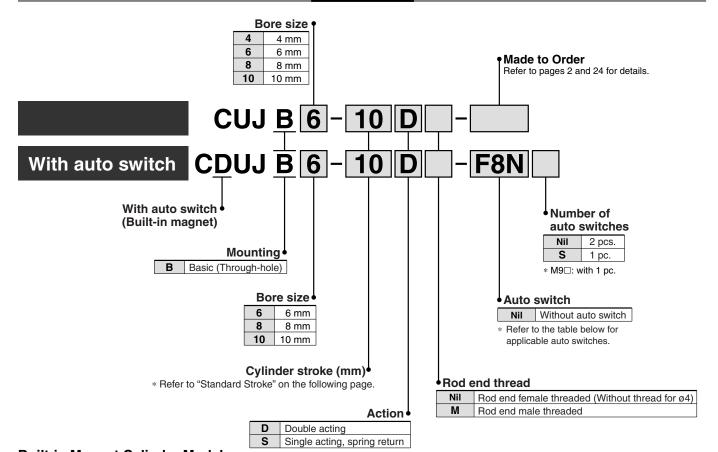
Mini Free Mount Cylinder Series CUJ ø4, ø6, ø8, ø10

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.

_																								
			tois 1	Electrical entry			tor '	VA/Series es	ı	Load volta	age	Auto swite	ch model	Lead wire	leng	th (r	n) *	D						
Туре	Type	Special function	utry ibi			rical g	Wiring (Output)		DC	AC	Electrical entry		0.5	1	3	5	Pre-wired connector	Appli	cable load					
					[필드]	(Output)		DC	AC	Perpendicular	In-line	(Nil) (M)		(L)	(Z)	CONTINUENT								
Solid state switch		_				Oina (NIDNI)				_	M9N	•	_	•	0	0								
	Ë							3-wire (NPN)		5 V,		F8N	_	•	_	•	0	0	IC					
	¥			Voc							3-wire (PNP)		12 V		_	M9P	•	_	•	0	0	circuit		
					3-WILE (FINE)	'			F8P	_	•	_	•	0	0	Dolo	Delay							
	ate				2-wire 2	24 V	24 V	_	_	M9B	•	_	•	0	0		Relay, PLC							
				∠-wire		∠-wire	∠-wire		12 V		F8B	_	•	_	•	0	0] -	PLC					
	흦	Diagnostic										3-wire (NPN)		5 V.	5 V,	_	M9NW	•		•	0	0	IC	
	ŭ	indication		ndication 3-wire (PNP)		12 V		_	M9PW	•		•	0	0	circuit									
		(2-color indication)			2-wire		12 V		_	M9BW	•		•	0	0	_								

(Example) M9NW

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

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



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

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

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

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

JIS Symbol Double acting, single rod



Single acting, spring return



Standard Stroke

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



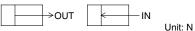
Symbol	Contents
-XB6	Heat resistant cylinder (-10 to 150°C)

Note) Except models with auto switch and singleacting, spring return type Except bore size 4

Specifications

_			_				
Bore s	ize (mm)	4	6	8	10		
Action		Double acting; Single acting, spring return					
Fluid			Α	ir			
Proof pressure		1.05	MPa				
Minimum operating	Double acting		0.15	MPa	0.1 MPa		
pressure	Single acting, spring return	0.35 MPa	0.31	MPa	0.2 MPa		
Maximum operating	g 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 toler	+0.5 0						
Mounting		Through-hole					

Theoretical Output: Double Acting



Bore size Rod size		Operating	Piston area	Operating pressure (MPa)			
(mm)	(mm)	direction (mm ²)		0.3	0.5	0.7	
4	2	OUT	12.6	3.76	6.28	8.79	
4		IN	9.4	2.82	4.71	6.59	
6	4	OUT	28.3	8.48	14.13	19.79	
0		IN	15.7	4.71	7.85	10.99	
	8 5	OUT	50.3	15.07	25.13	35.18	
8		IN	30.6	9.18	15.31	21.44	
10	6	OUT	78.5	23.56	39.26	54.97	
10	0	IN	50.3	15.07	25.13	35.18	

Spring Reaction Force: Single Acting, Spring Return

Spring in pre-loaded condition

Spring in loaded condition OUT

When the spring is set in the cylinder.

