






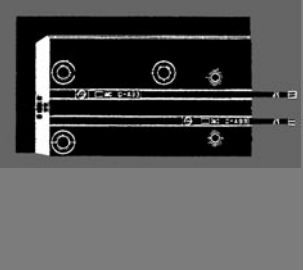


Slide Table Series MX

Variations

Compact Slide	<p>Series MXU With miniature linear guide Compact with a high degree of freedom for installation and piping</p> 	<table border="1"> <thead> <tr> <th>Tube bore (mm)</th> <th colspan="6">Standard stroke(mm)</th> </tr> <tr> <td></td> <td>5</td> <td>10</td> <td>15</td> <td>20</td> <td>25</td> <td>30</td> </tr> </thead> <tbody> <tr> <td>6</td> <td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td> </tr> <tr> <td>10</td> <td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td> </tr> <tr> <td>16</td> <td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td> </tr> </tbody> </table>	Tube bore (mm)	Standard stroke(mm)							5	10	15	20	25	30	6	•	•	•	•	•	•	10	•	•	•	•	•	•	16	•	•	•	•	•	•	P.3.14-1	CL																																																																					
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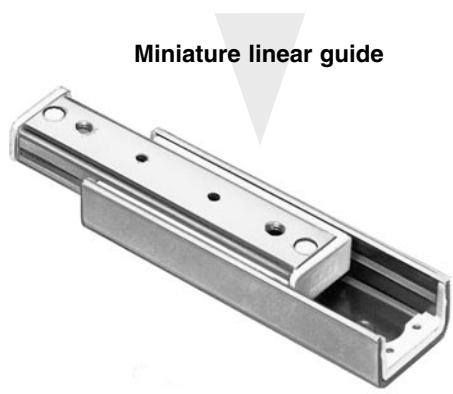
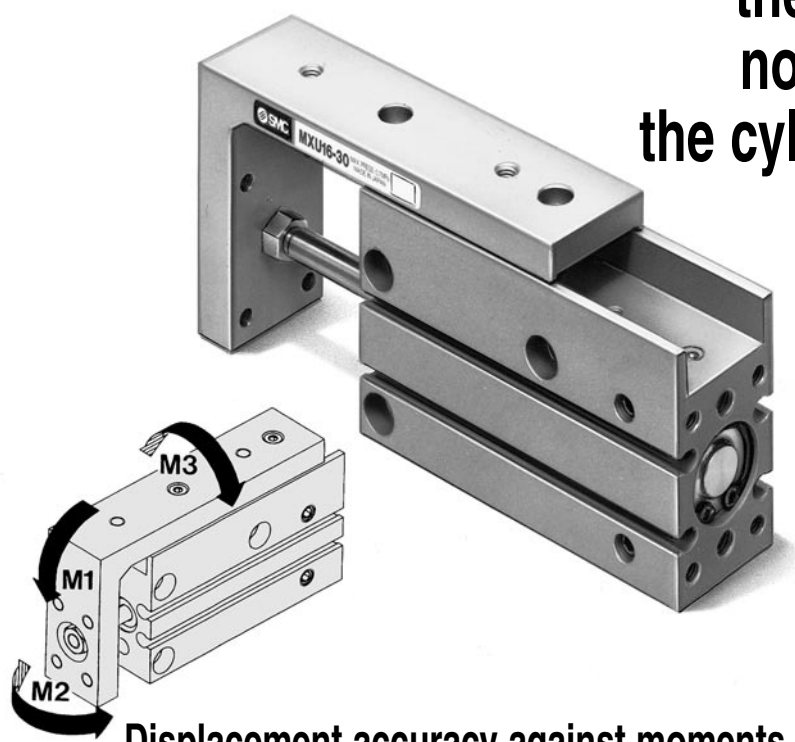


Compact Slide Series *MXU*

ø6, ø10, ø16

The miniature linear guide improves the linear movement and non-rotating accuracy of the cylinder with a worktable

- CL
- MLG
- CNA
- CNG
- MNB
- CNS
- CLS
- CB
- CV/MVG
- CXW
- CXS
- CXT
- MX
- MXU**
- MXH
- MXS
- MXQ
- MXF
- MXW
- MXP
- MG
- MGP
- MGQ
- MGG
- MGK
- MGF
- MGZ
- CY
- MY



Miniature linear guide

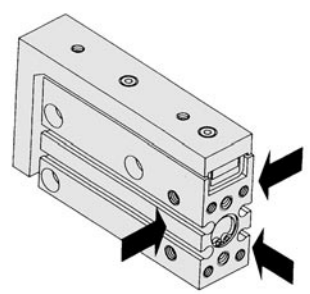
Displacement accuracy against moments

Parallel Traveling (No load) 0.05mm or less

- Table edge displacement
- Table turning angle
- M1** (Pitch moment): **0.02mm or less**
- M2** (Yaw moment): **0.01mm or less**
- M3** (Roll moment): **0.25° or less**

