

Standard: Single Acting Spring Return/Extend

Series CJ2



ø6, ø10, ø16

How to Order

Spring extend

Spring return

Bore size

6	6mm
10	10mm
16	16mm

Standard stroke

ø6	15, 30, 45, 60
ø10	15, 30, 45, 60
ø16	15, 30, 45, 60, 75, 100, 125, 150

Mounting

B	Basic
L	Axial foot
F	Front flange
D	Double clevis (Except for ø6)

Action

S	Single acting/Spring return
T	Single acting/Spring extend

Standard

CJ2 L 16 45 S R

With auto switch

CDJ2 L 16 45 S R C73

With auto switch
Built-in magnet

Port location on head cover

Bore		ø6	ø10, ø16
Symbol		—	Perpendicular
R		In-line	In-line

* Refer to p.1.3-4 for the configuration.
* Not applicable to single acting/spring extend style (T).

Auto switch

* Refer to the table below for selecting applicable auto switches.

—	2
S	1
n	n

* If requiring a built-in-magnet cylinder without an auto switch, refer to the model number example below.

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

Style	Special function	Electrical entry	Indicator	Wiring (Output)	Load voltage		Auto switch model		Lead wire*				Applicable load					
					DC	AC	Band (ø6, ø10, ø16)	Rail (ø10, ø16)	0.5 (-)	3 (L)	5 (Z)	None (N)	IC	PLC				
Reed switch	—	Grommet	Yes	3 wire (NPN)	—	5V	—	C76	—	A76H	●	●	—	—	IC	—		
								—	—	A72	A72H	●	●	—	—	—	—	
								12V	100V	C73	A73	A73H	●	●	●	—	—	—
								5V, 12V	≤100V	C80	A80	A80H	●	●	—	—	IC	—
								12V	—	C73C	A73C	—	●	●	●	●	—	—
								5V, 12V	≤24V	C80C	A80C	—	●	●	●	●	—	IC
Solid state switch	—	Grommet	Yes	3 wire (NPN)	5V, 12V	—	H7A1	F7NV	F79	●	●	○	—	IC	—			
							H7A2	F7PV	F7P	●	●	○	—	—	—			
							12V	—	H7B	F7BV	J79	●	●	○	—	—		
							—	—	H7C	J79C	—	●	●	●	●	—		
							—	—	H7NW	F7NWV	F79W	●	●	○	—	IC		
		Connector	No	2 wire	24V	5V, 12V	—	H7PW	—	F7PW	●	●	○	—	IC	—		
								H7BW	F7BWV	J79W	●	●	○	—	—			
								12V	—	H7BA	—	F7BA	—	●	○	—	—	
								—	—	—	—	F7NT	—	●	○	—	IC	
								5V, 12V	—	H7NF	—	F79F	●	●	○	—	—	
Grommet	Yes	4 wire (NPN)	—	—	—	H7LF	—	F7LF	●	●	○	—	—	—				

* Lead wire length 0.5m..... e.g.) C73C 5m.....Z e.g.) C73CZ
3m.....L C73CL None.....N C73CN

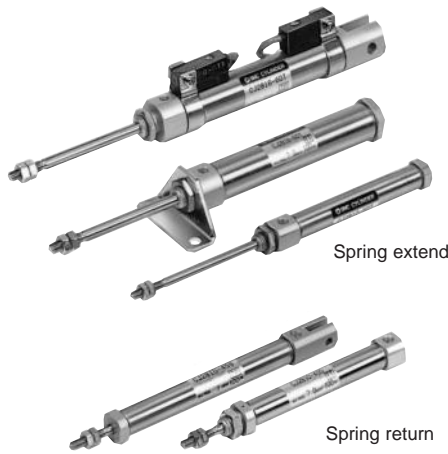
* Solid state switches marked with "○" are manufactured upon receipt of order.

Part No. of Cylinder with Built-in Magnet

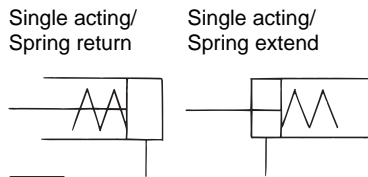
Symbol "-A" (rail mounting) or "-B" (band mounting) should be suffixed to the part No. of the cylinder with auto switch.

Ex.	Rail mounting	CDJ2B16-60S-A
	Band mounting	CDJ2B10-45S-B

Standard: Single Acting Spring Return/Extend *Series CJ2*



JIS symbol



Order Made Made to Order

Refer to p.5.4-1 for made to order products of series CJ2 single acting style.

⚠ Precautions

Be sure to read before handling. Refer to p.0-39 to 0-46 for Safety Instructions and common precautions.

⚠ Caution

Mounting

- During installation, secure the rod cover and tighten by applying an appropriate tightening force to the retaining nut or to the rod cover body. If the head cover is secured or the head cover body is tightened, the cover could rotate, leading to a deviation.
- Tighten the retaining screws to an appropriate tightening torque within the range given below.
 $\phi 6$: 2.1 to 2.5Nm, $\phi 10$: 5.9 to 6.4Nm, $\phi 16$: 10.8 to 11.8Nm
- In the case of the single acting cylinder, do not operate it in such a way that a load would be applied during the retraction of the piston rod of the spring return style, or during the extension of the piston rod of the spring extend style. The spring that is built into the cylinder provides only enough force to retract the piston rod. Thus, if a load is applied, the piston rod will not be able to retract to the end of the stroke.
- In the case of the single acting cylinder, a breather hole is provided in the cover surface. Make sure not to block this hole during installation, as this could lead to a malfunction.
- To remove and install the snap ring for the knuckle pin or the clevis pin, use an appropriate pair of pliers (tool for installing a C type snap ring). In particular, use a pair of ultra-mini pliers such as the Super Tool CSM-07A for removing and installing the snap rings on the $\phi 10$ cylinder.
- In the case of the auto switch rail mounting, do not remove the rail that is mounted. Because the retaining screws extend into the cylinder, this could lead to an air leak.

Specifications

Action	Single acting/Spring return	Single acting/Spring extend
Fluid	Air	
Proof pressure	1.05MPa	
Max. operating pressure	0.7MPa	
Min. operating pressure	$\phi 6$	0.2MPa
	$\phi 10, \phi 16$	0.15MPa
Ambient and fluid temperature	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	
Piston speed	50 to 750mm/s	
Allowable kinetic energy	$\phi 6$	0.012J
	$\phi 10$	0.035J
	$\phi 16$	0.090J

* No freezing

Standard Stroke (mm)

Bore size	Standard stroke
6	15, 30, 45, 60
10	15, 30, 45, 60
16	15, 30, 45, 60, 75, 100, 125, 150

Spring Force (N)

Bore size (mm)	Retracted position	Extended position
6	3.72	1.77
10	6.86	3.53
16	14.2	6.86

Minimum Strokes for Auto Switch Mounting

Mounting	Auto switch model	Number of switches	Min. stroke (mm)	
Band mounting $\phi 6$ $\phi 10$ $\phi 16$	D-C7 D-C8	2 (same surface)	50	
		2 (different surfaces)	15	
		1	10	
	D-H7□ D-H7□W ⁽¹⁾ D-H7BAL ⁽¹⁾ D-H7NF ⁽¹⁾	2 (same surface)	60	
		2 (different surfaces)	15	
		1	10	
		D-C73C D-C80C D-H7C	2 (same surface)	65
	2 (different surfaces)		15	
	1		10	
	D-H7LF ⁽¹⁾	2 (same surface)	65	
		2 (different surfaces)	25	
		1	15	
Rail mounting $\phi 10$ $\phi 16$		D-A7/A8 D-A7□H/A80H D-A73C/A80C	2	10
			1	5
	D-F7 D-J79 D-F7□V D-J79C		2	5
		1	5	
		D-A79W D-F7□W D-J79W D-F7BAL D-F7□WV D-F79F	2	15
	1		10	
D-F7LF	2		15	
	1	15		

Note 1) Cannot be mounted on $\phi 6$ cylinder.

