Made to Order Common Specifications: -XC11: Dual Stroke Cylinder/Single Rod Type



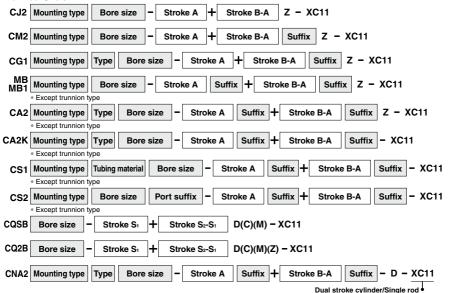
23 Dual Stroke Cylinder/Single Rod Type

Two cylinders can be integrated by connecting them in line, and the cylinder stroke can be controlled in two stages in both directions. Do not operate the CS1 series at twice the output.

Applicable Series

Series	Description	Model	Action	Note	Vol. no. (for std model)	
CJ2	Air cylinder	CJ2-Z	Double acting, Single rod	Except with air cushion	2 -1 From P. 46	
	Air cylinder	CM2-Z	Double acting, Single rod			
0110	Non-rotating rod	CM2K-Z	Double acting, Single rod	Except with air cushion	A 4 5 D 470	
CM2	Direct mount	CM2R-Z	Double acting, Single rod		2 -1 From P. 17	
	Non-rotating rod, Direct mount type	CM2RK-Z	Double acting, Single rod			
CG1	Air cylinder	rlinder CG1-Z Double acting, Single rod			A 5 B 000	
CG1	Non-rotating rod	CG1K-Z	Double acting, Single rod	Except with air cushion	2 -1 From P. 292	
МВ	Air cylinder	MB-Z	Double acting, Single rod	* Except ø125 and trunnion type	2 -1 From P. 392	
MB1	Air cylinder	MB1-Z	Double acting, Single rod	* Except ø125 and trunnion type	2 -1 From P. 440	
	Air cylinder	r cylinder CA2-Z Double acting, Single rod * Except trunnion type		0.15 0.450		
CA2	Non-rotating rod	CA2K	Double acting, Single rod	* Except trunnion type	2 -1 From P. 470	
CS1	Air cylinder	CS1	Double acting, Single rod	* Except trunnion type	2 -1 From P. 530	
CS2	Air cylinder	CS2	Double acting, Single rod	* Except trunnion type	2 -1 From P. 568	
cas	Compact cylinder	cqs	Double acting, Single rod	Except with bracket	2 -1 From P. 693	
CQ2	Compact cylinder	CQ2-Z	Double acting, Single rod	Except with bracket	Web Catalon	
CQZ	Air-hydro cylinder	CQ2H-Z	Double acting, Single rod	Except with bracket	Web Catalog	
CNA2	Cylinder with lock	CNA2	Double acting, Single rod	* Except trunnion type	2 -2 From P. 922	
MGG	Guide cylinder	MGG	Double acting		2-2 From P. 538	
MGC	Guide cylinder	MGC	Double acting		2-2 From P. 578	

How to Order

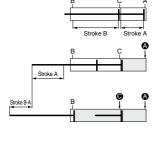


Symbol

-XC11

Specifications: Same as standard type (Please contact SMC for each manufacturable stroke length.)

Functional description of dual stroke cylinder



- Initial state
 (0 stroke position)
- 1st stage Stroke A operation
 When the air pressure is supplied from
 the A port, the rod operates the stroke A.
- 2nd stage Stroke B-A operation
 Following the 1st stage, when the air
 pressure is supplied from the C port, the
 rod operates the stroke B-A.
- C A
 Stroke B Stroke A
- Cylinder retraction
 When the air pressure is supplied from the B port, the rod retracts completely.

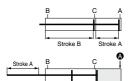
CJ2 series CM2 series CG1 series

Precautions

∧ Caution

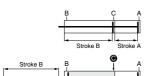
- Do not supply air until the cylinder is fixed with the attached bolt.
- If air is supplied without securing the cylinder, the cylinder could lurch, posing the risk of bodily injury or damage to the peripheral equipment.