**Auto switch
can be mounted**

**Mouting is possible
in three directions**

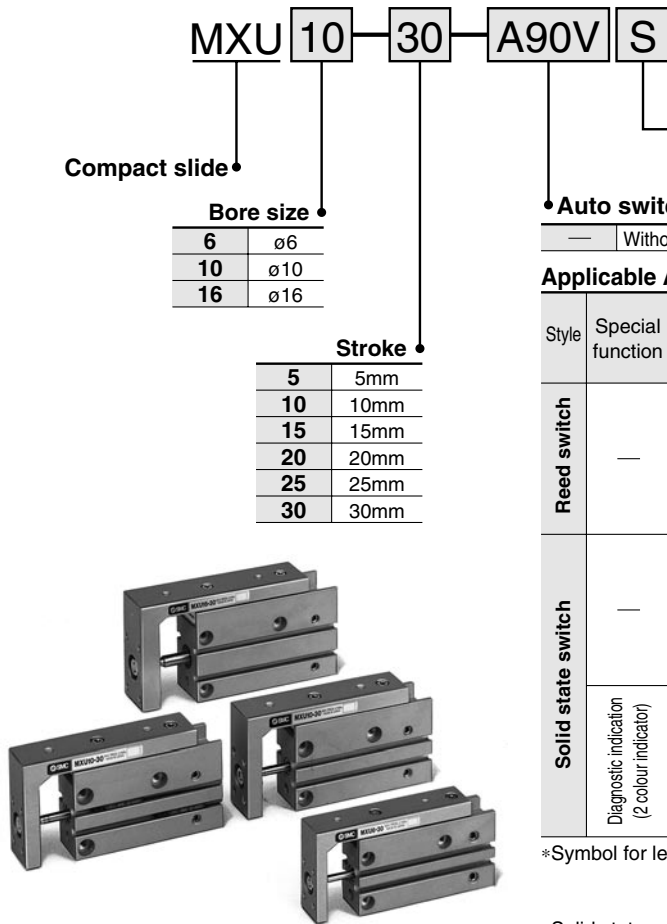


Universal mounting

Vertical mounting (Body tapped) <p>3 in parallel (Dispenser)</p>	Lateral mounting (Body through hole) <p>Parts transfer</p>	Lateral mounting (Body tapped) <p>Precision adsorption</p>	Axial mounting (Body tapped) <p>Positioning pin</p>
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Compact Slide Series *MXU*

How to Order



Applicable Auto Switches/Refer to p.5.3-2 for further details.

Style	Special function	Electrical entry	Indicator	Wiring (output)	Load voltage			Auto switch model		Lead wire length*			Applicable load
					DC	AC		Perpendicular	In-line	0.5 (—)	3 (L)	5 (Z)	
						24V	5V						
Reed switch	—	Grommet	No	2 wire	24V	5V	100V or less	A90V	A90	●	●	—	IC circuit
								A93V	A93	●	●	—	—
Reed switch	—	Grommet	Yes	3 wire (NPN)	—	5V	—	A96V	A96	●	●	—	IC circuit
								—	—	—	—	—	—
Solid state switch	Diagnostic indication (2 colour indicator)	Grommet	Yes	3 wire (NPN)	24V	12V	—	M9NV	M9N	●	●	—	Relay PLC
								M9PV	M9P	●	●	—	
								M9BV	M9B	●	●	—	
								M9NWX	M9NW	●	●	○	
								M9PWV	M9PW	●	●	○	
								M9BWX	M9BW	●	●	○	
								—	—	—	—	—	

*Symbol for lead wire length 0.5m: — e.g.) A93

3m: L e.g.) A93L

5m: Z e.g.) M9NWX

*Solid state switches marked with "○" are manufactured upon receipt of order.

Specifications

Cylinder bore (mm)	6	10	16
Fluid	Air		
Action	Double acting		
Port size	M5		
Max. operating pressure	0.7MPa		
Proof pressure	1.05MPa		
Ambient and fluid temperature	Without auto switch: -10 to +70°C With auto switch: -10 to +60°C		
Operation piston speed	50 to 500mm/sec		
Lubrication	Non-lube		
Cushion	Rubber bumper at both ends		
Allowable stroke tolerance	+1.0 0		
Auto switch (option)	Reed auto switch Solid state auto switch (2 wire style, 3 wire style)		

Min. Operating Pressure

Cylinder bore (mm)	6	10	16
Min. operating pressure	0.12	0.06	0.06

Theoretical Force Table

Unit: N

Bore size (mm)	Operating direction	Operating pressure (MPa)		
		0.3	0.5	0.7
6	IN	6	11	15
	OUT	8	14	20
10	IN	20	33	46
	OUT	24	39	55
16	IN	52	86	121
	OUT	60	101	141

Standard Stroke

Bore size (mm)	Standard stroke (mm)
6, 10, 16	5, 10, 15, 20, 25, 30

*Refer to p.3.14-10 for minimum cylinder stroke for mounting auto switches.

Weight

Model	Cylinder stroke (mm)					
	5	10	15	20	25	30
MXU6	66	72	81	88	97	103
MXU10	115	124	138	147	166	174
MXU16	216	215	251	250	285	300

