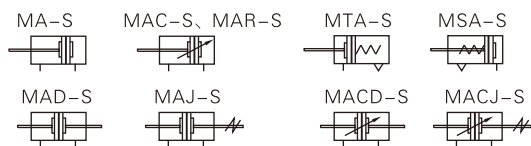


Cylinder	SC
	SC(Big)
	SCT
	SCF
	SU
	SUF
	SI
	SIF
	DNC
	QGB
	QGBZ
	NCQ2
	NCQ2(Big)
	NCQ2(Long)
	NCQS
	NCQM
	NRQ
	SDA
	ADVU
	ACE(AND)
	MAL
	MA
	MI
	NCM2
	NCJ2
	NCG1
	NCJP
	TD
	TN(TDA)
	NCXS
	NCXSW
	NMGP
	NMGG
	NCU
	NCUJ
	NCY3B
	NCY3R
	NCY1S
	NCY1L
	STM
	NMXH
	NMXS
	NMXQ
	NMHZ2
	NMHC2
	NMHL2
	NMHY2
	NMHT2
	NMHW2
	NMHF2
	NMHS2
	NMHS3
	NMHS4
	NMRHQ
	NMSQ
	NCRA1
	NCRQ2
	NCRB2
	ACK
	SRC
	QCK
	NCK1



Symbol



Product feature

1. Standard cylinder manufactured by our enterprise.
2. Piston adopts heterogeneous two-way seal structure. It has compact size and has the function of grease reservation.
3. Front cover has fixed bumper which can reduce the impact of direction change of the cylinder.
4. There are several modes of back cover, which makes the installation of cylinder more convenient.
5. Front and back cover and stainless steel block adopt riveted rolling packed structure to form a reliable connection.
6. The cylinder body has stainless steel pipes with high precision to produce high strength and corrosion resistance.
7. There are cylinders and mounting accessories with several specifications for your choice.
8. All cylinders of this series have magnet.

Ordering code

MA MAD MAJ MAR Model	
MA	Mini cylinder(Double acting)
MSA	Mini cylinder(Single acting_push)
MTA	Mini cylinder(Single acting_pull)
MAD	Mini cylinder(Double rod)
MAJ	Mini cylinder(Adjustable stroke)
MAR	Mini cylinder(Double acting with cushion)
MAC	Mini cylinder(Double acting with cushion)
MACD	Mini cylinder(Double rod with cushion)
MACJ	Mini cylinder(Adjustable stroke with cushion)

Front cover	
MAR	F: Front mounting type
	U: Up mounting type
Others	No this code

Specifications

Bore size(mm)		16	20	25	32	40	50	63
Acting type	MSA/MTA	Single acting					-	
	MA/MAD/MAJ	Double acting					-	
	MAR	-	Double acting					
	MAC/MACD/MACJ	-	Double acting with cushion					
Fluid		Air (to be filtered by 40μm filter element)						
Operating pressure	Double acting	0.15~1.0MPa(22~145psi)(1.5~10.0bar)						
	Single acting	0.2~1.0MPa(28~145psi)(2.0~10.0bar)						
Proof pressure		1.5MPa(215psi)(15bar)						
Temperature (°C)		-20~70						
Speed range (mm/s)		Double acting 30~800			Single acting 50~800			
Stroke tolerance		0~150 ^{+1.0} ₀			>150 ^{+1.0} ₀			
Cushion type		MAC/MACD/ MACJ Series: Variable cushion; Other series: Bumper						
Port size Note)		M5×0.8	1/8"				1/4"	

Note: PT thread, G thread and NPT thread are available.

Stroke

Bore size (mm)	Standard stroke (mm)																												Max. Std stroke	Max. stroke
MA	16	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	600					
MA MAC MAR	20	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	800					
	25	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	800					
	32	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	800					
	40	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	800					
MAC MAR	50	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	800					
	63	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	800					
MAD MAJ	16	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300					300	-					
	20	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300					300	-					
MAJ	25	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300					300	-					
MACD	32	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	-					
MACJ	40	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	-					
MACD	50	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	-					
MACJ	63	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	-					
MSA	16	10	15	20	25	30	40	50	60	75	80	100												-	-					
	20	10	15	20	25	30	40	50	60	75	80	100	125	150										-	-					
	25	10	15	20	25	30	40	50	60	75	80	100	125	150										-	-					
	32	10	15	20	25	30	40	50	60	75	80	100	125	150										-	-					
	40	10	15	20	25	30	40	50	60	75	80	100	125	150										-	-					
MTA	16	10	15	20	25	30	40	50	60	75	80	100												-	-					
	20	10	15	20	25	30	40	50	60	75	80	100												-	-					
	25	10	15	20	25	30	40	50	60	75	80	100												-	-					
	32	10	15	20	25	30	40	50	60	75	80	100												-	-					
	40	10	15	20	25	30	40	50	60	75	80	100												-	-					

Note: Consult us for non-standard stroke.

