

Made to Order Common Specifications: -XC13: Auto Switch Rail Mounting Type



25 Auto Switch Rail Mounting Type

Symbol

-XC13

A cylinder on which a rail is mounted to enable auto switches, in addition to the standard method for mounting auto switches (Band mounting type).

Applicable Series

Series	Description	Model	Action	Note	Vol. no. (for std model)
CM2	Air cylinder	CM2-Z	Double acting, Single rod		Web Catalog
			Single acting (Spring return/extend)		
	Non-rotating rod type	CM2W-Z	Double acting, Double rod		
		CM2K-Z	Double acting, Single rod		
			Single acting (Spring return/extend)		
		CM2KW	Double acting, Double rod		
	Direct mount type	CM2R-Z	Double acting, Single rod		
	Non-rotating rod, Direct mount type	CM2RK-Z	Double acting, Single rod		
CG1	Air cylinder	CG1-Z1	Double acting, Single rod	For XC13A and XC13C only	Web Catalog
		CG1-Z	Double acting, Single rod	Except the trunnion type	
	Double rod type	CG1W-Z	Double acting, Double rod	Except the trunnion type	
	Non-rotating rod type	CG1K-Z	Double acting, Single rod	Except the trunnion type	
	Direct mount type	CG1R-Z	Double acting, Single rod	Except with air cushion	
	End lock cylinder	CBG1-Z1	Double acting, Single rod	For XC13A only	
		CBG1	Double acting, Single rod	For XC13A only	
MGG	Guide cylinder	MGG	Double acting		
MGC	Guide cylinder	MGC	Double acting		

How to Order

CDM2 Standard model no. - **XC13A**

CDG1 Standard model no. - **XC13A**

* Trunnion type of the CDG1 series cannot be mounted.

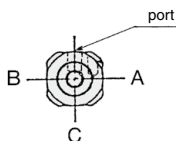
Rail mounting direction

XC13A	Mounted on the right side when viewed from the rod with the ports facing upwards.
XC13B *2-#3	Mounted on the left side when viewed from the rod.
XC13C *1-#2	Mounted on the underside when viewed from the rod.

* 1 Not available for CDG1.

* 2 Not available for CBG1.

* 3 Not available for CBM2.



CDM2 Applicable Auto Switches

Rail mounting type	Solid state	D-F7□, D-F7□V, D-F7BA, D-F79F, D-F79W, D-F7□WV, D-J79, D-J79C, D-J79W
	Reed	D-A9□/A9□V, D-A7/A8, D-A7□H/A80H, D-A73C/A80C, D-A79W
Auto switch specifications For detailed specifications about an auto switch for itself, refer to pages 1289 to 1383.		

CDG1 Applicable Auto Switches

Rail mounting type	Solid state	D-M9□/M9□V, D-M9□W/M9□WV, D-M9□A/M9□AV, D-F7□, D-F7□V, D-F7BA, D-F79F, D-F79W, D-F7□WV, D-J79, D-J79C, D-J79W
	Reed	D-A7/A8, D-A7□H/A80H, D-A73C/A80C, D-A79W
Auto switch specifications For detailed specifications about an auto switch for itself, refer to pages 1289 to 1383.		

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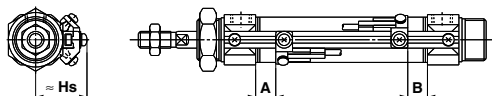


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Proper Auto Switch Mounting Position (Detection at stroke end) and Mounting Height

CDM2 series



Proper Auto Switch Mounting Position

Auto switch model Bore size (mm)	D-F7NT		D-A9□ D-A9□V D-A79W		D-A7□ D-A80	
	A	B	A	B	A	B
20	8 (5.5)	7 (4.5)	13 (10.5)	12 (9.5)	5 (2.5)	4 (1.5)
25	8 (5.5)	7 (4.5)	13 (10.5)	12 (9.5)	5 (2.5)	4 (1.5)
32	9 (6.5)	8 (5.5)	14 (11.5)	13 (10.5)	6 (3.5)	5 (2.5)
40	15	13	19	18	12	10