Maximum Loading Weight

Model	Max. loading weight
MXU6	100
MXU10	200
MXU16	400

Allowable Moment

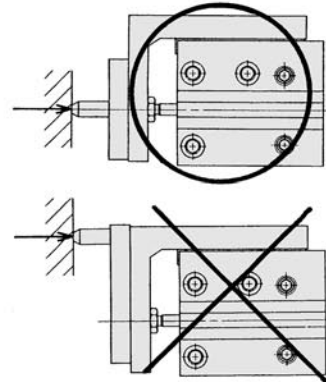
Model	Stroke	Allowable moment (Nm)			Moment centre position distance compensation amount (mm)	
		M1	M2	M3	Cp/Cy	Cr
MXU6	5	0.046	0.040	0.049	28.3	7.5
	10	0.046	0.040	0.049	28.3	
	15	0.061	0.053	0.062	31.5	
	20	0.061	0.053	0.062	34	
	25	0.076	0.066	0.074	38.5	
	30	0.076	0.066	0.074	41	
MXU10	5	0.047	0.041	0.109	28.5	9.5
	10	0.047	0.041	0.109	31	
	15	0.080	0.069	0.169	36	
	20	0.080	0.069	0.169	38.5	
	25	0.103	0.089	0.212	44	
	30	0.103	0.089	0.212	46	
MXU16	5	0.115	0.099	0.296	37.5	12
	10	0.115	0.099	0.296	37.5	
	15	0.153	0.132	0.380	46	
	20	0.153	0.132	0.380	46	
	25	0.190	0.165	0.464	50	
	30	0.190	0.165	0.464	52.5	

Precaution

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

⚠ Caution

- Do not place your fingers in the clearance between the table and the cylinder tube. Your fingers could get caught between the table and the cylinder tube when the piston rod retracts. Because the cylinder outputs a great force, it could lead to injury if precautions are not taken to prevent your fingers from getting caught.
- In terms of the load weight and moment, the cylinder must be operated below the maximum load weight and allowable moment.
- If the output of the compact slide is applied directly to the table, make sure it is applied along the rod axial line. (Refer to the diagram below.)



- Make sure to connect a speed controller and adjust it to a speed of 500mm/s or less to operate the cylinder.

Expression of Calculation of Allowable Fp, Fy, Fr

Pitch moment	Yaw moment	Roll moment
$F_p = \frac{M_1 \times 1000}{L_p + C_p + (St/2)} \text{ (N)}$ <p>Lp: Distance between table and loading point (mm) Cp: Moment center position distance compensation amount (mm) St: Stroke (mm)</p>	$F_y = \frac{M_2 \times 1000}{L_y + C_y + (St/2)} \text{ (N)}$ <p>Ly: Distance between table and loading point (mm) Cy: Moment center position distance compensation amount (mm) St: Stroke (mm)</p>	$F_r = \frac{M_3 \times 1000}{L_r + C_r} \text{ (N)}$ <p>Lr: Distance between table and loading point (mm) Cr: Moment center position distance compensation amount (mm)</p>

CL

MLG

CNA

CNG

MNB

CNS

CLS

CB

CV/MVG

CXW

CXS

CXT

MX

MXU

MXH

MXS

MXQ

MXF

MXW

MXP

MG

MGP

MGQ

MGG

MGC

MGF

MGZ

CY

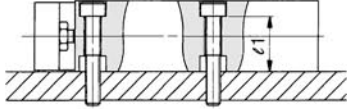
MY

Series MXU

Compact Slide Mounting

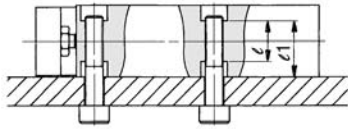
The compact slide can be mounted in four directions. Select the best direction according to the machine and work to be used.

Lateral mounting (Body through hole)



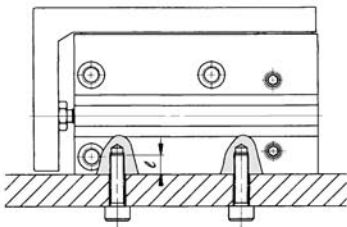
Model	Bolt	Max. torque Nm	l1
MXU6	M3	1.1	12.7
MXU10	M4	2.5	15.6
MXU16	M4	2.5	20.6

Lateral mounting (Body tapped)



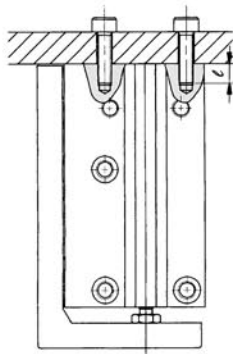
Model	Bolt	Max. torque Nm	l1	l
MXU6	M4	2.5	12.7	9.4
MXU10	M5	5.1	15.6	11.2
MXU16	M5	5.1	20.6	16.2

Vertical mounting (Body tapped)



Model	Bolt	Max. torque Nm	l
MXU6	M3	1.1	4.8
MXU10	M4	2.5	6
MXU16	M4	2.5	6

Axial mounting (Body tapped)

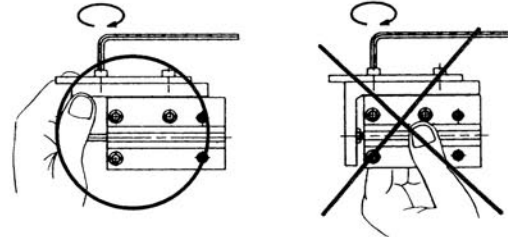


Model	Bolt	Max. torque Nm	l
MXU6	M3	1.1	4.8
MXU10	M4	2.5	6
MXU16	M4	2.5	6

Work Mounting

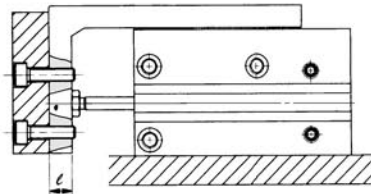
Work can be mounted on two sides of the compact slide.

