6	8	10
Action	Double acting; Single acting, spring return				
Fluid	Air				
Proof pressure	1.05 MPa				
Minimum operating pressure	Double acting	0.15 MPa			0.1 MPa
	Single acting, spring return	0.35 MPa	0.3 MPa	0.2 MPa	
Maximum operating pressure	0.7 MPa				
Ambient and fluid temperature	Without auto switch: -10 to 70°C (No freezing) With auto switch: -10 to 60°C (No freezing)				
Cushion	None				
Lubrication	Non-lube				
Piston speed	50 to 500 mm/s				
Stroke length tolerance	$\begin{matrix} +0.5 \\ 0 \end{matrix}$				
Mounting	Through-hole				



JIS Symbol

Double acting, single rod



Single acting, spring return



Theoretical Output: Double Acting

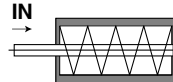


Unit: N

Bore size (mm)	Rod size (mm)	Operating direction	Piston area (mm ²)	Operating pressure (MPa)		
				0.3	0.5	0.7
4	2	OUT	12.6	3.76	6.28	8.79
		IN	9.4	2.82	4.71	6.59
6	4	OUT	28.3	8.48	14.13	19.79
		IN	15.7	4.71	7.85	10.99
8	5	OUT	50.3	15.07	25.13	35.18
		IN	30.6	9.18	15.31	21.44
10	6	OUT	78.5	23.56	39.26	54.97
		IN	50.3	15.07	25.13	35.18

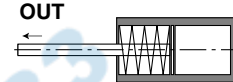
Spring Reaction Force: Single Acting, Spring Return

Spring in pre-loaded condition



When the spring is set in the cylinder.

Spring in loaded condition



When the spring is contracted by applying air.

Unit: N

Standard Stroke

Action	Bore size (mm)	Standard stroke (mm)
Double acting	4	4, 6, 8, 10, 15, 20
	6	4, 6, 8, 10, 15, 20
	8, 10	25, 30
Single acting, spring return	4	4, 6
	6	4, 6, 8
	8, 10	4, 6, 8, 10

Bore size (mm)	Spring condition	Stroke (mm)			
		4	6	8	10
4	Pre-loaded	1.70	1.27	—	—
	Loaded	2.55	2.55	—	—
6	Pre-loaded	2.45	2.01	1.57	—
	Loaded	3.33	3.33	3.33	—
8	Pre-loaded	4.67	3.76	2.86	1.96
	Loaded	6.47	6.47	6.47	6.47
10	Pre-loaded	5.04	4.18	3.31	2.45
	Loaded	6.77	6.77	6.77	6.77



Made to Order
(Refer to page 24 for details.)

Symbol	Contents
-XB6	Heat resistant cylinder (-10 to 150°C)

Note) Except models with auto switch and single-acting, spring return type
Except bore size 4

Mass: Double Acting

Unit: g

Bore size (mm)	Standard stroke (mm)								Additional mass	
	4	6	8	10	15	20	25	30	Built-in magnet	Rod end male threaded
CUJB4	7.2	7.9	8.6	9.3	11.1	12.8	—	—	—	0.4
CUJB6	12.4	13.6	14.8	16.0	18.9	21.8	24.7	27.6	2.7	0.8
CUJB8	15.6	17.0	18.4	19.7	23.0	26.4	29.9	33.4	3.0	1.5
CUJB10	17.9	19.4	20.8	22.3	25.9	29.5	33.1	36.7	3.2	2.6

Mass: Single Acting, Spring Return

Unit: g

Bore size (mm)	Standard stroke (mm)				Additional mass	
	4	6	8	10	Built-in magnet	Rod end male threaded
CUJB4	7.2	7.9	—	—	—	0.4
CUJB6	12.8	14.0	15.2	—	2.4	0.8
CUJB8	15.8	17.2	18.6	19.9	2.5	1.5
CUJB10	17.9	19.4	20.8	22.3	2.4	2.6