U

20

20

20

20

x

x

x

x

50

50

50

50

-

20

Bore size

MA, MSA, MTA, MAD, MAJ	16 20 25 32 40
MAC, MAR, MACD, MACJ	20 25 32 40 50 63

Stroke

Refer to stroke table for details

Adjustable stroke

MAJ MACJ	10: 10mm
	20: 20mm
	30: 30mm
	40: 40mm
	50: 50mm
	75: 75mm
100: 100mm	
Others	No this code

Magnet code

S	With magnet
---	-------------

Back cover

MA, MAC	CA: Pivot type
MSA	U: Flat-end type
MTA	CM: Round-end type
Others	No this code

Mounting type

MA	Blank: No accessories
MAC	FA: FA type
MSA	SDB: SDB type
MTA	LB: LB type
MAD	Blank: No accessories
MACD	FA: FA type
MAJ	LB: LB type
MACJ	
MAR	No this code

CM

☐

☐

☐

☐

☐

☐

☐

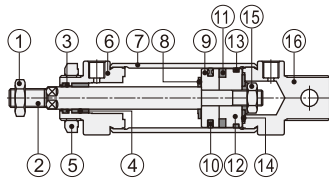
☐

Thread type

Blank	PT
G	G
T	NPT

Inner structure and material of major parts

MA-CA



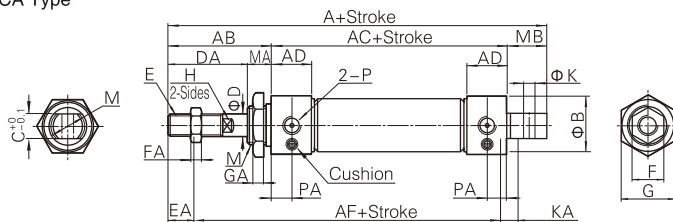
NO.	Item	Material	NO.	Item	Material
1	Rod nut	Carbon steel	9	Piston	Aluminum alloy
2	Piston rod	Carbon steel with 20μm chrome plated	10	Piston seal	NBR
3	Front cover packing	NBR	11	Magnet	Plastic
4	Bushing	Wear resistant material	12	Magnet holder	Aluminum alloy
5	Front cover nut	Carbon steel	13	Wear ring	Wear resistant material
6	Front cover	Aluminum alloy	14	Washer	Free cutting material
7	Barrel	Stainless steel	15	Nut	Carbon steel
8	Bumper	NBR	16	Back cover	Aluminum alloy

