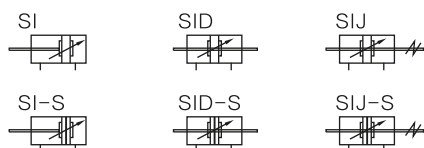




Symbol



Product feature

1. ISO15552 (original ISO6431) standard cylinder;
2. The piston seal is composed of two Y-shape one-way seal structure, which has compensation function, long service life and low start-up pressure;
3. The shaped aluminum pipe without tie rod has good corrosion resistance;
4. The buffer adjustment of cylinder is smooth and steady;
5. Cylinders and accessories for installation with several specifications are optional.

Ordering code

SI	160	☐ × 50	
SID	160	☐ × 50	
SIJ	160	☐ × 50	- 20
Model		Stroke	Adjustable stroke
SI	Double acting type	Refer to stroke table for details	10 10mm
SID	Double rod type		20 20mm
SIJ	Adjustable stroke type		30 30mm
			40 40mm
			50 50mm
			75 75mm
			100 100mm
Bore size		Rod material	
32		Blank	Medium carbon steel
40		A	SUS420J2
50		B	SUS304
60			
80			
100			
125			
160			
200			

Specifications

Bore size(mm)		32	40	50	63	80	100	125	160	200
Acting type		Double acting								
Fluid		Air (to be filtered by 40μm filter element)								
Mounting type	SI	Basic	FA	FB	CA	CB	LB	TC	FTC	TCM1 TCM2
	SID, SIJ	Basic	FA	LB	TC	FTC	TCM1	TCM2		
Operating pressure		0.1~1.0MPa(15~145psi)(1.0~10.0bar)								
Proof pressure		1.5MPa(215psi)(15bar)								
Temperature (°C)		-20~70								
Speed range (mm/s)		30~800						30~500		
Stroke tolerance		0~250 ^{+1.0} ₀		251~1000 ^{+1.5} ₀			1001~1500 ^{+2.0} ₀			
Cushion type		Variable cushion								
Adjustable cushion stroke		27		30		36		40	50	
Port size Note)		1/8"	1/4"		3/8"		1/2"		3/4"	

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

Stroke

Bore size (mm)	Standard stroke (mm)	Max.std stroke	Max. stroke
32	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	1000	1800
40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	1200	1800
50	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1200	1800
63	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	1800
80	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	1800
100	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	1800
125	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	1800
160	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
200	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000

Note: Consult for non-standard stroke.

S

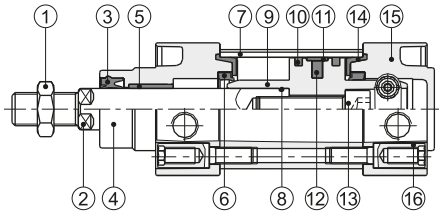
S

S

Magnet		Mounting type			Seals material		Thread type		
Blank	Without magnet		Mounting type	Available series	Memo	Blank	TPU	Blank	PT
S	With magnet	Blank		SI SID SIJ		H	Viton	G	G
		LB				N	NBR	T	NPT
		FA							
		FB		SI					
		CA							
		CB							
		CR			Be used with CB				
		FTC		SI SID SIJ	Be used with TCM1 TCM2				
		TC							

Inner structure and material of major parts

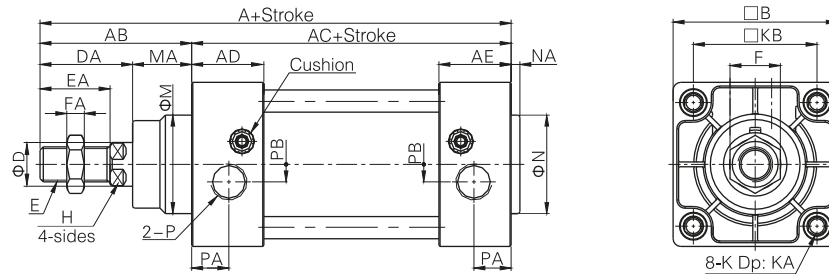
SI



No.	Item	Material
1	Rod nut	Carbon steel
2	Piston rod	Carbon steel with 20μm chrome plated or stainless steel
3	Front cover packing	TPU
4	Front cover	Aluminum alloy
5	Bushing	Wear resistant material
6	Cushion O-ring	TPU
7	Barrel	Aluminum alloy
8	Rod O-ring	NBR
9	Piston	Aluminum alloy
10	Piston seal	TPU
11	Wear ring	Wear resistant material
12	Magnet	Plastic(Φ 100 or below)\Rubber(other)
13	Bolt	Carbon steel
14	Buffer gasket	TPU
15	Back cover	Aluminum alloy
16	Tie-rod	Carbon steel

