

Made to Order Common Specifications: Adjustable Stroke Cylinder/Adjustable Extension Type

Symbol
-XC8

Specifications

Series	Stroke adjustment symbol	Stroke adjustment range (mm)
CJ2	—	0 to 15
CM2 CG1 MB MB1 CA2 CS1	A	0 to 25
	B	0 to 50

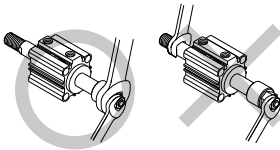
Note) Specifications other than above are the same as standard type.

Series	Stroke adjustment symbol	Stroke adjustment range (mm)
CQ2 CQS	—	0 to 10
MGG MGC	A	0 to 25
	B	0 to 50
MGP	A	0 to 10
	B	0 to 25
MTS	—	0 to 10 (ø8)
		0 to 25 (ø12 to ø40)

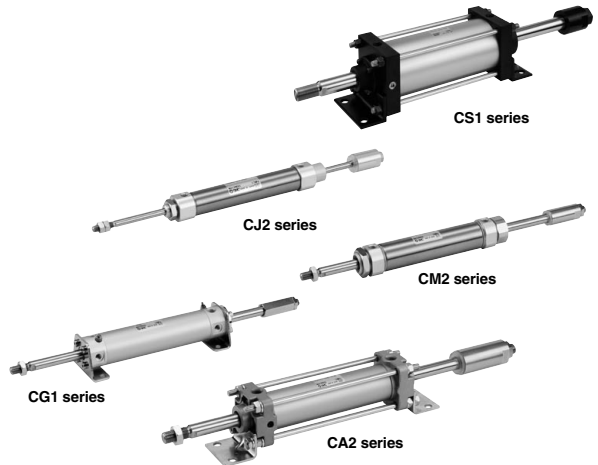
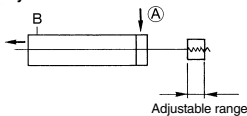
Precautions

⚠ Warning

- When the cylinder is operating, if something gets caught between the stopper bracket for adjusting the stroke and the cylinder body, it could cause bodily injury or damage the peripheral equipment. Therefore, take preventive measures as necessary, such as installing a protective cover.
- To adjust the stroke, make sure to secure the wrench flats of the stopper bracket by a wrench, etc. before loosening the lock nut. If the lock nut is loosened without securing the stopper bracket, be aware that the area that joins the load to the piston rod or the area in which the piston rod is joined with the load side and the stopper bracket side could loosen first. It may cause an accident or malfunction.



Symbol



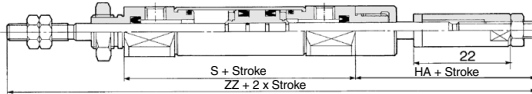
Made to Order Common Specifications: -XC8: Adjustable Stroke Cylinder/Adjustable Extension Type



20 Adjustable Stroke Cylinder/Adjustable Extension Type

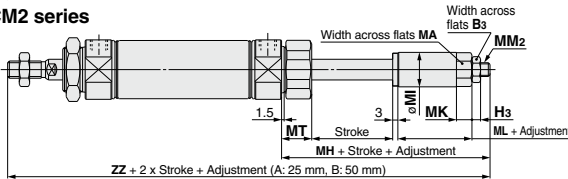
Dimensions (Dimensions other than below are the same as standard type.)

CJ2 series



Bore size (mm)	HA	S	ZZ
10	37	49	114
16	37	50	115

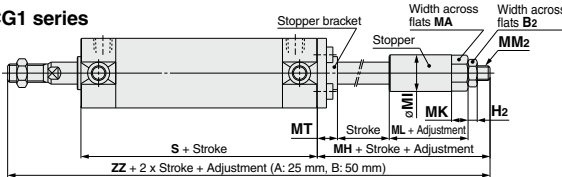
CM2 series



CM2 Series

Bore size (mm)	B ₃	H ₃	MA	MI	MK	MM ₂	MT	MH	ML	ZZ
20	10	3.6	12	14	7	M6 x 1	16.5	47	18	150
25	13	5	17	20	9	M8 x 1.25	17.5	49	18	156
32	13	5	17	20	9	M8 x 1.25	17.5	49	18	158
40	17	6	19	25	10	M10 x 1.25	21.5	60	24	198