Dimensions

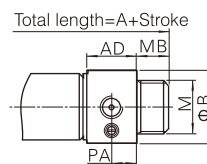
MA Φ16~Φ40

MAC Φ20~Φ40

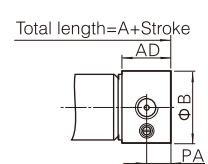
CA Type



CM Type



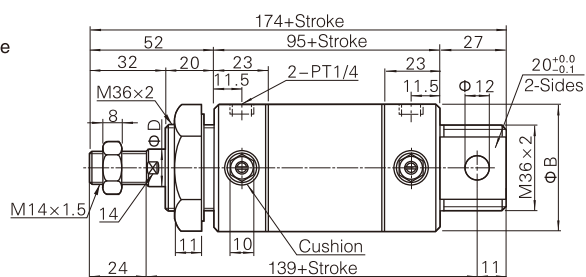
U Type



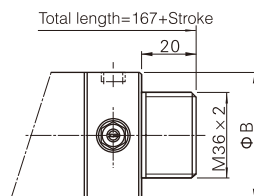
Bore size\Item	A			AB	AC	AD	AF	B	C	D	DA	E	EA	F	FA	G	GA	H	K	KA	M	MA	MB		P	PA
	CA	CM	U																				CA	CM		
16	114	114	98	38	60	10	91	21	12	6	22	M6×1.0	16	10	5	22	6	5	6	7	M16×1.5	16	16	16	M5×0.8	5
20	137	128	116	40	76	16	108	27	16	8	28	M8×1.25	20	12	6	29	7	6	8	9	M22×1.5	12	21	12	1/8"	8
25	141	134	120	44	76	16	110	30	16	10	30	M10×1.25	22	17	6	29	7	8	8	9	M22×1.5	14	21	14	1/8"	8
32	147	134	120	44	76	16	113	35	16	12	30	M10×1.25	22	17	6	32	8	10	10	12	M24×2.0	14	27	14	1/8"	8
40	149	136	122	46	76	16.5	113	41.5	20	16	32	M12×1.25	24	17	7	41	9	14	12	12	M30×2.0	14	27	14	1/8"	8

MAC Φ50\Φ63

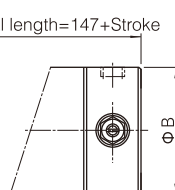
CA Type



CM Type



U Type



Bore size\Item	B	D
50	53	16
63	67	16

Cylinder

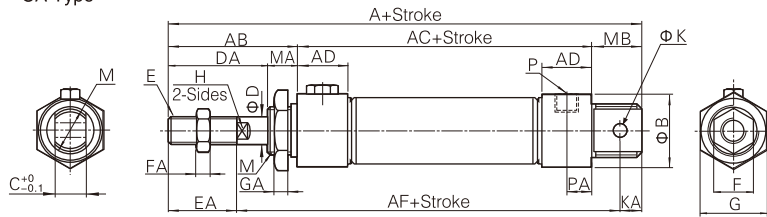
SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

Cylinder

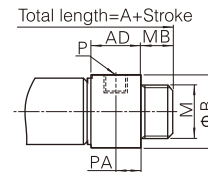
SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

MSA Φ16~Φ40

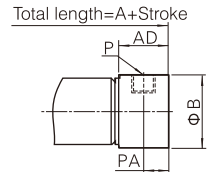
CA Type



CM Type



U Type

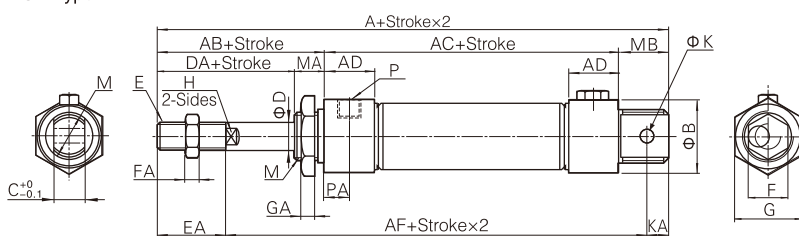


Item	A									AB	AC			AD	AF		
Back cover	CA			CM			U			-	-			-	-		
Bore size/Stroke	≤50	51~100	≤101	≤50	51~100	≤101	≤50	51~100	≤101	-	≤50	51~100	≤101	-	≤50	51~100	≤101
16	139	164	-	139	164	-	123	148	-	38	85	110	-	10	116	141	-
20	162	187	212	153	178	203	141	166	191	40	101	126	151	16	133	158	183
25	166	191	216	159	184	209	145	170	195	44	101	126	151	16	135	160	185
32	172	197	222	159	184	209	145	170	195	44	101	126	151	16	138	163	188
40	174	199	224	161	186	211	147	172	197	46	101	126	151	16.5	138	163	188

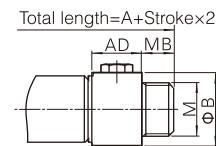
Bore size/Item	B	C	D	DA	E	EA	F	FA	G	GA	H	K	KA	M	MA	MB		P	PA
Back cover																CA	CM		
16	21	12	6	22	M6×1.0	16	10	5	22	6	5	6	7	M16×1.5	16	16	16	M5×0.8	5
20	27	16	8	28	M8×1.25	20	12	6	29	7	6	8	9	M22×1.5	12	21	12	1/8"	8
25	30	16	10	30	M10×1.25	22	17	6	29	7	8	8	9	M22×1.5	14	21	14	1/8"	8
32	35	16	12	30	M10×1.25	22	17	6	32	8	10	10	12	M24×2.0	14	27	14	1/8"	8
40	41.5	20	16	32	M12×1.25	24	17	7	41	9	14	12	12	M30×2.0	14	27	14	1/8"	8