Auto Switch Mounting Height

D-F7□/F79F D-J79/F7NT D-F7□W/J79W D-F7BA D-A9□/A9□V A7□H/A80H	D-F7□V D-F7□WV D-F7BAV	D-J79C	D-A7□ D-A80	D-A73C D-A80C	D-A79W
Hs	Hs	Hs	Hs	Hs	Hs
23.5	26	29	22.5	29.5	25
26.5	29	32	25.5	32.5	28
30	32.5	35.5	29	35	31.5
34	36.5	39.5	33	40	35.5

Note 1) (): With air cushion

Note 2) Adjust the auto switch after confirming the operating conditions in the actual setting.

Note 3) For the dimensions other than the proper auto switch mounting position and its mounting height, refer to standard type for CM2 series.

Minimum Auto Switch Mounting Stroke

Auto switch model	No. of auto switch mounted		
	1	2 Same surface	n (n: No. of auto switches) Same surface
D-F7□V D-J79C	5	5	10 + 10 (n-2) ^{Note} (n=4, 6···)
D-F7□ D-J79	5	5	15 + 15 (n-2) ^{Note} (n=4, 6···)
D-F7□WV D-F7BAV D-A79W	10	15	10 + 15 (n-2) ^{Note} (n=4, 6···)
D-F7□W/J79W D-F7BA D-F79F/F7NT	10	15	15 + 20 (n-2) ^{Note} (n=4, 6···)
D-A9□ D-A9□V	5	10	10 + 15 (n-2) ^{Note} (n=4, 6···)
D-A7□/A80 D-A7□H/A80H D-A73C/A80C	5	10	15 + 10 (n-2) ^{Note} (n=4, 6···)
D-A7□H D-A80H	5	10	15 + 15 (n-2) ^{Note} (n=4, 6···)

Note) When "n" is an odd number, an even number that is one larger than this odd number is used for the calculation. However, the minimum even number is 4. So, 4 is used for the calculation when "n" is 1 to 3.

Auto Switch Mounting Bracket: Part No.

Auto switch model	Bore size (mm)
	ø20 to ø40
D-A9□/A9□V	BQ2-012

Note 1) When adding D-A9□(V), order a set of auto switch mounting brackets BQ-1 and BQ2-012 for the CDQ2 series (ø12 to ø25) separately.
When adding the auto switches other than D-A9□(V) mentioned on the left and D-F7BA(V), order auto switch mounting brackets BQ-1 separately.

Note 2) When adding the auto switch D-F7BA(V), order a stainless steel screw set BBA2 separately.

Operating range

Auto switch model	Bore size (mm)			
	20	25	32	40
D-F7□/F79F/F7□V D-J79/J79C D-F7□W/J79W/F7□WV D-F7BA/F7BAV D-F7NTL	3.5	3.5	4	3.5
D-A9□/D-A9□V	5.5	6	6.5	6.5
D-A7□/A80 D-A7□H/A80H D-A73C/A80C	7.5	8	8.5	8.5
D-A79W	10	10.5	12.5	12.5

* Since the operating range is provided as a guideline including hysteresis, it cannot be guaranteed (assuming approximately ±30% dispersion). It may vary substantially depending on an ambient environment.

