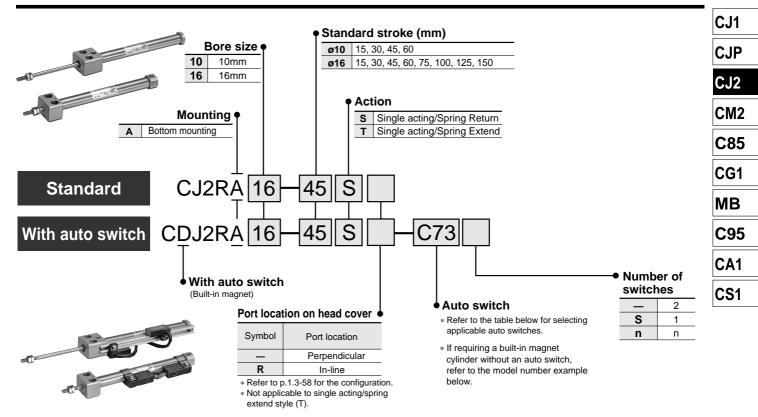
Direct Mount: Single Acting Spring Return/Extend Series CJ2R

How to Order



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

ø10, ø16

		Electrical	o	o		Load voltage		Auto	Auto switch model		Lead wire [*] (m)			ר)	A 12 1.1					
Style	Special function		ndicator	Wiring (Output)	DC	AC Band		R	ail	0.5	3		None		icable ad					
		entry	Ĕ	(oupui)		50	AC	Dana	Perp.	In-line	(—)	(L)	(Z)	(N)						
				3 wire (NPN)	—	5V		C76	—	A76H	•	•	-	_	IC	—				
Reed switch		Grommet	Yes		—	—	200V	—	A72	A72H	•	•	—	—						
Ň						12V	100V	C73	A73	A73H	•			—						
ğ			No	2 wire		5V, 12V	≤100V	C80	A80	A80H	•		-	—	IC	Relay				
Re		Connector	Yes	Zwire	24V	12V	—	C73C	A73C		•	\bullet	•	ullet		PLC				
		Connector	No			5V, 12V	≤24V	C80C	A80C		•			\bullet	IC	7				
	Diagnostic indication (2 color)	Grommet	Yes			—		—	A79W		•		-	—	—					
		Grommet		3 wire (NPN)		5V, 12V	12V —	H7A1	F7NV	F79	•	\bullet	0	—	– IC					
			t :	3 wire (PNP)				H7A2	F7PV	F7P	•		0	—						
ء				2 wire)	12V		H7B	F7BV	J79	•		0	—						
switch		Connector		2 1010				H7C	J79C		•			ullet						
SV		n Yes		3 wire (NPN)		5V, 12V		H7NW	F7NWV	F79W	•		0	—	IC					
ate	Diagnostic indication (2 color)		3 wire (PNP)	(PNP) 24V			H7PW	—	F7PW	•		0	—	1/616	Relay PLC					
lst	(2 00101)		lies		240			H7BW	H7BWV	J79W	•		0	—						
Solid state	Water resistant (2 color)	Grommet		2 wire	2 wire		12V	12V	12V	12V	—	H7BA	_	F7BA	—	•	0	-		
	With timer	1		3 wire (NPN)				—	—	F7NT	—	•	0	—	IC	1				
	With diagnostic output (2 color)]		4 wire	4 wire	5V, 12V		H7NF	—	F79F	٠	•	0	—	IC.					
	Latch with diagnostic output (2 color)			(NPN)		—		H7LF	_	F7LF	•	•	0	-	_					
* Lea	* Lead wire length 0.5m e.g.) C73C 5mZ e.g.) C73CZ																			

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	CDJ2RA16-60S-A		
LX.	Band mounting	CDJ2RA10-45S-B		

 \ast Solid state switches marked with" \bigcirc " are manufactured upon receipt of order.

3m-----L

Series CJ2R

Square rod cover makes direct contact mounting possible.



Specifications

opeenieutiene					
Action		Single acting/Spring return	Single acting/Spring extend		
Fluid		Air			
Proof pressure		1.05	MPa		
Max. operating pressure		0.71	ИРа		
Min. operating pressure		0.15	MPa		
Ambient and fluid temperate	ture	Without auto switch: -10°C to 70°C	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		Bottom mounting			
Piston speed		50 to 750mm/s			
	ø10	0.035J			
Allowable kinetic energy	ø16	0.0	90J		

* No freezing

Standard Stroke

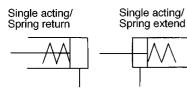
Otaniaula	
Bore size	Standard stroke
10	15, 30, 45, 60
16	15, 30, 45, 60, 75, 100, 125, 150

(mm)

Minimum Stokes for Auto Switch Mounting

•Refer to p.1.3-57.

JIS symbol



A Precautions

Refer to p.1.3-21 before

Accessory/Refer to p.1.3-12 for details.

Standard	Rod end nut
Option	Single knuckle joint, Double knuckle joint *

* Double knuckle joint is packaged with pins and rings.

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.

Spring Force

Spring Force (N)						
Bore size (mm)	Retracted side	Extended side				
10	6.86	3.53				
16	14.2	6.86				

L

handling.

