

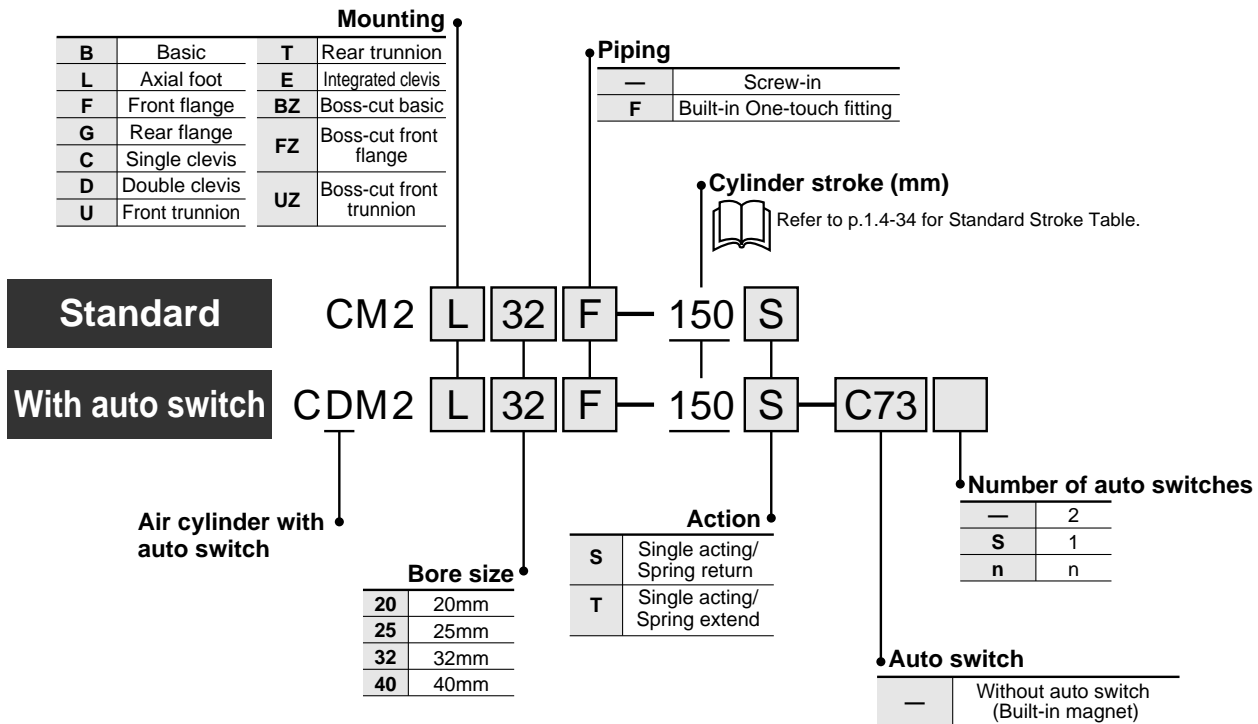
Standard: Single Acting Spring Return/Extend

Series CM2



ø20, ø25, ø32, ø40

How to Order



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

Style	Special function	Electrical entry	Indicator	Wiring (Output)	Load voltage		Auto switch model	Lead wire (m)*				Applicable load																																																																																									
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Standard: Single Acting Spring Return/Extend *Series CM2*



Specifications

Action	Single acting/Spring return	Single acting/Spring extend
Style	Air cylinder	
Cushion	Rubber bumper	
Fluid	Air	
Proof pressure	1.5MPa	
Max. operating pressure	1.0MPa	
Min. operating pressure	0.18MPa	0.23MPa
Ambient and fluid temperature	Without auto switch: -10°C to +70°C (No freezing) With auto switch: -10 to +60°C (No freezing)	
Lubrication	Non-lube	
Thread tolerance	JIS class 2	
Stroke tolerance	+1.4 0	
Piston speed	50 to 750mm/s	

Allowable Kinetic Energy

Bore size (mm)	20	25	32	40
Allowable kinetic energy	0.27	0.4	0.65	1.2

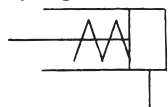
Standard Stroke

Bore size (mm)	Standard stroke (mm) ⁽¹⁾
20	25, 50, 75, 100, 125, 150
25	25, 50, 75, 100, 125, 150
32	25, 50, 75, 100, 125, 150, 200
40	25, 50, 75, 100, 125, 150, 200, 250

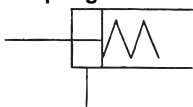
Note 1) Other intermediate strokes can be manufactured upon receipt of order.
Contact SMC for longer strokes.

JIS symbol

Single acting/
Spring return



Spring extend



Order Made Made to Order

Refer to p.5.4-1 for made to order specifications of series CM2R.

Minimum Strokes for Auto Switch Mounting

Auto switch model	Number of switches				1
	2		n		
	On different surfaces	On the same surface	On different surfaces	On the same surface	
D-C7 D-C8	15	50		50+45(n-2)	10
D-H7□ D-H7□W D-H7BAL D-H7NF	15	60	15+45($\frac{n-2}{2}$) (n=2, 4, 6...)	60+45(n-2)	10
D-C73C D-C80C D-H7C	15	65	15+50($\frac{n-2}{2}$) (n=2, 4, 6...)	65+50(n-2)	10
D-H7LF	20	65	20+50($\frac{n-2}{2}$) (n=2, 4, 6...)		10
D-B5 D-B6	15	75	15+50($\frac{n-2}{2}$) (n=2, 4, 6...)	75+55(n-2)	10
D-B59W	20	75	20+50($\frac{n-2}{2}$) (n=2, 4, 6...)		15
D-A3□A D-G39A D-K39A D-A44A	35	100	35+30(n-2)	100+100(n-2)	10

Mounting Bracket

Refer to p.1.4-35 for part numbers of the mounting brackets.

Auto Switch Mounting Band

Refer to p.1.4-35 for part numbers of the mounting bands.

CJ1

CJP

CJ2

CM2

C85

CG1

MB

C95

CA1

CS1

Series CM2

Boss-cut Style

Boss for the head cover bracket is eliminated and the total length of cylinder is shortened.



Comparison of total cylinder length with standard style (mm)

ø20	ø25	ø32	ø40
▲13	▲13	▲13	▲16

Mounting

- Boss-cut basic (BZ)
- Boss-cut flange (FZ)
- Boss-cut trunnion (UZ)

Mounting Accessories

Accessories	Standard			Option		
	Mounting nut	Rod end nut	Clevis pin	Single knuckle joint	Double knuckle joint (3)	Pivot bracket
Basic	● (1 pc.)	●	—	●	●	—
Axial foot	● (2)	●	—	●	●	—
Front flange	● (1)	●	—	●	●	—
Rear flange	● (1)	●	—	●	●	—
Integrated clevis	—(1)	●	—	●	●	●
Single clevis	—(1)	●	—	●	●	—
Double clevis (3)	—(1)	●	●	●	●	—
Front trunnion	●(1) (2)	●	—	●	●	—
Rear trunnion	●(1) (2)	●	—	●	●	—
Boss-cut basic	● (1)	●	—	●	●	—
Boss-cut flange	● (1)	●	—	●	●	—
Boss-cut trunnion	● (1)	●	—	●	●	—
Note					With pins	With pins

Mounting Bracket

Refer to p.1.4-19 and 1.4-20 for mounting brackets.



Note 1) Mounting nuts are not attached for the integrated clevis, the single clevis, and the double clevis styles.

Note 2) Trunnion nuts are attached for the front trunnion and the rear trunnion styles.

Note 3) Pins and snap rings (cotter pins for bore size 40) are attached for double clevis and the double knuckle joint.

Mounting Bracket Part No.

Bore size mm	20	25	32	40
Axial foot*	CM-L020B	CM-L032B		CM-L040B
Flange	CM-F020B	CM-F032B		CM-F040B
Single clevis	CM-C020B	CM-C032B		CM-C040B
Double clevis** (with pins)	CM-D020B	CM-D032B		CM-D040B
Trunnion (with nuts)	CM-T020B	CM-T032B		CM-T040B

* Two foot brackets and a mounting nut are attached.

** Clevis pins and snap rings (cotter pins for bore size 40) are attached.

Auto Switch Mounting Bracket Part No.

Auto switch model	Bore size (mm)			
	20	25	32	40
D-C7/C8 D-H7□	BM2-020	BM2-025	BM2-032	BM2-040
D-B5/B6 D-G5NTL	BA2-020	BA2-025	BA2-032	BA2-040
D-A3□A/A44A D-G39A/K39A	BM3-020	BM3-025	BM3-032	BM3-040



Note) A set of following stainless steel mounting screws is attached. (A switch mounting band is not attached. Please order the band separately.)

BBA3: D-B5/B6/G5

BBA4: D-C7/C8/H7

· "D-H7BAL" switch is set on the cylinder with the screws above when shipped.

When a switch only is shipped, "BBA4" screws are attached.

Weight

Spring Return

Bore size (mm)		(kg)			
		20	25	32	40
Basic weight	25stroke	0.20	0.30	0.42	0.77
	50stroke	0.22	0.33	0.46	0.84
	75stroke	0.27	0.42	0.58	1.03
	100stroke	0.29	0.45	0.63	1.09
	125stroke	0.35	0.54	0.76	1.29
	150stroke	0.37	0.57	0.80	1.36
	200stroke	—	—	0.97	1.61
	250stroke	—	—	—	1.87
Mounting bracket weight	Axial foot	0.15	0.16	0.16	0.27
	Flange	0.06	0.09	0.09	0.12
	Single clevis	0.04	0.04	0.04	0.09
	Double clevis	0.05	0.06	0.06	0.13
	Trunnion	0.04	0.07	0.07	0.10
	Integrated clevis	-0.02	-0.02	-0.01	-0.04
	Boss-cut basic	-0.01	-0.02	-0.02	-0.03
	Boss-cut flange	0.05	0.07	0.07	0.09
	Boss-cut trunnion	0.03	0.05	0.05	0.07
	Pivot bracket (with pins)	0.07	0.07	0.14	0.14
Accessory	Single knuckle joint	0.06	0.06	0.06	0.23
	Double knuckle joint (with pins)	0.07	0.07	0.07	0.20

Spring Extend

Bore size (mm)		(kg)			
		20	25	32	40
Basic weight	25stroke	0.19	0.29	0.40	0.74
	50stroke	0.21	0.32	0.44	0.81
	75stroke	0.25	0.39	0.54	0.97
	100stroke	0.27	0.42	0.58	1.03
	125stroke	0.32	0.49	0.69	1.20
	150stroke	0.34	0.52	0.73	1.27
	200stroke	—	—	0.88	1.49
	250stroke	—	—	—	1.72
Mounting bracket weight	Axial foot	0.15	0.16	0.16	0.27
	Flange	0.06	0.09	0.09	0.12
	Single clevis	0.04	0.04	0.04	0.09
	Double clevis	0.05	0.06	0.06	0.13
	Trunnion	0.04	0.07	0.07	0.10
	Integrated clevis	-0.02	-0.02	-0.01	-0.04
	Boss-cut basic	-0.01	-0.02	-0.02	-0.03
	Boss-cut flange	0.05	0.07	0.07	0.09
	Boss-cut trunnion	0.03	0.05	0.05	0.07
	Pivot bracket (with pins)	0.07	0.07	0.14	0.14
Accessory	Single knuckle joint	0.06	0.06	0.06	0.23
	Double knuckle joint (with pins)	0.07	0.07	0.07	0.20

- CJ1**
- CJP**
- CJ2**
- CM2**
- C85**
- CG1**
- MB**
- C95**
- CA1**
- CS1**

Calculation Example: CM2L32-100S (Bore size ø32, Foot, 100 stroke)
 0.63 (Basic weight) + 0.16 (Mounting bracket weight) = 0.79kg

Built-in One-touch Fitting



A style in which One-touch fittings are built in the cylinder. It dramatically reduces the piping labor and installation space.



