MCMJ series







Table for standand stroke

	Tube I.D.	Stroke (mm)
	φ6	15,30,45,60
Single acting	φ10	15,30,45,60
ŭ	φ 16	15,30,45,60,75,100,125,150
	φ6	15,30,45,60
Double acting	φ10	15,30,45,60,75,100,125,150
	φ16	15,30,45,60,75,100,125,150,175,200

Features

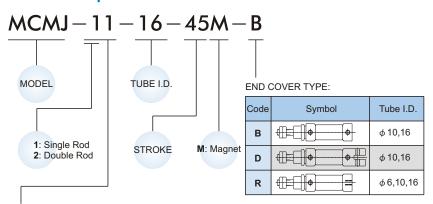
- Special housing and bushing enables self lubrication of piston
- High quality long service life.
- Cylinder mountings, available with a comprehensive range of accessories for rigid or flexible mounting.

Specification

N	Nodel			MCMJ				
Tube I.D. (mm	1)		φ6	φ10	φ16			
Port size				M5×0.8				
Medium				Air				
Max operation	pressure	9	0.7 MPa					
Min operation	Single	normally extended	0.25	0.1	5			
pressure (MPa)	acting	normally returned	0.2	0.1	5			
	Double	acting	0.12	0.0)6			
Proof pressure)			1 MPa				
Ambient tempe	erature		-5~+	60℃ (No fr	eezing)			
Available spee	d range		50	~500mm/s	ec			
Lubrication				Not required	b			
Sensor switch	(%)			RCS	RCM,RCS			
Sensor switch	hand		BJ6 BJ10 BJ16					
Sensor Switch	Danu		— — ВМ					

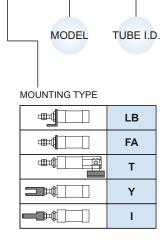
- RCM, RCS specification, please refer to page V-11, V-12.
 Senser switch band BM** only for RCM.

Order example



Со	de	Symbol	Description
1	1		Double acting / Male thread
1	3		Single acting / Normally extended male thread
1	5		Single acting / Normally returned male thread
2	1		Double rod / Male thread
2	2 7		Double rod / Adjustable male thread

Mounting accessories FA-MCMJ-16



- for tube I.D. φ 10,16





STYLE:

MCMJ Inside structure & Parts list

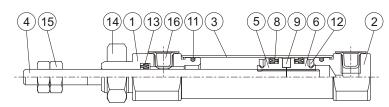


PEN CYLINDERS

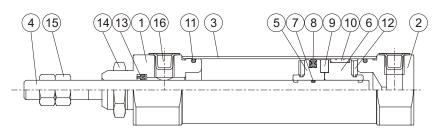
 ϕ 6

4 15 14 1 13 16 11 3 5 8 9 6 12 2

 ϕ 10

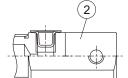


 ϕ 16









D type: ϕ 10, ϕ 16



R type: ϕ 6, ϕ 10, ϕ 16

Material

No.	Tube I.D. Part name	6	10	16	Q'y	Componentn parts (inclusion)
1	Rod cover	Alui	minum a	lloy	1	•
2	Head cover	Aluı	minum a	lloy	1	•
3	Tube	Sta	inless st	1		
4	Piston rod	Sta	inless st	1		
5	Piston-R	Aluı	minum a	1	•	
6	Piston-H	Aluı	minum a	1	•	
7	Piston gasket		_	NBR	1	•
8	Piston packing		NBR	2(**)	•	
9	Magnet ring	Мад	net mat	erial	1	•
10	Wear ring	l	-	% 1	1	•
11	Cover ring		NBR		2	•
12	Cushion packing		NBR		2	•
13	Snap ring		NBR		1	•
14	Tie nut	Ca	arbon ste	eel	1	•
15	Rod front nut	Ca	arbon ste	eel	2	•
16	Port plug		Plastic		2	•