MTA Φ16~Φ40

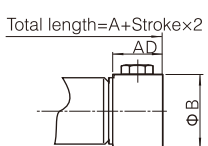
CA Type



CM Type



U Type

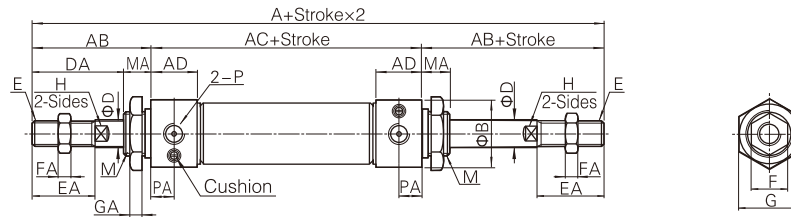


Item	A								AC				AF			
Back cover	CA				CM				U				-			
Bore size/Stroke	≤25	≤50	≤75	≤100	≤25	≤50	≤75	≤100	≤25	≤50	≤75	≤100	≤25	≤50	≤75	≤100
16	129	139	154	164	129	139	154	164	113	123	138	148	75	85	100	110
20	152	162	177	187	143	153	168	178	131	141	156	166	91	101	116	126
25	156	166	181	191	149	159	174	184	135	145	160	170	91	101	116	126
32	162	172	192	202	149	159	179	189	135	145	165	175	91	101	121	131
40	164	174	194	204	151	161	181	191	137	147	167	177	91	101	121	131

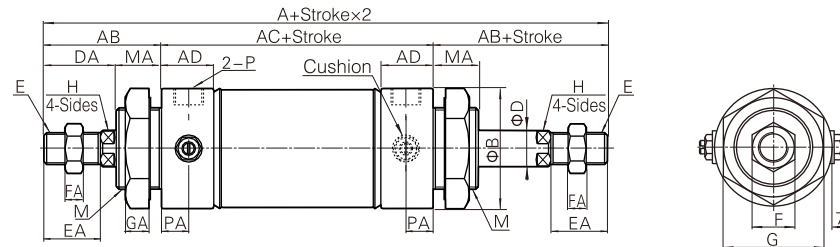
Bore size/Item	AB	AC	B	C	D	DA	E	EA	F	FA	G	GA	H	K	KA	M	MA	MB		P	PA
Back cover																		CA	CM		
16	38	10	21	12	6	22	M6×1.0	16	10	5	22	6	5	6	7	M16×1.5	16	16	16	M5×0.8	5
20	40	16	27	16	8	28	M8×1.25	20	12	6	29	7	6	8	9	M22×1.5	12	21	12	1/8"	8
25	44	16	30	16	10	30	M10×1.25	22	17	6	29	7	8	8	9	M22×1.5	14	21	14	1/8"	8
32	44	16	35	16	12	30	M10×1.25	22	17	6	32	8	10	10	12	M24×2.0	14	27	14	1/8"	8
40	46	16.5	41.5	20	16	32	M12×1.25	24	17	7	41	9	14	12	12	M30×2.0	14	27	14	1/8"	8