- Construction: Refer to p.1.4-38.
- Dimensions: Refer to p.1.4-39 to 1.4-47.
- Refer to p.1.4-34 for other specifications.

Specifications

Action	Single acting/Spring return	Single acting/Spring extend
Bore size	ø20, ø25, ø32, ø40	
Max. operating pressure	1.0MPa	
Min. operating pressure	0.18MPa	0.23MPa
Cushion	Rubber bumper	
Piping	Built-in One-touch fitting	
Piston speed	50 to 750mm/s	
Mounting	Basic, Axial foot, Front flange, Rear flange, Single clevis, Double clevis, Front trunnion, Rear trunnion, Integrated clevis, Boss-cut	

* Auto switches can be mounted.

Applicable Tube O.D./I.D.

Bore size (mm)	ø20	ø25	ø32	ø40
Applicable tube (mm)	ø6/4	ø6/4	ø6/4	ø8/6
Applicable tube material	Nylon, Soft nylon, Polyurethane			

⚠ Caution

The One-touch fitting cannot be replaced.
 The One-touch fitting is press-fit into the cover and cannot be replaced.

Series CM2

Copper Free

20-CM2 **Mounting** **Bore size** **Stroke** **Action**

• Copper free

This cylinder eliminates any influences of copper ions or fluororesins on color CRTs. Copper materials have been nickel plated or replaced with non-copper materials to prevent the generation of copper ions.

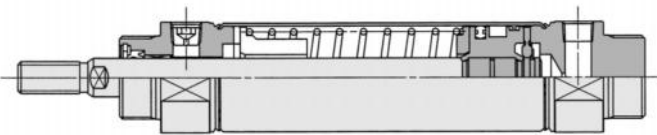


Specifications

Action	Single acting/Spring return	Single acting/Spring extend
Bore size	ø20, ø25, ø32, ø40	
Max. operating pressure	1.0MPa	
Min. operating pressure	0.18MPa	0.23MPa
Cushion	Rubber bumper	
Relief port size	M5 X 0.8	
Piston speed	50 to 750mm/s	
Mounting	Basic, Axial foot, Front flange, Rear flange, Single clevis, Double clevis, Front trunnion, Rear trunnion, Integrated clevis, Boss-cut.	

* Auto switches can be mounted.

Construction



* The above shows the case of single acting/spring return style.

⚠ Precautions

Be sure to read before handling. Refer to p.0-39 to 0-43 for Safety Instructions and common precautions.

Handling

⚠ Warning

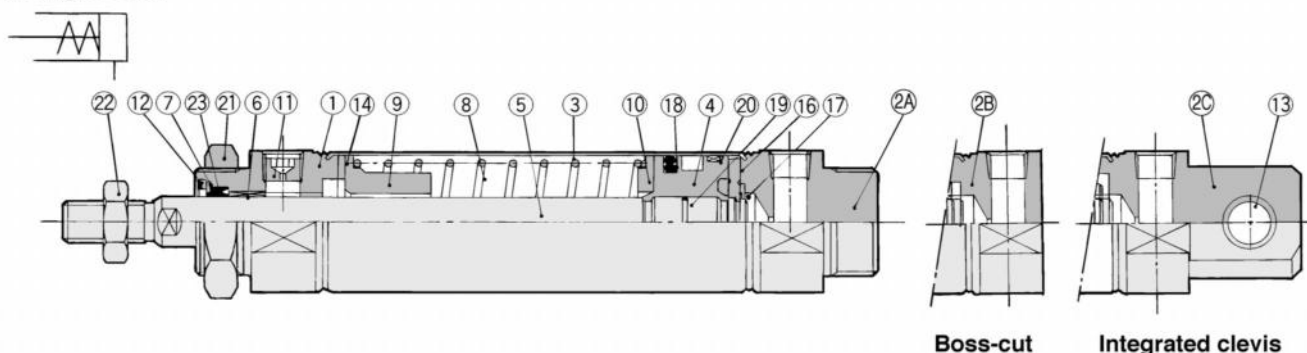
- ① **Do not rotate the cover.**
 - When installing the cylinder or screwing a pipe fitting into the port, the coupling portion of the cover could break if the cover is rotated.

⚠ Caution

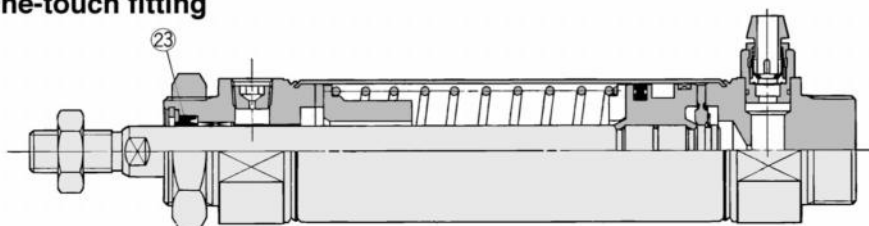
- ① **Be careful with the snap ring that could fly out.**
 - When replacing the rod seal, be careful with the removal of the snap ring, as the snap ring could fly out.
- ② **Do not touch the cylinder during operation.**
 - If the cylinder is operating at a high frequency, be aware that the cylinder tube surface could become very hot, creating the risk of burns.
 - If the cylinder is operating at a high frequency, be aware that the cylinder tube surface could become very hot, creating the risk of burns.
- ③ **The One-Touch fitting cannot be replaced.**
 - The One-Touch fitting is press-fit into the cover and cannot be replaced.

Construction

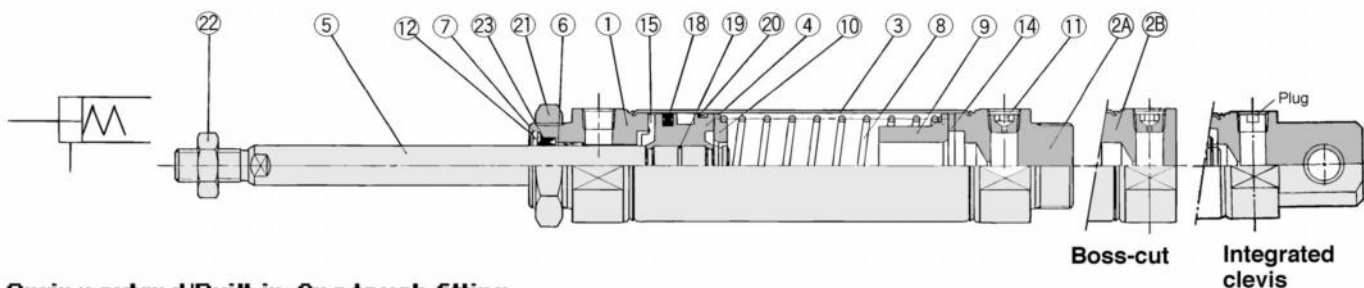
Spring return



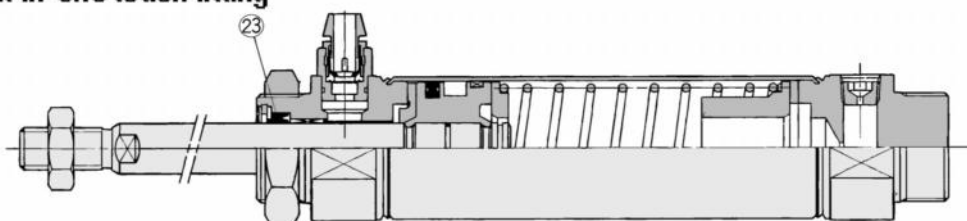
Spring return/Built-in One-touch fitting



Spring extend



Spring extend/Built-in One-touch fitting



- CJ1
- CJP
- CJ2
- CM2**
- C85
- CG1
- MB
- C95
- CA1
- CS1

Component Parts

No.	Description	Material	Note
①	Rod cover	Aluminum alloy	White anodized
②A	Head cover A	Aluminum alloy	White anodized(Standard style)
②B	Head cover B	Aluminum alloy	White anodized(Boss-cut style)
②C	Head cover C	Aluminum alloy	White anodized(Integrated clevis style)
③	Cylinder tube	Stainless steel	
④	Piston	Aluminum alloy	Chromated
⑤	Piston rod	Carbon steel	Hard chrome plated
⑥	Bushing	Oil impregnated sintered alloy	
⑦	Seal retainer	Rolled steel	Nickel plated
⑧	Return spring	Steel wire	Zinc chromated
⑨	Spring guide	Aluminum alloy	Chromated
⑩	Spring sead	Aluminum alloy	Chromated
⑪	Plug with needle	Alloy steel	Black zinc chromated
⑫	Snap ring	Carbon steel	Nickel plated

No.	Description	Material	Note
⑬	Bush for clevis	Oil impregnated sintered alloy	
⑭	Bumper	Urethane	
⑮	Bumper A	Urethane	
⑯	Bumper B	Urethane	
⑰	Snap ring	Stainless steel	
⑱	Piston seal	NBR	
⑲	Piston gasket	NBR	
⑳	Wearing	Resin	
㉑	Mounting nut	Carbon steel	Nickel plated
㉒	Rod end nut	Carbon steel	Nickel plated

Replacement Parts

• With rubber bumper/Built-in One-touch fitting

No.	Description	Material	Bore size(mm)/Part No.			
			20	25	32	40
㉓	Rod seal	NBR	PDU-8Z	PDU-10Z	PDU-12LZ	PDU-14LZ

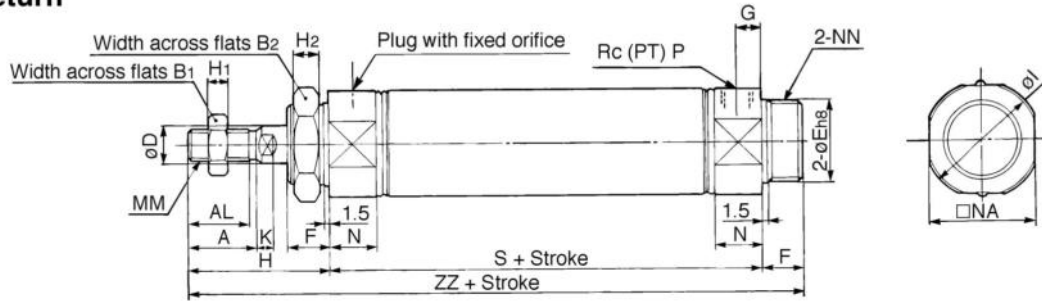
Series CM2

Basic (B)