CJ1

CJP

CJ2

CM2

C85

CG1

MB

C95

CA1

CS1

Series CJ2

Weight/Spring Return (S)

(g)

Bore size (mm)		6	10	16
Basic weight*	15 Stroke	11	28	63
	30 Stroke	16	35	80
	45 Stroke	18	44	102
	60 Stroke	23	53	124
	75 Stroke	—	—	145
	100 Stroke	—	—	188
	125 Stroke	—	—	224
Mounting bracket weight	150 Stroke	—	—	250
	Axial foot	8	8	20
	Front flange	5	5	15
	Double clevis** (with pins)	—	4	10

* This basic weight includes weights of mounting nut and rod end nut.

** The mounting nut is not attached to the double clevis, so the mounting nut weight is already reduced.

Calculation example) CJ2L10-45S

• Basic weight: 44 (ø10-45 stroke)

• Mounting bracket weight: 8 (Axial foot)

44+8=52g

Weight/Spring Extend (T)

(g)

Bore size (mm)		6	10	16
Basic weight*	15 Stroke	17	28	64
	30 Stroke	21	34	80
	45 Stroke	23	43	100
	60 Stroke	27	51	121
	75 Stroke	—	—	140
	100 Stroke	—	—	178
	125 Stroke	—	—	212
Mounting bracket weight	150 Stroke	—	—	236
	Axial foot	8	8	20
	Front flange	5	5	15
	Double clevis** (with pins)	—	4	10

* This basic weight includes weights of mounting nut and rod end nut.

** The mounting nut is not attached to the double clevis, so the mounting nut weight is already reduced.

Calculation example) CJ2L10-45T

• Basic weight: 43 (ø10-45 stroke)

• Mounting bracket weight: 8 (Axial foot)

43+8=52g

Mounting Bracket Part No.

Mounting bracket	Bore size (mm)		
	6	10	16
Foot	CJ-L006B	CJ-L010B	CJ-L016B
Flange	CJ-F006B	CJ-F010B	CJ-F016B
T bracket*	—	CJ-T010B	CJ-T016B

* T bracket is used with double clevis (D).

Auto Switch Mounting Bracket Part No. (Band mounting)

Bore size (mm)	Bracket part No.	Note
6	BJ2-006	Common use to all of D-C7, C8 and D-H7
10	BJ2-010	
16	BJ2-016	



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.

Mounting Accessories/Refer to p.1.3-12 for details.

Mounting		Basic	Axial foot	Front flange	Double clevis*
Standard	Mounting nut	●	●	●	—
	Rod end nut	●	●	●	●
	Clevis pin	—	—	—	●
Option	Single knuckle joint	●	●	●	●
	Double knuckle joint*	●	●	●	●
	T bracket	—	—	—	●

* Double clevis or double knuckle joint are packaged with pins and set rings. Refer to p.1.3-4 for the accessory weight.

Theoretical Force

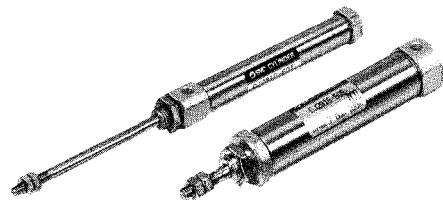
Refer to the "Single acting/spring return cylinder" in Theoretical Force Table 1 of Technical data 3 on p.5.6-7. In the case of the spring extend style, the force at OUT side will be the ending force of the spring return, and that at the IN side will be the amount of the IN side force of the double acting style cylinder from which the beginning force of the spring return has been subtracted.

Copper Free

20-CJ2 Mounting Bore size — Stroke Action Port location on head cover

• Copper free

To eliminate influences of copper ions or halogen ions during CRT manufacturing processes, copper and fluorine materials are not used as component parts.



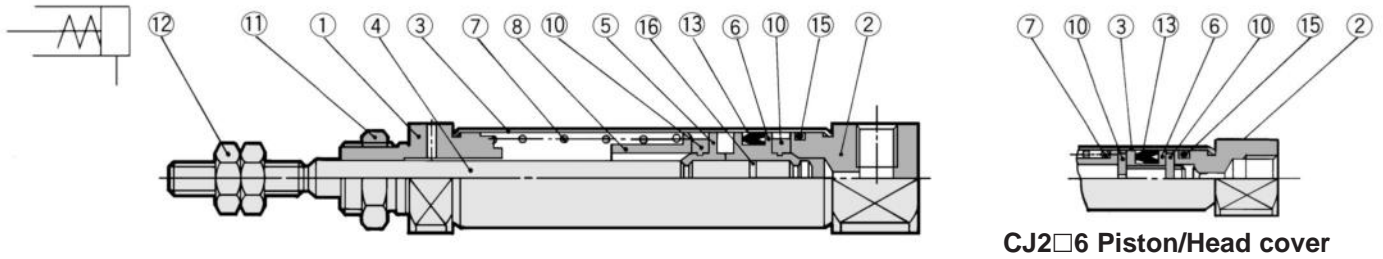
Specifications

Action	Single acting/Spring return	Single acting/Spring extend
Bore size (mm)	ø6, ø10, ø16	
Max. operating pressure	0.7MPa	
Min. operating pressure	ø6	0.2MPa
	ø10, ø16	0.15MPa
Cushion	Rubber bumper	
Standard stroke (mm)	Same as the standard (Refer to p.1.3-21.)	
Auto switch	Possible to be mounted	
Mounting	Basic, Axial foot, Front flange, Double clevis (Except for ø6)	

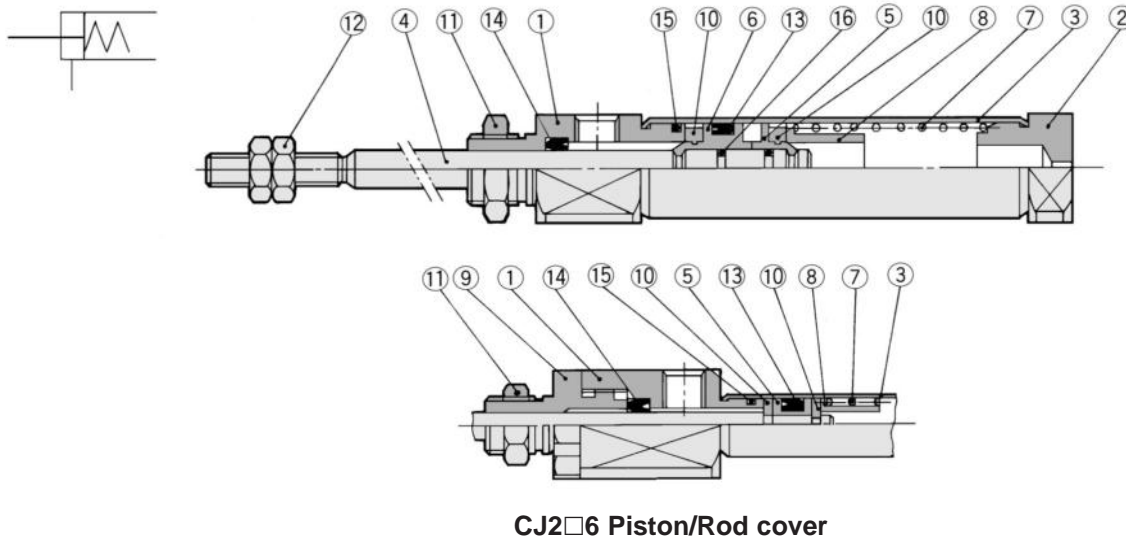
Standard: Single Acting Spring Return/Extend *Series CJ2*

Construction (The cylinder cannot be disassembled.)