Dimensions

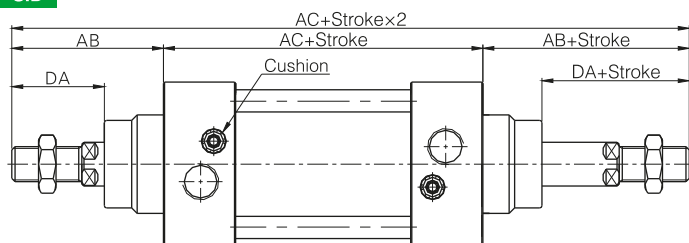
SI



Bore size/Item	A	AB	AC	AD	AE	B	D	DA	E	EA	F	FA	M	MA	H	K(Without TC)	K(With TC)	KA(Without TC)	KA(With TC)	KB	N	NA	P	PA	PB
32	142	48	94	27.5	27.5	47	12	29	M10×1.25	22	17	6	30	19	10	M6	M5	16	14	32.5	30	3	1/8"	13	5.5
40	159	54	105	32	32	53	16	33	M12×1.25	24	17	7	35	21	13	M6	M5	16	16	38	35	3.5	1/4"	17	6
50	175	69	106	31	31	65	20	42	M16×1.5	32	23	8	40	27	17	M8	M6	16	16	46.5	40	3.5	1/4"	15.5	7.5
63	190	69	121	33	33	75	20	42	M16×1.5	32	23	8	45	27	17	M8	M6	16	16	56.5	45	4	3/8"	16.5	7.5
80	214	86	128	33	33	95	25	53	M20×1.5	40	26	10	45	33	22	M10	M8	17	16	72	45	4	3/8"	16.5	9
100	229	91	138	37	37	115	25	55	M20×1.5	40	26	10	55	36	22	M10	M8	17	16	89	55	4	1/2"	18.5	9.5
125	279	119	160	46	46	140	32	74	M27×2.0	54	40	13.5	60	45	27	M12	M12	20	20	110	60	4	1/2"	23	14
160	332	152	180	50	50	180	40	94	M36×2.0	72	55	18	65	58	36	M16	M16	24	24	140	65	4	3/4"	25	15
200	347	167	180	50	50	220	40	100	M36×2.0	72	55	18	75	67	36	M16	M16	24	24	175	75	5	3/4"	25	15

Note: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.

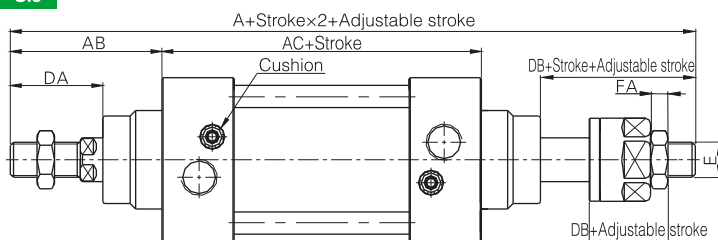
SID



Bore size/Item	A(SID)	A(SIJ)	AB	AC	DA	DB	E	FA
32	190	188	48	94	29	27	M10×1.25	6
40	213	208	54	105	33	28	M12×1.25	7
50	244	231	69	106	42	29	M16×1.5	8
63	259	246	69	121	42	29	M16×1.5	8
80	300	282.5	86	128	53	35.5	M20×1.5	10
100	320	300.5	91	138	55	35.5	M20×1.5	10
125	398	366.5	119	160	74	42.5	M27×2.0	13.5
160	484	458	152	180	94	68	M36×2.0	18
200	514	482	167	180	100	68	M36×2.0	18

Note: 1. The dimensions of magnet type cylinder are the same as non-magnet type cylinder.
2. The unmarked dimension is the same as SI standard type.

SIJ



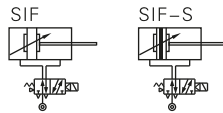
Cylinder
SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1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



Symbol



Product feature

1. For standard cylinders: use 4M210 valve for bore size 32, 40 & 50; 4M310 valve for bore size 63, 80 & 100mm.
2. Individually control, no need for extra solenoid valves.
3. Installation time & space saving; suitable for decentralized installation in large system.
4. Options of mounting accessories & easy installation.