- The table is supported by miniature linear guide. Be careful not to apply strong impacts or excessive moments when mounting work.
- When tightening the work on the table with bolts, it should be done while holding the table. If holding the body, it may cause more than allowable moment to the guide, leading to decrease in accuracy.



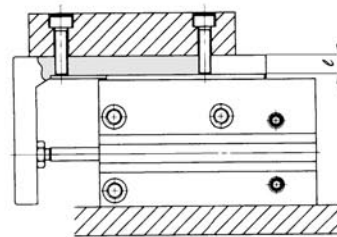
- Select the best method for connection with the load having a supporting/guiding mechanism on its outside. Alignment should be complete.
- Scratches or dents on the sliding section of the piston rod cause malfunction or air leakage.

Front face mounting



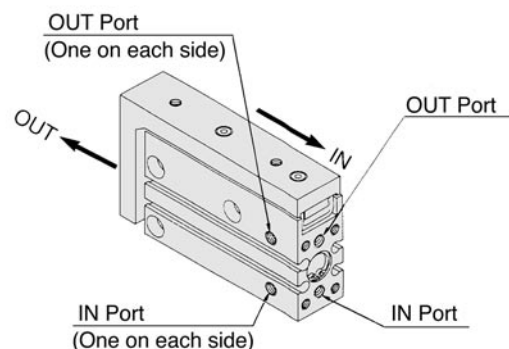
Model	Bolt	Max. torque Nm	l
MXU6	M3	1.1	5
MXU10	M4	2.5	7
MXU16	M4	2.5	9.5

Top face mounting

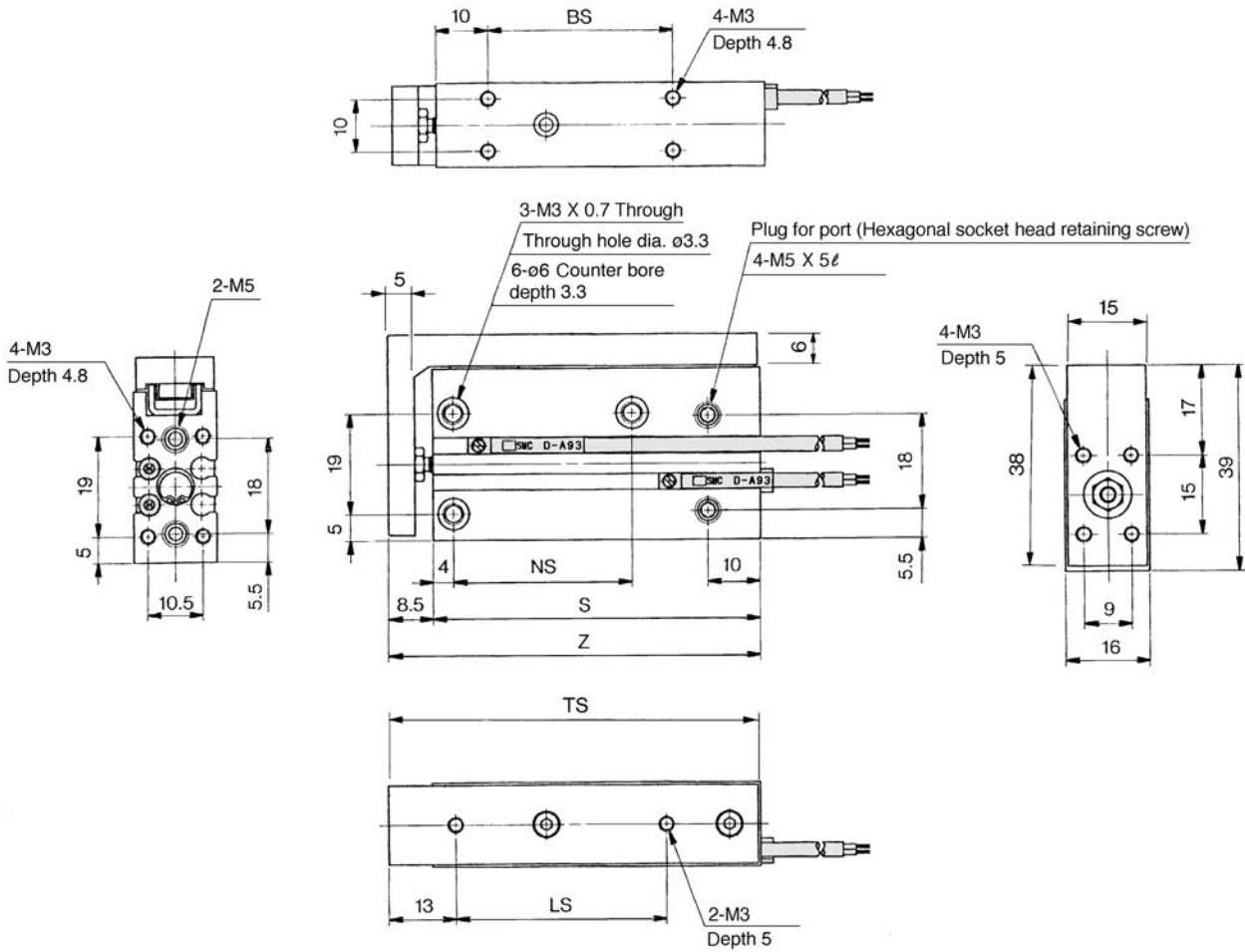


Model	Bolt	Max. torque Nm	l
MXU6	M3	1.1	5
MXU10	M4	2.5	6
MXU16	M4	2.5	6

Operational Direction for Each Pressure Port



Dimensions MXU **6**($\phi 6$)