MAD/MACD

Φ16~Φ40



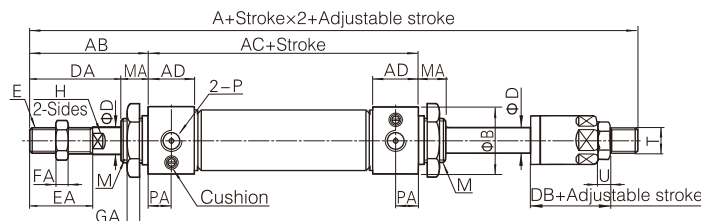
Φ50/Φ63



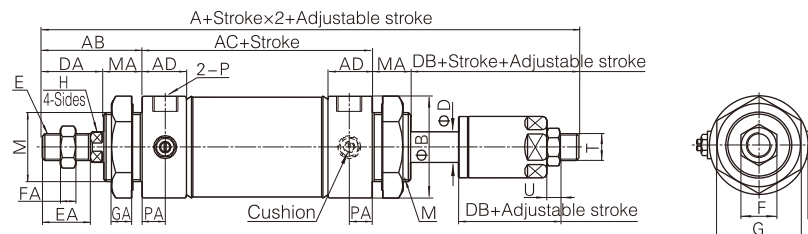
Bore size/Item	A	AB	AC	AD	B	D	DA	E	EA	F	FA	G	GA	H	M	MA	P	PA
16	136	38	60	10	21	6	22	M6×1.0	16	10	5	22	6	5	M16×1.5	16	M5×0.8	5
20	156	40	76	16	27	8	28	M8×1.25	20	12	6	29	7	6	M22×1.5	12	1/8"	8
25	164	44	76	16	30	10	30	M10×1.25	22	17	6	29	7	8	M22×1.5	14	1/8"	8
32	164	44	76	16	35	12	30	M10×1.25	22	17	6	32	8	10	M24×2.0	14	1/8"	8
40	168	46	76	16.5	41.5	16	32	M12×1.25	24	17	7	41	9	14	M30×2.0	14	1/8"	8
50	199	52	95	23	53	16	32	M14×1.5	24	19	8	46	11	14	M36×2.0	20	1/4"	11.5
63	199	52	95	23	67	16	32	M14×1.5	24	19	8	46	11	14	M36×2.0	20	1/4"	11.5

MAJ/MACJ

Φ16~Φ40



Φ50/Φ63



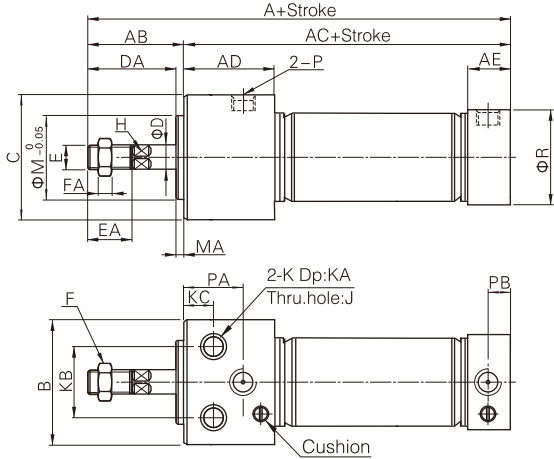
Bore size/Item	A	AB	AC	AD	B	D	DA	DB	E	EA	F	FA	H	M	MA	P	PA	G	GA	T	U
16	135	38	60	10	21	6	22	21	M6×1.0	16	10	5	5	M16×1.5	16	M5×0.8	5	22	6	M6×1.0	5
20	153	40	76	16	27	8	28	25	M8×1.25	20	12	6	6	M22×1.5	12	1/8"	8	29	7	M8×1.25	6
25	161	44	76	16	30	10	30	27	M10×1.25	22	17	6	8	M22×1.5	14	1/8"	8	29	7	M10×1.25	6
32	161	44	76	16	35	12	30	27	M10×1.25	22	17	6	10	M24×2.0	14	1/8"	8	32	8	M10×1.25	6
40	164	46	76	16.5	41.5	16	32	28	M12×1.25	24	17	7	14	M30×2.0	14	1/8"	8	41	9	M12×1.25	7
50	195	52	95	23	53	16	32	28	M14×1.5	24	19	8	14	M36×2.0	20	1/4"	11.5	46	11	M12×1.5	7
63	195	52	95	23	67	16	32	28	M14×1.5	24	19	8	14	M36×2.0	20	1/4"	11.5	46	11	M12×1.5	7

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

Cylinder

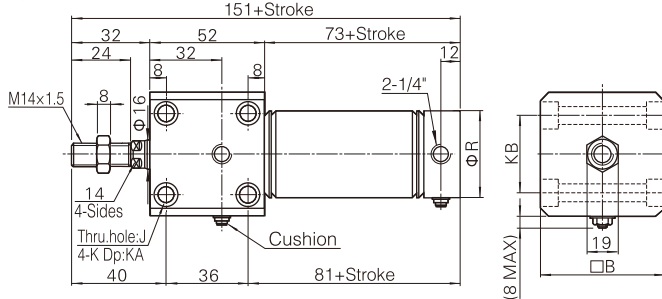
MARU(Up mounting type) Φ20~Φ40



Bore size/Item	A	AB	AC	AD	AE	B	C	D	DA	E	EA	F	FA
20	120	31	89	29	16	33.5	30.5	8	28	M8×1.25	20	13	5
25	122	33	89	29	16	39	36.5	10	30	M10×1.25	22	17	6
32	122	33	89	29	16	47	42.5	12	30	M10×1.25	22	17	6
40	132.5	35	97.5	37.5	16.5	58.5	52.5	16	32	M14×1.5	24	19	8