Weight

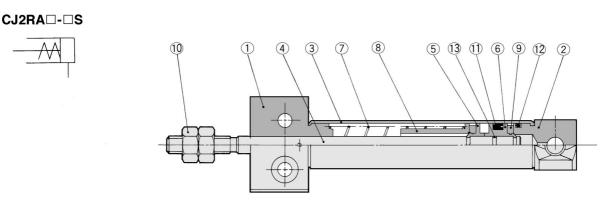
Spring Return (g)						
Во	re size (mm)	ø10	ø16			
	15 Stroke	38	73			
	30 Stroke	45	90			
	45 Stroke	54	112			
Weight*	60 Stroke	63	134			
weight	75 Stroke	_	155			
	100 Stroke	_	198			
	125 Stroke	_	234			
	150 Stroke	_	260			

Spring Extend (g							
Во	re size (mm)	ø10	ø16				
	15 Stroke	44	78				
	30 Stroke	50	94				
	45 Stroke	59	114				
Weight*	60 Stroke	67	135				
weight	75 Stroke	_	154				
	100 Stroke	_	192				
	125 Stroke	_	226				
	150 Stroke	_	250				

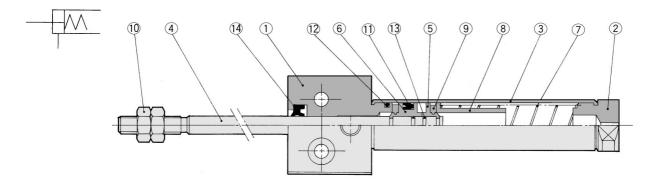
* This weight includes weight of rod end nut.

 \ast This weight includes weight of rod end nut.

Construction (The cylinder cannot be disassembled.)



CJ1 CJP CJ2 CM2 C85 CG1 MB C95 CA1 CS1



Component Parts

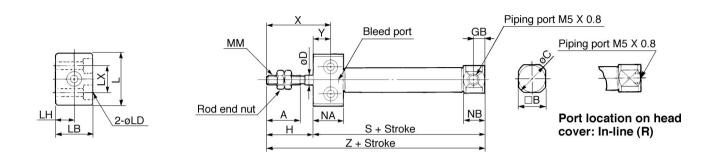
No.	Description	Material	Note
1	Rod cover	Aluminum alloy	White anodized
2	Head cover	Aluminum alloy	White anodized
3	Cylinder tube	Stainless steel	
4	Piston rod	Stainless steel	
(5)	Piston A	Brass	
6	Piston B	Brass	
$\overline{\mathcal{O}}$	Return spring	Piano wire	

No.	Description	Material	Note
8	Spring seat	Brass	
9	Bumper	Urethane	
10	Rod end nut	Rolled steel	Nickel plated
1	Piston seal	NBR	
(12)	Tube gasket	NBR	
13	Piston gasket	NBR	
14	Rod seal	NBR	

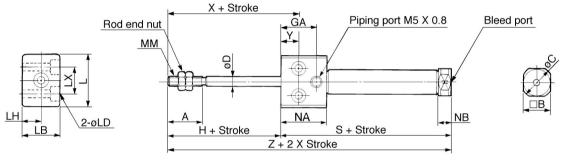
Series CJ2R

Single Acting/Bottom Mounting

Spring return/CJ2RA Bore size - Stroke S Port location on head cover



Spring extend/CJ2RA Bore size - Stroke T



Rod end nut

	\checkmark			l Materia	al: 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

(mm)

Bore	Α	В	С	D	GB	Н	L	LB	LB LD		LX	MM	NA	NB	Х	Y
10	15	12	14	4	5	20	23	16	ø3.5, ø6.5Depth of counter bore: 4	8	12	M4 X 0.7	13.5	9.5	28	8
16	15	18	20	5	5	20	26	20	ø4.5, ø8Depth of counter bore: 5	10	16	M5 X 0.8	13.5	9.5	28	8

Dimensions by stroke/Spring return

	Symbol				Ś	S			Z										
Bor	e Stroke	5 to15	16 to 30	31 to 45	46 to 60	61 to 75	76 to 100	101 to 125	126 to 150	5 to 15	16 to 30	31 to 45	46 to 60	61 to 75	76 to 100	101 to 125	126 to 150		
	10	53.5	61	73	85	_	-	_	_	73.5	81	93	105	_	_	_			
	16	53.5	62	74	86	92	116	134	146	73.5	82	94	106	112	136	154	166		

Dimensions by stroke/Spring extend (Dimensions not mentioned in the below table are the same as the above table.)

Bore	GA	NA	NB	S									Z							
				5 to 15	16 to 30	31 to 45	46 to 60	61 to 75	76 to 100	101 to 125	126 to 150	5 to 15	16 to 30	31 to 45	46 to 60	61 to 75	76 to 100	101 to 125	126 to 150	
10	16	20.5	5.5	56.5	64	76	88		_	Ι		76.5	84	96	108	_	_		_	
16	16	20.5	5.5	56.5	65	77	89	95	119	137	149	76.5	85	97	109	115	139	157	169	