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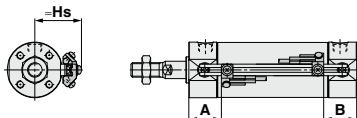
25 Auto Switch Rail Mounting Type

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Proper Auto Switch Mounting Position (Detection at stroke end) and Mounting Height

CDG1-Z1 series



Proper Auto Switch Mounting Position (Detection at stroke end)

Applicable Cylinder Series: CDG1-Z1-XC13 Rubber bumper

[mm]

Auto switch model Bore size	D-M9□/D-M9□V D-M9□W/D-M9□WV D-M9□A/D-M9□AV		D-F7□/F79F/F7□V D-J79/J79C D-F7□W/J79W/F7□WV		D-F7BA/F7ABV D-A72/A7□H/A80H D-A73C/A80C		D-F7NT		D-A7□ D-A80		D-A79W	
	A	B	A	B	A	B	A	B	A	B	A	B
20	29.5	27.5	27	25	32	30	26.5	24.5	24	22		
25	29	28	26.5	25.5	31.5	30.5	26	25	23.5	22.5		
32	29.5	29.5	27	27	32	32	26.5	26.5	24	24		
40	33	33	30.5	30.5	35.5	35.5	30	30	27.5	27.5		
50	39.5	38.5	37	36	42	41	36.5	35.5	34	33		
63	39.5	38.5	37	36	42	41	36.5	35.5	34	33		
80	51	45	48.5	42.5	53.5	47.5	48	42	45.5	39.5		
100	49	47	46.5	44.5	51.5	49.5	46	44	43.5	41.5		

Note) Adjust the auto switch after confirming the operating conditions in the actual setting.

Proper Auto Switch Mounting Position (Detection at stroke end)

Applicable Cylinder Series: CDG1-Z1-XC13 Air cushion

[mm]

Auto switch model Bore size	D-M9□/D-M9□V D-M9□W/D-M9□WV D-M9□A/D-M9□AV		D-F7□/F79F/F7□V D-J79/J79C D-F7□W/J79W/F7□WV		D-F7BA/F7ABV D-A72/A7□H/A80H D-A73C/A80C		D-F7NT		D-A7□ D-A80		D-A79W	
	A	B	A	B	A	B	A	B	A	B	A	B
20	30.5	26.5	28	24	33	29	27.5	23.5	25	21		
25	29	28	26.5	25.5	31.5	30.5	26	25	23.5	22.5		
32	31	28	28.5	25.5	33.5	30.5	28	25	25.5	22.5		
40	35	31	32.5	28.5	37.5	33.5	32	28	29.5	25.5		
50	40	38	37.5	35.5	42.5	40.5	37	35	34.5	32.5		
63	40	38	37.5	35.5	42.5	40.5	37	35	34.5	32.5		
80	51.5	44.5	49	42	54	47	48.5	41.5	46	39		
100	50	46	47.5	43.5	52.5	48.5	47	43	44.5	40.5		

Note) Adjust the auto switch after confirming the operating conditions in the actual setting.

Made to Order Common Specifications: -XC13: Auto Switch Rail Mounting Type



25 Auto Switch Rail Mounting Type

Symbol

-XC13

Proper Auto Switch Mounting Position (Detection at stroke end) and Mounting Height

Proper Auto Switch Mounting Position/Applicable Cylinder Series: CDBG1-Z1-XC13 Rubber bumper

[mm]