Stroke

Bore size (mm)	Standard stroke (mm)	Mini. stroke	Max. std.	Max. stroke
32	Standard type 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	50	1000	1800
	With TC type 100 125 150 160 175 200 250 300 350 400 450 500	100		
40	Standard type 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	50	1200	1800
	With TC type 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	100		
50	Standard type 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	50	1200	1800
	With TC type 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	100		
63	Standard type 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	50	1500	1800
	With TC type 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	100		

Note: Consult us for non-standard stroke.

Ordering code

SIF	50 × 1000	S
Model	Stroke	Magnet
SIF Double acting with valve type	Refer to stroke table for details	Blank Without magnet
		S With magnet
Bore size		
32		
40		
50		
63		
80		
100		

Specifications

Cylinder specification											
Bore size(mm)	32		40		50		63		80		100
Acting type	Double acting										
Fluid	Air (to be filtered by 40μm filter element)										
Mounting type	Basic	FA	FB	CA	CB	CR	LB	TC	FTC	TCM1	TCM2
Operating pressure	0.1~1.0MPa(15~145psi)(1.0~10.0bar)										
Proof pressure	1.5MPa(215psi)(15bar)										
Temperature (°C)	-20~80										
Speed range (mm/s)	30~800										
Stroke tolerance	0~250 ^{+1.0} ₀		251~1000 ^{+1.5} ₀		1001~1500 ^{+2.0} ₀						
Cushion type	Variable cushion										
Adjustable cushion stroke	27			30			36				
Port size	1/8"		1/4"			3/8"			1/2"		
PU tube size(ODXID)	Φ8×Φ5							Φ10×Φ6.5			
Solenoid valve specification											
Model	4M210-06 & 4M210-08						4M310-08 & 4M310-10				
Fluid	Air(to be filtered by 40μm filter element)										
Acting type	Internal piloted										
Port size Note 1)	In=Exhaust=1/8" & In=1/4" Exhaust=1/8"						In=Exhaust=1/4" & In=3/8" Exhaust=1/4"				
Orifice size	4M210-06: 14.0mm ² (Cv=0.78) 4M210-08: 16.0mm ² (Cv=0.89)						4M310-08: 25.0mm ² (Cv=1.40) 4M310-10: 30.0mm ² (Cv=1.68)				
Valve type	5 port 2 position										
Operating pressure	0.15~0.8MPa(21~114psi)										
Proof pressure	1.5MPa(215psi)										
Temperature (°C)	-20~70										
Body material	Aluminum alloy										
Lubrication Note 2)	Not required										
Max. frequency Note 3)	5 cycle/sec						4 cycle/sec				
Coil specification											
Standard voltage	AC220V AC110V AC24V DC24V DC12V										
Scope voltage	AC: ±15% DC: ±10%										
Power consumption	AC: 3.5VA DC: 3.0W										
Protection	IP65(DIN40050)										
Temperature classification	B Class										
Electrical entry	Terminal, Grommet										
Activating time	0.05 sec and below										

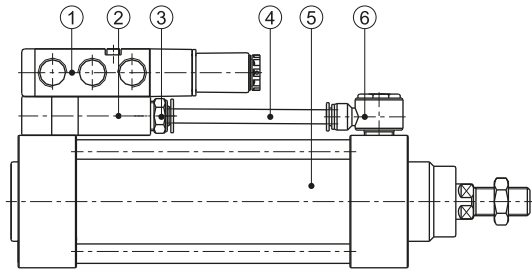
Note: 1. PT thread, G thread and NPT thread are available.