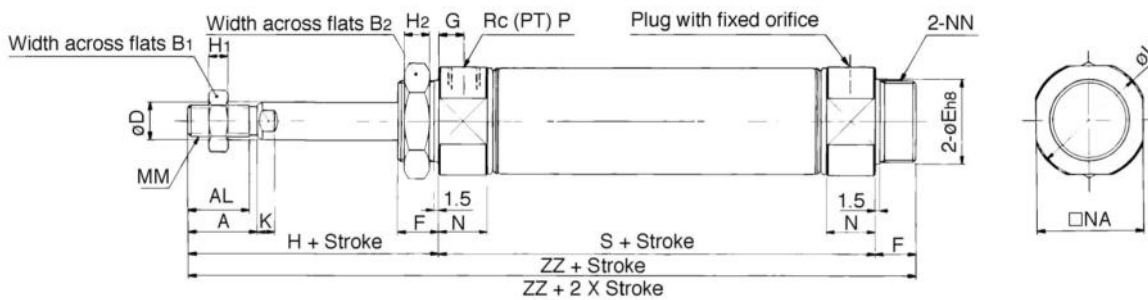


CM2B $\frac{S}{T}$

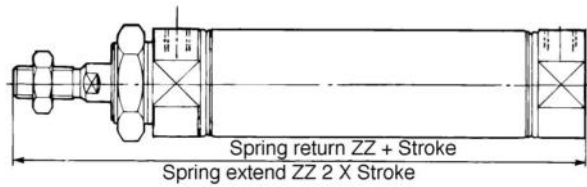
Spring return



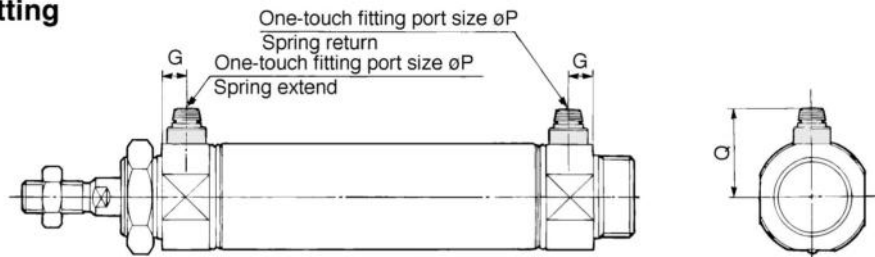
Spring extend



Boss-cut style



Built-in One-touch fitting



Bore	A	AL	B1	B2	D	E	F	G	H	H1	H2	I	K	MM	N	NA	NN	P
20	18	15.5	13	26	8	20 ⁰ _{-0.033}	13	8	41	5	8	28	5	M8 X 1.25	15	24	M20 X 1.5	1/8
25	22	19.5	17	32	10	26 ⁰ _{-0.033}	13	8	45	6	8	33.5	5.5	M10 X 1.25	15	30	M26 X 1.5	1/8
32	22	19.5	17	32	12	26 ⁰ _{-0.033}	13	8	45	6	8	37.5	5.5	M10 X 1.25	15	34.5	M26 X 1.5	1/8
40	24	21	22	41	14	32 ⁰ _{-0.039}	16	11	50	8	10	46.5	7	M14 X 1.5	21.5	42.5	M32 X 2	1/4

Dimensions by stroke

Stroke Symbol	(mm)									
	1 to 50		51 to 100		101 to 150		151 to 200		201 to 250	
Bore	S	ZZ	S	ZZ	S	ZZ	S	ZZ	S	ZZ
20	87	141	112	166	137	191	—	—	—	—
25	87	145	112	170	137	195	—	—	—	—
32	89	147	114	172	139	197	164	222	—	—
40	113	179	138	204	163	229	188	254	213	279

Boss-cut style

Stroke Symbol	(mm)					
	1 to 50		51 to 100		101 to 150	
Bore	ZZ	ZZ	ZZ	ZZ	ZZ	ZZ
20	128	153	178	—	—	—
25	132	157	182	—	—	—
32	134	159	184	209	—	—
40	163	188	213	238	263	—

Built-in One-touch fitting

Bore	G	P	Q
20	8	6	23
25	8	6	26
32	8	6	28.5
40	11	8	32.5



Spring return Basic	Built-in One-touch fitting	Spring extend Basic	Built-in One-touch fitting
CM2B20.....SCM220A, #11	SCM220A, #11, #19	CM2B20.....SCM220A, #12	SCM220A, #12, #19
CM2B25.....SCM225A, #11	SCM225A, #11, #19	CM2B25.....SCM225A, #12	SCM225A, #12, #19
CM2B32.....SCM232A, #11	SCM232A, #11, #19	CM2B32.....SCM232A, #12	SCM232A, #12, #19
CM2B40.....SCM240A, #11	SCM240A, #11, #19	CM2B40.....SCM240A, #12	SCM240A, #12, #19

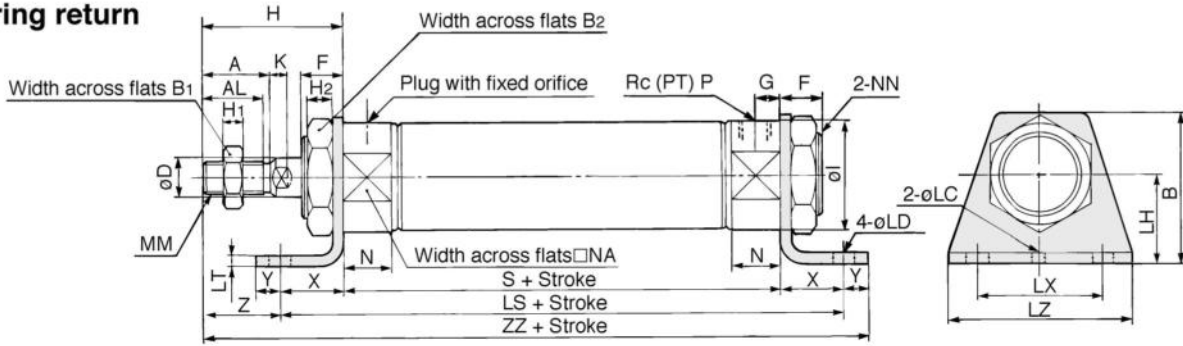
Standard: Single Acting Spring Return/Extend **Series CM2**

Axial Foot (L)

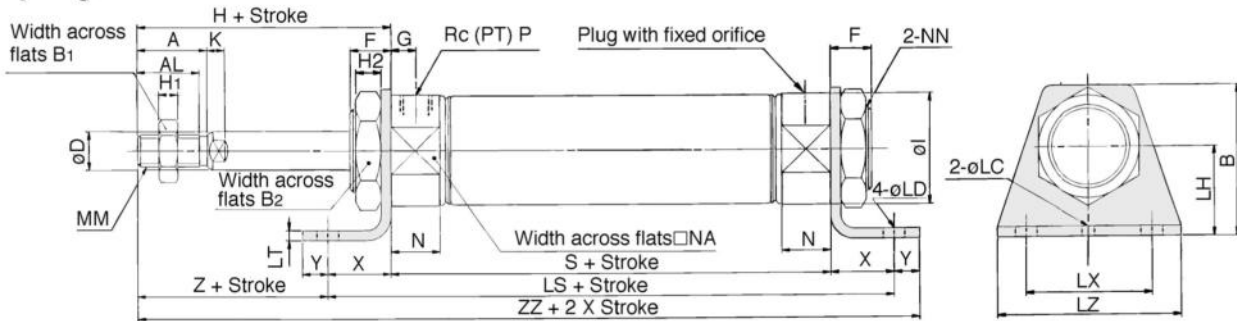


CM2L Bore size — Stroke $\frac{S}{T}$

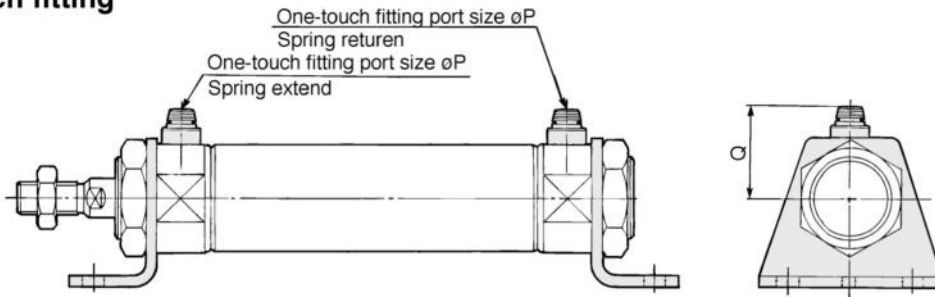
Spring return



Spring extend



Built-in One-touch fitting



Bore	A	AL	B	B1	B2	D	F	G	H	H1	H2	I	K	LC	LD	LH	LT	LX	LZ	MM	N	NA	NN	P	X	Y	Z
20	18	15.5	40	13	26	8	13	8	41	5	8	28	5	4	6.8	25	3.2	40	55	M8 X 1.25	15	24	M20 X 1.5	1/8	20	8	21
25	22	19.5	47	17	32	10	13	8	45	6	8	33.5	5.5	4	6.8	28	3.2	40	55	M10 X 1.25	15	30	M26 X 1.5	1/8	20	8	25
32	22	19.5	47	17	32	12	13	8	45	6	8	37.5	5.5	4	6.8	28	3.2	40	55	M10 X 1.25	15	34.5	M26 X 1.5	1/8	20	8	25
40	24	21	54	22	41	14	16	11	50	8	10	46.5	7	4	7	30	3.2	55	75	M14 X 1.5	21.5	42.5	M32 X 2	1/4	23	10	27

Dimensions by stroke

Stroke Symbol	(mm)														
	1 to 50			51 to 100			101 to 150			151 to 200			201 to 250		
Bore	LS	S	ZZ	LS	S	ZZ	LS	S	ZZ	LS	S	ZZ	LS	S	ZZ
20	127	87	156	152	112	181	177	137	206	—	—	—	—	—	—
25	127	87	160	152	112	185	177	137	210	—	—	—	—	—	—
32	129	89	162	154	114	187	179	139	212	204	164	237	—	—	—
40	159	113	196	184	138	221	209	163	246	234	188	271	259	213	296

Built-in One-touch fitting

Bore	P	Q
20	6	23
25	6	26
32	6	28.5
40	8	32.5

Spring return Basic	Foot	Built-in One-touch fitting	Spring extend Basic	Foot	Built-in One-touch fitting
CM2L20.....SCM220A, #11	SCM220A, #11, #3	SCM220A, #11, #3, #19	CM2L20.....SCM220A, #12	SCM220A, #12, #3	SCM220A, #12, #3, #19
CM2L25.....SCM225A, #11	SCM225A, #11, #3	SCM225A, #11, #3, #19	CM2L25.....SCM225A, #12	SCM225A, #12, #3	SCM225A, #12, #3, #19
CM2L32.....SCM232A, #11	SCM232A, #11, #3	SCM232A, #11, #3, #19	CM2L32.....SCM232A, #12	SCM232A, #12, #3	SCM232A, #12, #3, #19
CM2L40.....SCM240A, #11	SCM240A, #11, #3	SCM240A, #11, #3, #19	CM2L40.....SCM240A, #12	SCM240A, #12, #3	SCM240A, #12, #3, #19