Single acting/Spring return



Single acting/Spring extend



- 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	
⑦	Return spring	Piano wire	
⑧	Spring seat	Brass	

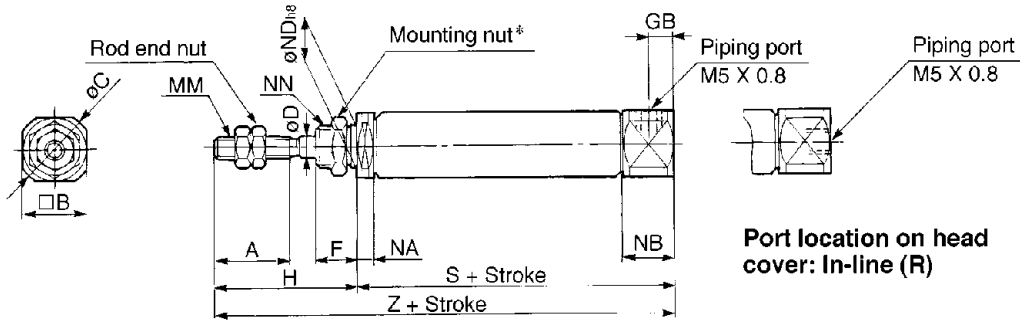
No.	Description	Material	Note
⑨	Packing retainer	Aluminum alloy	White anodized (ø6 spring extend)
⑩	Bumper	Urethane	
⑪	Mounting nut	Brass	Nickel plated
⑫	Rod end nut	Rolled steel	Nickel plated
⑬	Piston seal	NBR	
⑭	Rod seal	NBR	
⑮	Tube gasket	NBR	
⑯	Piston gasket	NBR	

Series CJ2

Single Acting/Spring Return: Basic (B)



CJ2B Bore size Stroke S Port location on head cover



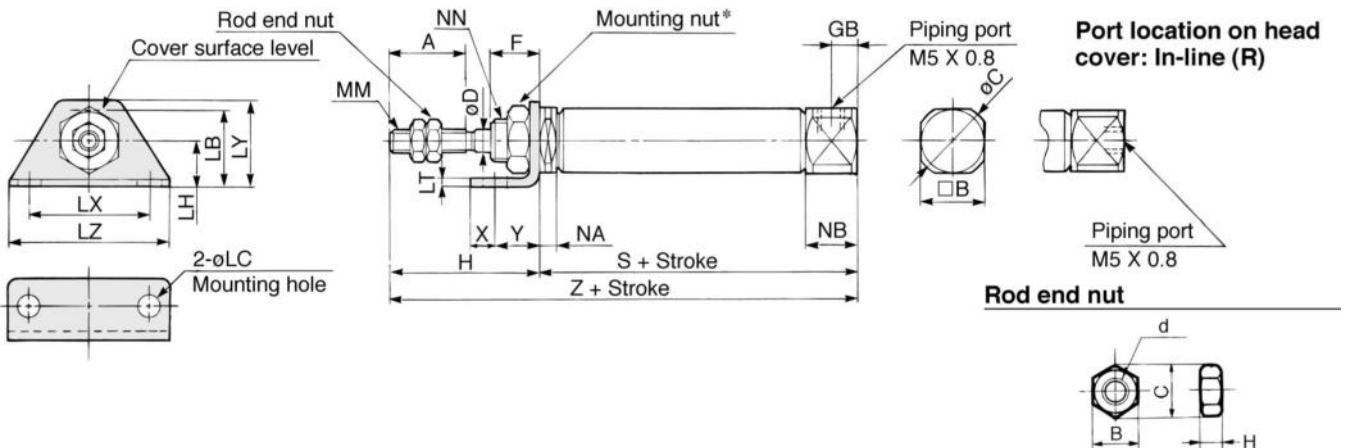
* Refer to p.1.3-12 for details of the mounting nut.

Bore	A	B	C	D	F	GB	H	MM	NA	NB	ND h8	NN	S*								Z*							
													5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st	5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st
6	15	8	9	3	8	—	28	M3 X 0.5	3	7	6 _{-0.018}	M6 X 1.0	34.5 (39.5)	43.5 (48.5)	47.5 (52.5)	61.5 (66.5)	—	—	—	—	62.5 (67.5)	71.5 (76.5)	75.5 (80.5)	89.5 (94.5)	—	—	—	—
10	15	12	14	4	8	5	28	M4 X 0.7	5.5	9.5	8 _{-0.022}	M8 X 1.0	45.5	53	65	77	—	—	—	—	73.5	81	93	105	—	—	—	—
16	15	18	20	5	8	5	28	M5 X 0.8	5.5	9.5	10 _{-0.022}	M10 X 1.0	45.5	54	66	78	84	108	126	138	73.5	82	94	106	112	136	154	166

* () in S or Z dimensions: With auto switch

Single Acting/Spring Return: Axial Foot (L)

CJ2L Bore size Stroke S Port location on head cover



Material: Iron

Part No.	Bore	B	C	d	H
NTJ-006A	6	5.5	6.4	M3 X 0.5	2.4
NTJ-010A	10	7	8.1	M4 X 0.7	3.2
NTJ-015A	16	8	9.2	M5 X 0.8	4

* Refer to p.1.3-12 for details of the mounting nut.

Bore	A	B	C	D	F	GB	H	LB	LC	LH	LX	LY	LZ	MM	NA	NB	NN	X	Y	S*								Z*								
																				5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st	5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st	
6	15	8	9	3	8	—	28	13	4.5	9	1.6	24	16.5	32	M3 X 0.5	3	7	M6 X 1.0	5	7	34.5 (39.5)	43.5 (48.5)	47.5 (52.5)	61.5 (66.5)	—	—	—	—	62.5 (67.5)	71.5 (76.5)	75.5 (80.5)	89.5 (94.5)	—	—	—	—
10	15	12	14	4	8	5	28	15	4.5	9	1.6	24	16.5	32	M4 X 0.7	5.5	9.5	M8 X 1.0	5	7	45.5	53	65	77	—	—	—	—	73.5	81	93	105	—	—	—	—
16	15	18	20	5	8	5	28	23	5.5	14	2.3	33	25	42	M5 X 0.8	5.5	9.5	M10 X 1.0	6	9	45.5	54	66	78	84	108	126	138	73.5	82	94	106	112	136	154	166



Basic
 CJ2B6.....SCJ26, #7
 CJ2B10.....SCJ210, #7
 CJ2B16.....SCJ216, #7

With foot
 SCJ26, #7, #3
 SCJ210, #7, #3
 SCJ216, #7, #3

* The data shows auto switch styles.
 Please delete the unnecessary parts.