Stroke A or stroke B operation can be made individually.



Stroke A operation

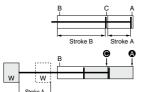
- Initial state
 (0 stroke position)
- Operation
 When the air pressure is supplied from the A port, the rod operates the stroke A.



Stroke B operation

- Initial state
 (0 stroke position)
- Operation
 When the air pressure is supplied from the C port, the rod operates the stroke B.

Double output is possible.



- Initial state
 (0 stroke position)
- Double output When the air pressure is supplied to the A and C ports at the same time, the double output can be obtained in the stroke A range.





Made to Order Common Specifications: -XC11: Dual Stroke Cylinder/Single Rod Type



(mm)

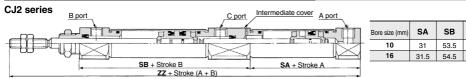
z

112.5

114

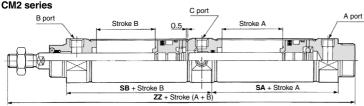
23 Dual Stroke Cylinder/Single Rod Type

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

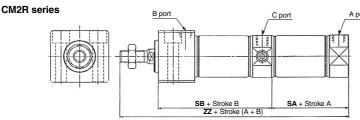


Note) When mounting an auto switch at the extended piston rod A side, the following auto switches interfere with the intermediate cover. In this case, please mount on the stroke B side. Please be aware that the auto switch defects and temporarily turns ON/OFF when passing the intermediate position of the B stroke. Solid state auto switch : D-H7□, D-H7C, D-H7□W, D-H7NF, D-H7BA

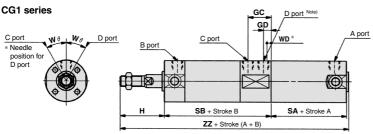
Reed auto switch: D-C7, D-C80, D-C73C, D-C80C, D-A80, D-A9, D-A9, D-A79W, D-A73



			(mm)
Bore size (mm)	SA	SB	ZZ
20	48	62	164
25	48	62	168
32	50	64	172
40	67.5	88.5	222



			(mm)
Bore size (mm)	SA	SB	ZZ
20	48	76	151
25	48	76	155
32	50	78	159
40	67.5	104.5	206



Note) D port type Type N: Rubber bumper, Plug with fixed orifice:

> Type A: Air cushion, element non-installation (Release to atmospheric pressure)

CG1,	CG1K

	car, cark (iiii										
ĺ	Bore	GC	GD	н	SA	SB	Wθ	ZZ	Air cushion	Long str	oke Note)
	size	GC	GD.	п	JA	36	WO	22	WD	SA	ZZ
	20	21	9	35	48	87	30°	172	5	56	180
	25	21 (21.5)	9 (8.5)	40	48	87	30°	177	6.5	56	185
	32	23	9	40	50	91	30°	183	5	58	191
	40	25	9	50	56	100	20°	208	5	65	217
	50	29	13	58	63	118	20°	241	9	75	253
ĺ	63	28	12	58	64	117	20°	241	8	76	253

^{* ():} With air cushion

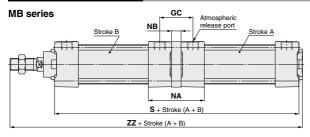
Note) When the stroke A is a long stroke (ø20: 201 mm or more, ø25 to ø63: 301 mm or more)



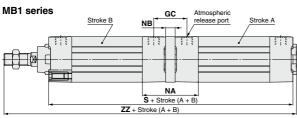
Symbol

-XC11

Construction/Dimensions

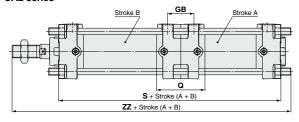


					(111111)
Bore size	GC	NA	NB	S	ZZ
32	36	64	10.6	179	230
40	38	64	10.6	179	234
50	41	73	10.6	199	261
63	43	73	10.6	199	261
80	52	90	14.6	243	319
100	52	90	14.6	243	319