2. It can't stop in the midway of lubricating. Lubricants like ISO VG32 or equivalent are recommended.

3. The maximum actuation frequency is in the no-load state.

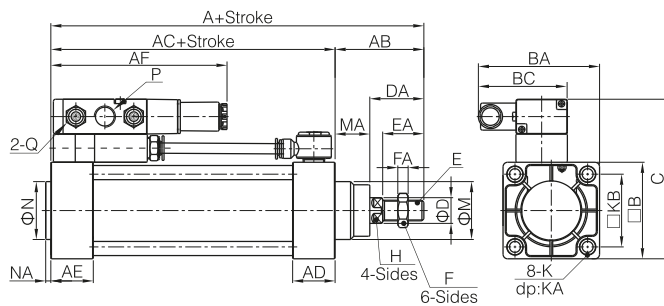
Inner structure

SIF



Dimensions

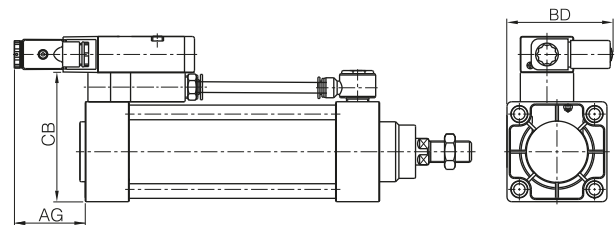
Pull when energized



Bore size\Item	A	AB	AC	AD	AE	AF	AG	B	BA	BC	BD
32	142	48	94	27.5	27.5	117.5	53.5	47	78.5	67	67.5
40	159	54	105	32	32	120	51	53	82	67	70
50	175	69	106	31	31	118.5	52.5	65	89.5	67	74.5
63	190	69	121	33	33	137	53	75	94.5	69.5	79.5
80	214	86	128	33	33	137	53	95	105.5	69.5	88
100	229	91	138	37	37	137.5	52.5	115	118	69.5	96

Bore size\Item	C	CB	D	DA	E	EA	F	FA	M	MA	N	NA
32	91	69	12	29	M10×1.25	22	17	6	30	19	30	3
40	97	75	16	33	M12×1.25	24	17	7	35	21	35	3.5
50	109	87	20	42	M16×1.5	32	23	8	40	27	40	3.5
63	124	97	20	42	M16×1.5	32	23	8	45	27	45	4
80	144	117	25	53	M20×1.5	40	26	10	45	33	45	4
100	164	137	25	55	M20×1.5	40	26	10	55	36	55	4

Push when energized



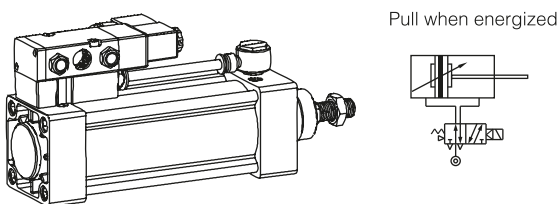
Bore size\Item	Compatible valve's type	P	Q	K	KA	KB	H
32	4M210-06	1/8"	1/8"	M6(No TC)	16(No TC)	32.5	10
	4M210-08	1/4"		M5(With TC)	14(With TC)		
40	4M210-06	1/8"	1/8"	M6(No TC)	16(No TC)	38	13
	4M210-08	1/4"		M5(With TC)	16(With TC)		
50	4M210-06	1/8"	1/8"	M8(No TC)	16(No TC)	46.5	17
	4M210-08	1/4"		M6(With TC)	16(With TC)		
63	4M310-08	1/4"	1/4"	M8(No TC)	16(No TC)	56.5	17
	4M310-10	3/8"		M6(With TC)	16(With TC)		
80	4M310-08	1/4"	1/4"	M10(No TC)	17(No TC)	72	22
	4M310-10	3/8"		M8(With TC)	16(With TC)		
100	4M310-08	1/4"	1/4"	M10(No TC)	17(No TC)	89	22
	4M310-10	3/8"		M8(With TC)	16(With TC)		

Note: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.

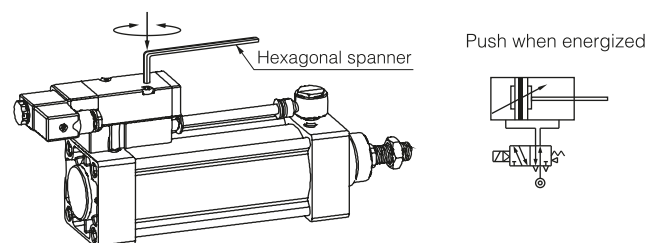
How to use

- Options for piston rod to retract or extend when solenoid coil is energized.
- Default factory setting will be retracting action when energized (see drawing one). If you require piston rod to extend when energized, reposition the solenoid valves as shown in drawing two.

Drawing one



Drawing two



Attention

Ensure that the seals between the mounting block & valve are placed correctly when repositioning the valve.