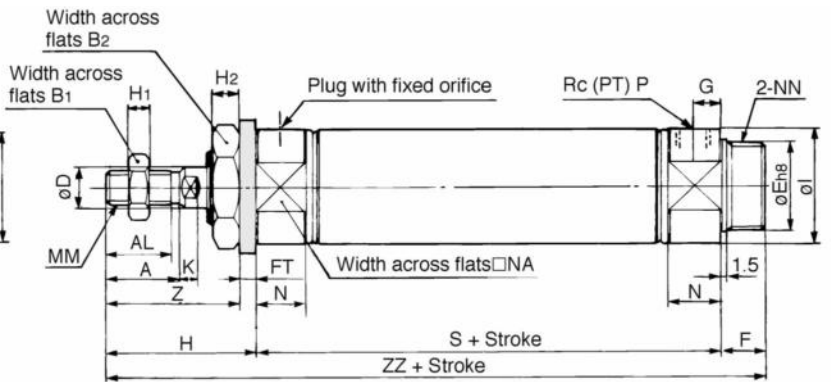
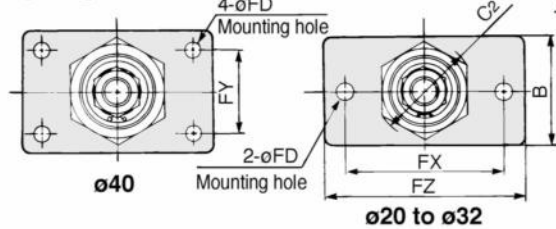
Series CM2

Front Flange (F)

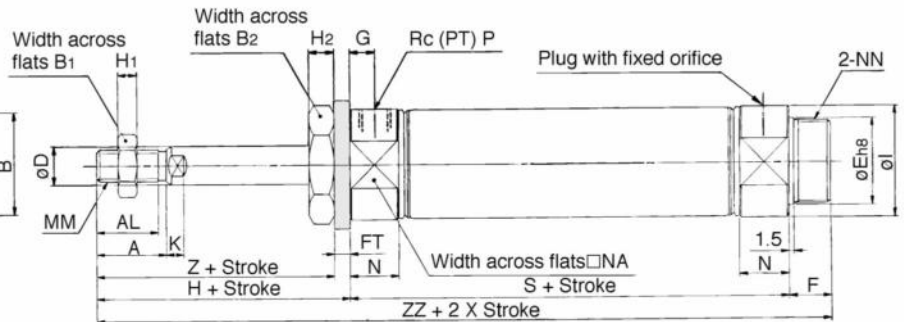
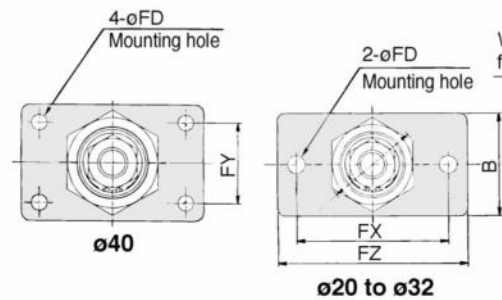


CM2F Bore size — Stroke $\begin{matrix} S \\ T \end{matrix}$

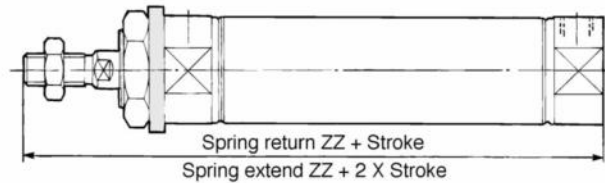
Spring return



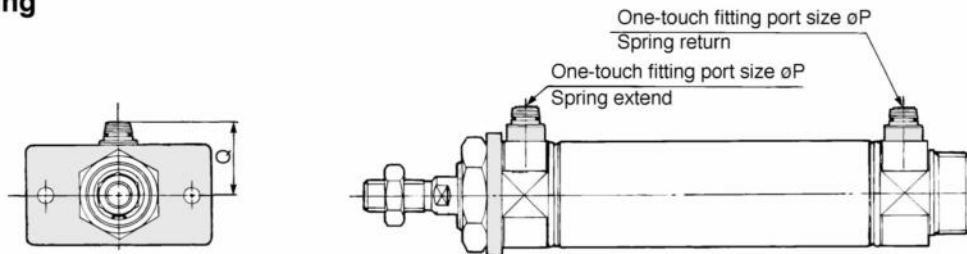
Spring extend



Boss-cut



Built-in One-touch fitting



Bore	A	AL	B	B1	B2	C2	D	E	F	FD	FT	FX	FY	FZ	G	H	H1	H2	I	K	MM	N	NA	NN	P	Z
20	18	15.5	34	13	26	30	8	20 ⁰ _{-0.033}	13	7	4	60	—	75	8	41	5	8	28	5	M8 X 1.25	15	24	M20 X 1.5	1/8	37
25	22	19.5	40	17	32	37	10	26 ⁰ _{-0.033}	13	7	4	60	—	75	8	45	6	8	33.5	5.5	M10 X 1.25	15	30	M26 X 1.5	1/8	41
32	22	19.5	40	17	32	37	12	26 ⁰ _{-0.033}	13	7	4	60	—	75	8	45	6	8	37.5	5.5	M10 X 1.25	15	34.5	M26 X 1.5	1/8	41
40	24	21	52	22	41	47.3	14	32 ⁰ _{-0.039}	16	7	5	66	36	82	11	50	8	10	46.5	7	M14 X 1.5	21.5	42.5	M32 X 2	1/4	45

Dimensions by stroke

Bore	Stroke Symbol	Stroke (mm)																								
		1 to 50	51 to 100	101 to 150	151 to 200	201 to 250	ZZ	ZZ	ZZ	ZZ	ZZ															
20	S	87	141	112	166	137	191	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	S	87	145	112	170	137	195	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32	S	89	147	114	172	139	197	164	222	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	S	113	179	138	204	163	229	188	254	213	279	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Boss-cut

Bore	Stroke Symbol	Stroke (mm)				
		1 to 50	51 to 100	101 to 150	151 to 200	201 to 250
20	ZZ	128	153	178	—	—
25	ZZ	132	157	182	—	—
32	ZZ	134	159	184	209	—
40	ZZ	163	188	213	238	263

Built-in One-touch fitting

Bore	P	Q
20	6	23
25	6	26
32	6	28.5
40	8	32.5



Spring return Basic
 CM2F20.....SCM220A, #11
 CM2F25.....SCM225A, #11
 CM2F32.....SCM232A, #11
 CM2F40.....SCM240A, #11

Spring extend Basic
 CM2F20.....SCM220A, #12
 CM2F25.....SCM225A, #12
 CM2F32.....SCM232A, #12
 CM2F40.....SCM240A, #12

Front flange
 SCM220A, #11, #4
 SCM225A, #11, #4
 SCM232A, #11, #4
 SCM240A, #11, #4

Front flange
 SCM220A, #12, #4
 SCM225A, #12, #4
 SCM232A, #12, #4
 SCM240A, #12, #4

Built-in One-touch fitting
 SCM220A, #11, #4, #19
 SCM225A, #11, #4, #19
 SCM232A, #11, #4, #19
 SCM240A, #11, #4, #19

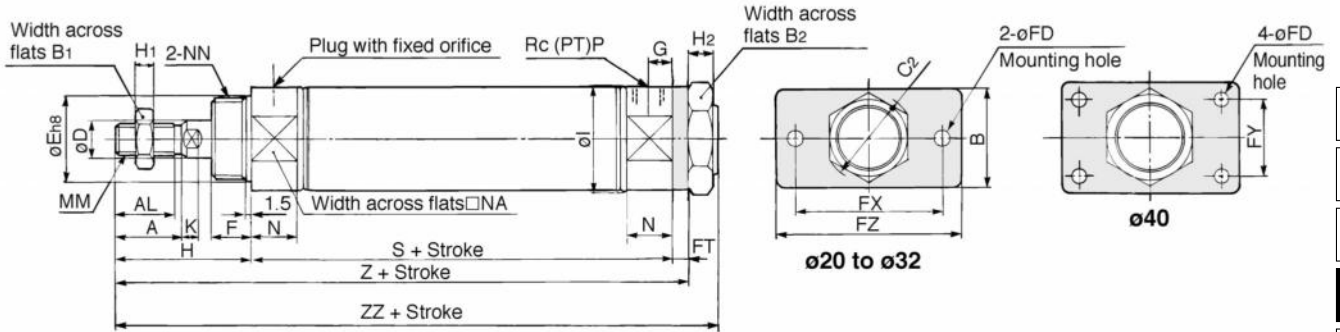
Built-in One-touch fitting
 SCM220A, #12, #4, #19
 SCM225A, #12, #4, #19
 SCM232A, #12, #4, #19
 SCM240A, #12, #4, #19

Standard: Single Acting Spring Return/Extend **Series CM2**

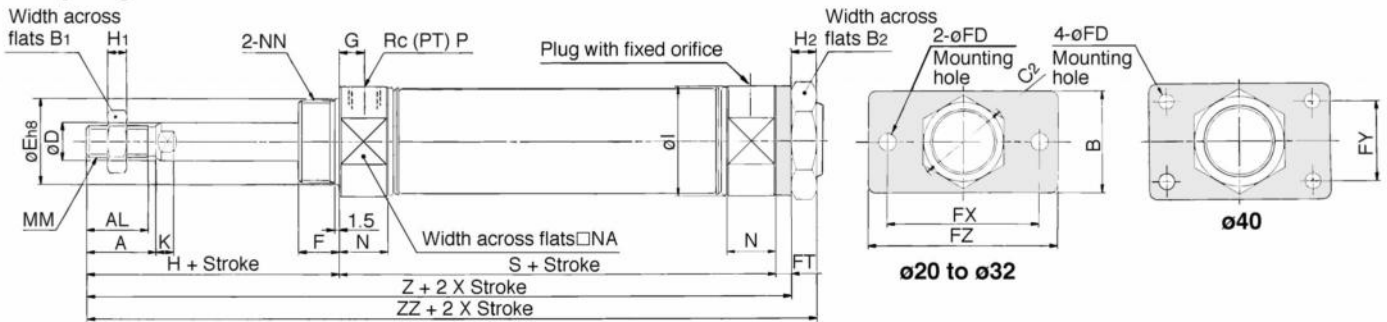
Rear Flange (G)

CM2G ^S/_T

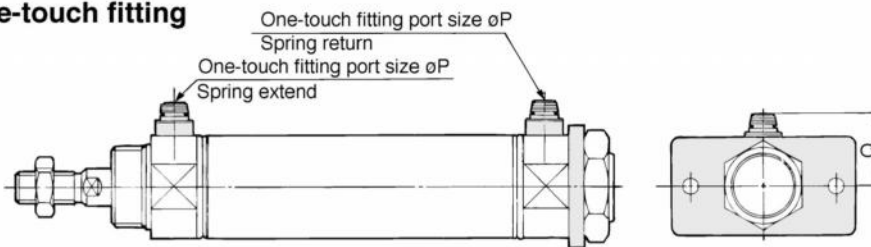
Spring return



Spring extend



Built-in One-touch fitting



(mm)

Bore	A	AL	B	B1	B2	C2	D	E	F	FD	FT	FX	FY	FZ	G	H	H1	H2	I	K	MM	N	NA	NN	P
20	18	15.5	34	13	26	30	8	20 ⁰ _{-0.033}	13	7	4	60	—	75	8	41	5	8	28	5	M8 X 1.25	15	24	M20 X 1.5	1/8
25	22	19.5	40	17	32	37	10	26 ⁰ _{-0.033}	13	7	4	60	—	75	8	45	6	8	33.5	5.5	M10 X 1.25	15	30	M26 X 1.5	1/8
32	22	19.5	40	17	32	37	12	26 ⁰ _{-0.033}	13	7	4	60	—	75	8	45	6	8	37.5	5.5	M10 X 1.25	15	34.5	M26 X 1.5	1/8
40	24	21	52	22	41	47.3	14	32 ⁰ _{-0.039}	16	7	5	66	36	82	11	50	8	10	46.5	7	M14 X 1.5	21.5	42.5	M32 X 2	1/4