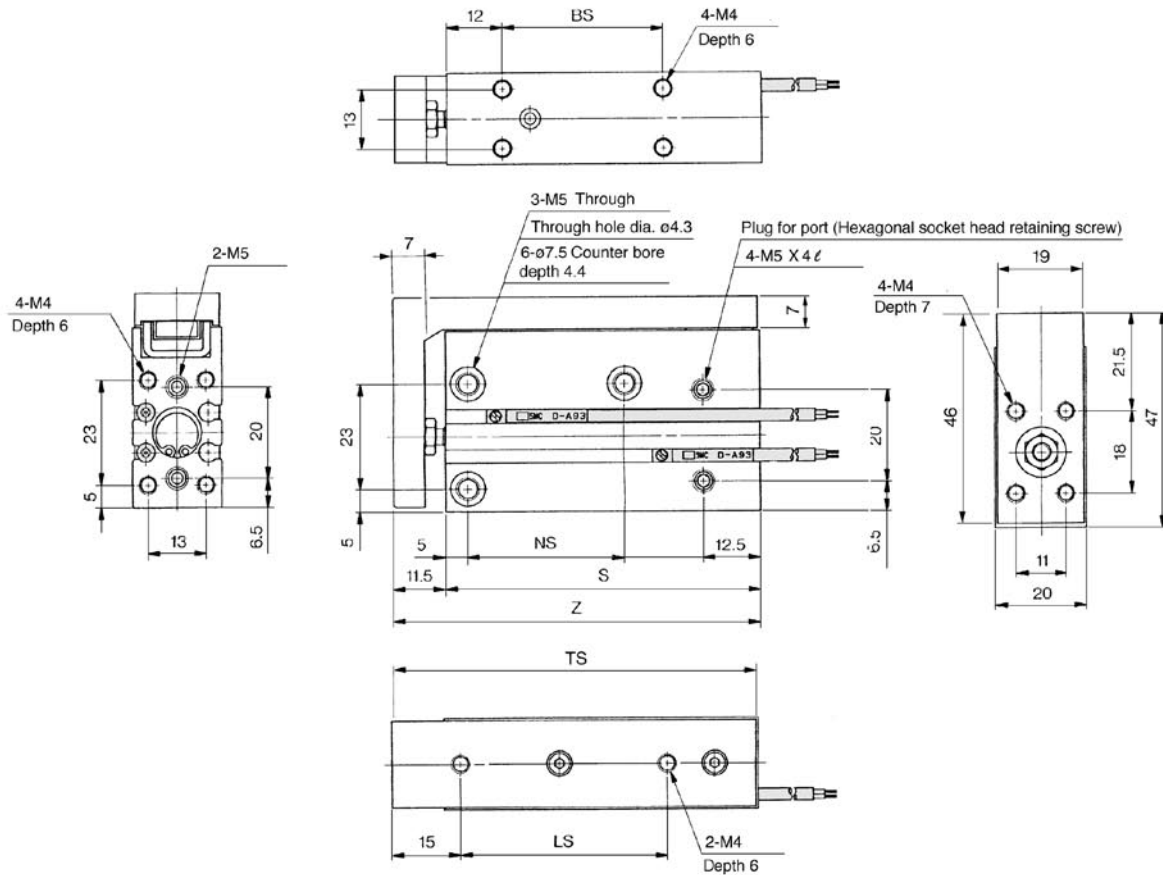


Stroke (mm)	BS	LS	NS	S	Z	TS
5	10	20	14	37.5	46	45.5
10	15	20	14	42.5	51	50.5
15	20	25	24	47.5	56	55.5
20	25	30	24	52.5	61	60.5
25	30	40	34	57.5	66	65.5
30	35	40	34	62.5	71	70.5

- CL
- MLG
- CNA
- CNG
- MNB
- CNS
- CLS
- CB
- CV/MVG
- CXW
- CXS
- CXT
- MX
- MXU**
- MXH
- MXS
- MXQ
- MXF
- MXW
- MXP
- MG
- MGP
- MGQ
- MGG
- MGC
- MGF
- MGZ
- CY
- MY