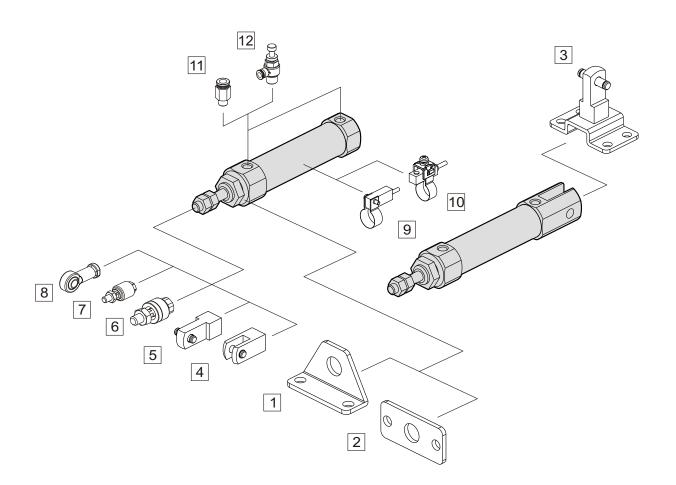
Order example of component parts

Tube I.D.	Component parts
φ6	CP-MCMJ-6-R
	CP-MCMJ-10-R
φ 10	CP-MCMJ-10-B
	CP-MCMJ-10-D
	CP-MCMJ-16-R
φ 16	CP-MCMJ-16-B
	CP-MCMJ-16-D



X Cylinder bore 16 (Required quantity: 1 psc)



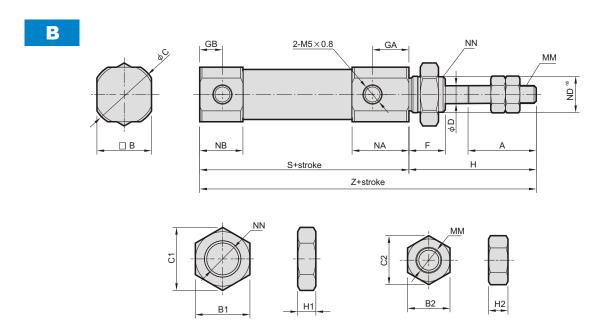


No.	Accessories	Page
1	Mounting accessories LB	L-51,53,55
2	Mounting accessories FA	L-52,54,56
3	Mounting accessories T+I+PIN (**)	L-52,54,56
4	Accessories Y+PIN	L-57
5	Accessories I+PIN	L-57
6	Floating joint MFC	V-01
7	Floating joint MFCS	V-03
8	Female rod ends PHS	V-04

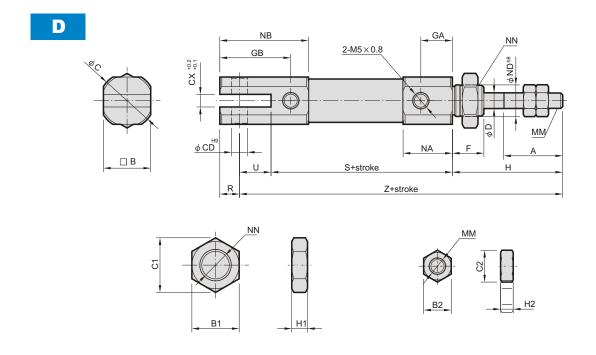
No.	Accessories	Page
9	Sensor switch RCM+BM**	V-11
10	Sensor switch RCS+BJ**	V-12
11	Fitting PC (PISCO)	H-03
12	Speed controller JSC (PISCO)	H-14

Only for end cover "D" type

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Code Tube I.D.	Α	В	В1	B2	С	C1	C2	D	F	GA	GB	Н	H1	H2	ММ	NA	NB	ND ^{h8}	NN	S	Z
10	15	12	11	7	14	11.5	8.1	4	8	8	5	28	4	3.2	M4×0.7	12.5	9.5	8 -0.022	M8×1.0	46	74
16	15	18	14	8	20	16.2	9.2	5	8	8	5	28	4	4	M5×0.8	12.5	9.5	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M10×1.0	47	75