CG1 series

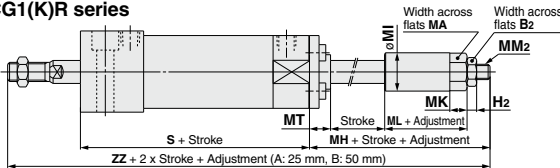


CG1 Series

Bore size (mm)	B ₂	H ₂	MA	MH	MI	MK	ML	MM ₂	MT	S	ZZ
20	10	3.6	12	38	14	7	18	M6 x 1	9	77	150
25	13	5	17	41	20	9	18	M8 x 1.25	11	77	158
32	13	5	17	41	20	9	18	M8 x 1.25	11	79	160
40	17	6	19	47	25	10	24	M10 x 1.25	11	87	184
50	19	8	24	60	32	13	32	M14 x 1.5	11	102	220
63	19	8	24	60	32	13	32	M14 x 1.5	13	102	220

* On the axial foot type, the foot bracket is wedged and bolted between the cylinder and the stopper bracket at the time of shipment. On other types, it is placed in the same package (not assembled).

CG1(K)R series



CG1(K)R Series

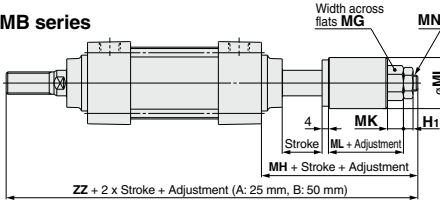
Bore size (mm)	B ₂	H ₂	MA	MH	MI	MK	ML	MM ₂	MT	S	ZZ
20	10	3.6	12	38	14	7	18	M6 x 1	9	83	148
25	13	5	17	41	20	9	18	M8 x 1.25	11	85	158
32	13	5	17	41	20	9	18	M8 x 1.25	11	91	164
40	17	6	19	47	25	10	24	M10 x 1.25	11	103	189
50	19	8	24	60	32	13	32	M14 x 1.5	11	120	225
63	19	8	24	60	32	13	32	M14 x 1.5	13	126	231

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Symbol
-XC8

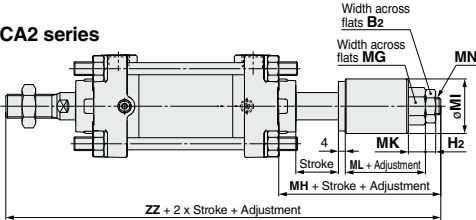
Dimensions (Dimensions other than below are the same as standard type.)

MB series



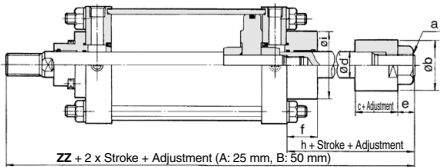
Bore size (mm)	MG	MH	MI	MK	ML	MN	ZZ
32	17	44	23	9	20	M8 x 1.25	175
40	19	48	32	10	22	M10 x 1.25	183
50	24	53	38	13	24	M14 x 1.5	205
63	24	53	38	13	24	M14 x 1.5	205
80	27	72	45	14	32	M16 x 1.5	258
100	32	75	55	17	35	M20 x 1.5	261

CA2 series



Bore size (mm)	H2	MG	MH	MI	MK	ML	MN	ZZ
40	6	19	45	32	10	22	M10 x 1.25	180
50	8	24	49	38	13	24	M14 x 1.5	197
63	8	24	49	38	13	24	M14 x 1.5	205
80	10	27	66	45	14	32	M16 x 1.5	253
100	12	32	69	55	17	35	M20 x 1.5	267