Dimensions by stroke

(mm)

Bore	Stroke Symbol			Stroke Symbol			Stroke Symbol			Stroke Symbol			Stroke Symbol		
	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ
20	87	132	141	112	157	166	137	182	191	—	—	—	—	—	—
25	87	136	145	112	161	170	137	186	195	—	—	—	—	—	—
32	89	138	147	114	163	172	139	188	197	164	213	222	—	—	—
40	113	168	179	138	193	204	163	218	229	188	243	254	213	268	279

Built-in One-touch fitting

Bore	P	Q
20	6	23
25	6	26
32	6	28.5
40	8	32.5

Spring return	Basic	Rear flange	Built-in One-touch fitting	Spring extend	Basic	Rear flange	Built-in One-touch fitting
CM2G20.....	SCM220A, #11	SCM220A, #11, #5	SCM220A, #11, #5, #19	CM2G20.....	SCM220A, #12	SCM220A, #12, #5	SCM220A, #12, #5, #19
CM2G25.....	SCM225A, #11	SCM225A, #11, #5	SCM225A, #11, #5, #19	CM2G25.....	SCM225A, #12	SCM225A, #12, #5	SCM225A, #12, #5, #19
CM2G32.....	SCM232A, #11	SCM232A, #11, #5	SCM232A, #11, #5, #19	CM2G32.....	SCM232A, #12	SCM232A, #12, #5	SCM232A, #12, #5, #19
CM2G40.....	SCM240A, #11	SCM240A, #11, #5	SCM240A, #11, #5, #19	CM2G40.....	SCM240A, #12	SCM240A, #12, #5	SCM240A, #12, #5, #19

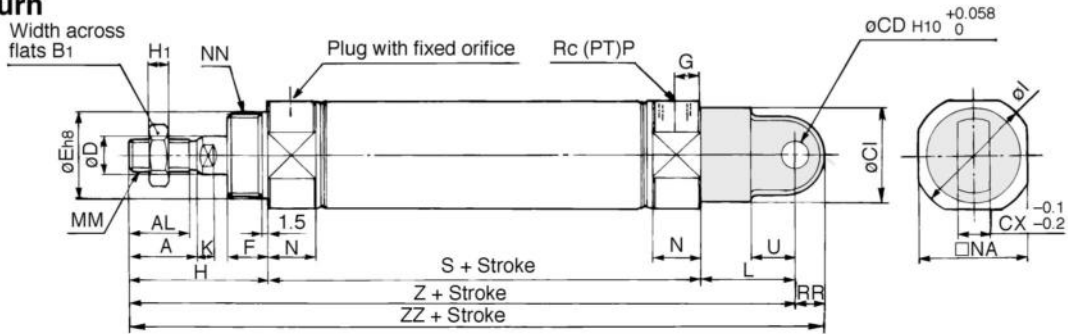
Series CM2

Single Clevis (C)

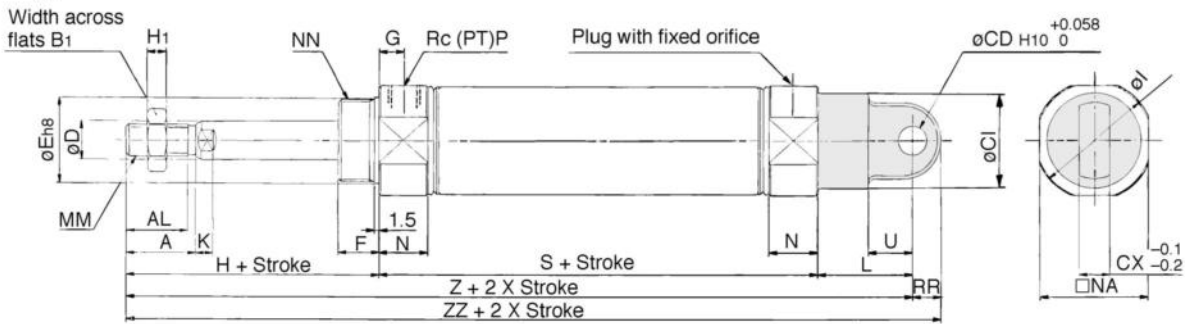


CM2C Bore size Stroke $\frac{S}{T}$

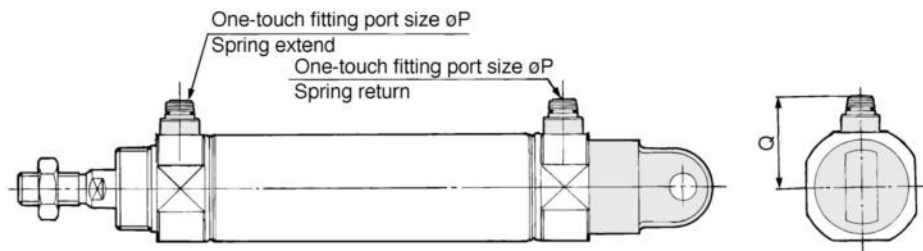
Spring return



Spring extend



Built-in One-touch fitting



Bore	A	AL	B1	CD	CI	CX	D	E	F	G	H	H1	I	K	L	MM	N	NA	NN	P	RR	U
20	18	15.5	13	9	24	10	8	20 ⁰ _{-0.033}	13	8	41	5	28	5	30	M8 X 1.25	15	24	M20 X 1.5	1/8	9	14
25	22	19.5	17	9	30	10	10	26 ⁰ _{-0.033}	13	8	45	6	33.5	5.5	30	M10 X 1.25	15	30	M26 X 1.5	1/8	9	14
32	22	19.5	17	9	30	10	12	26 ⁰ _{-0.033}	13	8	45	6	37.5	5.5	30	M10 X 1.25	15	34.5	M26 X 1.5	1/8	9	14
40	24	21	22	10	38	15	14	32 ⁰ _{-0.039}	16	11	50	8	46.5	7	39	M14 X 1.5	21.5	42.5	M32 X 2	1/4	11	18

Dimensions by stroke

Bore	Stroke						Stroke						Stroke		
	1 to 50			51 to 100			101 to 150			151 to 200			201 to 250		
Symbol	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ
20	87	158	167	112	183	192	137	208	217	—	—	—	—	—	—
25	87	162	171	112	187	196	137	212	221	—	—	—	—	—	—
32	89	164	173	114	189	198	139	214	223	164	239	248	—	—	—
40	113	202	213	138	227	238	163	252	263	188	277	288	213	302	313

Built-in One-touch fitting

Bore	P	Q
20	6	23
25	6	26
32	6	28.5
40	8	32.5

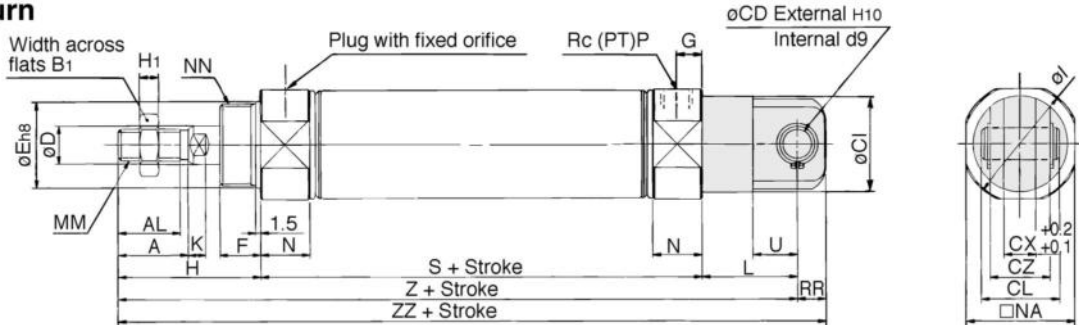
Spring return	Basic	Single clevis	Built-in One-touch fitting	Spring extend	Basic	Single clevis	Built-in One-touch fitting
CM2C20.....SCM220A, #11	SCM220A, #11, #6	SCM220A, #11, #6, #19	SCM220A, #11, #6, #19	CM2C20.....SCM220A, #12	SCM220A, #12, #6	SCM220A, #12, #6, #19	SCM220A, #12, #6, #19
CM2C25.....SCM225A, #11	SCM225A, #11, #6	SCM225A, #11, #6, #19	SCM225A, #11, #6, #19	CM2C25.....SCM225A, #12	SCM225A, #12, #6	SCM225A, #12, #6, #19	SCM225A, #12, #6, #19
CM2C32.....SCM232A, #11	SCM232A, #11, #6	SCM232A, #11, #6, #19	SCM232A, #11, #6, #19	CM2C32.....SCM232A, #12	SCM232A, #12, #6	SCM232A, #12, #6, #19	SCM232A, #12, #6, #19
CM2C40.....SCM240A, #11	SCM240A, #11, #6	SCM240A, #11, #6, #19	SCM240A, #11, #6, #19	CM2C40.....SCM240A, #12	SCM240A, #12, #6	SCM240A, #12, #6, #19	SCM240A, #12, #6, #19

Standard: Single Acting Spring Return/Extend **Series CM2**

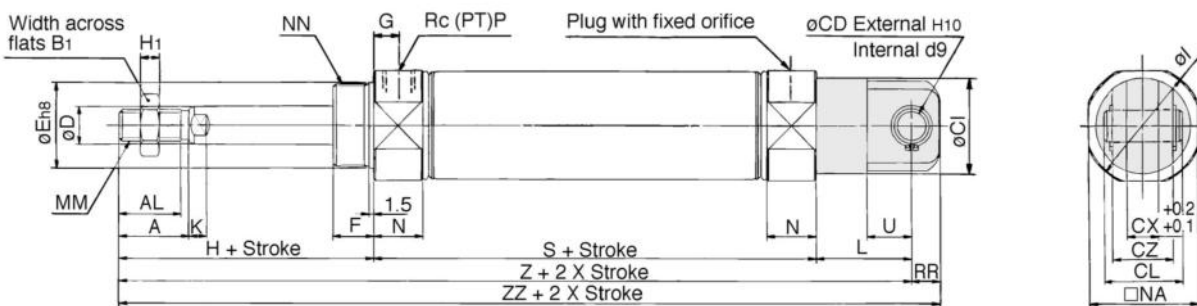
Double Clevis (D)

CM2D Bore size — Stroke $\frac{S}{T}$

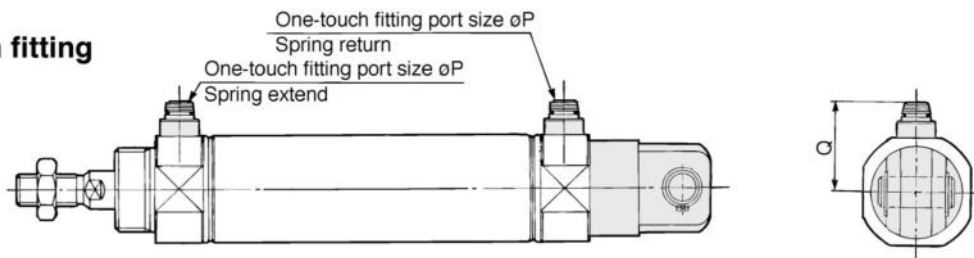
Spring return



Spring extend



Built-in One-touch fitting



Bore	A	AL	B1	CD	CI	CL	CX	CZ	D	E	F	G	H	H1	I	K	L	MM	N	NA	NN	P	RR	U
20	18	15.5	13	9	24	25	10	19	8	20 ⁰ _{-0.033}	13	8	41	5	28	5	30	M8 X 1.25	15	24	M20 X 1.5	1/8	9	14
25	22	19.5	17	9	30	25	10	19	10	26 ⁰ _{-0.033}	13	8	45	6	33.5	5.5	30	M10 X 1.25	15	30	M26 X 1.5	1/8	9	14
32	22	19.5	17	9	30	25	10	19	12	26 ⁰ _{-0.033}	13	8	45	6	37.5	5.5	30	M10 X 1.25	15	34.5	M26 X 1.5	1/8	9	14
40	24	21	22	10	38	41.2	15	30	14	32 ⁰ _{-0.039}	16	11	50	8	46.5	7	39	M14 X 1.5	21.5	42.5	M32 X 2	1/4	11	18