Tube		Α	В	B1	B2	С	CD	СХ	C1	C2	D	F	GA	GB	Н	H1	H2	MM	NA	NB	ND ^{h8}	NN	R	S	U	Z
1	10	15	12	11	7	14	3.3	3.2	12.7	8.1	4	8	8	18	28	4	3.2	M4×0.7	12.5	22.5	8 -0.022	M8×1.0	5	46	8	82
1	16	15	18	14	8	20	5	6.5	16.2	9.2	5	8	8	23	28	4	4	M5×0.8	12.5	27.5	10 -0.022	M10×1.0	8	47	10	85

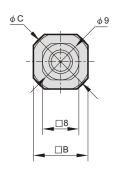


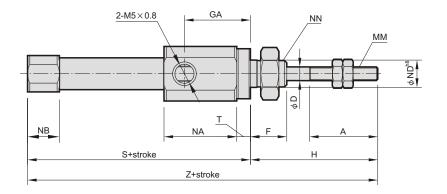


PEN CYLINDERS

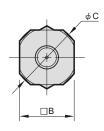


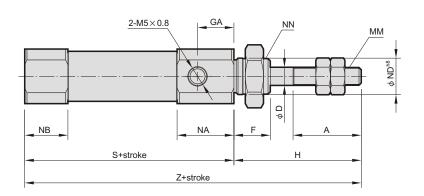
MCMJ-6

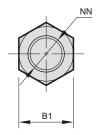


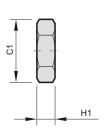


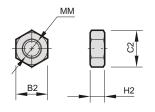
MCMJ-10 / MCMJ-16











Code Tube I.D.	Α	В	B1	B2	С	C1	C2	D	F	GA	Н	H1	H2	ММ	NA	NB	ND ^{h8}	NN	S	Т	Z
6	15	12	8	5.5	14	9.2	6.4	3	8	14.5	28	4	2.4	M3×0.5	16	7	6 -0.022	M6×1.0	49	3	77
10	15	12	11	7	14	12.7	8.1	4	8	8	28	4	3.2	M4×0.7	12.5	9.5	8 -0.022	M8×1.0	46		74
16	15	18	14	8	20	16.2	9.2	5	8	8	28	4	4	M5×0.8	12.5	9.5	10 -0.022	M10×1.0	47		75

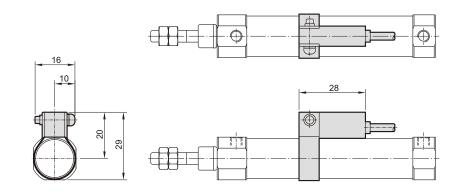


MCMJ Installation of sensor switch ϕ 6~ ϕ 16

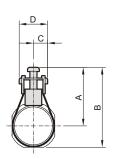


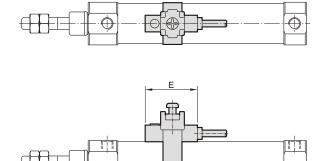
PEN CYLINDERS

Sensor switch: RCM Sensor switch band: BM**



Sensor switch: RCS Sensor switch band: BJ**





Code Tube I.D.	Α	В	С	D	Е
6	18.1	24.1	6	12	22
10	20.1	26.1	6	12	22
16	23.4	32.4	6	12	22



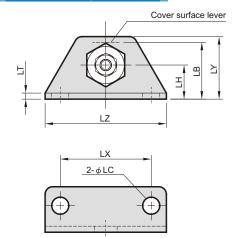
f MCMJ Mounting accessories / Double acting ϕ 6~ ϕ 16

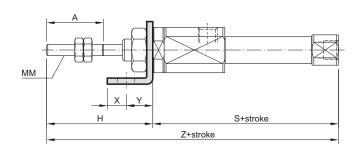


PEN CYLINDERS

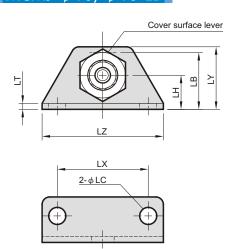
LB

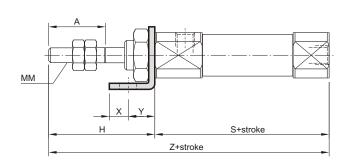
MCMJ- ϕ 6-LB





MCMJ- ϕ 10, ϕ 16-LB





Code Tube I.D.	Α	Н	LB	LC	LH	LT	LX	LY	LZ	MM	S	Х	Υ	Z
6	15	28	15	4.5	9	1.6	24	16.5	32	M3×0.5	49	5	7	77
10	15	28	15	4.5	9	1.6	24	16.5	32	M4×0.7	46	5	7	74
16	15	28	23	5.5	14	2.3	33	25	42	M5×0.8	47	6	9	75



