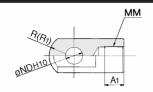
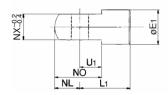
Single Knuckle Joint



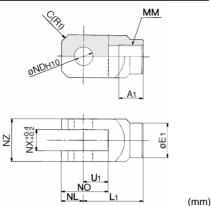


Part No.	Size	A1	E1	L1	ММ
I-MU02	25	10.5	16	27	M10 X 1.25
I-MU03	32	12	18	31	M12 X 1.25
I-MU04	40	14	20	36	M14 X 1.5
I-MU05	50, 63	18	28	46	M18 X 1.5

(mm)

Part No.	NDH10	NL	NO	NX	R1	U1
I-MU02	8 +0.058	8.5	19.5	9	8.5	11
I-MU03	10 +0.058	10	24	11	10	14
I-MU04	10 +0.058	11	26	13	11	15
I-MU05	14 +0.070	16	36	16	16	20

Double Knuckle Joint



						, ,
Part No.	Size	A1	E1	L1	ММ	NDH10
Y-MU02	25	10.5	14	27	M10 X 1.25	8 +0.058
Y-MU03	32	12	18	31	M12 X 1.25	10 +0.058
Y-MU04	40	14	20	36	M14 X 1.5	10 +0.058
Y-MU05	50, 63	18	28	46	M18 X 1.5	14 +0.070

Part No.	NL	NO	NX	NZ	R1	U1	Applicable pin
Y-MU02	8	21	9	18	3	13	CD-MU02
Y-MU03	10	24	11	22	4	14	CD-MU03
Y-MU04	10	27	13	26	5	17	CD-MU04
Y-MU05	16	39	16	32	6	23	CD-MU05

^{*} Knuckle pin and snap ring are packed with the double clevis style.

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

Mounting

⚠ Caution

- ① To secure a workpiece to the end of the piston rod, make sure to retract the piston rod entirely. Place a wrench on the wrench flats at the end of the rod, and tighten it without applying torque to the piston rod in excess of the allowable installation torque.
- ② Operate in such a way that the load to the piston rod is always applied in the axial direction. Furthermore, avoid operations that could apply rotational torque to the piston rod. If rotational torque must be applied due to unavoidable circumstances, use the table below as a guide to make sure the allowable rotational torque is not exceeded.

Allowable Rotating Torque					
Size	25	32	40	50	63
Allowable rotating torque	0.25	0.25	0.55	1.25	2.0
Work mounting allowable torque	1.7	1.9	2.0	4.9	7.3

③ Operating the cylinder by connecting the piping directly to the cylinder can cause the piston speed to exceed the maximum operating speed of 500mm/s. Therefore, to operate the cylinder, make sure to use an SMC speed controller and adjust the piston speed to 500mm/s or less. CU

CQS

CQ₂

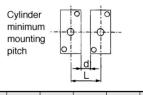
MU

Auto Switch Precaution

Be sure to read before handling. Refer to p.0-44 to 0-46 for auto switch common precautions.

Marning

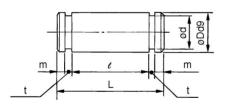
① If multiple cylinders are operated adjacent to each other, the magnets that are enclosed in the adjacent cylinders could affect the operation of the auto switches, causing the switches to malfunction. Therefore, make sure that the mounting pitch of the cylinders is at least that indicated in the table below.



		Į.	<u> </u>		(mm)
Size	ø25	ø32	ø40	ø50	ø63
L(d)	33(10)	32(5)	36(5)	38(0)	49(0)

If the cylinders must be operated with the mounting pitch less than indicated above, they must be shielded with steel plates or magnetic shield plates (Part No.: MU-S025). Contact SMC for details.

Clevis Pin, Knuckle Pin

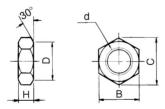


					(mm)
Part No.	Size	Dd9	L	d	e
CD-MU02	25	8 -0.040 -0.076	23	7.6	18.2
CD-MU03	32	10 -0.040	27	9.6	22.2
CD-MU04	40	10 -0.040	31	9.6	26.2
CD-MU05	50, 63	14-0.050	38	13.4	32.2

Part No.	m	t	Snap ring
CD-MU02	1.5	0.9	C shape for axis8
CD-MU03	1.25	1.15	C shape for axis10
CD-MU04	1.25	1.15	C shape for axis10
CD-MU05	1.75	1.15	C shape for axis14

These are installed with double clevis style and double knuckle joint style as standard.

Rod End Nut



						(mm)
Part No.	Size	d	Η	В	С	D
NT-03	25	M10 X 1.25	6	17	19.6	16.5
NT-MU03	32	M12 X 1.25	7	19	21.9	18
NT-04	40	M14 X 1.5	8	22	25.4	21
NT-05	50, 63	M18 X 1.5	11	27	31.2	26

 A nut is attached with rod end male thread as standard (Double rod style: 2 pcs.)