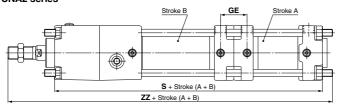
					(mm)
Bore size	GC	NA	NB	S	ZZ
32	36	62	10.6	179	230
40	38	62	10.6	179	234
50	41	71	10.6	199	261
63	43	71	10.6	199	261
80	52	88	14.6	243	319
100	52	88	14.6	243	319

CA2 series



				(mm)
Bore size	GB	Q	S	ZZ
40	29	53	168	230
50	33	59	180	249
63	33	61	196	268
80	41	73	232	320
100	41	79	252	341

CNA2 series



		(mm)
GE	S	ZZ
29	237	299
33	258	327
33	280	352
41	334	422
41	372	461
	29 33 33 41	29 237 33 258 33 280 41 334





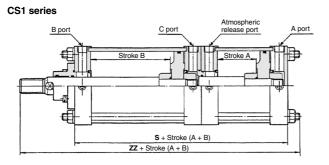
Made to Order Common Specifications:

-XC11: Dual Stroke Cylinder/Single Rod Type

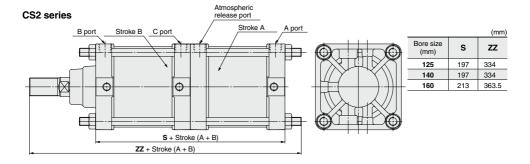


23 Dual Stroke Cylinder/Single Rod Type

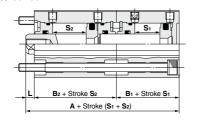
Construction/Dimensions



				(mm)	
Bore size	Without a	uto switch	With auto switch		
(mm)	S	S ZZ		ZZ	
125	197	334	197	334	
140	197	334	197	334	
160	213	363.5	213	363.5	
180	223	393	231	401	
200	223	393	241	411	
250	283	484.5	_	_	
300	293	519.5	_	_	



CQS series



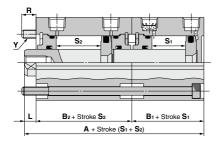
					(mm)	
Bore size (mm)	Α	B 1	B ₂	L	Stroke Both of S ₁ ,S ₂	
12	42.5 (52.5)	17 (22)	22 (27)	3.5	5 to 30	
16	42.5 (52.5)	17 (22)	22 (27)	3.5	3 10 30	
20	50 (70)	19.5 (29.5)	26 (36)	4.5	5 to 50	
25	56.5 (76.5)	22.5 (32.5)	29 (39)	5	5 10 50	

Note 1) (): Denotes the dimensions with auto switch. Note 2) Applicable stroke available in 5 mm increments. Note 3) Please contact SMC for long stroke type.

Made to Order Common Specifications: Dual Stroke Cylinder/Single Rod Type

Symbol -XC11

CQ2 series



	(mm)							
Bore size (mm)	A	B ₁	B ₂	L	R	Y	Stroke Both S1 and S2	
12	45.7 (63.9)	17 (28)	25.2 (32.4)	3.5	8.3 (8.1)	M3 x 0.5	5 to 30	
16	48 (70)	18.5 (30.5)	26 (36)	3.5	9 (7)		5 (0 30	
20	50 (74)	19.5 (31.5)	26 (38)	4.5	11.5 (7.5)	M5 x 0.8	5 to 50	
25	56.5 (76.5)	22.5 (32.5)	29 (39)	5	10.5			
32	60.5 (80.5)	23 (33)	30.5 (40.5)	7	8.5			
40	76.5 (96.5)	29.5 (39.5)	40 (50)	7	7.5			
50	79 (99)	30.5 (40.5)	40.5 (50.5)	8	12	M6 x 1		
63	86 (106)	36 (46)	42 (52)	8	12.5	M8 x 1.25	10 to 50	
80	104.5 (124.5)	43.5 (53.5)	51 (61)	10	19	M10 x 1.5	10 10 50	
100	125.5 (145.5)	53 (63)	60.5 (70.5)	12	15	WI 10 X 1.5		

- * (): Dimensions with auto switch magnet
- * Applicable stroke available in 5 mm increments
- * Please contact SMC for long stroke type.