Bore size	Auto switch model Lock position	D-M9□/D-M9□V D-M9□W/D-M9□WV D-M9□A/D-M9□AV		D-F7□/F79F/F7□V D-J79U/J79C D-F7□W/J79WIF□WV		D-F78A/F78BV D-A72/A7□A80H D-A73C/A80C		D-F7NT		D-A7□ D-A80		D-A79W	
		A	B	A	B	A	B	A	B	A	B	A	B
20	Rod side	40.5	27.5	38	25	43	30	37.5	24.5	35	22		
	Head side	29.5	39.5	27	37	32	42	26.5	36.5	24	34		
	Both sides	40.5	39.5	38	37	43	42	37.5	36.5	35	34		
25	Rod side	40	28	37.5	25.5	42.5	30.5	37	25	34.5	22.5		
	Head side	29	40	26.5	37.5	31.5	42.5	26	37	23.5	34.5		
	Both sides	40	40	37.5	37.5	42.5	42.5	37	37	34.5	34.5		
32	Rod side	39.5	29.5	37	27	42	32	36.5	26.5	34	34		
	Head side	29.5	39.5	27	37	32	42	26.5	36.5	24	34		
	Both sides	39.5	39.5	37	37	42	42	36.5	36.5	34	34		
40	Rod side	42	33	39.5	30.5	44.5	35.5	39	30	36.5	27.5		
	Head side	33	47	30.5	44.5	35.5	49.5	30	44	27.5	41.5		
	Both sides	42	47	39.5	44.5	44.5	49.5	39	44	36.5	41.5		
50	Rod side	51.5	38.5	49	36	54	41	48.5	35.5	46	33		
	Head side	39.5	55.5	37	53	42	58	36.5	52.5	34	50		
	Both sides	51.5	55.5	49	53	54	58	48.5	52.5	46	50		
63	Rod side	51.5	38.5	49	36	54	41	48.5	35.5	46	33		
	Head side	39.5	55.5	37	53	42	58	36.5	52.5	34	50		
	Both sides	51.5	55.5	49	53	54	58	48.5	52.5	46	50		
80	Rod side	67	45	64.5	42.5	69.5	47.5	64	42	61.5	39.5		
	Head side	51	67	48.5	64.5	53.5	69.5	48	64	45.5	61.5		
	Both sides	67	67	64.5	64.5	69.5	69.5	64	64	61.5	61.5		
100	Rod side	63	49	60.5	46.5	65.5	51.5	60	46	57.5	43.5		
	Head side	47	71	44.5	68.5	49.5	73.5	44	68	41.5	65.5		
	Both sides	63	71	60.5	68.5	65.5	73.5	60	68	57.5	65.5		

Note 1) Adjust the auto switch after confirming the operating conditions in the actual setting.

Note 2) For the dimensions other than the proper auto switch mounting position and mounting height, refer to standard type for CBG1 series.

Made to Order Common Specifications: -XC13: Auto Switch Rail Mounting Type



25 Auto Switch Rail Mounting Type

Symbol

-XC13

Proper Auto Switch Mounting Position (Detection at stroke end) and Mounting Height

Proper Auto Switch Mounting Position/Applicable Cylinder Series: CDBG1-Z1-XC13 Air cushion

[mm]

Bore size	Auto switch model Lock position	D-M9□/D-M9□V D-M9□W/D-M9□WV D-M9□A/D-M9□AV		D-F7□/F79F/F7□V D-J79/J79C D-F7□W/J79W/F7□V		D-F78A/F78BV D-A72/A7□H/A80H D-A73C/A80C		D-F7NT		D-A7□ D-A80		D-A79W	
		A	B	A	B	A	B	A	B	A	B	A	B
20	Rod side	41.5	26.5	39	24	44	29	38.5	23.5	36	21		
	Head side	30.5	38.5	28	36	33	41	27.5	35.5	25	33		
	Both sides	41.5	38.5	39	36	44	41	38.5	35.5	36	33		
25	Rod side	40	28	37.5	25.5	42.5	30.5	37	25	34.5	22.5		
	Head side	29	40	26.5	37.5	31.5	42.5	26	37	23.5	34.5		
	Both sides	40	40	37.5	37.5	42.5	42.5	37	37	34.5	34.5		
32	Rod side	41	28	38.5	25.5	43.5	30.5	38	25	35.5	22.5		
	Head side	31	38	28.5	35.5	33.5	40.5	28	35	25.5	32.5		
	Both sides	41	38	38.5	35.5	43.5	40.5	38	35	35.5	32.5		
40	Rod side	44	31	41.5	28.5	46.5	33.5	41	28	38.5	25.5		
	Head side	35	45	32.5	42.5	37.5	47.5	32	42	29.5	39.5		
	Both sides	44	45	41.5	42.5	46.5	47.5	41	42	38.5	39.5		
50	Rod side	52	38	49.5	35.5	54.5	40.5	49	35	46.5	32.5		
	Head side	40	55	37.5	52.5	42.5	57.5	37	52	34.5	49.5		
	Both sides	52	55	49.5	52.5	54.5	57.5	49	52	46.5	49.5		
63	Rod side	52	38	49.5	35.5	54.5	40.5	49	35	46.5	32.5		
	Head side	40	55	37.5	52.5	42.5	57.5	37	52	34.5	49.5		
	Both sides	52	55	49.5	52.5	54.5	57.5	49	52	46.5	49.5		
80	Rod side	67.5	44.5	65	42	70	47	64.5	41.5	62	39		
	Head side	51.5	66.5	49	64	54	69	48.5	63.5	46	61		
	Both sides	67.5	66.5	65	64	70	69	64.5	63.5	62	61		
100	Rod side	66	46	63.5	43.5	68.5	48.5	63	43	60.5	40.5		
	Head side	50	68	47.5	65.5	52.5	70.5	47	65	44.5	62.5		
	Both sides	66	68	63.5	65.5	68.5	70.5	63	65	60.5	62.5		