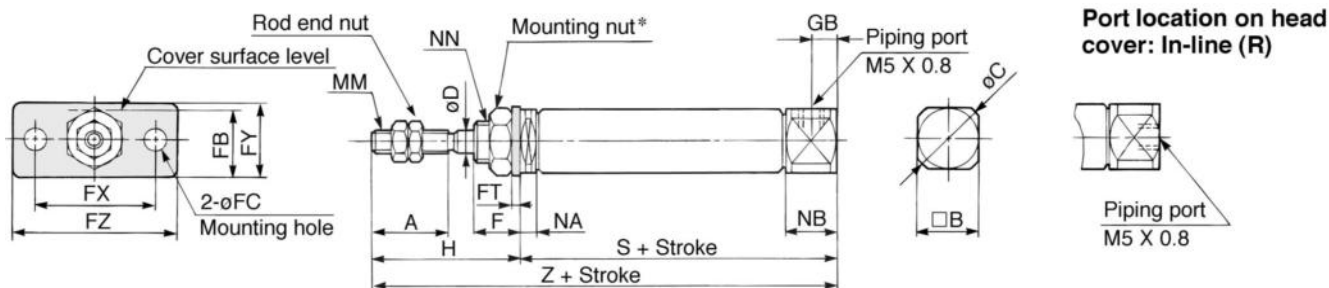
* () in S or Z dimensions: With auto switch

Standard: Single Acting Spring Return/Extend **Series CJ2**

Single Acting/Spring Return: Front Flange (F)



CJ2F Bore size — Stroke S Port location on head cover



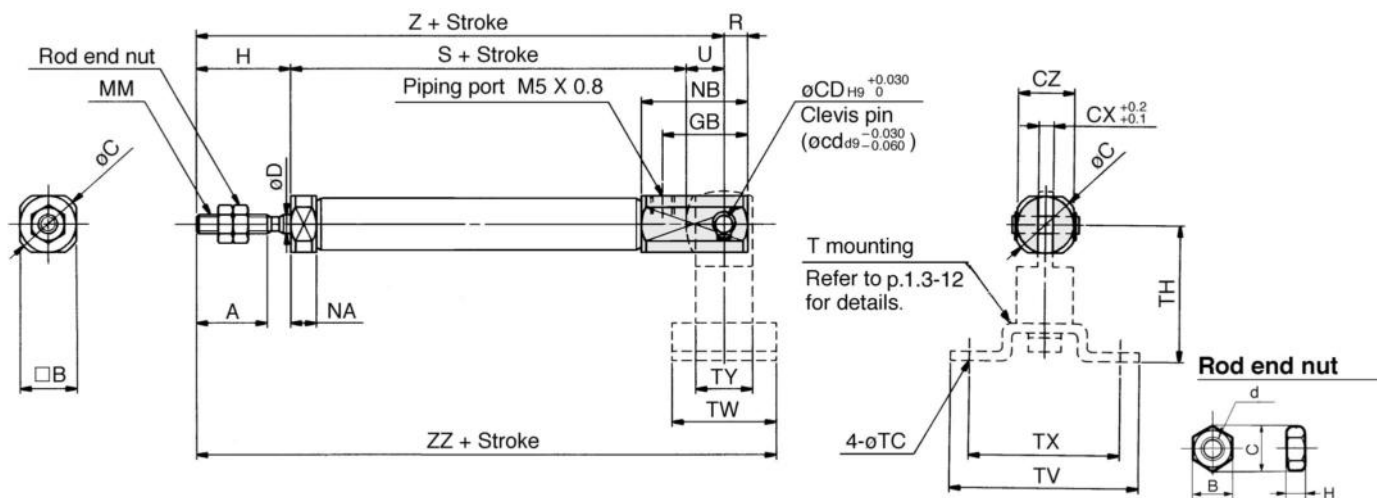
* Refer to p01.3-12 for details of the mounting nut.

Bore	A	B	C	D	F	FB	FC	FT	FX	FY	FZ	GB	H	MM	NA	NB	NN	S*								Z*							
																		5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st	5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st
6	15	8	9	3	8	11	4.5	1.6	24	14	32	—	28	M3 X 0.5	3	7	M6 X 1.0	34.5 (39.5)	43.5 (48.5)	47.5 (52.5)	61.5 (66.5)	—	—	—	—	62.5 (67.5)	71.5 (76.5)	75.5 (80.5)	89.5 (94.5)	—	—	—	—
10	15	12	14	4	8	13	4.5	1.6	24	14	32	5	28	M4 X 0.7	5.5	9.5	M8 X 1.0	45.5	53	65	77	—	—	—	—	73.5	81	93	105	—	—	—	—
16	15	18	20	5	8	19	5.5	2.3	33	20	42	5	28	M5 X 0.8	5.5	9.5	M10 X 1.0	45.5	54	66	78	84	108	126	138	73.5	82	94	106	112	136	154	166

*() in S or Z dimensions: With auto switch

Single Acting/Spring Return: Double Clevis (D)

CJ2D Bore size — Stroke S



* Clevis pins and set rings are attached.

Material: Iron

Part No.	Bore	B	C	d	H
NTJ-006A	6	5.5	6.4	M3 X 0.5	2.4
NTJ-010A	10	7	8.1	M4 X 0.7	3.2
NTJ-015A	16	8	9.2	M5 X 0.8	4

Bore	A	B	C	CD (cd)	CX	CZ	D	GB	H	MM	NA	NB	R	U	S								Z											
															5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st	5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st				
10	15	12	14	3.3	3.2	12	4	18	20	M4 X 0.7	5.5	22.5	5	8	45.5	53	65	77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	15	18	20	5	6.5	18	5	23	20	M5 X 0.8	5.5	27.5	8	10	45.5	54	66	78	84	108	126	138	75.5	84	96	108	114	138	156	168	—	—	—	

T mounting dimensions

Bore	ZZ							
	5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st
10	84.5	92	104	116	—	—	—	—
16	89.5	98	110	122	128	152	170	182

Bore size	TC	TH	TV	TW	TX	TU
10	4.5	29	40	22	32	12
16	5.5	35	48	28	38	16



Basic With flange
 CJ2F6.....SCJ26, #7 SCJ26, #7, #4
 CJ2F10.....SCJ210, #7 SCJ210, #7, #4
 CJ2F16.....SCJ216, #7 SCJ216, #7, #4

* The data shows auto switch styles.

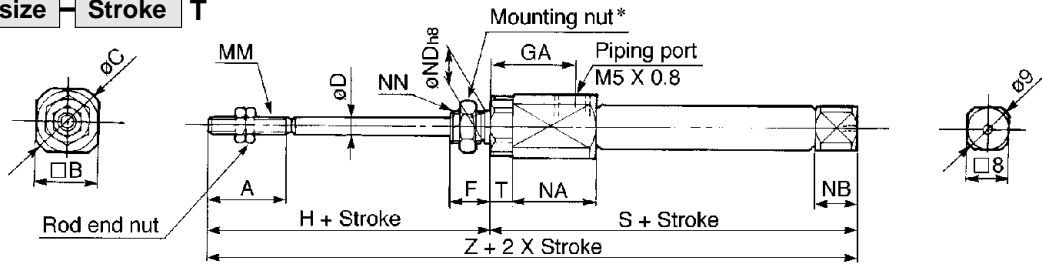
Please delete the unnecessary parts.