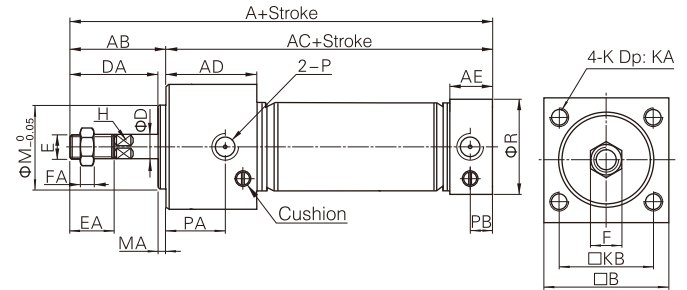
Bore size/Item	H	J	K	KA	KB	KC	M	MA	P	PA	PB	R
20	6	Φ5.5	Φ9.5	6.5	21	12	20	3	1/8"	22	8	27
25	8	Φ6.5	Φ11.5	7.5	25	12	26	3	1/8"	22	8	30
32	10	Φ9.0	Φ14.0	10	30	12	26	3	1/8"	22	8	35
40	14	Φ11	Φ17.5	12.5	38	15	32	3	1/8"	27	8	41.5

Φ50/Φ63



Bore size/Item	B	J	K	KA	KB	R
50	62	Φ6.5	2-Sides: Φ11.0	6.5	44	53
63	74	Φ9.0	2-Sides: Φ14.0	8.5	48	67

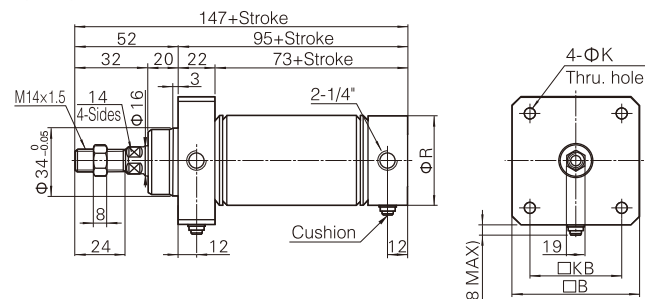
MARF(Up mounting type) Φ20~Φ40



Bore size/Item	A	AB	AC	AD	AE	B	D	DA	E	EA
20	120	31	89	29	16	30.5	8	28	M8×1.25	20
25	122	33	89	29	16	36.5	10	30	M10×1.25	22
32	122	33	89	29	16	42.5	12	30	M10×1.25	22
40	132.5	35	97.5	37.5	16.5	52.5	16	32	M14×1.5	24

Bore size/Item	F	FA	H	K	KA	KB	M	MA	P	PA	PB	R
20	13	5	6	M5×0.8	9	22	20	3	1/8"	22	8	27
25	17	6	8	M6×1.0	10	26	26	3	1/8"	22	8	30
32	17	6	10	M6×1.0	11	30	26	3	1/8"	22	8	35
40	19	8	14	M8×1.25	14	36	32	3	1/8"	27	8	41.5

Φ50/Φ63



Bore size/Item	B	K	KB	R
50	62	6.5	44	53
63	74	9.0	48	67

List for ordering code of accessories

Accessories	Mounting accessory			Knuckle				Sensor switch					
Bore size	LB	FA	SDB	I: I Knuckle	Y: Y Knuckle	F: F Knuckle	U: U Knuckle	CS1-M	DS1-M	CS1-F	DS1-F	CS1-U	DS1-U
16	F-MA16LB	F-MA16FA	F-MA16SDB	F-MA16I	F-MA16Y	F-M6×100F	F-M6×100U	CS1-M-S16	DS1-M-S16				
20	F-MA20LB	F-MA20FA	F-MA20SDB	F-MA20I	F-MA20Y	F-M8×125F	F-M8×125U	CS1-M-S20	DS1-M-S20				
25	F-MA25LB	F-MA25FA	F-MA25SDB	F-MA25I	F-MA25Y	F-M10×125F	F-M10×125U	CS1-M-S25	DS1-M-S25	-	-	-	-
32	F-MA32LB	F-MA32FA	F-MA32SDB	F-MA32I	F-MA32Y	F-M12×125F	F-M12×125U	CS1-M-S32	DS1-M-S32				
40	F-MA40LB	F-MA40FA	F-MA40SDB	F-MA40I	F-MA40Y	F-M14×150F	F-M14×150U	CS1-M-S40	DS1-M-S40				
50	F-MA50LB	F-MA50FA	F-MA50SDB	F-MA50I	F-MA50Y			CS1-M-S50	DS1-M-S50	CS1-F	DS1-F	CS1-U	DS1-U
63	F-MA63LB	F-MA63FA	F-MA63SDB	F-MA63I	F-MA63Y			CS1-M-S63	DS1-M-S63				