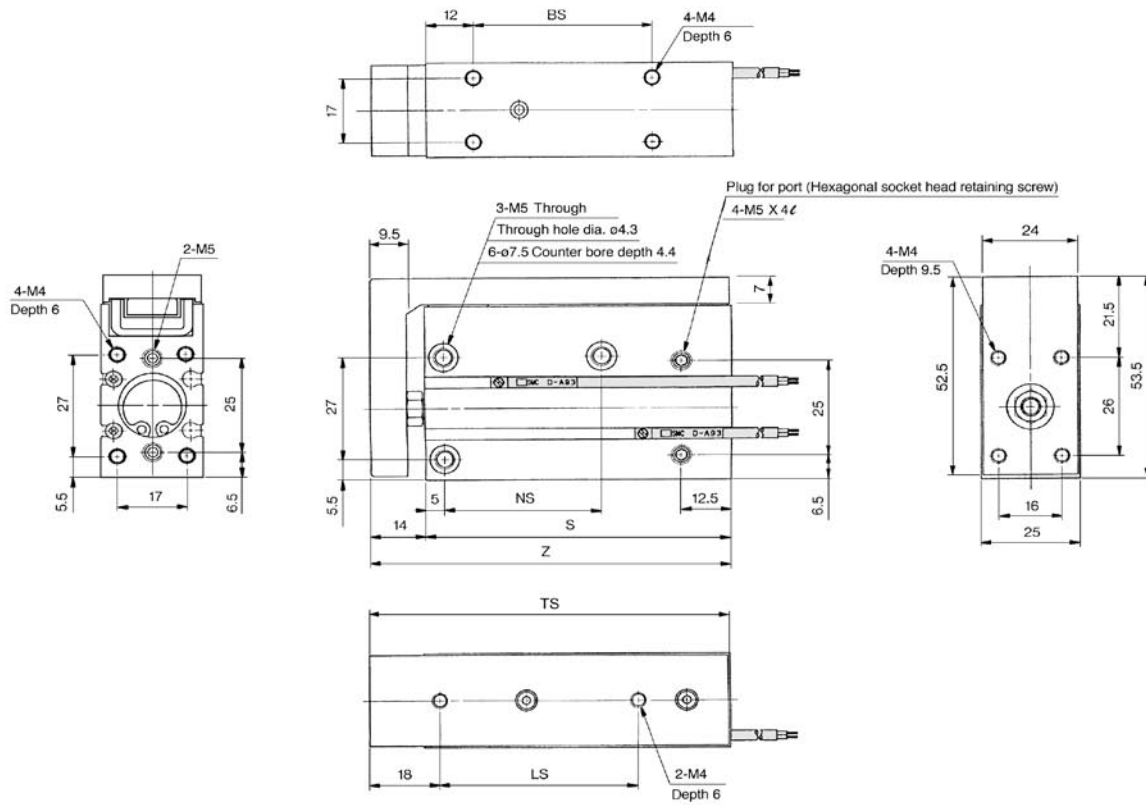
Series MXU

MXU 10_(ø10)



Stroke (mm)	BS	LS	NS	S	Z	TS
5	10	14	14	41.5	53	52.5
10	14	19	14	46.5	58	57.5
15	18	25	24	51.5	63	62.5
20	24	30	24	56.5	68	67.5
25	32	40	34	64.5	76	75.5
30	35	45	34	68.5	80	79.5

Dimensions MXU **16** (ø16)



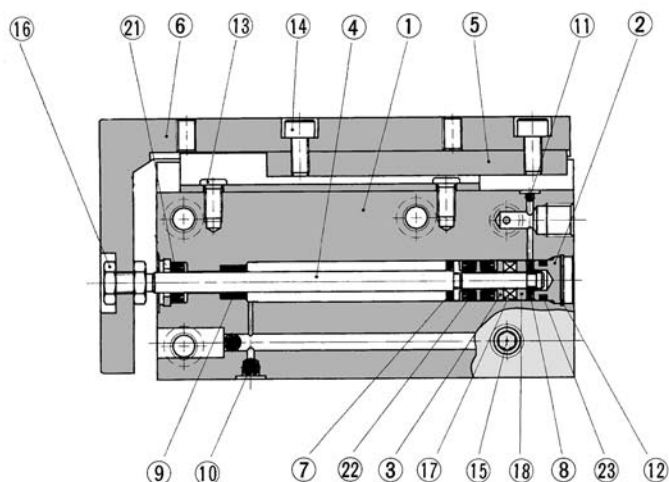
Stroke (mm)	BS	LS	NS	S	Z	TS
5	20	24	24	52	66	65.5
10	20	24	24	52	66	65.5
15	30	35	34	62	76	75.5
20	30	35	34	62	76	75.5
25	40	45	40	72	86	85.5
30	45	50	40	77	91	90.5

- CL
- MLG
- CNA
- CNG
- MNB
- CNS
- CLS
- CB
- CV/MVG
- CXW
- CXS
- CXT
- MX
- MXU**
- MXH
- MXS
- MXQ
- MXF
- MXW
- MXP
- MG
- MGP
- MGQ
- MGG
- MGC
- MGF
- MGZ
- CY
- MY

