

Mini cylinder(Aluminum barrel)

MBL Series—Accessories

List for ordering code of accessories

Accessories	Mounting accessories			Knuckle				Sensor switch	
Bore size	LB	FA	SDB	I	Y	F	U	CMSG	DMSG(S)
20	F-MA20LB	F-MA20FA	F-MA20SDB	F-MA20I	F-MA20Y	F-M8X125F	F-M8X125U	CMSG	DMSG(S)
25				F-MA25I	F-MA25Y	F-M10X125F	F-M10X125U		
32	F-MA32LB	F-MA32FA	F-MA32SDB	F-MA40I	F-MA40Y	F-M12X125F	F-M12X125U		
40	F-MA40LB	F-MA40FA	F-MA40SDB						
50	F-MA50LB	F-MA50FA							
63	F-MA63LB		F-MAC50I	F-MAC50Y	F-M14X150F	F-M14X150U			

Accessory selection

Accessories		Mounting accessories			Knuckle[Note1]				Sensor switch	
Cylinder model		LB	FA	SDB	I	Y	U	F	CMSG	DMSG(S)
MBL	Standard	●	●	●	●	●	●	●	×	×
	With magnet	●	●	●	●	●	●	●	●	●
MSBL	Standard	●	●	●	●	●	●	●	×	×
	With magnet	●	●	●	●	●	●	●	●	●
MBLD	Standard	●	●	×	●	●	●	●	×	×
	With magnet	●	●	×	●	●	●	●	●	●
MBLCD	Standard	●	●	×	●	●	●	●	×	×
	With magnet	●	●	×	●	●	●	●	●	●

Material of accessories

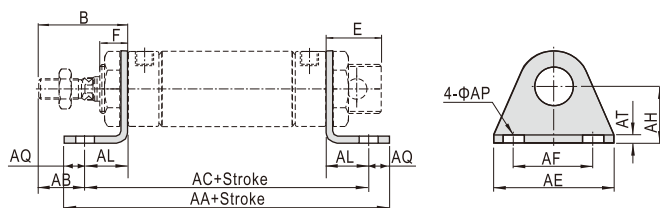
Accessories		Mounting accessories			Knuckle			
Bore size		LB	FA	SDB	I	Y	F	U
20~63		○	○	○	□	□	□	□

○—Lower carbon steel; □—Carbon steel.

[Note1] Please refer to P515~518 for knuckle detail.

Dimensions

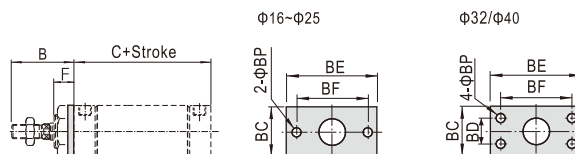
LB



Bore size\Item	Stroke	AA	AA(MSBL)			AC	AC(MSBL)		
		(MBL)	0~50	51~100	101~150	(MBL)	0~50	51~100	101~150
20		116	141	166	191	100	125	150	175
25		116	141	166	191	100	125	150	175
32		136	161	186	211	120	145	170	195
40		158	183	208	233	142	167	192	217
50		172	-	-	-	148	-	-	-
63		180	-	-	-	154	-	-	-

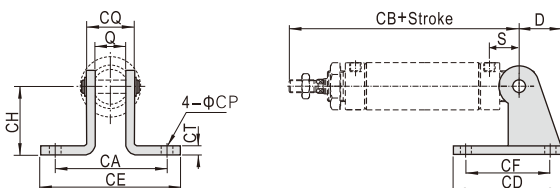
Bore size\Item	B	E	F	AB	AE	AF	AL	AQ	AP	AT	AH
20	40	21	14	25	54	40	15	8	6.5	3	25
25	44	21	14	29	54	40	15	8	6.5	3	25
32	44	27	16	19	59	45	25	8	7	3.5	32
40	46	27	16	21	64	50	25	8	7	3.5	36
50	54	27	22	26	86	66	28	12	11	4.5	40
63	54	27	22	23	106	82	31	13	11	4.5	45