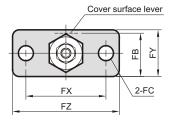
f MCMJ Mounting accessories / Double acting ϕ 6~ ϕ 16

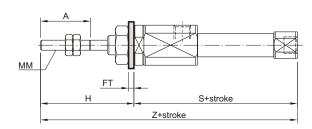


PEN CYLINDERS

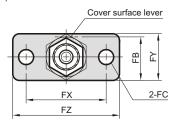


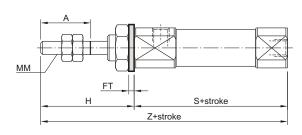
φ6





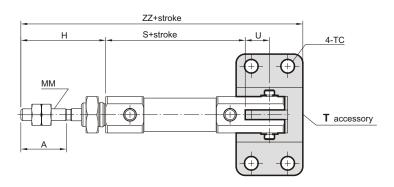
φ 10~ φ 16

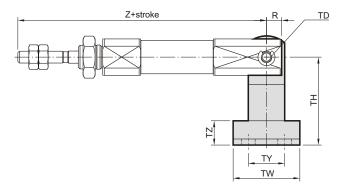


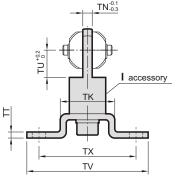


Code Tube I.D.	Α	FB	FC	FT	FX	FY	FZ	Н	MM	S	Z
6	15	13	4.5	1.6	24	14	32	28	M3×0.5	49	77
10	15	13	4.5	1.6	24	14	32	28	M4×0.7	46	74
16	15	19	5.5	2.3	33	20	42	28	M5×0.8	47	75







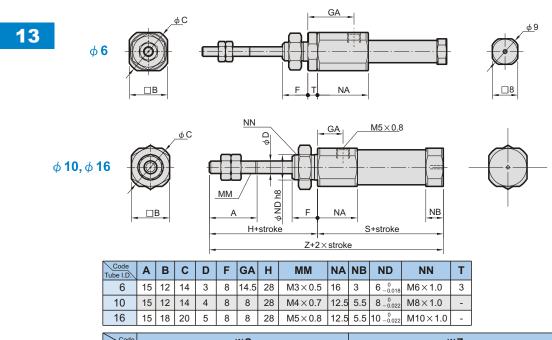


Code Tube I.D.	Α	Н	ММ	R	S	тс	TD ^{H10}	тн	TK	TN	TT	TU	TV	TW	TX	TY	TZ	U	Z	ZZ
10	15	28	M4×0.7	5	46	4.5	3.3 +0.048	29	18	3.1	2	9	40	22	32	12	8	8	8	93
16	15	28	M5×0.8	8	47	4.5	5 +0.048	35	20	6.4	2.3	14	48	28	38	16	10	10	10	99





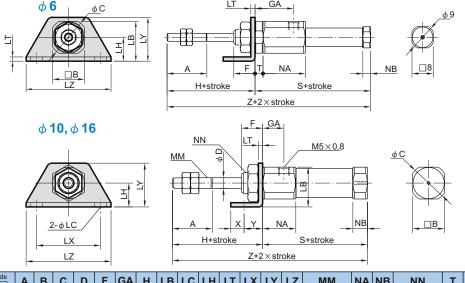
 ${f MCMJ}$ Dimensions / Normally extended ϕ 6~ ϕ 16 **PEN CYLINDERS** ∕uindman



Code Stroke				*	S							*	ξ Z			
I.D.	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
6	46.5 (51.5)		59.5 (64.5)	73.5 (78.5)	-	-	-	1			87.5 (92.5)			-	-	-
10	48.5	56	68	80	-	-	-	-	76.5	84	96	108	-	-	-	-
16	48.5	57	69	81	87	111	129	141	76.5	85	97	109	115	139	157	169