When the spring is contracted by applying air. Unit: N

Bore	size	Spring	Stroke (mm)						
(m	ım)	condition	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			
4	10	Pre-loaded	5.04	4.18	3.31	2.45			
	U	Loaded	6.77	6.77	6.77	6.77			

Mass: Double Acting

Unit: g Additional mass Bore size Standard stroke (mm) (mm) 10 15 Built-in magnet Rod end male threaded CUJB4 7.9 8.6 9.3 11.1 12.8 0.4 CUJB6 13.6 14.8 16.0 18.9 21.8 24.7 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 20.8 22.3 25.9 29.5 33.1

Mass: Single Acting, Spring Return

Unit: g

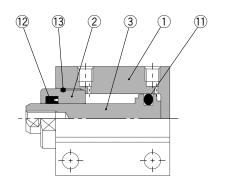
Sint 9						
Bore size		Standard s	troke (mm)		Additio	nal mass
(mm)	4	6	8	10	Built-in magnet	Rod end male threaded
CUJB4	7.2	7.9	_	_	_	0.4
CUJB6	12.8	14.0	15.2	_	2.4	0.8
CUJB8	15.8	17.2	18.6	19.9	2.5	1.5
CUJB10	17.9	19.4	20.8	22.3	2.4	2.6

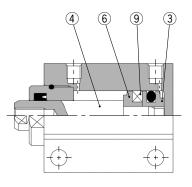


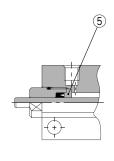
Series CUJ

Construction

Double Acting





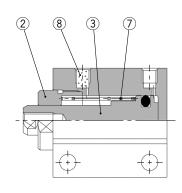


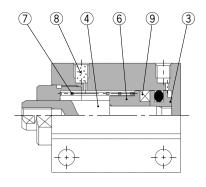
Without magnet

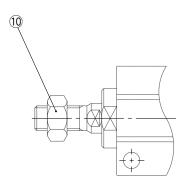
Built-in magnet

ø4

Single Acting, Spring Return







Without magnet

Built-in magnet

Rod end male threaded

Component Parts

No.	Description		Material	Note
NO.			ivialerial	Note
1_	Cylinde	r tube	Aluminum alloy	Hard anodized
2	Rod co	ver	Copper alloy	Electroless nickel plated
3	Dieten	Without switch	Stainless steel	
3	Piston	With switch	Aluminum alloy	Chromated
4	Piston	rod	Stainless steel	
5	Seal ret	tainer	Aluminum alloy	Chromated (CUJB4 only)
6	Magnet	retainer	Aluminum alloy	Chromated
7	Return	spring	Piano wire	
8	Bronze	element	Sintered metallic BC	
9	Magnet		_	
10	Rod en	d nut	Iron	Nickel plated
11	Piston	seal	NBR	
12	Rod sea	al	NBR	
13	Tube ga	asket	NBR	

Replacement Parts: Seal Kit Double Acting

Bore size (mm)	Kit no.	Contents
4	CUJB4-PS	
6	CUJB6-PS	Set of ①, ②, ③ and grease pack.
8	CUJB8-PS	Set of (i), (2), (i) and grease pack.
10	CUJB10-PS	

^{*} Seal kit ① to ③ comes as a set. Use the kit number for each bore size.

Single Acting, Spring Return

	<u> </u>	
Bore size (mm)	Kit no.	Contents
4	CUJB4-S-PS	
6	CUJB6-S-PS	Cat of (1) and grasse mask
8	CUJB8-S-PS	Set of ① and grease pack.
10	CUJB10-S-PS	

 $[\]ast$ Use the following part number for ordering a grease pack only. Grease part no.: GR-L-005 (5 g)