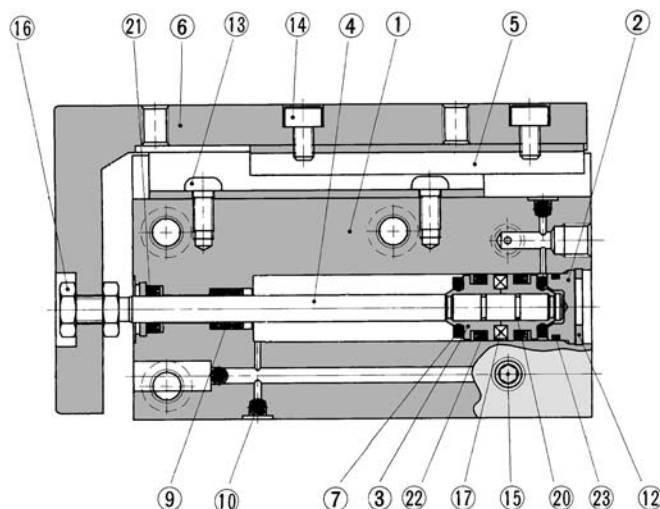
Series MXU

Construction

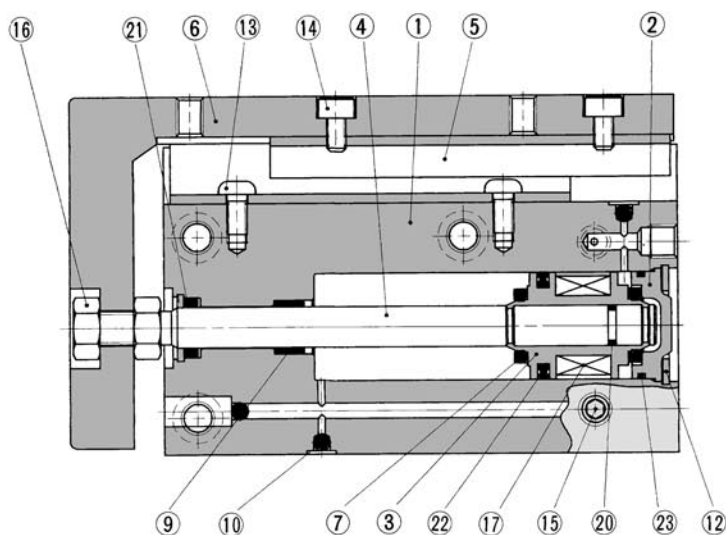
MXU6 (ø6)



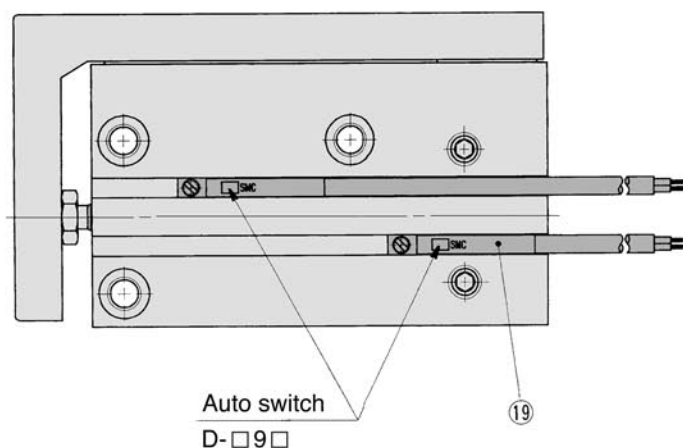
MXU10 (ø10)



MXU16 (ø16)



With auto switch



Component Parts

No.	Description	Material	Note
①	Cylinder tube	Aluminum alloy	Hard anodized
②	Head cover	Brass	ø6, ø10Electroless nickel plated
		Aluminum alloy	ø16White chromated
③	Piston	Brass	ø6, ø10
		Aluminum alloy	ø16
④	Piston rod	Stainless steel	
⑤	Miniature linear guide	—	
⑥	Table	Aluminum alloy	Hard anodized
⑦	Damper A	Urethane	
⑧	Damper B	Urethane	
⑨	Bush	Oil impregnated sintered alloy	Oil impregnated
⑩	Steel ball A	Hi-carbon chromium bearing	
⑪	Steel ball B	Hi-carbon chromium bearing	
⑫	For hole C type retaining ring	Carbon tool steel	Phosphate coated
⑬	Cross-recessed pan-head screw	Carbon steel	

Component Parts

No.	Description	Material	Note
⑭	Hex. socket head cap screw	Chrome molybdenum steel	Nickel plated
⑮	Hex. socket head plug	Chrome molybdenum steel	Nickel plated
⑯	Rod end nut	Carbon steel	Nickel plated
⑰	Magnet	Magnet	ø6, ø10Nickel plated
		Synthetic rubber	ø16
⑱	Magnet holder	Brass	
⑲	Auto switch	—	D-□9□
⑳	Piston gasket	NBR	
㉑	Rod seal	NBR	
㉒	Piston seal	NBR	
㉓	Gasket	NBR	

Series MXU Auto Switch Specifications

Refer to p.5.3-2 for the details on the auto switch.



Applicable auto switch model

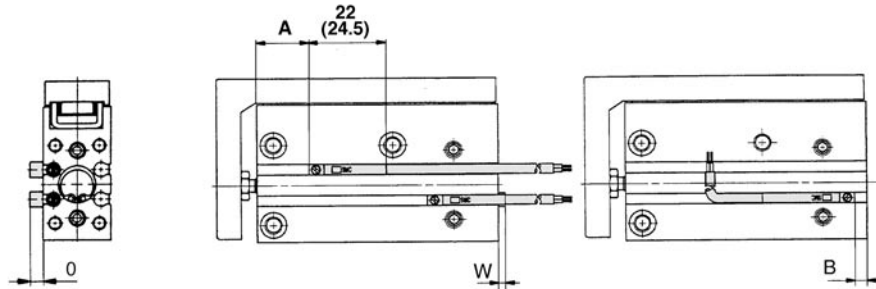
Auto switch style	Model	Electrical entry	Page	
Reed switch	D-A90	Grommet	Cabtire cable (In-line)	
	D-A93			5.3-19
	D-A96			5.3-19
	D-A90V		5.3-20	
	D-A93V		5.3-20	
	D-A96V		5.3-20	
Solid state switch	D-M9N	Grommet	Cabtire cable (In-line)	
	D-M9P			5.3-39
	D-M9B			5.3-39
	D-M9NV		5.3-39	
	D-M9PV		5.3-39	
	D-M9BV		5.3-39	
	D-M9NW		Cabtire cable (In-line)	5.3-66
	D-M9PW			5.3-66
	D-M9BW			5.3-66
	D-M9NWW		Cabtire cable (Perpendicular)	5.3-66
	D-M9PWW			5.3-66
	D-M9BWW			5.3-66
	D-M9BWW			5.3-66