Dimensions by stroke * Clevis pins and snap rings (cotter pins for bore size 40) are attached. (mm)

Bore	Stroke		1 to 50			51 to 100			101 to 150			151 to 200			201 to 250		
	Symbol	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	
20		87	158	167	112	183	192	137	208	217	—	—	—	—	—	—	
25		87	162	171	112	187	196	137	212	221	—	—	—	—	—	—	
32		89	164	173	114	189	198	139	214	223	164	239	248	—	—	—	
40		113	202	213	138	227	238	163	252	263	188	277	288	213	302	313	

Built-in One-touch fitting

Bore	P	Q
20	6	23
25	6	26
32	6	28.5
40	8	32.5

Spring return	Basic	Double clevis	Built-in One-touch fitting	Spring extend	Basic	Double clevis	Built-in One-touch fitting
CM2D20.....	SCM220A, #11	SCM220A, #11, #7	SCM220A, #11, #7, #19	CM2D20.....	SCM220A, #12	SCM220A, #12, #7	SCM220A, #12, #7, #19
CM2D25.....	SCM225A, #11	SCM225A, #11, #7	SCM225A, #11, #7, #19	CM2D25.....	SCM225A, #12	SCM225A, #12, #7	SCM225A, #12, #7, #19
CM2D32.....	SCM232A, #11	SCM232A, #11, #7	SCM232A, #11, #7, #19	CM2D32.....	SCM232A, #12	SCM232A, #12, #7	SCM232A, #12, #7, #19
CM2D40.....	SCM240A, #11	SCM240A, #11, #7	SCM240A, #11, #7, #19	CM2D40.....	SCM240A, #12	SCM240A, #12, #7	SCM240A, #12, #7, #19

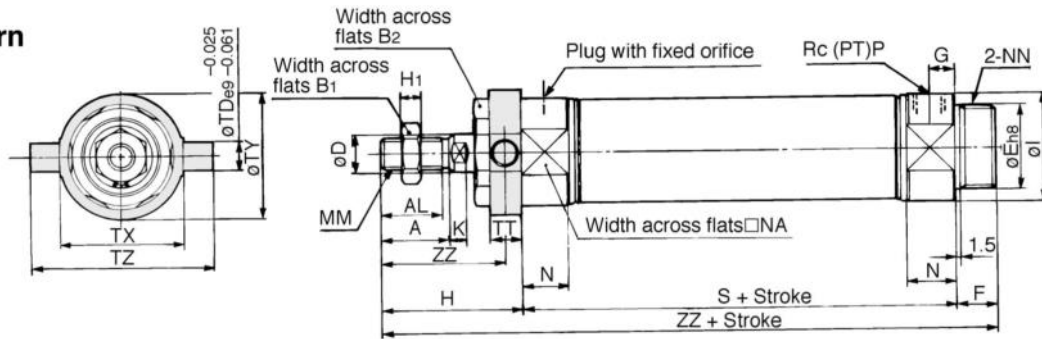
Series CM2

Front Trunnion (U)

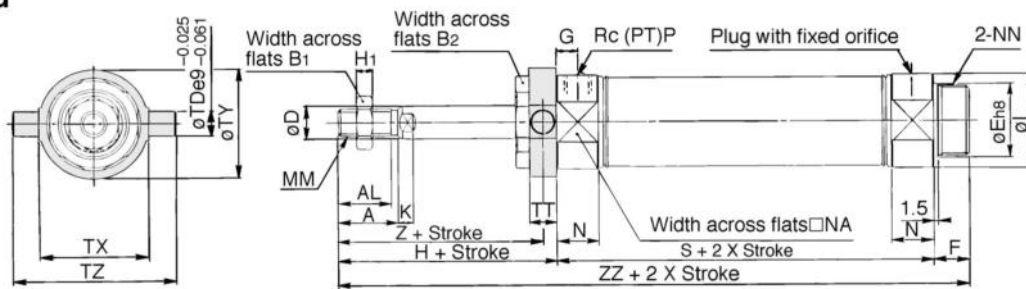


CM2U Bore size Stroke S T

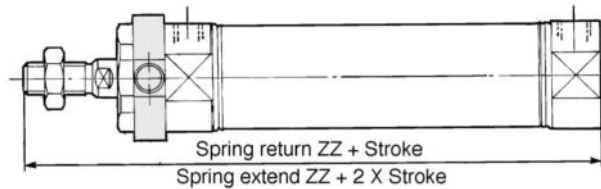
Spring return



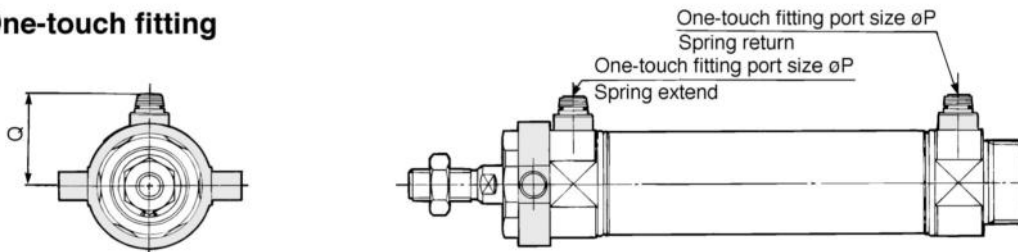
Spring extend



Boss-cut style



Built-in One-touch fitting



Bore	A	AL	B1	B2	D	E	F	G	H	H1	I	K	MM	N	NA	NN	P	TD	TT	TX	TY	TZ	Z
20	18	15.5	13	26	8	20 ⁰ _{-0.033}	13	8	41	5	28	5	M8 X 1.25	15	24	M20 X 1.5	1/8	8	10	32	32	52	36
25	22	19.5	17	32	10	26 ⁰ _{-0.033}	13	8	45	6	33.5	5.5	M10 X 1.25	15	30	M26 X 1.5	1/8	9	10	40	40	60	40
32	22	19.5	17	32	12	26 ⁰ _{-0.033}	13	8	45	6	37.5	5.5	M10 X 1.25	15	34.5	M26 X 1.5	1/8	9	10	40	40	60	40
40	24	21	22	41	14	32 ⁰ _{-0.039}	16	11	50	8	46.5	7	M14 X 1.5	21.5	42.5	M32 X 2	1/4	10	11	53	53	77	44.5

Dimensions by stroke

Stroke Symbol	(mm)												
	1 to 50	51 to 100	101 to 150	151 to 200	201 to 250	S		ZZ		S		ZZ	
20	87	141	112	166	137	191	—	—	—	—	—	—	—
25	87	145	112	170	137	195	—	—	—	—	—	—	—
32	89	147	114	172	139	197	164	222	—	—	—	—	—
40	113	179	138	204	163	229	188	254	213	279	—	—	—

Boss-cut

Stroke Symbol	(mm)				
	1 to 50	51 to 100	101 to 150	151 to 200	201 to 250
20	128	153	178	—	—
25	132	157	182	—	—
32	134	159	184	209	—
40	163	188	213	238	263

Built-in One-touch fitting

Bore	P	Q
20	6	23
25	6	26
32	6	28.5
40	8	32.5

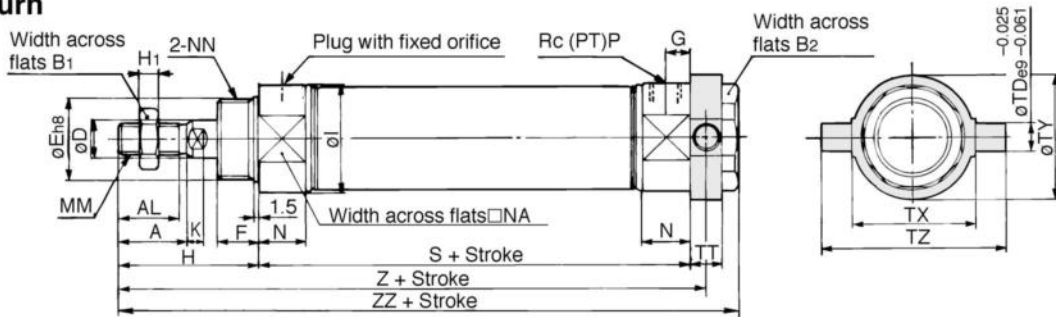
Spring return Basic	Front trunnion	Built-in One-touch fitting	Spring extend Basic	Front trunnion	Built-in One-touch fitting
CM2U20.....SCM220A, #11	SCM220A, #11, #8	SCM220A, #11, #8, #19	CM2U20.....SCM220A, #12	SCM220A, #12, #8	SCM220A, #12, #8, #19
CM2U25.....SCM225A, #11	SCM225A, #11, #8	SCM225A, #11, #8, #19	CM2U25.....SCM225A, #12	SCM225A, #12, #8	SCM225A, #12, #8, #19
CM2U32.....SCM232A, #11	SCM232A, #11, #8	SCM232A, #11, #8, #19	CM2U32.....SCM232A, #12	SCM232A, #12, #8	SCM232A, #12, #8, #19
CM2U40.....SCM240A, #11	SCM240A, #11, #8	SCM240A, #11, #8, #19	CM2U40.....SCM240A, #12	SCM240A, #12, #8	SCM240A, #12, #8, #19

Standard: Single Acting Spring Return/Extend *Series CM2*

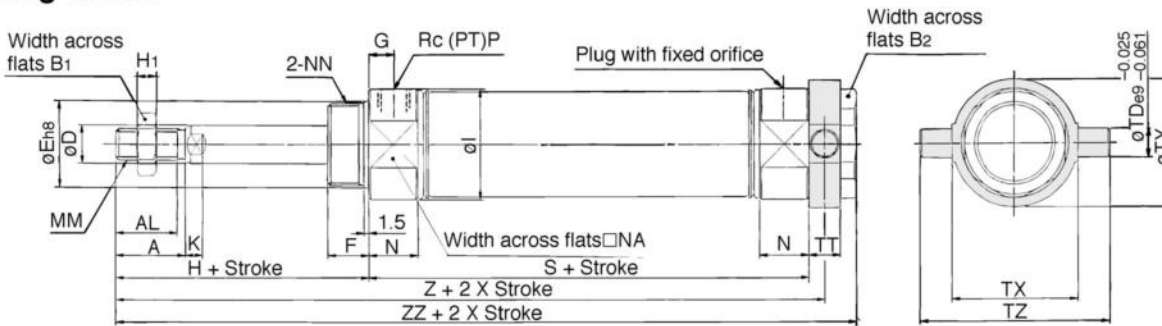
Rear Trunnion (T) 