Series CJ2

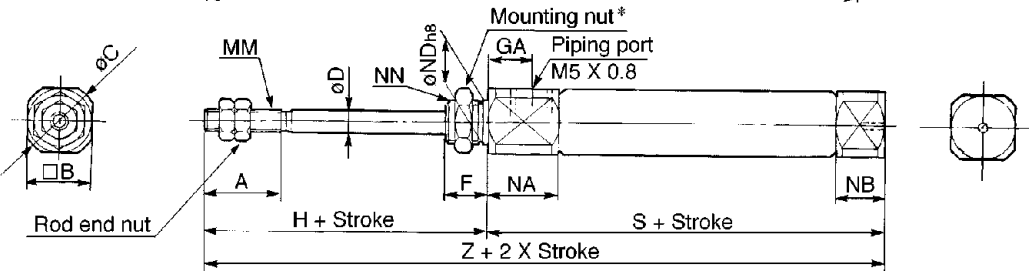
Single Acting/Spring Extend: Basic (B)

CJ2B Bore size — Stroke T

CJ2B6



CJ2B10, 16



* Refer to p.1.3-12 for details of the mounting nut.

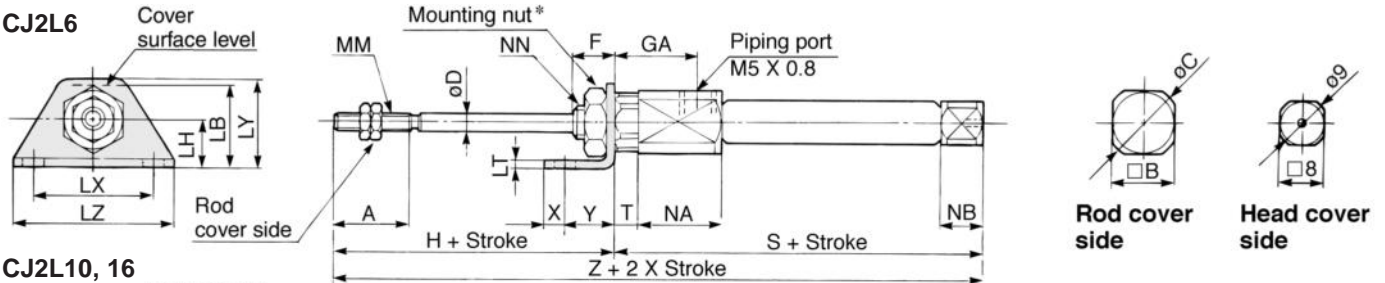
Bore	A	B	C	D	F	GA	H	MM	NN	NA	NB	ND h8	T	S*												Z*					
														5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st	5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st		
6	15	12	14	3	8	14.5	28	M3 X 0.5	M6 X 1.0	16	3	6 ⁰ _{-0.018}	3	46.5 (51.5)	55.5 (60.5)	59.5 (64.5)	73.5 (78.5)	—	—	—	—	74.5 (79.5)	83.5 (88.5)	87.5 (92.5)	101.5 (106.5)	—	—	—	—		
10	15	12	14	4	8	8	28	M4 X 0.7	M8 X 1.0	12.5	5.5	8 ⁰ _{-0.022}	—	48.5	56	68	80	—	—	—	—	76.5	84	96	108	—	—	—	—		
16	15	18	20	5	8	8	28	M5 X 0.8	M10 X 1.0	12.5	5.5	10 ⁰ _{-0.022}	—	48.5	57	69	81	87	111	129	141	76.5	85	97	109	115	139	157	169		

* () in S or Z dimensions: With auto switch

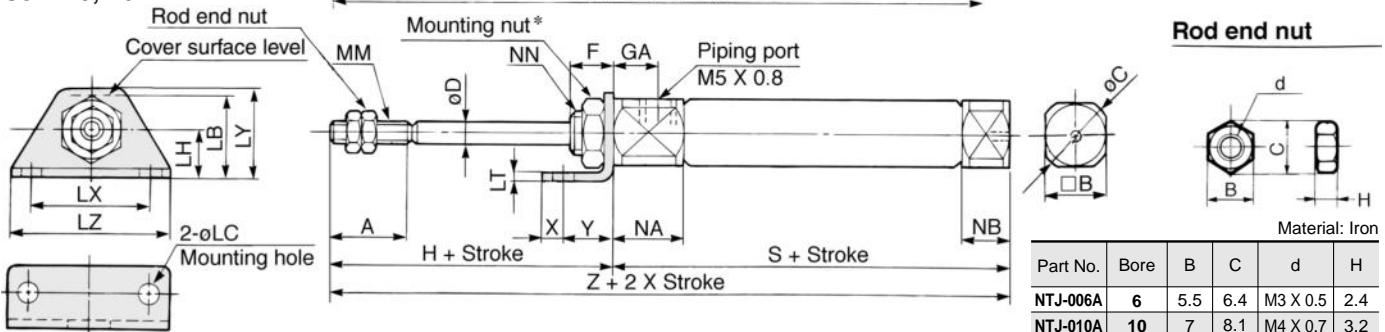
Single Acting/Spring Extend: Axial Foot (L)

CJ2L Bore size — Stroke T

CJ2L6



CJ2L10, 16



Material: Iron

Part No.	Bore	B	C	d	H
NTJ-006A	6	5.5	6.4	M3 X 0.5	2.4
NTJ-010A	10	7	8.1	M4 X 0.7	3.2
NTJ-015A	16	8	9.2	M5 X 0.8	4

* Refer to p.1.3-12 for details of the mounting nut.

Bore	A	B	C	D	F	GA	H	LB	LC	LH	LT	LX	LY	LZ	MM	NA	NB	NN	T	X	Y	S*												Z*					
																						5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st	5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st		
6	15	12	14	3	8	14.5	28	15	4.5	9	1.6	24	16.5	32	M3 X 0.5	16	3	M6 X 1.0	3	5	7	46.5 (51.5)	55.5 (60.5)	59.5 (64.5)	73.5 (78.5)	—	—	—	—	74.5 (79.5)	83.5 (88.5)	87.5 (92.5)	101.5 (106.5)	—	—	—	—		
10	15	12	14	4	8	8	28	15	4.5	9	1.6	24	16.5	32	M4 X 0.7	12.5	5.5	M8 X 1.0	—	5	7	48.5	56	68	80	—	—	—	—	76.5	84	96	108	—	—	—	—		
16	15	18	20	5	8	8	28	23	5.5	14	2.3	33	25	42	M5 X 0.8	12.5	5.5	M10 X 1.0	—	6	9	48.5	57	69	81	87	111	129	141	76.5	85	97	109	115	139	157	169		

* () in S or Z dimensions: With auto switch



Basic With foot
 CJ2B6.....SCJ26, #8 SCJ26, #8, #3
 CJ2B10.....SCJ210, #8 SCJ210, #8, #3
 CJ2B16.....SCJ216, #8 SCJ216, #8, #3

