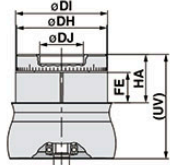
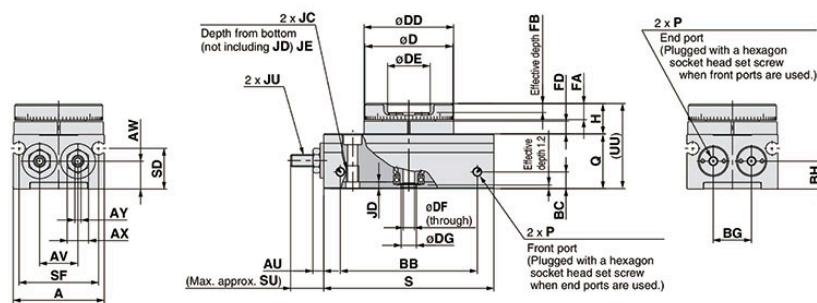


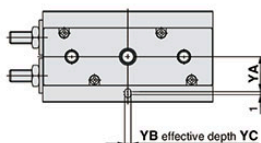
Basic type/MSQB□A



	(mm)						
Size	DH	DI	DJ	DL	FE	HA	UV
1	27h8	27.5h8	14H8	4.5H8	8.2	13.5	29.5
2	29h8	29.5h8	14H8	5 H8	9.7	15.5	33.5
3	33h8	34h8	17H8	6 H8	9.7	15.5	36
7	39h8	40h8	20H8	7 H8	9.5	16.5	39.5



	(mm)							
Size	A	AU	AV	AW	AX	AY	BA	BB
1	28	2.8	11	8.2	5.5	1.5	35	39.6
2	30	3.6	12.6	9.2	7	2	37	45.1
3	34.5	4.4	15.5	10.5	8	2.5	43	46.7
7	41	4.8	18.4	12.2	10	3	50	59.2



																								(mm)	
Size	BC	BD	BE	BG	BH	BI	BJ	D	DD	DE	DF	DG	FA	FB	FD	H	J	JA	JB	JC	JD	JE	JF	JG	
1	4.5	32	17	11	8.2	3.0	4.5	27 ¹⁰ ₉	27 ¹⁰ ₉	14H9	3.5	4.5H9	4.8	2	3.7	9	3.3	6	3.5	M4 x 0.7	2.2	5.3	M4 x 0.7	4	
2	5.5	34	18.5	12.6	9.2	3.5	4.5	29H9 ⁸ ₈	29 ¹⁰ ₉	14H9	3.8	5 H9	5.3	2.5	4.2	10	3.3	6	3.5	M4 x 0.7	2.2	5.3	M4 x 0.7	4	
3	5.5	38	23	15.5	10.5	4.0	4.5	33H9 ⁸ ₈	34 ¹⁰ ₉	17H9	5	6 H9	5.3	2.5	4.2	10	4.2	7.5	4.5	M5 x 0.8	2.5	6	M4 x 0.7	4	
7	5.5	45	30	18.4	12.2	5.0	5	39H9 ⁸ ₈	40 ¹⁰ ₉	20H9	6	7 H9	6.5	2.5	4.5	11.5	4.2	7.5	4.5	M5 x 0.8	2.5	6	M5 x 0.8	4	

(mm)																						
Size	JJ	JK	JU	P	Q	S	SD	SF	SU	UU	WA	WB	WC	WD	WE	WF	XA	XB	XC	YA	YB	YC
1	M3 x 0.5	3.5	M3 x 0.5	M3 x 0.5	16	50.5	10.8	24.4	9.4	25	9.5	2H9	2	M3 x 0.5	4.8	20	22.5	2H9	2	11	2H9	2
2	M3 x 0.5	3.5	M4 x 0.7	M3 x 0.5	18	56	13.4	26.2	11.3	28	10	2H9	2	M3 x 0.5	5.3	21	24.5	2H9	2	11.5	2H9	2
3	M3 x 0.5	3.5	M5 x 0.8	M3 x 0.5	20.5	60	15.2	31	11.8	30.5	12	2H9	2	M3 x 0.5	5.3	25	27	2H9	2	13.5	2H9	2

Size: 10, 20, 30, 50, 70, 100, 200

How to Order

Size
10
20
30
50

High Precision Type

MSQ A 10 A - M9BW

Basic Type

MSQ B 10 A - M9BW

Size
10
20
30
50
70
100
200

- **Thread type**

End port type		Size
Nil	M 5	10, 20
Nil	Rc 1/8	30, 50,
-XF	G 1/8	70, 100
-XN	NPT 1/8	200

- Side ports are all M5.

- Number of auto switches

Nil	2 pcs.
S	1 pc.
n	n pcs

- Auto switch type

Nil	Without auto switch (built-in magnet)
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* Refer to the table below for auto switch types.

Applicable Auto Switches/Refer to pages 797 to 850 for detailed auto switch specification.

Applicable Auto Switches														
Type	Special function	Electrical entry	Indicator Light	Wiring (Output)	Load voltage		Auto switch model		Load wire length [m]		Pre-wired connector	Applicable load		
					DC	AC	Perpendicular	In-line	(N/A)	(L)			(Z)	
Solid state auto switch	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	●	●	—	Relay PLC	
				3-wire (PNP)			M9PV	M9P	●	●	●	IC circuit		
				2-wire	12 V		M9BV	M9B	●	●	●	—		
				3-wire (NPN)	5 V, 12 V		M9NVV	M9NV	●	●	●	—		
				3-wire (PNP)			M9PVV	M9PV	●	●	●	IC circuit		
				2-wire	12 V		M9BVV	M9BV	●	●	●	—		
	Water resistant (2-color indicator)	Grommet	Yes	3-wire (NPN)	5 V, 12 V		M9NAV ¹	M9NA ¹	●	●	●	—		
				3-wire (PNP)			M9PAV ¹	M9PA ¹	●	●	●	IC circuit		
				2-wire	12 V		M9BAV ¹	M9BA ¹	●	●	●	—		
				—	—	—	—	A96V	A96	●	—	—	IC circuit	—
Solid state auto switch	—	Grommet	Yes	3-wire (NPN equiv.)	—	5 V	—	A96V	A96	●	—	—	Relay PLC	
			No	2-wire	24 V	12 V	100 V or less	A93V ²	A93	●	●	●		—
			No	—	—	—	—	A90V	A90	●	—	—		IC circuit

*1 Although it is possible to mount water resistant type auto switches, note that the rotary actuator itself is not of water resistant construction.
*2 1 m type lead wire is only applicable to D-A93.

* Lead wire length symbols: 0.5 m Nil (Example) M9NW
1 m M (Example) M9NWM

* Auto switches marked with a "O" are produced upon receipt of orders.

* Refer to pages 837 and 838 for the details of solid state auto switch with pre-wired connector.

* Auto switches are shipped together, (but not assembled)