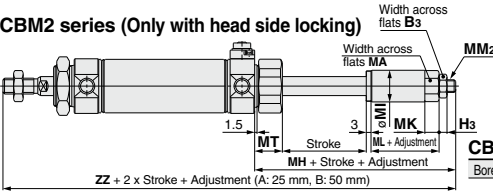
CS1 series



Bore size (mm)	a	ob	c	od	e	f	h	oi	ZZ
125	M30 x 1.5	70	43	36	27	40	110	90	318
140	M30 x 1.5	70	43	36	27	40	110	90	318
160	M30 x 1.5	70	43	36	27	40	110	90	336
180	M42 x 1.5	80	50	45	37.5	45	132.5	115	378.5*
200	M42 x 1.5	80	50	50	37.5	45	132.5	115	378.5*
250	M56 x 2	110	70	60	50	55	175	140	476
300	M56 x 2	110	70	70	50	55	175	140	496

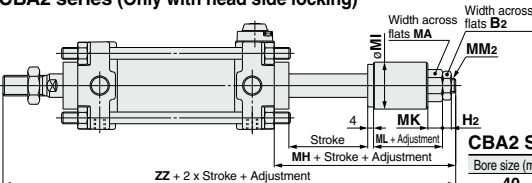
* With auto switch ø180: 382.5, ø200: 387.5

CBM2 series (Only with head side locking)



Bore size (mm)	B3	H3	MA	MI	MK	MM2	MT	MH	ML	ZZ
20	10	3.6	12	14	7	M6 x 1	16.5	47	18	150
25	13	5	17	20	9	M8 x 1.25	17.5	49	18	156
32	13	5	17	20	9	M8 x 1.25	17.5	49	18	158
40	17	6	19	25	10	M10 x 1.25	21.5	60	24	198

CBA2 series (Only with head side locking)



Bore size (mm)	B2	H2	MA	MI	MK	MM2	MH	ML	ZZ
40	17	6	19	32	10	M10 x 1.25	45	22	180
50	22	8	24	38	13	M14 x 1.5	51	24	199
63	22	8	24	38	13	M14 x 1.5	49	24	205
80	24	10	27	45	14	M16 x 1.5	66	32	253
100	30	12	32	55	17	M20 x 1.5	69	35	267

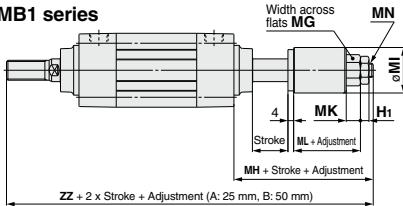
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20 Adjustable Stroke Cylinder/Adjustable Extension Type

Dimensions (Dimensions other than below are the same as standard type.)

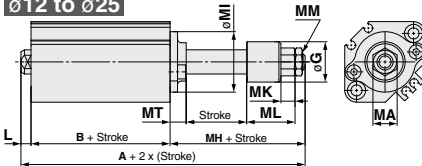
MB1 series



Bore size	MG	MH	MI	MK	ML	MN	ZZ
32	17	44	23	9	20	M8 x 1.25	175
40	19	48	32	10	22	M10 x 1.25	183
50	24	53	38	13	24	M14 x 1.5	205
63	24	53	38	13	24	M14 x 1.5	205
80	27	72	45	14	32	M16 x 1.5	258
100	32	75	55	17	35	M20 x 1.5	261