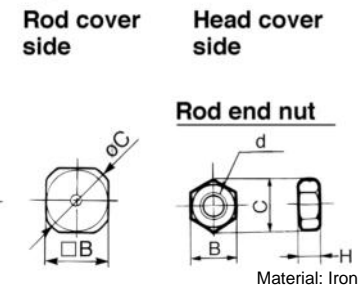
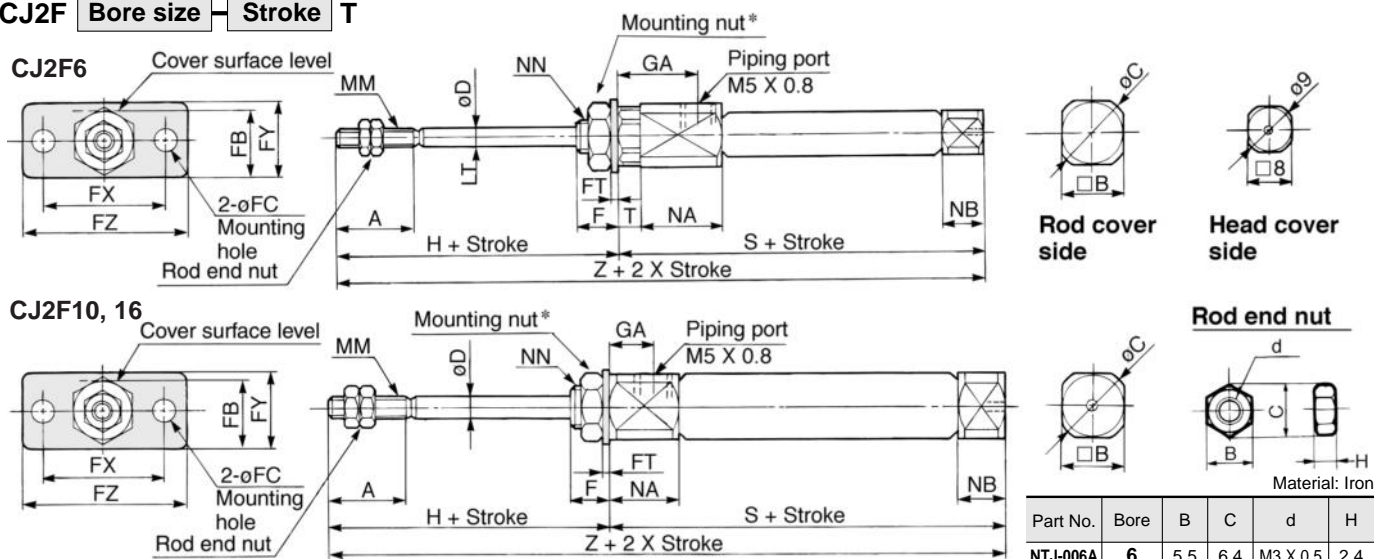
* The data shows auto switch equipped styles.
 Please delete the unnecessary parts.

Standard: Single Acting Spring Return/Extend *Series CJ2*

Single Acting/Spring Extend: Front Flange (F)



CJ2F Bore size — Stroke T



Part No.	Bore	B	C	d	H
NTJ-006A	6	5.5	6.4	M3 X 0.5	2.4
NTJ-010A	10	7	8.1	M4 X 0.7	3.2
NTJ-015A	16	8	9.2	M5 X 0.8	4

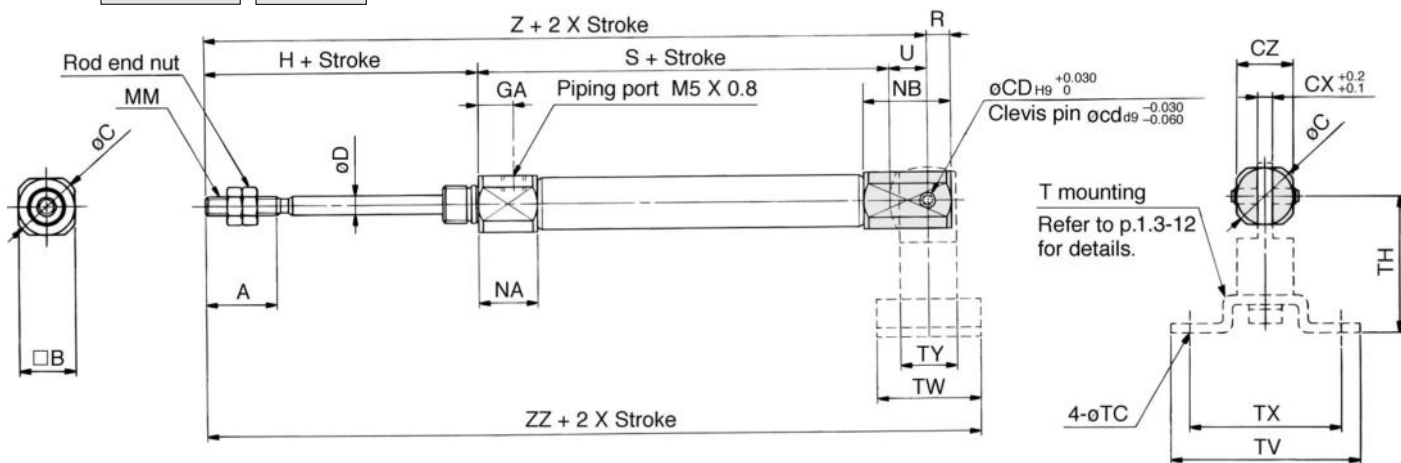
* Refer to p.1.3-12 for details of the mounting nut.

Bore	A	B	C	D	F	FB	FC	FT	FX	FY	FZ	GA	H	MM	NA	NB	NN	T	S*								Z*							
																			5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st	5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st
6	15	12	14	3	8	13	4.5	1.6	24	14	32	14.5	28	M3 X 0.5	16	3	M6 X 1.0	3	46.5 (51.5)	55.5 (60.5)	59.5 (64.5)	73.5 (78.5)	—	—	—	—	74.5 (79.5)	83.5 (88.5)	87.5 (92.5)	101.5 (106.5)	—	—	—	—
10	15	12	14	4	8	13	4.5	1.6	24	14	32	8	28	M4 X 0.7	12.5	5.5	M8 X 1.0	—	48.5	56	68	80	—	—	—	—	76.5	84	96	108	—	—	—	—
16	15	18	20	5	8	19	5.5	2.3	33	20	42	8	28	M5 X 0.8	12.5	5.5	M10 X 1.0	—	48.5	57	69	81	87	111	129	141	76.5	85	97	109	115	139	157	169

*() in S or Z dimensions: With auto switch

Single Acting/Spring Extend: Double Clevis (D)

CJ2D Bore size — Stroke T



* Clevis pins and set rings are attached.

Bore	A	B	C	CD (cd)	CX	CZ	D	GA	H	MM	NA	NB	R	U	S								Z							
															5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st	5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st
10	15	12	14	3.3	3.2	12	4	8	28	M4 X 0.7	12.5	18.5	5	8	48.5	56	68	80	—	—	—	—	84.5	92	104	116	—	—	—	—
16	15	18	20	5	6.5	18	5	8	28	M5 X 0.8	12.5	23.5	8	10	48.5	57	69	81	87	111	129	141	86.5	95	107	119	125	149	167	179

Bore	ZZ							
	5 to 15st	16 to 30st	31 to 45st	46 to 60st	61 to 75st	76 to 100st	101 to 125st	126 to 150st
10	95.5	103	115	127	—	—	—	—
16	100.5	109	121	133	139	163	181	193

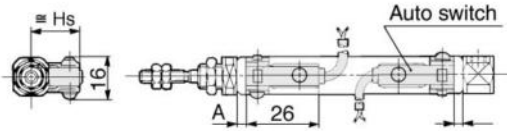
T mounting dimensions						
Bore size	TC	TH	TV	TW	TX	TY
10	4.5	29	40	22	32	12
16	5.5	35	48	28	38	16

CAD Basic With flange
 CJ2F6.....SCJ26, #8 SCJ26, #8, #4
 CJ2F10.....SCJ210, #8 SCJ210, #8, #4
 CJ2F16.....SCJ216, #8 SCJ216, #8, #4
 * The data shows auto switch equipped styles.
 Please delete the unnecessary parts.