※(S), (Z) ()indicate the size of that with magnet ring

LB



Code Tube I.D.	Α	В	С	D	F	GA	Н	LB	LC	LH	LT	LX	LY	LZ	MM	NA	NB	NN	Т	X	Υ
6	15	12	14	3	8	14.5	28	15	4.5	9	1.6	24	16.5	32	M3×0.5	16	3	M6×1.0	3	5	7
10	15	12	14	4	8	8	28	15	4.5	9	1.6	24	16.5	32	M4×0.7	12.5	5.5	M8×1.0	-	5	7
16	15	18	20	5	8	8	28	23	5.5	14	2.3	33	25	42	M5×0.8	12.5	5.5	M10×1.0	-	6	9

St _{roke} Code				*	S							*	Z			
I.D.	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
6			59.5 (64.5)		- 1	-	-	-	74.5 (79.5)	83.5 (88.5)				-	-	-
10	48.5	56	68	80	-	-	-	-	76.5	84	96	108	-	-	-	-
16	48.5	57	69	81	87	111	129	141	76.5	85	97	109	115	139	157	169

*(S), (Z) ()indicate the size of that with magnet ring

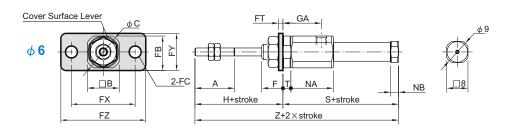


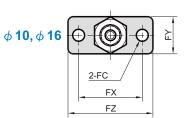
f MCMJ Mounting accessories / Normally extended ϕ 6~ ϕ 16

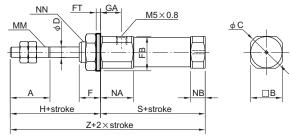


PEN CYLINDERS









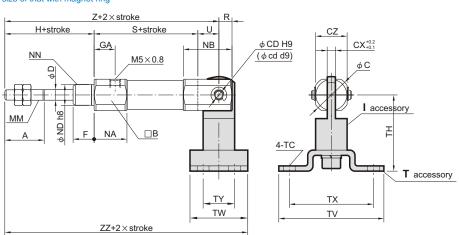
Code Tube I.D.	Α	В	С	D	F	GA	Н	FB	FC	FT	FX	FY	FZ	MM	NA	NB	NN	Т	Х	Υ
6	15	12	14	3	8	14.5	28	11	4.5	1.6	24	14	32	M3×0.5	16	3	M6×1.0	3	5	7
10	15	12	14	4	8	8	28	13	4.5	1.6	24	14	32	M4×0.7	12.5	5.5	M8×1.0	-	5	7
16	15	18	20	5	8	8	28	19	5.5	2.3	33	20	42	M5×0.8	12.5	5.5	M10×1.0	-	6	9

Code Stroke				*	S							*	Z			
I.D.	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
6	46.5 (51.5)			73.5 (78.5)		-	-	-		83.5 (88.5)				-	-	-
10	48.5	56	68	80	-	-	-	-	76.5	84	96	108	-	-	-	-
16	48.5	57	69	81	87	111	129	141	76.5	85	97	109	115	139	157	169

*(S), (Z) ()indicate the size of that with magnet ring



I + Pin (Extra purchase)



Code Tube I.D.	Α	В	C	CD (cd)	СХ	CZ	D	F	GΑ	Н	MM	NA	NB	ND	NN	R	тс	TH	TV	TW	TX	TY	U
10	15	12	14	3.3	3.2	12	4	8	8	28	$M4 \times 0.7$	12.5	18.5	8 _0_0	M8×1.0	5	4.5	29	40	22	32	12	8
16	15	18	20	5	6.5	18	5	8	8	28	M5×0.8	12.5	23.5	$10_{-0.022}^{$	M10×1.0	8	5.5	35	48	28	38	16	10