Accessory selection

Accessories	Mounting accessory			Knuckle				Sensor switch					
Cylinder model	LB	FA	SDB	I	Y	U	F	CS1-M	DS1-M	CS1-F	DS1-F	CS1-U	DS1-U
MAVAC	●	●	●	●	●	●	●	●	●	●	●	●	●
MSAWTA	●	●	●	●	●	●	●	●	●	●	●	●	●
MADWACD	●	●	×	●	●	●	●	●	●	●	●	●	●
MAJMACJ	●	●	×	●	●	●	●	●	●	●	●	●	●
MARF/MARU	×	×	×	●	●	●	●	●	●	●	●	●	●

Material of accessories selection

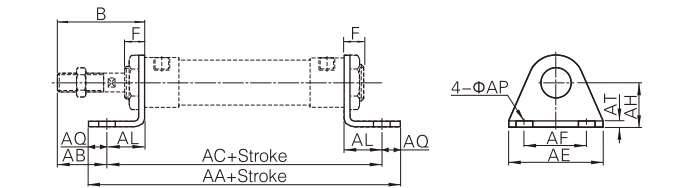
Accessories	Mounting accessory			Knuckle			
Bore size	LB	FA	SDB	I	Y	F	U
16~63	○	○	○	□	□	□	□

○—Low carbon steel, □—Carbon steel

Note: Floating joint (F) and fisheye joint (U) are common parts.

Dimensions

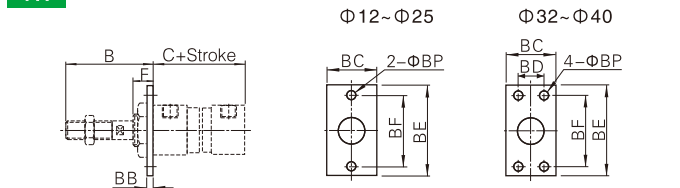
LB



Bore size\Item	AA	AA(MSA)			AC	AC(MSA)		
Stroke	(MA/MAC)	0~50	51~100	101~150	(MA/MAC)	0~50	51~100	101~150
16	98	123	148	-	86	111	136	-
20	122	147	172	197	106	131	156	181
25	122	147	172	197	106	131	156	181
32	142	167	192	217	126	151	176	201
40	142	167	192	217	126	151	176	201
50	175	-	-	-	151	-	-	-
63	183	-	-	-	157	-	-	-

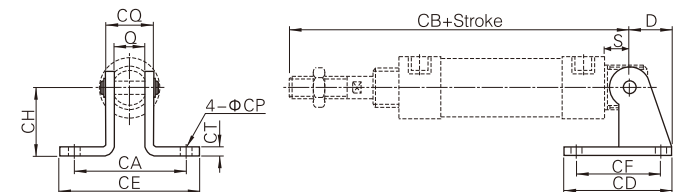
Bore size\Item	B	F	AB	AE	AF	AL	AQ	AP	AT	AH
16	38	16	25	44	32	13	6	5.5	2.5	20
20	40	12	25	54	40	15	8	6.5	3	25
25	44	14	29	54	40	15	8	6.5	3	25
32	44	14	19	59	45	25	8	7	3.5	32
40	46	14	21	64	50	25	8	7	3.5	36
50	52	20	24	86	66	28	12	11	4.5	40
63	52	20	21	106	82	31	13	11	4.5	45