Note 1) Adjust the auto switch after confirming the operating conditions in the actual setting.

Note 2) For the dimensions other than the proper auto switch mounting position and mounting height, refer to standard type for CBG1 series.

Auto Switch Mounting Height

[mm]

Bore size	Auto switch model	D-M9□/M9□V D-M9□W/M9□WV D-M9□A/M9□AV D-F7□/F79F D-J79/F7NT D-F7□W/J79W/F7BA	D-F7□V D-F7□WV D-F7BAV	D-J79C	D-A7□ D-A80	D-A73C D-A80C	D-A79W
		Hs	Hs	Hs	Hs	Hs	Hs
20		26.5	29	32	25.5	32.5	28
25		29	31.5	34.5	28	35	30.5
32		32.5	35	38	31.5	38.5	34
40		36.5	39	42	35.5	42.5	38
50		42	44.5	47.5	41	48	43.5
63		49	51.5	54.5	48	55	50.5
80		59	61.5	64.5	58	65	60.5
100		69.5	72	75	68.5	75.5	71

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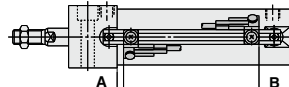
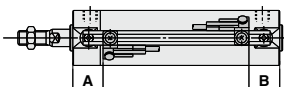
25 Auto Switch Rail Mounting Type

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Proper Auto Switch Mounting Position (Detection at stroke end) and Mounting Height

CDG1 series

CDG1R series (ø20 to ø63)



Proper Auto Switch Mounting Position (Detection at stroke end)

Applicable Cylinder Series: CDG1-XC13

(mm)

Auto switch model	D-M9□/D-M9□V D-M9□W/D-M9□WV D-M9□A/D-M9□AV		D-F7□/F79F□V D-J79/J79C D-A72AT□/A80H D-F7□W/J79W/F7□WV D-A73C/A80C		D-F7NT		D-A7□ D-A80		D-A79W	
	A	B	A	B	A	B	A	B	A	B
20	31.5	22.5 (30.5)	30.5	21.5 (29.5)	35.5	26.5 (34.5)	30	21 (29)	27.5	18.5 (26.5)
25	31	23 (31)	30	22 (30)	35	27 (35)	29.5	21.5 (29.5)	27	19 (27)
32	32.5	23.5 (31.5)	31.5	22.5 (30.5)	36.5	27.5 (35.5)	31	22 (30)	28.5	19.5 (27.5)
40	37.5	25.5 (34.5)	36.5	24.5 (33.5)	41.5	29.5 (38.5)	36	24 (33)	33.5	21.5 (30.5)
50	44.5	30.5 (42.5)	43.5	29.5 (41.5)	49	34.5 (46.5)	43	29 (41)	40.5	26.5 (38.5)
63	43	32 (44)	42	31 (43)	47	36 (48)	41.5	30.5 (42.5)	39	28 (40)
80	56	37 (51)	55	36 (50)	60	41 (55)	54.5	35.5 (49.5)	52	33 (47)
100	55	38 (52)	54	37 (51)	59	42 (56)	53.5	36.5 (50.5)	51	34 (48)

Note 1) (): For long stroke type

Note 2) Adjust the auto switch after confirming the operating conditions in the actual setting.