	Code Stroke				,	S							2	Z			
	I.D.	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
	10	48.5	56	68	80	-	-	-	-	84.5	92	104	116	-	-	-	-
ſ	16	48.5	57	69	81	87	111	129	141	86.5	95	107	119	125	149	167	179

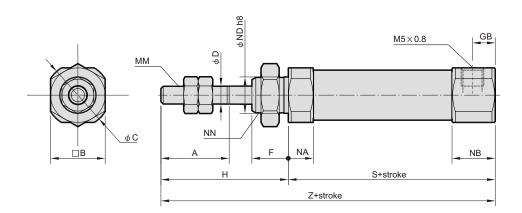
Stroke				Z	Z			
I.D.	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
10	95.5	103	115	127	-	-	-	-
16	100.5	109	121	133	139	163	181	193



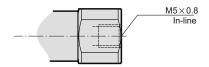


PEN CYLINDERS

15



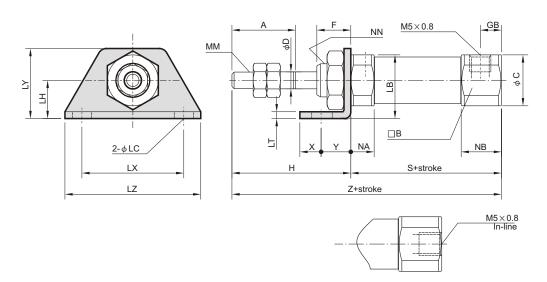
Code Tube I.D.	Α	В	C	D	F	GB	Н	MM	NA	NB	ND	NN
6	15	8	9	3	8	-	28	M3×0.5	3	7	6 -0.018	M6×1.0
10	15	12	14	4	8	5	28	M4×0.7	5.5	9.5	8 -0.022	M8×1.0
16	15	18	20	5	8	5	28	M5×0.8	5.5	9.5	10 _0.022	M10×1.0



Stroke				*	S							*	Z			
I.D.	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
6	34.5 (39.5)	43.5 (48.5)		61.5 (66.5)	-	-	-	-			75.5 (80.5)		-	-	-	-
10	45.5	53	65	77	-	-	-	-	73.5	81	93	105	-	-	-	-
16	45.5	54	66	78	84	108	126	138	73.5	82	94	106	112	136	154	166

*(S), (Z) ()indicate the size of that with magnet ring

LB



Code Tube I.D.	Α	В	С	D	F	GB	Н	LB	LC	LH	LT	LX	LY	LZ	ММ	NA	NB	NN	Х	Υ
6	15	8	9	3	8	-	28	13	4.5	9	1.6	24	16.5	32	M3×0.5	3	7	M6×1.0	5	7
10	15	12	14	4	8	5	28	15	4.5	9	1.6	24	16.5	32	M4×0.7	5.5	9.5	M8×1.0	5	7
16	15	18	20	5	8	5	28	23	5.5	14	2.3	33	25	42	M5×0.8	5.5	9.5	M10×1.0	6	9

Code Stroke				*	S							*	Z			
I.D.	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
6	34.5 (39.5)		47.5 (52.5)			-	-	-	62.5 (67.5)	71.5 (76.5)	75.5 (80.5)		-	-	-	-
10	45.5	53	65	77	-	-	-	-	73.5	81	93	105	-	-	-	-
16	45.5	54	66	78	84	108	126	138	73.5	82	94	106	112	136	154	166

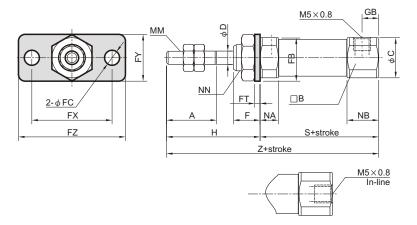
※(S), (Z) ()indicate the size of that with magnet ring