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
NMH22
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

List for ordering code of accessories

Accessories Bore size	Mounting accessories								
	LB	FA\FB	CA	CB	CR	TC	FTC	TCM1	TCM2
32	F-SI32LB	F-SI32FA	F-SI32CA	F-SI32CB	F-SI32CR	F-SI32TC	F-SI32FTC	F-SI32TCM1	F-SI32TCM2
40	F-SI40LB	F-SI40FA	F-SI40CA	F-SI40CB	F-SI40CR	F-SI40TC	F-SI40FTC	F-SI40TCM1	F-SI40TCM2
50	F-SI50LB	F-SI50FA	F-SI50CA	F-SI50CB	F-SI50CR	F-SI50TC	F-SI50FTC	F-SI50TCM1	F-SI50TCM2
63	F-SI63LB	F-SI63FA	F-SI63CA	F-SI63CB	F-SI63CR	F-SI63TC	F-SI63FTC	F-SI63TCM1	F-SI63TCM2
80	F-SI80LB	F-SI80FA	F-SI80CA	F-SI80CB	F-SI80CR	F-SI80TC	F-SI80FTC	F-SI80TCM1	F-SI80TCM2
100	F-SI100LB	F-SI100FA	F-SI100CA	F-SI100CB	F-SI100CR	F-SI100TC	F-SI100FTC	F-SI100TCM1	F-SI100TCM2
125	F-SI125LB	F-SI125FA	F-SI125CA	F-SI125CB	F-SI125CR	F-SI125TC	F-SI125FTC	F-SI125TCM1	F-SI125TCM2
160	F-SI160LB	F-SI160FA	F-SI160CA	F-SI160CB	F-SI160CR	F-SI160TC	F-SI160FTC	F-SI160TCM1	F-SI160TCM2
200	F-SI200LB	F-SI200FA	F-SI200CA	F-SI200CB	F-SI200CR	F-SI200TC	F-SI200FTC	F-SI200TCM1	F-SI200TCM2

Accessories	Bore size	Knuckle				Sensor switch					
		I: I Knuckle	Y: Y Knuckle	F: F Knuckle	U: U Knuckle	CS1-B□	DS1-B□	CS1-F	DS1-F	CS1-U	DS1-U
	32	F-M10×125I	F-M10×125Y	F-M10×125F	F-M10×125U	CS1-B1	DS1-B1	CS1-F	DS1-F	CS1-U	DS1-U
	40	F-M12×125I	F-M12×125Y	F-M12×125F	F-M12×125U	CS1-B1	DS1-B1				
	50	F-M16×150I	F-M16×150Y	F-M16×150F	F-M16×150U	CS1-B2	DS1-B2				
	63	F-M16×150I	F-M16×150Y	F-M16×150F	F-M16×150U	CS1-B2	DS1-B2				
	80	F-M20×150I	F-M20×150Y	F-M20×150F	F-M20×150U	CS1-B3	DS1-B3				
	100	F-M20×150I	F-M20×150Y	F-M20×150F	F-M20×150U	CS1-B4	DS1-B4				
	125	F-M27×200I	F-M27×200Y	-	F-M27×200U	CS1-B5	DS1-B5				
	160	F-M36×200I	F-M36×200Y	-	F-M36×200U	CS1-B6	DS1-B6				
	200	F-M36×200I	F-M36×200Y	-	F-M36×200U	CS1-B7	DS1-B7				

Accessory selection

Accessories	Cylinder model	Mounting accessory										Knuckle				Sensor switch					
		LB	FA	FB	CA	CB	CR	TC	FTC	TCM1	TCM2	I	Y	U	F	CS1-B	DS1-B	CS1-F	DS1-F	CS1-U	DS1-U
S\SI	Standard	●	●	●	●	●	●	●	●	●	●	●	●	●	●	×	×	×	×	×	×
	With magnet	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SID	Standard	●	●	×	×	×	×	●	●	●	●	●	●	●	●	×	×	×	×	×	×
	With magnet	●	●	×	×	×	×	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SIJ	Standard	●	●	×	×	×	×	●	●	●	●	●	●	●	●	×	×	×	×	×	×
	With magnet	●	●	×	×	×	×	●	●	●	●	●	●	●	●	●	●	●	●	●	●

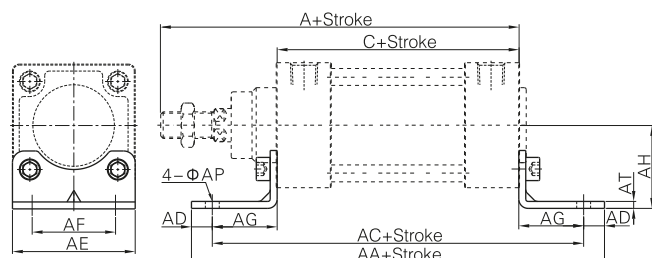
Material of accessories

Accessories	Bore size	Mounting accessories										Knuckle			
		LB	FA	FB	CA	CB	CR	TC	FTC	TCM1	TCM2	I	Y	U	F
	32~40	○	●	●	◇	◇	◇	◇	■	■	●	□	□	□	□
	125~200	□	□	□	□	□	□	□	□	□	●	□	□	□	□

● — Aluminum alloy, ■ — Cast steel,
○ — Low carbon steel, ◇ — Nodular cast iron, □ — Carbon steel.