Precautions

⚠ Caution

- 1. Remove the temporary fixing nut and flat washer from the mounting bolt, and secure the cylinder properly with the mounting bolt.
- 2. Although the cylinder can be detached by removing the nut, do not detach it for purposes other than replacing the seal.
- 3. The removed nut and flat washer are not used to secure the body.







Made to Order Common Specifications: -XC11: Dual Stroke Cylinder/Single Rod Type



23 Dual Stroke Cylinder/Single Rod Type

MGG series

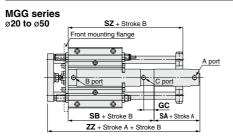
How to Order

MGG Bearing type Mounting type Bore size Stroke A + Stroke B-A - Auto switch - XC11

Specifications

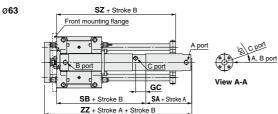
Bore size	20	25	32	40	50	63		
Basic cylinder	Ø20 to Ø50: CDG1ZN Bore size - Stroke A + Stroke B-A Z - Auto switch - X428 Ø63: CDG1ZN Bore size - Stroke A + Stroke B-A Z - Auto switch - XC11							
Dimensions	Refer to the table below.							
Piston speed	The piston speed for the stroke B retraction side is 50 to 500 mm/s.							
Specifications other than above	Same as standard type							

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



MGG Series (mm)								
Bore size (mm)	GC	SA	SB	sz zz		Bracket mounting stroke / Stroke A +	Long stroke Note)	
				\ Stroke B /	SA	ZZ		
20	21	50	87	118	176	35 st or more	58	184
25	21	50	87	129	183	60 st or more	58	191
32	23	52	91	155	189	80 st or more	60	197
40	25	58	100	182	214	125 st or more	67	223
50	29	65	118	218	250	160 st or more	77	262
63	28	66	132	254	252	210 st or more	78	264

Note) When the stroke A is a long stroke (ø20: 201 mm or more, ø25 to ø63: 301 mm or more)



Made to Order Common Specifications: Dual Stroke Cylinder/Single Rod Type

Symbol -XC11

MGC series

How to Order

MGC Bearing type Mounting type Bore size - Stroke A + Stroke B-A - Equipped/Not equipped back plate - Auto switch - XC11

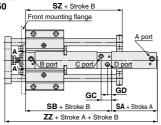
Dual stroke cylinder/Single rod type

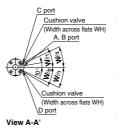
Specifications

Bore size	20	25	32	40	50		
Basic cylinder	CDG12	ZA Bore size - Str	roke A + Stroke B-A Z - Auto switch - XC11				
Dimensions	Refer to the table below.						
Piston speed	The piston speed for the stroke B retraction side is 50 to 500 mm/s.						
Specifications other than above		Same as standard type					

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







MGC Series (mm)									
Bore	GC	GD	SA	SB	W ∂1	W ∂1	W∂₂	Long stroke Note)	
(mm)							SA	ZZ	
20	21	9	50	87	25°	30°	58	184	
25	21.5	8.5	50	87	25°	30°	58	191	
32	23	9	52	91	25°	30°	60	197	
40	25	9	58	100	20°	20°	67	223	
50	29	13	65	118	20°	20°	77	262	

Bore size	_	z	ZZ	Bracket mounting stroke Stroke A +		
(mm)	With R	Without R		Stroke B		
20	101	80	176	35 st or more		
25	107	85	183	60 st or more		
32	115	90	189	80 st or more		
40	132	100	214	125 st or more		
50	174	135	250	160 st or more		

Note) When the stroke A is a long stroke (ø20: 201 mm or more, ø25 to ø50: 301 mm or more)