f MCMJ Mounting accessories / Normally returned ϕ 6~ ϕ 16

PEN CYLINDERS

FA



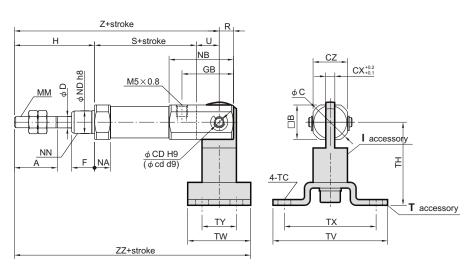
Code Tube I.D.	Α	В	С	D	F	GB	Н	FB	FC	FT	FX	FY	FZ	ММ	NA	NB	NN	X	Υ
6	15	8	9	3	8	-	28	11	4.5	1.6	24	14	32	M3×0.5	3	7	M6×1.0	5	7
10	15	12	14	4	8	5	28	13	4.5	1.6	24	14	32	M4×0.7	5.5	9.5	M8×1.0	5	7
16	15	18	20	5	8	5	28	19	5.5	2.3	33	20	42	M5×0.8	5.5	9.5	M10×1.0	6	9

Code Stroke				*	S							*	Z			
I.D.	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
6	34.5 (39.5)			61.5 (66.5)		-	-	-			75.5 (80.5)		-	-	-	-
10	45.5	53	65	77	-	-	-	-	73.5	81	93	105	-	-	-	-
16	45.5	54	66	78	84	108	126	138	73.5	82	94	106	112	136	154	166

※(S), (Z) ()indicate the size of that with magnet ring



I + Pin (Extra purchase)



Code Tube I.D.	Α	В	С	CD (cd)	СХ	CZ	D	F	GB	Н	ММ	NA	NB	ND	NN	R	U	тс	тн	TV	TW	TX	TY
10	15	12	14	3.3	3.2	12	4	8	18	28	M4×0.7	5.5	22.5	8 _0.022	M8×1.0	5	8	4.5	29	40	22	32	12
16	15	18	20	5	6.5	18	5	8	23	28	M5×0.8	5.5	27.5	$10_{-0.022}^{0}$	M10×1.0	8	10	5.5	35	48	28	38	16

Code Stroke					3							2	Z			
I.D.	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
10	45.5	53	65	77	-	-	-	-	81.5	89	101	113	-	-	-	-
16	45.5	54	66	78	84	108	126	138	83.5	92	104	116	122	146	164	176

Stroke				Z	Z			
I.D.	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
10	92.5	100	112	124	-	-	-	-
16	97.5	106	118	130	136	160	178	190

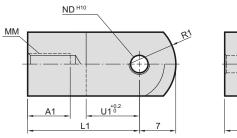


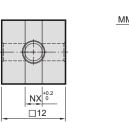
MCMJ Accessories ϕ 6~ ϕ 16

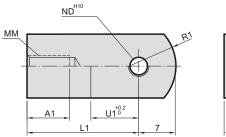


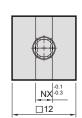


Connector







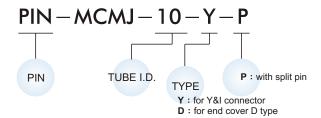


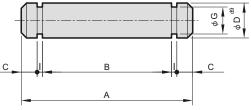
Code Tube I.D.	A1	L1	MM	ND ^{H10}	NX	R1	U1
10	8	21	M4×0.7	3.3 +0.048	3.2	8	10
16	11	21	M5×0.8	5 ^{+0.048}	6.5	12	10

Code Tube I.D.	A1	L1	MM	ND ^{H10}	NX	R1	U1
10	8	21	M4×0.7	Ü	3.1	8	9
16	8	25	M5×0.8	5 ^{+0.048}	6.4	12	14

Pin

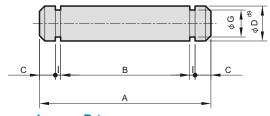
Order example





for I & Y connector

Code Tube I.D.	Α	В	C	D ^{d9}	G	-	Split pin
10	16.2	12.2	1.5	3.3-0.03	2.5	0.5	E-2.5
16	16.2	12.2	1.5	5 -0.03 -0.06	4	0.7	E-4



for end cover D type

Code Tube I.D.	Α	В	С	D ^{d9}	G	-1	Split pin
10	15.2	12.2	1	3.3-0.03	2.5	0.5	E-2.5
16	22.7	18.3	1.5	5 -0.03 -0.06	4	0.7	E-4