CM2T

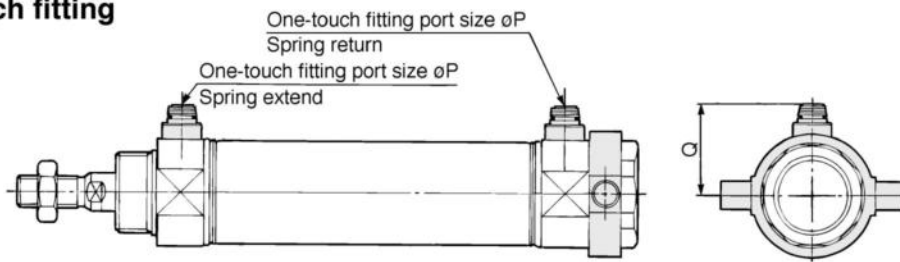
Spring return



Spring extend



Built-in One-touch fitting



- CJ1
- CJP
- CJ2
- CM2**
- C85
- CG1
- MB
- C95
- CA1
- CS1

Bore	A	AL	B ₁	B ₂	D	E	F	G	H	H ₁	I	K	MM	N	NA	NN	P	TD	TT	TX	TY	TZ
20	18	15.5	13	26	8	20 ⁰ _{-0.033}	13	8	41	5	28	5	M8 X 1.25	15	24	M20 X 1.5	1/8	8	10	32	32	52
25	22	19.5	17	32	10	26 ⁰ _{-0.033}	13	8	45	6	33.5	5.5	M10 X 1.25	15	30	M26 X 1.5	1/8	9	10	40	40	60
32	22	19.5	17	32	12	26 ⁰ _{-0.033}	13	8	45	6	37.5	5.5	M10 X 1.25	15	34.5	M26 X 1.5	1/8	9	10	40	40	60
40	24	21	22	41	14	32 ⁰ _{-0.039}	16	11	50	8	46.5	7	M14 X 1.5	21.5	42.5	M32 X 2	1/4	10	11	53	53	77

Dimensions by stroke

Stroke Symbol	1 to 50		51 to 100			101 to 150			151 to 200			201 to 250			
	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ
20	87	133	143	112	158	168	137	183	193	—	—	—	—	—	—
25	87	137	147	112	162	172	137	187	197	—	—	—	—	—	—
32	89	139	149	114	164	174	139	189	199	164	214	224	—	—	—
40	113	168.5	179	138	193.5	204	163	218.5	229	188	243.5	254	213	268.5	279

Built-in One-touch fitting

Bore	P	Q
20	6	23
25	6	26
32	6	28.5
40	8	32.5

Spring return	Basic	Rear trunnion	Built-in One-touch fitting	Spring extend	Basic	Rear trunnion	Built-in One-touch fitting
CM2T20.....	SCM220A, #11	SCM220A, #11, #9	SCM220A, #11, #9, #19	CM2T20.....	SCM220A, #12	SCM220A, #12, #9	SCM220A, #12, #9, #19
CM2T25.....	SCM225A, #11	SCM225A, #11, #9	SCM225A, #11, #9, #19	CM2T25.....	SCM225A, #12	SCM225A, #12, #9	SCM225A, #12, #9, #19
CM2T32.....	SCM232A, #11	SCM232A, #11, #9	SCM232A, #11, #9, #19	CM2T32.....	SCM232A, #12	SCM232A, #12, #9	SCM232A, #12, #9, #19
CM2T40.....	SCM240A, #11	SCM240A, #11, #9	SCM240A, #11, #9, #19	CM2T40.....	SCM240A, #12	SCM240A, #12, #9	SCM240A, #12, #9, #19

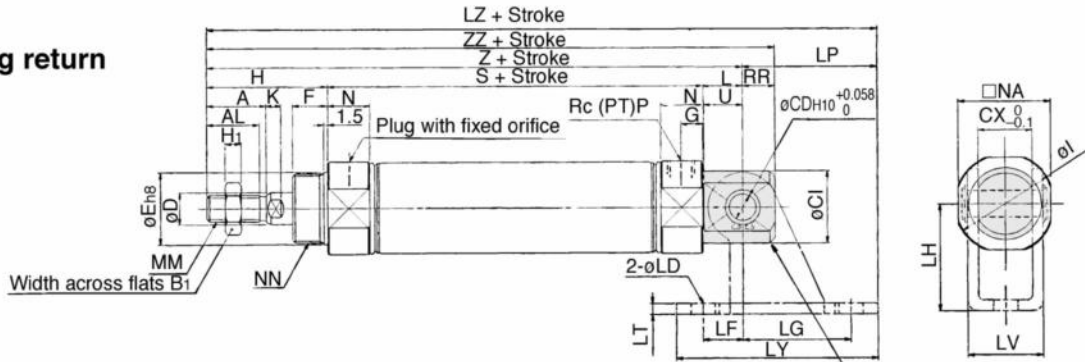
Series CM2

Integrated Clevis (E)

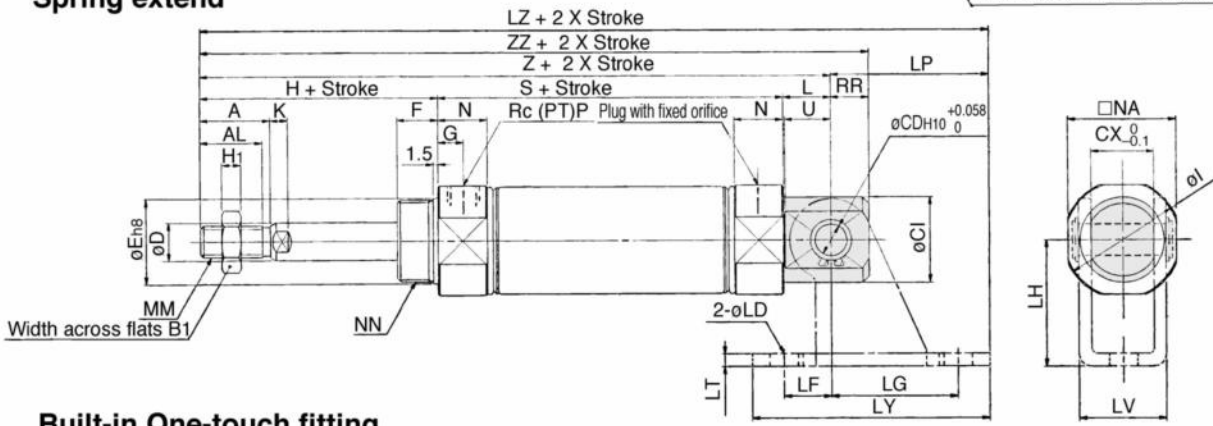


CM2E Bore size Stroke $\frac{S}{T}$

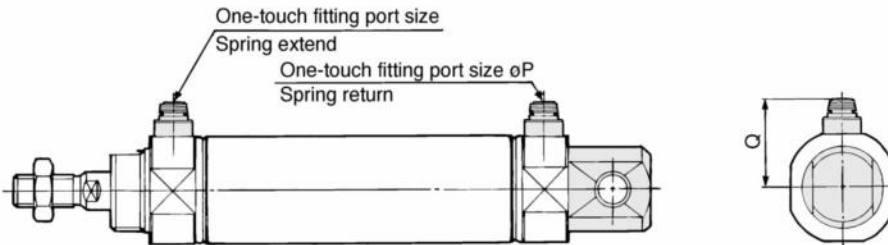
Spring return



Spring extend



Built-in One-touch fitting



Bore	A	AL	B ₁	CD	CI	CX	D	E	F	G	H	H ₁	I	K	L	MM	N	NA	NN	P	PR	U
20	18	15.5	13	8	20	12	8	20 ⁰ _{-0.033}	13	8	41	5	28	5	12	M8 X 1.25	15	24	M20 X 1.5	1/8	9	11.5
25	22	19.5	17	8	22	12	10	26 ⁰ _{-0.033}	13	8	45	6	33.5	5.5	12	M10 X 1.25	15	30	M26 X 1.5	1/8	9	11.5
32	22	19.5	17	10	27	20	12	26 ⁰ _{-0.033}	13	8	45	6	37.5	5.5	15	M10 X 1.25	15	34.5	M26 X 1.5	1/8	12	14.5
40	24	21	22	10	33	20	14	32 ⁰ _{-0.039}	16	11	50	8	46.5	7	15	M14 X 1.5	21.5	42.5	M32 X 2	1/4	12	14.5

Dimensions by stroke

Stroke Bore	1 to 50			51 to 100			101 to 150			151 to 200			201 to 250		
	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ	S	Z	ZZ
20	87	140	149	112	165	174	137	190	199	—	—	—	—	—	—
25	87	144	153	112	169	178	137	194	203	—	—	—	—	—	—
32	89	149	161	114	174	186	139	199	211	164	224	236	—	—	—
40	113	178	190	138	203	215	163	228	240	188	253	265	213	278	290

Pivot bracket

Bore	LD	LF	LG	LH	LP	LT	LV	LY	(mm)				
									1 to 50	51 to 100	101 to 150	151 to 200	201 to 250
20	6.8	15	30	30	37	3.2	18.4	59	LZ	LZ	LZ	LZ	LZ
25	6.8	15	30	30	37	3.2	18.4	59	181	206	231	—	—
32	9	15	40	40	50	4	28	75	199	224	249	274	—
40	9	15	40	40	50	4	28	75	228	253	278	303	328

Built-in One-touch fitting

Bore	P	Q
20	6	23
25	6	26
32	6	28.5
40	8	32.5

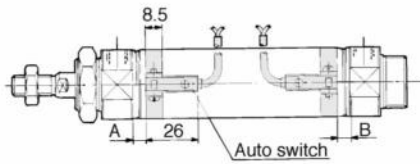
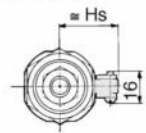
Spring return Basic	Clevis bracket	Built-in One-touch fitting	Spring extend Basic	Clevis bracket	Built-in One-touch fitting
CM2E20.....SCM220A, #11	SCM220A, #11, #7	SCM220A, #11, #7, #19	CM2E20.....SCM220A, #12	SCM220A, #12, #7	SCM220A, #12, #7, #19
CM2E25.....SCM225A, #11	SCM225A, #11, #7	SCM225A, #11, #7, #19	CM2E25.....SCM225A, #12	SCM225A, #12, #7	SCM225A, #12, #7, #19
CM2E32.....SCM232A, #11	SCM232A, #11, #7	SCM232A, #11, #7, #19	CM2E32.....SCM232A, #12	SCM232A, #12, #7	SCM232A, #12, #7, #19
CM2E40.....SCM240A, #11	SCM240A, #11, #7	SCM240A, #11, #7, #19	CM2E40.....SCM240A, #12	SCM240A, #12, #7	SCM240A, #12, #7, #19

Auto Switch Mounting Position and Mounting Height: Spring Return (S)

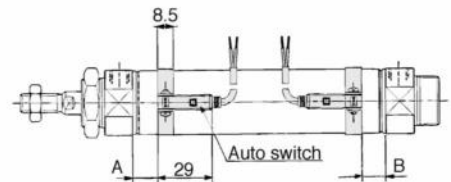
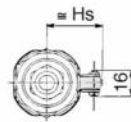
Reed Switch

Solid State Switch

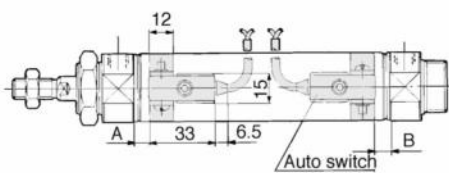
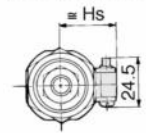
D-C7/C8