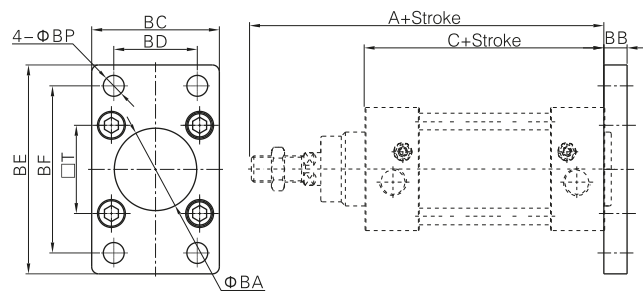
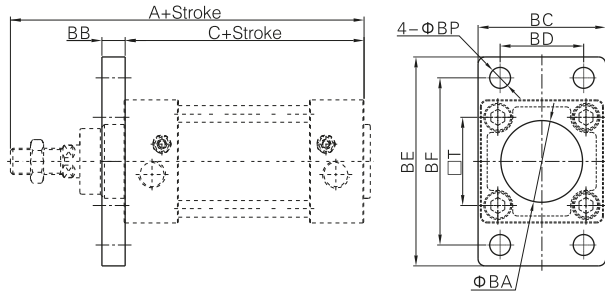
Accessories dimensions

LB



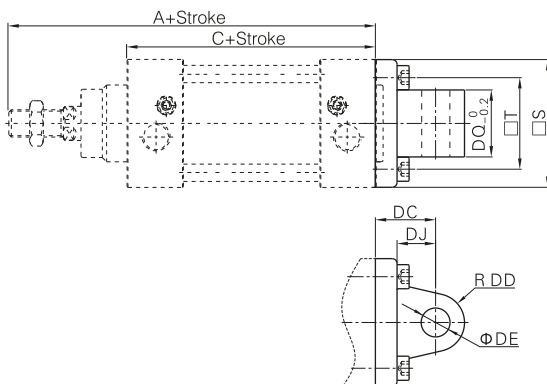
Bore size/Item	A	C	AA	AC	AD	AE	AF	AG	AH	AP	AT
32	142	94	158	142	8	47	32	24	32	7	3
40	159	105	179	161	9	53	36	28	36	9	3
50	175	106	190	170	10	65	45	32	45	9	3
63	190	121	209	185	12	75	50	32	50	9	3
80	214	128	248	210	19	95	63	41	63	12.5	4
100	229	138	266	220	19	115	75	41	71	14.5	4
125	279	160	290	250	20	140	90	45	90	16.5	6
160	332	180	340	300	20	180	115	60	115	18.5	8
200	347	180	380	320	30	220	135	70	135	24	9

FA/FB



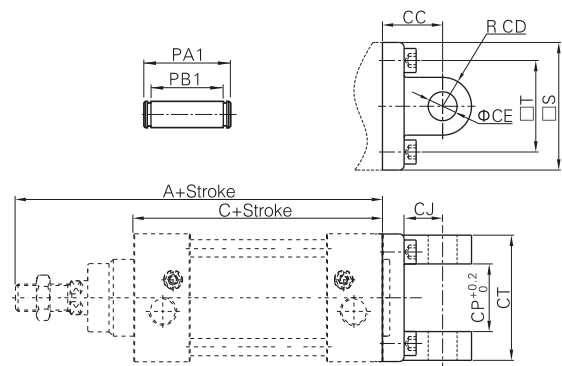
Bore size/Item	A	C	BA	BB	BC	BD	BE	BF	BP	T
32	142	94	30.5	10	47	32	80	64	7	32.5
40	159	105	35.5	10	53	36	90	72	9	38
50	175	106	40.5	12	65	45	108	90	9	46.5
63	190	121	45.5	12	75	50	118	100	9	56.5
80	214	128	45.5	16	95	63	150	126	12.5	72
100	229	138	55.5	16	115	75	176	150	14.5	89
125	279	160	60.5	20	139	90	218	180	16.5	110
160	332	180	65.5	20	180	115	280	230	18.5	140
200	347	180	75.5	25	220	135	320	270	24	175