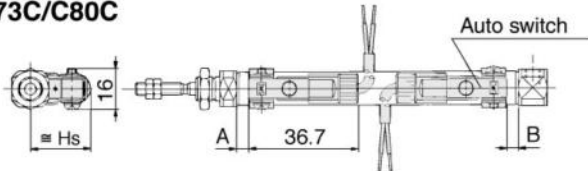
Series CDJ2

Auto Switch Mounting Position: Single Acting/Spring Return (S)

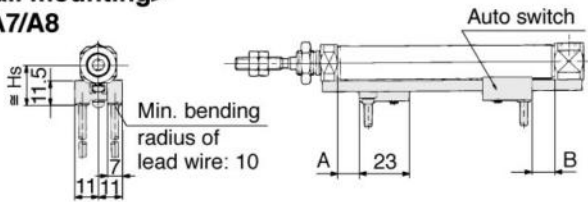
Reed Switch <Band mounting> D-C7/C8



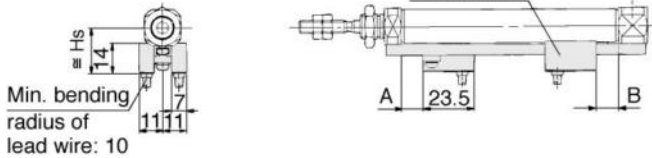
D-C73C/C80C



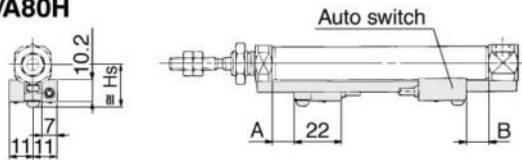
<Rail mounting> D-A7/A8



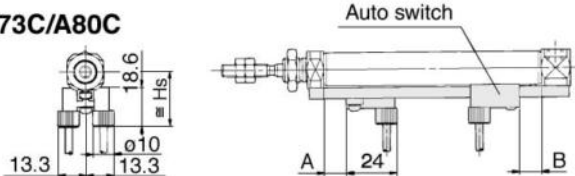
D-A79W



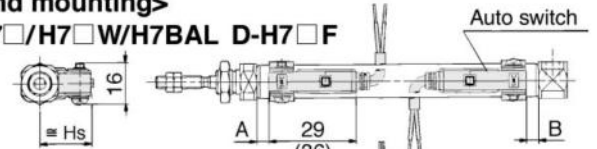
D-A7□H/A80H



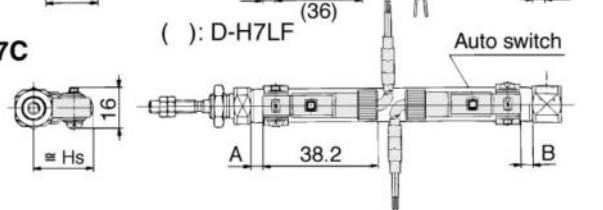
D-A73C/A80C



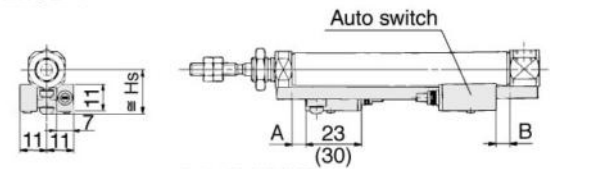
Solid State Switch <Band mounting> D-H7□/H7□W/H7BAL D-H7□F



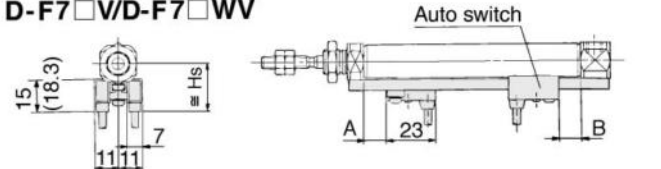
D-H7C



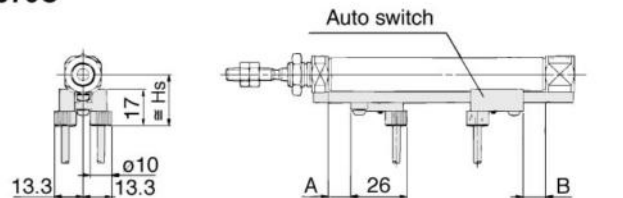
<Rail mounting> D-F7/J7/D-F7□W/D-J79W D-F7□F/D-F7BAL



D-F7□V/D-F7□WV



D-J79C



Auto Switch Mounting Position/Spring Return

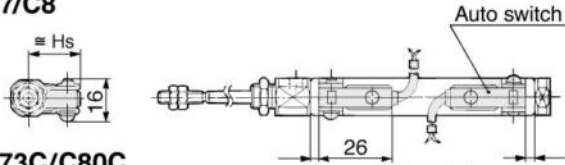
Auto switch model	Bore (mm)	A dimensions								B
		10 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st	
D-C7/C8	6	8.5	17.5	21.5	35.5	—	—	—	—	2.0
D-C73C	10	9.0	16.5	28.5	40.5	—	—	—	—	2.5
D-C80C	16	8.5	17.0	29.0	41.0	47	71	89	101	3.0
D-H7□	6	7.5	16.5	20.5	34.5	—	—	—	—	1.0
D-H7C	10	8.0	15.5	27.5	39.5	—	—	—	—	1.5
	16	7.5	16.0	28.0	40.0	46	70	88	100	2.0
D-H7□W	6	6.0	15.0	19.0	33.0	—	—	—	—	0
D-H7□F	10	6.5	14.0	26.0	38.0	—	—	—	—	0
D-H7BAL	16	6.0	14.5	26.5	38.5	44.5	68.5	86.5	98.5	0.5
D-A7/A8	10	9.5	17.0	29.0	41.0	—	—	—	—	—
	16	9	17.5	29.5	41.5	47.5	71.5	89.5	101.5	3.5
D-A73C/A80C	10	10.0	17.5	29.5	41.5	—	—	—	—	3.5
D-F7/J7	16	9.5	18.0	30.0	42.0	48	72	90	102	4.0
D-A7□H/A80H	10	10.5	18.0	30.0	42.0	—	—	—	—	4.0
D-F7□V/J79C	16	10.0	18.5	30.5	42.5	48.5	72.5	90.5	102.5	4.5
D-F7□WV	10	14.0	21.5	33.5	45.5	—	—	—	—	7.5
D-F7BAL/F7□F	16	13.5	22.0	34.0	46.0	52	76	94	106	8.0
D-J79C	10	7.0	14.5	26.5	38.5	—	—	—	—	0.5
D-A79W	16	6.5	15.0	27.0	39.0	45	69	87	99	1.0

Auto Switch Mounting Height (mm)

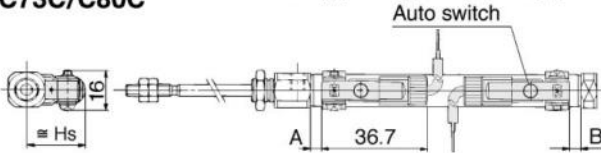
Auto switch model	Bore (mm)	≡ HS
D-C7/C8	6	15.0
D-H7□/H7□W	10	17.0
D-H7□F/H7BAL	16	20.5
D-C73C	6	17.5
D-C80C	10	19.5
	16	23.0
D-H7C	6	18.0
	10	20.0
	16	23.5
D-A7	10	16.5
D-A8	16	19.5
D-A7□H/A80H	10	17.5
D-F7/J7	16	20.5
D-F7□W/J79W	10	23.5
D-F7BAL/F7□F	16	26.5
D-A73C/A80C	10	23.5
	16	26.5
D-F7□V	10	20.0
D-F7□WV	16	23.0
	10	23.0
D-J79C	16	26.0
	10	19.0
D-A79W	16	22.0