FA



Bore size\Item	B	C	C(MSA)			BB	BC	BD	BE	BF	BP	F
Stroke	(MA/MAC)	0~50	51~100	101~150								
16	38	60	85	110	-	3	26	-	52	40	5.5	16
20	40	76	101	126	151	3.5	38	-	64	50	7	12
25	44	76	101	126	151	3.5	38	-	64	50	7	14
32	44	76	101	126	151	4	47	33	72	58	6.5	14
40	46	76	101	126	151	4	50	36	84	70	6.5	14
50	54	147				4.5	65	47	104	86	9	22
63	54	147				4.5	65	47	104	86	9	22

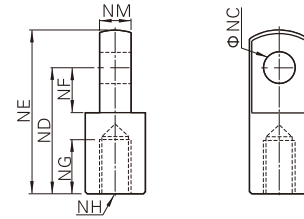
SDB



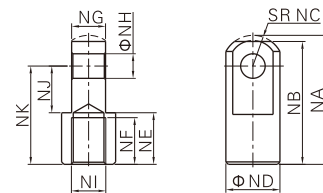
Bore size\Item	D	S	Q	CA	CB	CB(MSA)			CD	CE	CF	CH	CT	CP	CQ
Stroke	(MA)	0~50	51~100	101~150											
16	16	9	12	-	107	132	157	-	23	-	12	20	2	5.5	16
20	21	12	16	51	128	153	178	203	48	67	32	32	2.5	7	22
25	21	12	16	51	132	157	182	207	48	67	32	32	2.5	7	22
32	27	15	16	51	135	160	185	210	52	67	36	36	3	7	24
40	27	15	20	55	137	162	187	212	56	71	40	40	3	7	28

Note: SDB is attached with relevant PIN.

I Knuckle

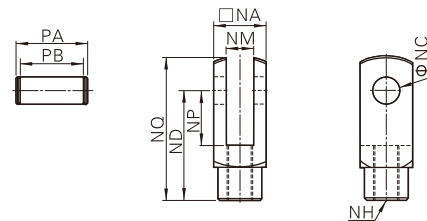


Type\Item	NC	ND	NE	NF	NG	NH	NM
F-MA16I	5	21	28	8.5	8	M6×1.0	6
F-MA20I	8	30	40	11	15	M8×1.0	8
F-MA25I	10	40	50	15	20	M10×1.0	10
F-MA40I	10	45	57	16	23	M12×1.0	14

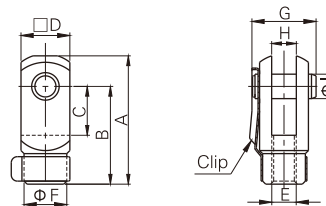


Type\Item	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NI
F-MAC50I	52.5	50	12.5	22	21	19	13.8	10	19	40	M14×1.5

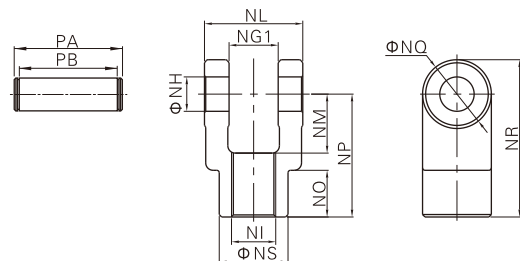
Y Knuckle



Type\Item	NA	NC	ND	NP	NQ	NM	NH	PA	PB
F-MA16Y	12	5	21	8.5	27.4	6	M6×1.0	16.8	12.4
F-MA40Y	25.4	10	45	20	57	14	M12×1.25	32	26.2



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	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

Cylinder

- SC
- SC(Big)
- SCT
- SCF
- SU
- SUF
- SI
- SIF
- DNC
- QGB
- QGBZ
- NCQ2
- NCQ2(Big)
- NCQ2(Long)
- NCQS
- NCQM
- NRQ
- SDA
- ADVU
- ACE(AND)
- MAL
- MA
- MI
- NCM2
- NCJ2
- NCG1
- NCJP
- TD
- TN(TDA)
- NCXS
- NCXSW
- NMGP
- NMGG
- NCU
- NCUJ
- NCY3B
- NCY3R
- NCY1S
- NCY1L
- STM
- NMXH
- NMXS
- NMXQ
- NMHZ2
- NMHC2
- NMHL2
- NMHY2
- NMHT2
- NMHW2
- NMHF2
- NMHS2
- NMHS3
- NMHS4
- NMRHQ
- NMSQ
- NCRA1
- NCRQ2
- NCRB2
- ACK
- SRC
- QCK
- NCK1