Proper Auto Switch Mounting Position (Detection at stroke end)

Applicable Cylinder Series: CDG1R-XC13

(mm)

Auto switch model	D-M9□/D-M9□V D-M9□W/D-M9□WV D-M9□A/D-M9□AV		D-F7□/F79F□V D-J79/J79C D-A72AT□/A80H D-F7□W/J79W/F7□WV D-A73C/A80C		D-F7NT		D-A7□ D-A80		D-A79W	
	A	B	A	B	A	B	A	B	A	B
20	10.5	22.5	9.5	21.5	14.5	26.5	9	21	6.5	18.5
25	10	23	9	22	14	27	8.5	21.5	6	19
32	11.5	23.5	10.5	22.5	15.5	27.5	10	22	7.5	19.5
40	16.5	25.5	15.5	24.5	20.5	29.5	15	24	12.5	21.5
50	18.5	30.5	17.5	29.5	22.5	34.5	17	29	14.5	26.5
63	17	32	16	31	21	36	15.5	30.5	13	28

Note) Adjust the auto switch after confirming the operating conditions in the actual setting.

Proper Auto Switch Mounting Position/Applicable Cylinder Series: CDBG1-XC13 (mm)

Lock position	H (Head side)		R (Rod side)		W (Both sides)	
	A	B Note 2)	A	B	A	B Note 2)
20	+0	+12	+11	+0	+11	+12
25	+0.5	+11.5	+11.5	-0.5	+11.5	+11.5
32	+0	+10	+10	+0	+10	+10
40	+0	+14	+9	+0	+9	+14
50	+0	+17	+12	+0	+12	+17
63	+1.5	+15.5	+13.5	-1.5	+13.5	+15.5
80	-1.5	+23.5	+14.5	+1.5	+14.5	+23.5
100	-0.5	+23.5	+15.5	+0.5	+15.5	+22.5

Note 1) For end lock cylinders, add the above values to those listed in the table for CG1-XC13.
Note 2) For the head side and both sides lock, add the above values to CG1-XC13 (long stroke) to find B.

Note 3) Adjust the auto switch after confirming the operating conditions in the actual setting.

Note 4) For the dimensions other than the proper auto switch mounting position and mounting height, refer to standard type for CDBG1 series.

Auto Switch Mounting Height

(mm)

Auto switch model	D-M9□/M9□V D-M9□W/M9□WV D-F7□/F79F D-J79/F7NT D-F7□W/J79W/F7BA		D-F79C	D-A7□ D-A80	D-A73C D-A80C	D-A79W
	Hs	Hs	Hs	Hs	Hs	Hs
20	26.5	29	32	25.5	32.5	28
25	29	31.5	34.5	28	35	30.5
32	32.5	35	38	31.5	38.5	34
40	36.5	39	42	35.5	42.5	38
50	42	44.5	47.5	41	48	43.5
63	49	51.5	54.5	48	55	50.5
80	59	61.5	64.5	58	65	60.5
100	69.5	72	75	68.5	75.5	71

Made to Order Common Specifications: -XC13: Auto Switch Rail Mounting Type

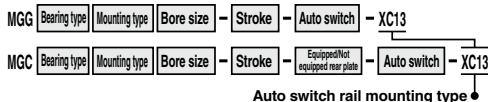


25 Auto Switch Rail Mounting Type

Symbol

-XC13

How to Order



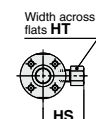
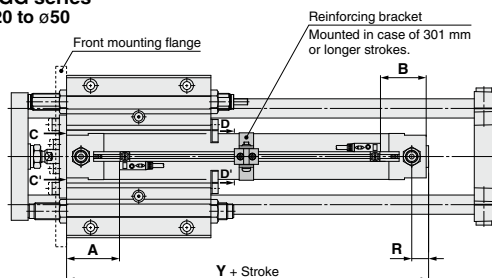
MGG/MGC Applicable Auto Switches