FA



Bore size\Item	Stroke	B	C	C(MSBL)			BB	BC	BD	BE	BF	BP	F
		(MBL)	0~50	51~100	101~150								
20		40	70	95	120	145	3.5	38	-	64	50	7	14
25		44	70	95	120	145	3.5	38	-	64	50	7	14
32		44	70	95	120	145	4	47	33	72	58	6.5	16
40		46	92	117	142	167	4	50	36	84	70	6.5	16
50		54	92	-	-	-	4.5	65	47	104	86	9	22
63		54	92	-	-	-	4.5	65	47	104	86	9	22

SDB



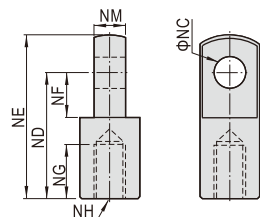
Bore size\Item	Stroke	D	S	Q	CA	CB	CB(MSBL)			CD	CE	CF	CH	CT	CP	CQ
		(MBL)	0~50	51~100	101~150											
20		21	12	16	51	122	147	172	197	48	67	32	32	2.5	7	22
25		21	12	16	51	126	151	176	201	48	67	32	32	2.5	7	22
32		27	15	16	51	129	154	179	204	52	67	36	36	3	7	24
40		27	15	20	55	153	178	203	228	56	71	40	40	3	7	28

[Note] SDB is attached with relevant PIN.

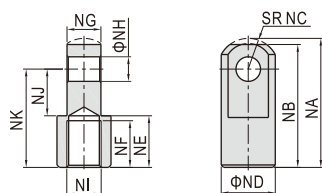
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MBL Series—Accessories

I Knuckle

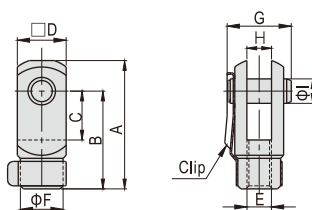


Type\Item	NC	ND	NE	NF	NH	NG	NM
F-MA20I	8	30	40	11	M8×1.25	15	8
F-MA25I	10	40	50	15	M10×1.25	20	10
F-MA40I	10	45	57	16	M12×1.25	23	14

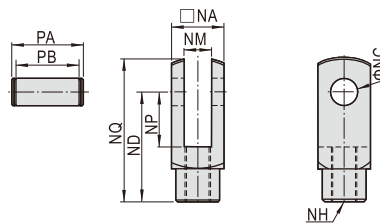


Type\Item	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NI
F-MAC50I	52.5	50	12.5	22	21	19	13.8	10	19	40	M14×1.5

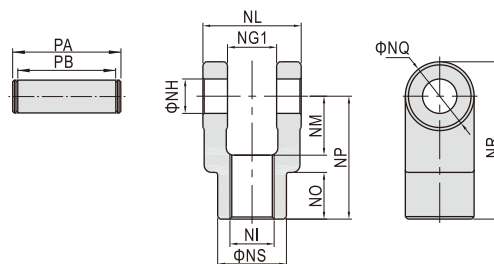
Y Knuckle



Type\Item	A	B	C	D	E	F	G	H	I
F-MA20Y	42	32	16	16	M8×1.25	14	21	8	8
F-MA25Y	52	40	20	19	M10×1.25	18	25	10	10



Type\Item	NA	NC	ND	NP	NQ	NM	NH	PA	PB
F-MA40Y	25.4	10	45	20	57	14	M12×1.25	32	26.2



Type\Item	Ng1	NH	NI	NL	NM	NO	NP	NQ	NR	NS	PA	PB
F-MAC50Y	14.2	10	M14×1.5	27.8	19	17	40	22	51	22	34.6	28.8