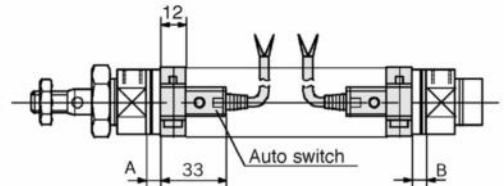
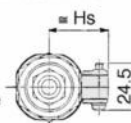
D-H7□/H7□W
D-H7□F/H7BAL



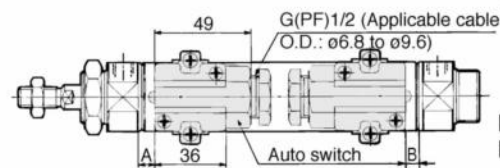
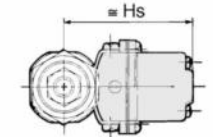
D-B5/B6/B59W



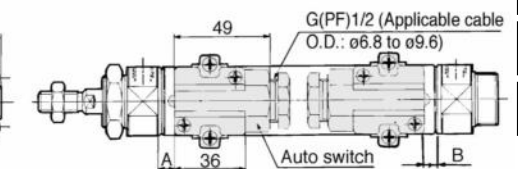
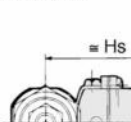
D-G5NTL



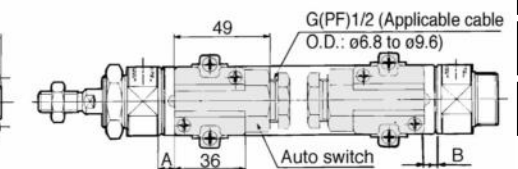
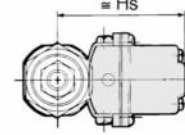
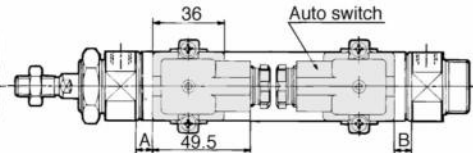
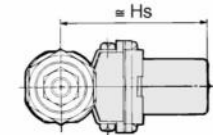
D-A33A/A34A



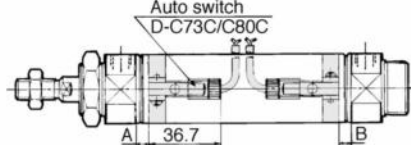
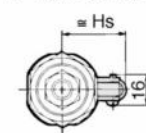
D-G39A
D-K39A



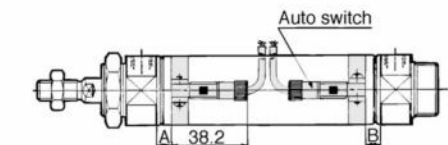
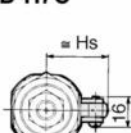
D-A44A



D-C73C/C80C



D-H7C



Auto Switch Position: Spring Return (S)

(mm)

Mounting Height

(mm)

Auto switch model	Bore size	A dimensions					B
		to 50	51 to 100	101 to 150	151 to 200	200 to 250	
D-B5 D-B6	20	26	51	76	—	—	0
	25	26	51	76	—	—	0
	32	27	52	77	102	—	1
	40	32	57	82	107	132	6
D-C7 D-C8 D-C73C D-C80C	20	32	57	82	—	—	6
	25	32	57	82	—	—	6
	32	33	58	83	108	—	7
	40	38	63	88	113	138	12
D-B59W	20	29	54	79	—	—	3
	25	29	54	79	—	—	3
	32	30	55	80	105	—	4
	40	35	60	85	110	135	9
D-A3□A D-G39A D-K39A D-A44A	20	25.5	50.5	75.5	—	—	0
	25	25.5	50.5	75.5	—	—	0
	32	26.5	51.5	76.5	101.5	—	0.5
	40	31.5	56.5	81.5	106.5	131.5	5.5
D-H7□ D-H7C	20	31	56	81	—	—	5
	25	31	56	81	—	—	5
	32	32	57	82	107	—	6
	40	37	62	87	112	137	11
D-H7□W D-H7BAL D-H7□F	20	29.5	54.5	79.5	—	—	3.5
	25	29.5	54.5	79.5	—	—	3.5
	32	30.5	55.5	80.5	105.5	—	4.5
	40	35.5	60.5	85.5	110.5	135.5	9.5
D-G5NTL	20	27.5	52.5	77.5	—	—	1.5
	25	27.5	52.5	77.5	—	—	1.5
	32	28.5	53.5	78.5	103.5	—	2.5
	40	33.5	58.5	83.5	108.5	133.5	7.5

Auto switch model	Bore size	Hs
D-B5 D-B6 D-B59W D-G5NTL	20	25.5
	25	28
	32	31.5
	40	35.5
D-C7/C8 D-H7□ D-H7□W D-H7BAL D-H7□F	20	22.5
	25	25
	32	28.5
	40	32.5
D-C73C D-C80C D-H7C	20	25
	25	27.5
	32	31
	40	35
D-A3□A D-G39A D-K39A	20	60
	25	62.5
	32	66
	40	70
D-A44A	20	69.5
	25	72
	32	75.5
	40	79.5

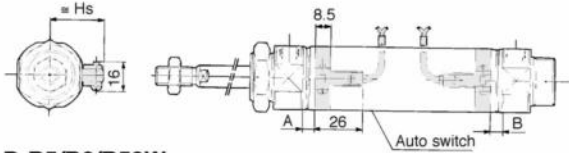
- CJ1
- CJP
- CJ2
- CM2**
- C85
- CG1
- MB
- C95
- CA1
- CS1

Series CDM2

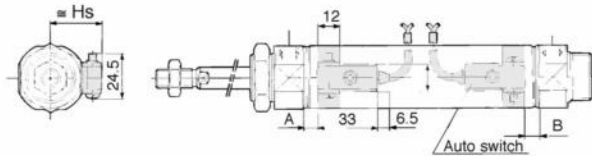
Auto Switch Mounting Position and Mounting Height: Spring Extend (T)

Reed Switch

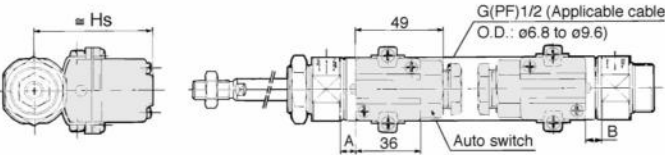
D-C7/C8



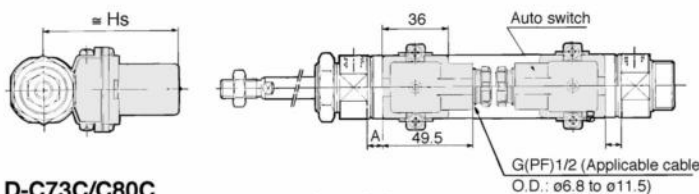
D-B5/B6/B59W



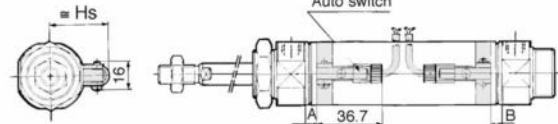
D-A33A/A34A



D-A44A

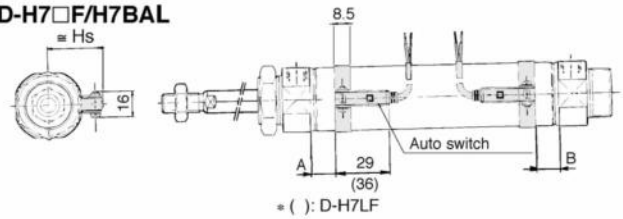


D-C73C/C80C



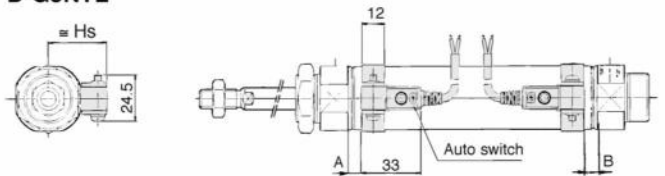
Solid State Switch

D-H7□/H7□W
D-H7□F/H7BAL

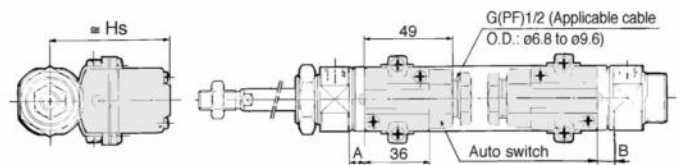


* () : D-H7LF

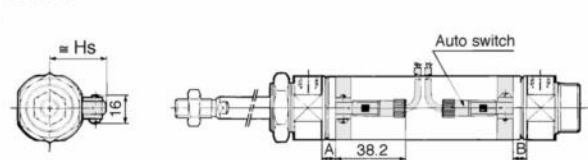
D-G5NTL



D-G39A
D-K39A



D-H7C



Auto Switch Position: Spring Extend (T)

(mm)

Mounting Height

(mm)

Auto switch model	Bore size (mm)	A	B dimensions				
			to 50	51 to 100	101 to 150	151 to 200	200 to 250
D-B5 D-B6	20	1	25	50	75	—	—
	25	1	25	50	75	—	—
	32	2	26	51	76	101	—
	40	7	31	56	81	106	131
D-C7 D-C8 D-C73C D-C80C	20	7	31	56	81	—	—
	25	7	31	56	81	—	—
	32	8	32	57	82	107	—
	40	13	37	62	87	112	137
D-B59W	20	4	28	53	78	—	—
	25	4	28	53	78	—	—
	32	5	29	54	79	104	—
	40	10	34	59	84	109	134
D-A3□A D-G39A D-K39A D-A44A	20	0.5	24.5	49.5	74.5	—	—
	25	0.5	24.5	49.5	74.5	—	—
	32	1.5	25.5	50.5	75.5	100.5	—
	40	6.5	30.5	55.5	80.5	105.5	130.5
D-H7□ D-H7C	20	6	30	55	80	—	—
	25	6	30	55	80	—	—
	32	7	31	56	81	106	—
	40	12	36	61	86	111	136
D-H7□W D-H7BAL D-H7□F	20	4.5	28.5	53.5	78.5	—	—
	25	4.5	28.5	53.5	78.5	—	—
	32	5.5	29.5	54.5	79.5	104.5	—
	40	10.5	34.5	59.5	83.5	109.5	134.5
D-G5NTL	20	2.5	26.5	51.5	76.5	—	—
	25	2.5	26.5	51.5	76.5	—	—
	32	3.5	27.5	52.5	77.5	102.5	—
	40	8.5	32.5	57.5	81.5	107.5	132.5

Auto switch model	Bore size (mm)	≅ Hs
D-B5 D-B6 D-B59W D-G5NTL	20	25.5
	25	28
	32	31.5
	40	35.5
D-C7/C8 D-H7□ D-H7□W D-H7BAL D-H7□F	20	22.5
	25	25
	32	28.5
	40	32.5
D-C73C D-C80C D-H7C	20	25
	25	27.5
	32	31
	40	35
D-A3□A D-G39A D-K39A	20	60
	25	62.5
	32	66
	40	70
D-A44A	20	69.5
	25	72
	32	75.5
	40	79.5