Rail mounting type	Solid state switch	D-M9□/M9□V, D-M9□W/M9□WV, D-M9□A/M9□AV, D-F7□, D-F7□V, D-F7BA, D-F79F, D-F79W, D-F7□WV, D-J79, D-J79C, D-J79W
	Reed switch	D-A7/A8, D-A7□H/A80H, D-A73C/A80C, D-A79W
	Auto switch specifications	
For detailed specifications about an auto switch for itself, refer to pages 1289 to 1383.		

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

MGG series

ø20 to ø50



View C-C'



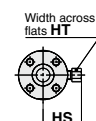
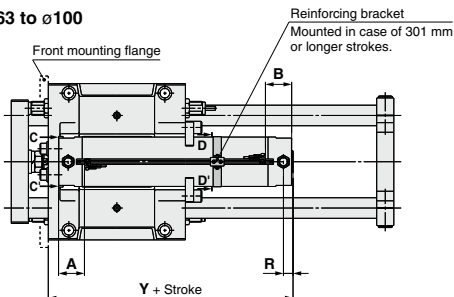
View D-D'

MGG Series

(mm)

Bore size (mm)	R	Y	HS	HT	HU
20	14	99	28.5	14	30.7
25	14	99	31	14	33.2
32	14	101	34.5	14	36.5
40	15	109	39	14	41
50	16	124	49.5	17	46.2
63	16	139	56.5	17	53.2
80	23	165	75.5	23	62.2
100	23	165	86	26	72.7

ø63 to ø100



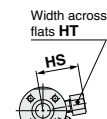
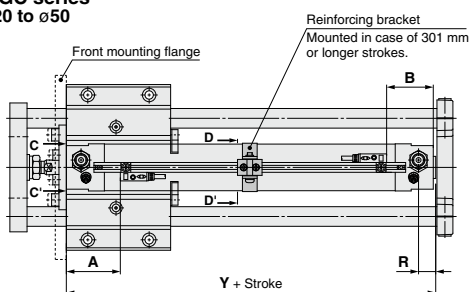
View C-C'



View D-D'

MGC series

ø20 to ø50



View C-C'



View D-D'

MGC Series

(mm)

Bore size (mm)	R	Y	HS	HT	HU
20	14	99	26	7	30.7
25	14	99	28.5	7	33.2
32	14	101	34.5	14	36.5
40	15	109	39	14	41
50	16	124	49.5	17	46.2

Made to Order Common Specifications: -XC13: Auto Switch Rail Mounting Type



25 Auto Switch Rail Mounting Type

Symbol
-XC13

Proper Auto Switch Mounting Position (Detection at stroke end) and Mounting Height

Proper Auto Switch Mounting Position/Applicable Cylinder MGG, MGC Series (mm)

Auto switch model	D-M9□/M9□V D-M9□W/M9□VV D-M9□A/M9□AV		D-F7□/F79F/F7□V D-J79/J79C D-F7□W/J79W/F7□VV D-F7BA/F7BAV D-A72/A7□H/A80H D-A73C/A80C		D-F7NT		D-A7□ D-A80		D-A79W	
	A	B	A	B	A	B	A	B	A	B
20	45.5	39.5	43	37	48	42	42.5	36.5	40	34
25	45.5	39.5	43	37	48	42	42.5	36.5	40	34
32	46.5	40.5	44	38	49	43	43.5	37.5	41	35
40	51.5	43.5	49	41	54	46	48.5	40.5	46	38
50	58.5	51.5	56	49	61	54	55.5	48.5	53	46
63	58.5	51.5	56	49	61	54	55.5	48.5	53	46
80	68.5	61.5	66	59	71	64	65.5	58.5	63	56
100	68.5	61.5	66	59	71	64	65.5	58.5	63	56