CA



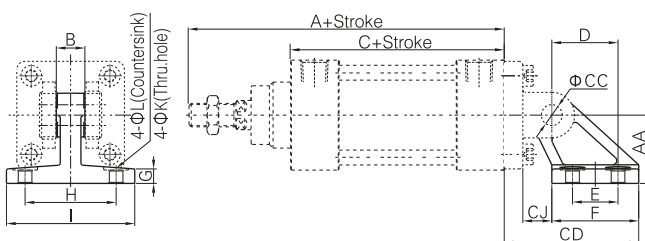
Bore size/Item	A	C	S	T	DC	DD	DE	DJ	DQ
32	142	94	47	32.5	22	9	10	13	25.8
40	159	105	52	38	25	10.5	12	16	27.8
50	175	106	64	46.5	27	11	12	17	31.7
63	190	121	74	56.5	32	13.5	16	22	39.7
80	214	128	94	72	36	14.5	16	22	49.7
100	229	138	113	89	41	17	20	27	59.7
125	279	160	139	110	50	22	25	33	69.7
160	332	180	180	140	55	30	30	35.5	89.7
200	347	180	220	175	60	30	30	37	89.7

CB



Bore size/Item	A	C	CC	CD	CE	CJ	CP	CT	PA1	PB1	S	T
32	142	94	22	9	10	13	26	45	51	45.5	47	32.5
40	159	105	25	10.5	12	16	28	52	59	52.5	52	38
50	175	106	27	11	12	17	32	60	67	60.5	64	46.5
63	190	121	32	13	16	22	40	70	77	70.5	74	56.5
80	214	128	36	14	16	22	50	90	97	90.5	94	72
100	229	138	41	17.5	20	27	60	110	119	110.5	113	89
125	279	160	50	21.5	25	33	70	130	139	130.5	139	110
160	332	180	55	30	30	35.5	90	170	181	170.5	180	140
200	347	180	60	30	30	36	90	170	181	170.5	220	175

CR



Bore size/Item	A	AA	B	C	CC	CD	CJ	D	E	F	G	H	I	K	L
32	142	32	26	94	10	50	10	21	18	31	8	38	51	6.6	-
40	159	36	28	105	12	56	12	24	22	35	10	41	54	6.6	-
50	175	45	32	106	12	68	13	33	30	45	12	50	65	9	-
63	190	50	40	121	16	77	17	37	35	50	12	52	67	9	-
80	214	63	50	128	16	93	19	47	40	60	14	66	86	11	18
100	229	71	60	138	20	106	22	55	50	70	15	76	96	11	18
125	279	90	70	160	25	135	26	70	60	90	20	94	124	14	20
160	332	115	90	180	30	171	25	97	88	126	25	118	156	14	20
200	347	135	90	180	30	185	31	105	90	130	30	122	162	18	26

Note: CR can't be used alone, it must be used with CB.

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

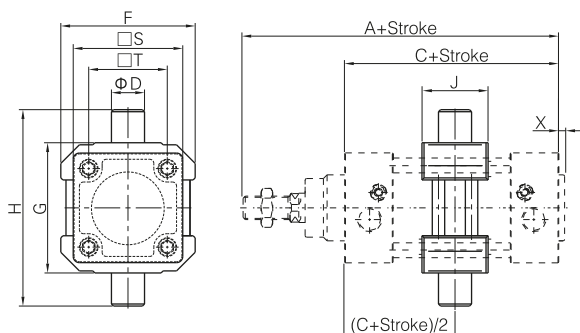
QCK

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
NMH22
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

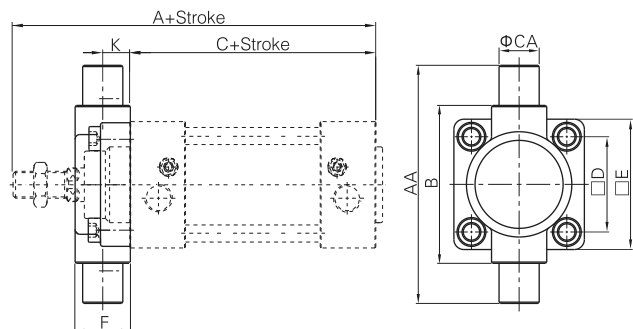
TC



Bore size/Item	A	C	D	F	G	H	J	S	X	T
32	142	94	12	52	50	74	22	47	3	32.5
40	159	105	16	65	63	95	28	53	3.5	38
50	175	106	16	75	75	107	28	65	3.5	46.5
63	190	121	20	90	90	130	30	75	4	56.5
80	214	128	20	112	110	150	32	95	4	72
100	229	138	25	135	132	182	38	115	4	89
125	279	160	25	170	160	210	40	140	4	110
160	332	180	32	210	200	264	50	180	4	140
200	347	180	32	255	250	314	50	220	5	175