Auto Switch Mounting Position: Single Acting/Spring Extend (T)

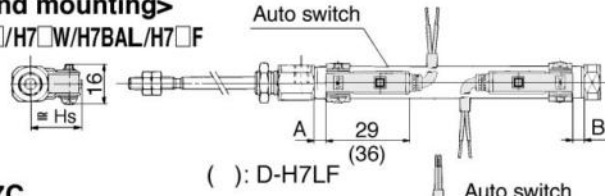
Reed Switch <Band mounting> D-C7/C8



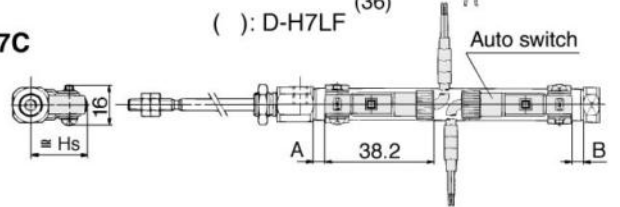
D-C73C/C80C



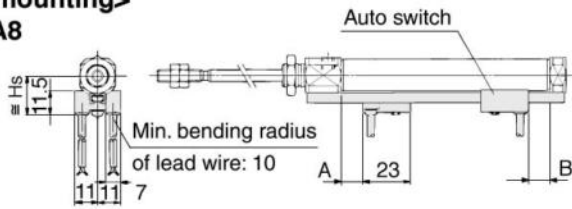
Solid State Switch <Band mounting> D-H7□/H7□W/H7BAL/H7□F



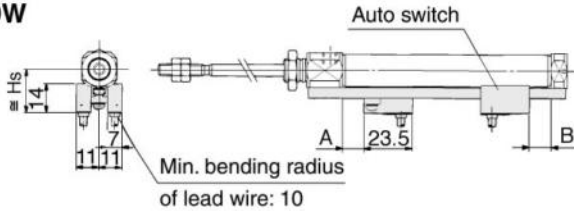
D-H7C



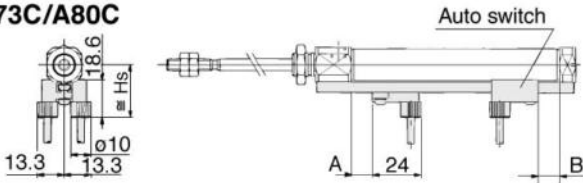
<Rail mounting> D-A7/A8



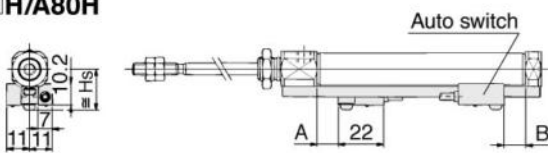
D-A79W



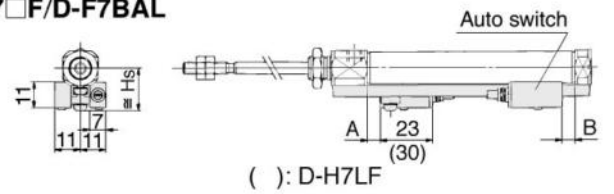
D-A73C/A80C



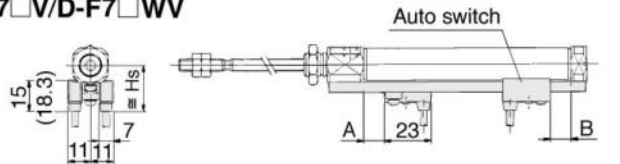
D-A7□H/A80H



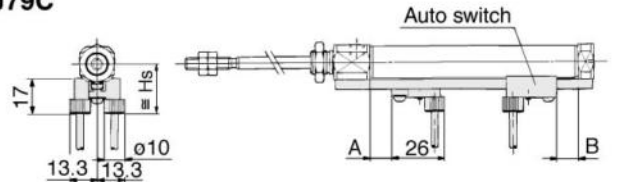
<Rail mounting> D-F7/J7/D-F7□W/D-J79W D-F7□F/D-F7BAL



D-F7□V/D-F7□WV



D-J79C



Auto Switch Mounting Height (mm)

Auto switch model	Bore (mm)	≅ HS
D-C7/C8	6	15.0
D-H7□/H7□W	10	17.0
D-H7□F/H7BAL	16	20.5
D-C73C	6	17.5
D-C80C	10	19.5
	16	23.0
D-H7C	6	18.0
	10	20.0
	16	23.5
D-A7	10	16.5
D-A8	16	19.5
D-A7□H/A80H	10	17.5
D-F7/J7		
D-F7□W/J79W	16	20.5
D-F7BAL/F7□F		
D-A73C	10	23.5
D-A80C	16	26.5
D-F7□V	10	20.0
D-F7□WV	16	23.0
	10	23.0
D-J79C	16	26.0
	10	19.0
D-A79W	16	22.0

Auto Switch Mounting Position/Spring Extend

Auto switch model	Bore (mm)	A	B dimensions (mm)							
			All stroke	10 to 15 St	16 to 30 St	31 to 45 St	46 to 60 St	61 to 75 St	76 to 100 St	101 to 125 St
D-C7/C8	6	2.0	8.5	17.5	21.5	35.5	—	—	—	—
D-C73C	10	2.5	9.0	16.5	28.5	40.5	—	—	—	—
D-C80C	16	3.0	8.5	17.0	29.0	41.0	47	71	89	101
D-H7□	6	1.0	7.5	16.5	20.5	34.5	—	—	—	—
D-H7C	10	1.5	8.0	15.5	27.5	39.5	—	—	—	—
	16	2.0	7.5	16.0	28.0	40.0	46	70	88	100
D-H7□W	6	0	6.0	15.0	19.0	33.0	—	—	—	—
D-H7□F	10	0	6.5	14.0	26.0	38.0	—	—	—	—
D-H7BAL	16	0.5	6.0	14.5	26.5	38.5	44.5	68.5	86.5	98.5
D-A7/A8	10	3.0	9.5	17.0	29.0	41.0	—	—	—	—
	16	3.5	9.0	17.5	29.5	41.5	47.5	71.5	87.5	101.5
D-A73C/A80C	10	3.5	10.0	17.5	29.5	41.5	—	—	—	—
D-F7/J7										
D-A7□H/A80H	16	4.0	9.5	18.0	30.0	42.0	48	72	90	102
D-F7□V/J79C										
D-F7□WV	10	4.0	10.5	18.0	30.0	42.0	—	—	—	—
	16	4.5	10.0	18.5	30.5	42.5	48.5	72.5	90.5	102.5
D-F7BAL/F7□W	10	7.5	14.0	21.5	33.5	45.5	—	—	—	—
D-F7□F/J79W	16	8.0	13.5	22.0	34.0	46.0	52	76	94	106
D-A79W	10	0.5	7.0	14.5	26.5	38.5	—	—	—	—
	16	1.0	6.5	15.0	27.0	39.0	45	69	87	99