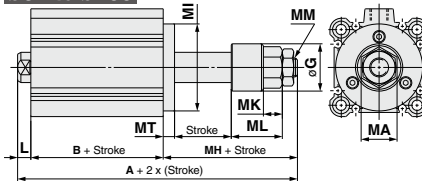
CQ2, CQ2H series

ø12 to ø25

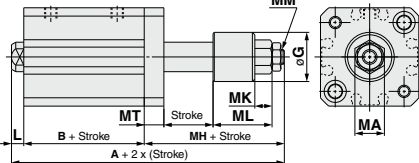


Bore size	A	B	L	MH	MT	MA	MI	MM	MK	ML	øG	Stroke adjustment range
12	57.7 (64.9)	25.2 (32.4)	3.5	29	5	8	□25 (ø15)	M4 x 0.7	5.5	20	14	5 to 30
16	58.5 (68.5)	26 (36)	3.5	29	5	10	□28 (ø20)	M5 x 0.8	5.5	20	14	5 to 30
20	67.5 (79.5)	26 (38)	4.5	37	8	12	□36 (ø25)	M6 x 1	7	24	20	5 to 50
25	71 (81)	29 (39)	5	37	8	12	□40 (ø30)	M6 x 1	7	24	20	5 to 50
32	78.5 (88.5)	30.5 (40.5)	7	41	6	17	ø38	M8 x 1.25	9	28.5	25	5 to 50 75-100
40	88 (98)	40 (50)	7	41	6	19	ø46	M10 x 1.25	10	27	25	5 to 50 75-100
50	100.5 (110.5)	40.5 (50.5)	8	52	8	24	ø57	M14 x 1.5	13	31	35	10 to 50 75-100
63	102 (112)	42 (52)	8	52	10	24	ø68	M14 x 1.5	13	31	35	10 to 50 75-100
80	125 (135)	51 (61)	10	64	12	32	ø90	M20 x 1.5	16	40	45	10 to 50 75-100
100	138.5 (148.5)	60.5 (70.5)	12	66	14	32	ø110	M20 x 1.5	16	40	45	10 to 50 75-100

ø32 to ø100



CQS series



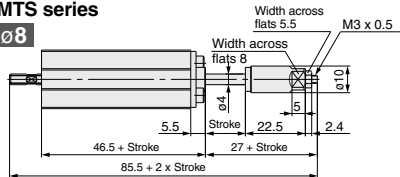
Note 1 () : Denotes the dimensions with auto switch.
Note 2) Applicable stroke available in 5 mm increments.

Bore size	A	B	L	MH	MT	MA	MI	MM	MK	ML	øG	Stroke adjustment range
12	56.1 (61.1)	22 (27)	3.5	30.6	5	8	M4 x 0.7	5.5	20	14	14	5 to 30
16	56.5 (61.5)	22 (27)	3.5	31	5	10	M5 x 0.8	5.5	20	14	14	5 to 30
20	67.5 (77.5)	26 (36)	4.5	37	8	12	M6 x 1	7	24	20	20	5 to 50
25	71 (81)	29 (39)	5	37	8	12	M6 x 1	7	24	20	20	5 to 50

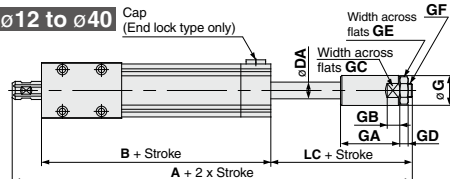
Note 1 () : Denotes the dimensions with auto switch.
Note 2) Applicable stroke available in 5 mm increments.

MTS series

ø8



ø12 to ø40



Basic Type

Bore size (mm)	A	B	LC	DA	G	GA	GB	GC	GD	GE	GF
12	145	80.5	49.5	6	13.5	42.5	6	11	4	8	M5 x 0.8
16	149.5	83	50.5	8	15.5	42.5	7	13	5	10	M6 x 1.0
20	175	106.5	50.5	10	19.5	42.5	8.5	17	5	13	M8 x 1.25
25	187	114.5	51.5	12	21.5	42.5	9	19	6	17	M10 x 1.25
32	222.5	142.5	56	16	27.5	45	10.5	24	8	22	M14 x 1.5
40	240	155	59	20	32.5	45	11.5	27	11	27	M18 x 1.5

With End Lock

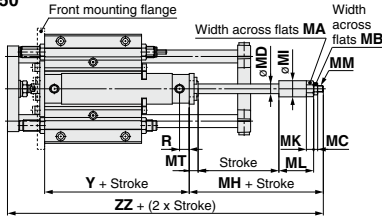
Bore size (mm)	A	B
12	163	98.5
16	165.5	99
20	191.5	123
25	201.5	129
32	238.5	158.5
40	258.5	173.5

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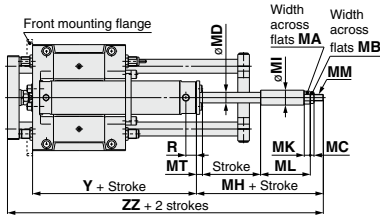
Symbol
-XC8

Dimensions (Dimensions other than below are the same as standard type.)