Auto Switch Mounting Position

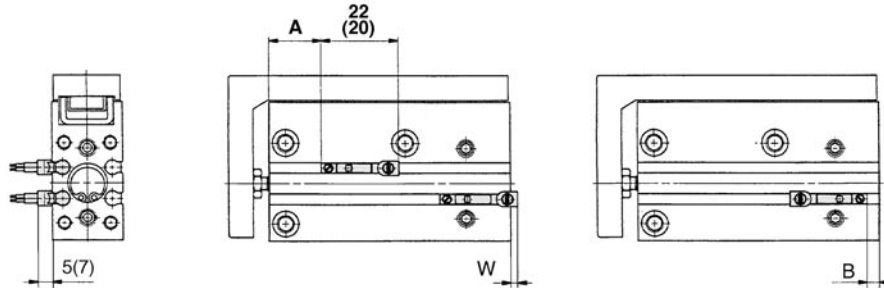
D-A9□
D-M9□
D-M9□W

() : D-A93



D-A9□V
D-M9□V
D-M9□VW

() : D-M9□V, D-M9□VW

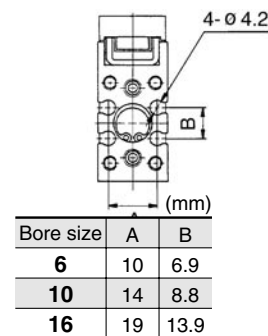


Double acting style

(mm)

Bore size	Stroke	D-A9□/D-A9□V			D-M9B/D-M9P/D-M9N/D-M9□W			D-M9□V/D-M9□VW		
		A	B	W	A	B	W	A	B	W
6	5 to 30	13	0	2.5(5)	17	3.5	6.5	17	3.5	4.5
	5 to 20	13			17			17		
10	25	16	3.5	-1.5 (1)	20	7.5	2.5	20	7.5	0.5
	30	15			19			19		
16	5	23	4	-2 (0.5)	27	8	2	27	8	0
	10	18			22			22		
	15	23			27			27		
	20	18			22			22		
	25	23			27			27		
	30	23			27			27		

Switch Groove Position



Note 1) Models whose "W" is negative are mounted in a position not projecting from the cylinder.
 Note 2) In the case of models with 5 and 10 strokes, the switch may not turn off within the operation range or two switches may turn on simultaneously. Fix switches outside 1 to 4mm further than the values in the above table.

Note 3) () : D-A93

CL

MLG

CNA

CNG

MNB

CNS

CLS

CB

CV/MVG

CXW

CXS

CXT

MX

MXU

MXH

MXS

MXQ

MXF

MXW

MXP

MG

MGF

MGQ

MGG

MGC

MGF

MGZ

CY

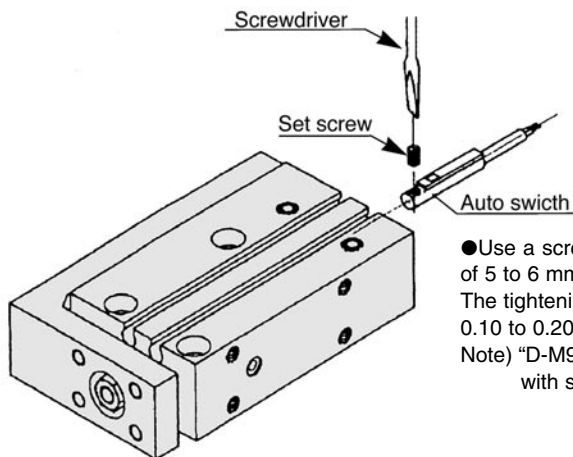
MY

Series MXU

Minimum cylinder stroke for mounting auto switches (mm)

Number of auto switches	Applicable auto switch		
	D-A9□ D-A9□V	D-M9□ D-M9□V	D-M9□W D-M9□WV
1 pc.	5	5	5
2 pcs.	10	5	10

Auto Switch Mounting



- Use a screwdriver with a grip diameter of 5 to 6 mm to tighten the set screw. The tightening torque should be about 0.10 to 0.20 Nm
- Note) "D-M9□V" cannot be mounted with side piping.

Precautions for close proximity installation

When compact slide cylinders equipped with D-A9* or D-M9* auto switches are used, the auto switches could activate unintentionally if the installed distance is less than the dimension shown in table [1]. Therefore, make sure to provide at least this much clearance. Due to unavoidable circumstances, if they must be used with less distance than the dimensions given in the table below, the cylinders must be shielded. Therefore, affix a steel plate or a magnetic shield plate (MU-S025) to the area on the cylinder that corresponds to the adjacent auto switch. (Contact SMC for details.) The auto switch could activate unintentionally if a shield plate is not used.

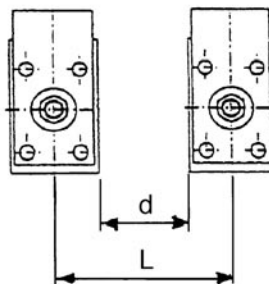


Table ① (mm)

Bore size (mm)	d	L
MXU6	5	21
MXU10	5	25
MXU16	10	35