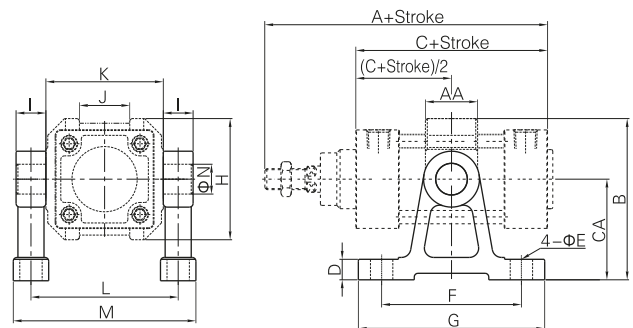
Note: The TC accessory has been installed on the barrel of cylinder before it worked off, and the position of the accessories can not be adjusted arbitrarily.
If consumer orders the TC solely, we will not install it on the barrel of standard cylinder directly.

FTC



Bore size/Item	A	C	AA	B	CA	D	E	F	K
32	142	94	74	50	12	32.5	46	19	10
40	159	105	95	63	16	38	52	21	10
50	175	106	107	75	16	46.5	64	26	12
63	190	121	130	90	20	56.5	74	28	12
80	214	128	150	110	20	72	94	31	16
100	229	138	182	132	25	89	114	35	16
125	279	160	210	160	25	110	139	43	20
160	332	180	264	200	32	140	179	56	20
200	347	180	314	250	32	175	218	64	20

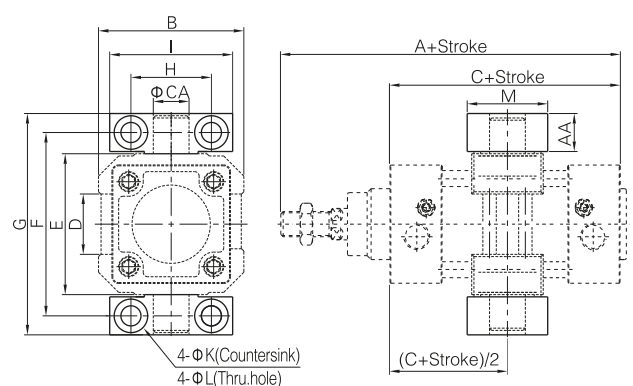
TCM1



Bore size/Item	A	C	AA	B	CA	D	E	F	G	H	I	J	K	L	M	N
32	142	94	22	66	40	11	9	60	80	52	12	20	50	62	77	12
40	159	105	28	86.5	54	11	12	75	100	65	16	27	63	79	98	16
50	175	106	28	91.5	54	11	12	75	100	75	16	31	75	91	110	16
63	190	121	30	115	70	11	12	85	110	90	20	42	90	110	133	20
80	214	128	32	126	70	11	12	85	110	112	20	54	110	130	153	20
100	229	138	38	157.5	90	19	18	115	155	135	25	68	132	157	185	25
125	279	160	40	175	90	19	18	115	155	170	25	80	160	185	213	25
160	332	180	50	215	110	24	22	140	190	210	32	100	200	232	267	32
200	347	180	50	262.5	135	27	22	150	200	255	32	125	250	282	317	32

Note: The installation position of the accessories can not be adjusted arbitrarily, When TCM1 be used with FTC.

TCM2



Bore size/Item	A	AA	B	C	CA	D	E	F	G	H	I	K	L	M
32	142	14	52	94	12	20	50	66	80	32	46	11	7	30
40	159	17	65	105	16	27	63	82	99	36	55	15	9	36
50	175	17	75	106	16	31	75	94	111	36	55	15	9	36
63	190	20.5	90	121	20	42	90	113.5	134	42	65	18	11	40
80	214	20.5	112	128	20	54	110	133.5	154	42	65	18	11	40
100	229	24.5	135	138	25	68	132	159.5	184	50	75	20	14	50
125	279	24.5	170	160	25	80	160	187.5	212	50	75	20	14	50
160	332	30	210	180	32	100	200	234	264	60	92	26	18	60
200	347	30	255	180	32	125	250	284	314	60	92	26	18	60

Note: The installation position of the accessories can not be adjusted arbitrarily, When TCM2 be used with FTC.