Auto Switch Mounting Height (mm)

D-M9□/M9□V D-M9□W/M9□VV D-M9□A/M9□AV D-F7□/F79F D-J79/J79C D-F7□W/J79W/F7BA	D-F7□V D-F7□VV D-F7BAV	D-J79C	D-A7□ D-A80	D-A73C D-A80C	D-A79W
Hs	Hs	Hs	Hs	Hs	Hs
26.5	29	31	26.5	32.5	30
29	31.5	33.5	29	35	32.5
32.5	34.5	36.5	32	38.5	35.5
37	39	41	36.5	43	40
42	44.5	46.5	42	48	45.5
49	51.5	53.5	49	55	52.5
58	60.5	62.5	58	64	61.5
69	71	73	68.5	74.5	72

Note 1) Adjust the auto switch after confirming the operating conditions in the actual setting.

Note 2) For dimensions other than the proper auto switch mounting position and height, refer the standard type for MGG and MGC series.

Minimum Auto Switch Mounting Stroke/CDG1, MGG, MGC

Auto switch model	No. of auto switch mounted (mm)		
	1	2	n (n: No. of auto switches) Same surface
D-M9□/M9□V D-F7□V D-J79C	5	5	10 + 10 (n-2) ^{Note} (n=4, 6···)
D-M9□VV D-M9□AV D-F7□VV D-F7BAV D-A79W	10	15	10 + 15 (n-2) ^{Note} (n=4, 6···)
D-M9□W D-M9□A	10	15	15 + 15 (n-2) ^{Note} (n=4, 6···)
D-F7□ D-J79	5	5	15 + 15 (n-2) ^{Note} (n=4, 6···)
D-F7□W/J79W D-F7BA D-F79F/F7NT	10	15	15 + 20 (n-2) ^{Note} (n=4, 6···)
D-A7□/A80 D-A7□H/A80H D-A73C/A80C	5	10	15 + 10 (n-2) ^{Note} (n=4, 6···)
D-A7□H D-A80H	5	10	15 + 15 (n-2) ^{Note} (n=4, 6···)

Note) When "n" is an odd number, an even number that is one larger than this odd number is used for the calculation. However, the minimum even number is 4. So, 4 is used for the calculation when "n" is 1 to 3.

Operating Range/CDG1, MGG, MGC

Auto switch model	Bore size (mm)							
	20	25	32	40	50	63	80	100
D-M9□/M9□V D-M9□W/M9□VV D-M9□A/M9□AV	4	4	5	4	5.5	6.5	7.5	7
D-F7□/F79F/F7□V D-J79/J79C D-F7□W/J79W/F7□VV D-F7BA/F7BAV D-F7NT	4.5	4	4.5	5	5	6	6	6
D-A7□/A80 D-A7□H/A80H D-A73C/A80C	9	9	10	11	11	13.5	13	13.5
D-A79W	11	11	13	14	14	16.5	16	16.5

* Since the operating range is provided as a guideline including hysteresis, it cannot be guaranteed. (Assuming approximately ±30% dispersion.) It may vary substantially depending on an ambient environment.

Auto Switch Mounting Bracket: Part No./CDG1, MGG, MGC

Auto switch model	Bore size (mm)
	ø20 to ø100
D-M9□/M9□V D-M9□W/M9□VV	BQ2-012
D-A9□A/A9□AV	BQ2-012S

Note 1) When adding D-M9□(V) and D-A9□W(V), order a set of auto switch mounting brackets BQ-1 and BQ2-012 for the CDQ2 series (ø12 to ø25) separately.

When ordering the auto switches other than D-M9□□□ mentioned on the left and D-F7BA(V), order auto switch mounting brackets BQ-1 separately.

Note 2) When adding D-M9□A(V), order a stainless steel screw set BBA2 together with BQ2-012S separately.

When adding the auto switch D-F7BA(V), order a stainless steel screw set BBA2 separately.