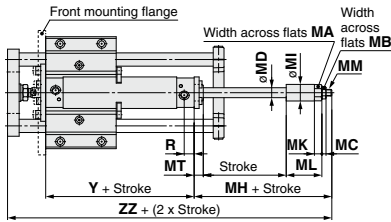
MGJ series ø20 to ø50



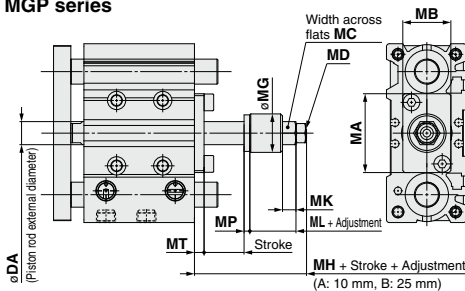
ø63



MGC series ø20 to ø50



MGP series



MGJ Series

Bore size (mm)	R	Y	MA	MB	MC	MD	MI	MK	MM	MT
20	12	77	12	10	3.6	8	14	7	M6 x 1	9
25	12	77	17	13	5	10	20	9	M8 x 1.25	11
32	12	79	17	13	5	12	20	9	M8 x 1.25	11
40	13	87	19	17	6	16	25	10	M10 x 1.25	11
50	14	102	24	19	8	20	32	13	M14 x 1.5	11
63	14	117	24	19	8	20	32	13	M14 x 1.5	13

Bore size (mm)	Adjustment 0 to 25 mm			Adjustment 0 to 50 mm		
	MH	ML	ZZ	MH	ML	ZZ
20	63	43	179	88	68	204
25	66	43	189	91	68	214
32	66	43	191	91	68	216
40	72	49	215	97	74	240
50	85	57	254	110	82	279
63	85	57	256	110	82	281

* The piston speed for the extension side is 50 to 500 mm/s.

MGC Series

Bore size (mm)	R	Y	MA	MB	MC	MD	MI	MK	MM	MT
20	12	77	12	10	3.6	8	14	7	M6 x 1	9
25	12	77	17	13	5	10	20	9	M8 x 1.25	11
32	12	79	17	13	5	12	20	9	M8 x 1.25	11
40	13	87	19	17	6	16	25	10	M10 x 1.25	11
50	14	102	24	19	8	20	32	13	M14 x 1.5	11

Bore size (mm)	Adjustment 0 to 25 mm			Adjustment 0 to 50 mm		
	MH	ML	ZZ	MH	ML	ZZ
20	63	43	179	88	68	204
25	66	43	189	91	68	214
32	66	43	191	91	68	216
40	72	49	215	97	74	240
50	85	57	254	110	82	279

* The piston speed for the extension side is 50 to 500 mm/s.

Common Dimensions: MGPM-Z, MGPL-Z, MGPA-Z

Bore size (mm)	DA	MA	MB	MC	MD	øMG	MH	MK	ML	MP	MT
12	6	27	13	8	M4 x 0.7	14	20	5.5	10	3	3
16	8	28	16	10	M5 x 0.8	14	21	5.5	10	3	3
20	10	33	22	12	M6 x 1	20	27	7	14	3	4
25	12	41	25	12	M6 x 1	20	28	7	14	3	5
32	16	51	32	17	M8 x 1.25	25	35	9	18.5	4	6
40	16	60	32	19	M10 x 1.25	25	34.5	10	17	4	6
50	20	71	38	24	M14 x 1.5	35	42.5	13	21	4	8
63	20	84	50	24	M14 x 1.5	35	43	13	21	4	8
80	25	114	50	32	M20 x 1.5	45	57	16	30	4	9
100	30	140	65	32	M20 x 1.5	45	60	16	30	4	12