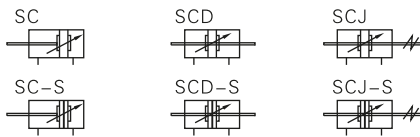


Symbol



Product feature

1. Standard cylinder manufactured by our enterprise.
2. The seal of piston adopts heterogeneous two way seal structure. It's dimension is tight and it has the function of grease reservation.
3. It is tie rod cylinder. The cylinder barrel and front/rear cap is jointed by tie rods with high reliability.
4. Compared with ISO15552 standard cylinder, SC series cylinder with the same bore size is shorter.
5. The buffer adjustment of cylinder is smooth and steady.
6. Cylinders and mounting accessories with several specifications are optional.
7. The seal material with high temperature resistance is adopted to guarantee the normal operation of cylinder at 150°C.

Ordering code

SC		50	×	50		
SCD		50	×	50		
SCJ		50	×	50	-	20
Model	Bore size	Stroke	Adjustable stroke			
SC	Double acting type	32	10	10mm		
		40	20	20mm		
SCD	Double rod type	50	30	30mm		
		63	40	40mm		
SCJ	Adjustable stroke type	80	50	50mm		
		100	75	75mm		
			100	100mm		

Specifications

Bore size(mm)		32	40	50	63	80	100
Acting type		Double acting					
Fluid		Air (to be filtered by 40μm filter element)					
Mounting type	SC	Basic FA FB CA CB LB TC TCM1					
	SCD, SCJ	Basic FA LB TC TCM1					
Operating pressure		0.15~1.0MPa(22~145psi)(1.5~10.0bar)					
Proof pressure		1.5MPa(215psi)(15bar)					
Temperature (°C)		-20~70					
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		21				28	29
Port size Note)		1/8"	1/4"		3/8"		1/2"

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	2000
40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
50	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
63	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
80	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
100	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000

Note: If the stroke is ≥ 1600mm within the maximum stroke scope, it is treated as non-standard one.
Please contact Dg-pnetic for other special strokes.

S

S

S

Magnet

Blank

Without magnet

S

With magnet

Mounting type (Note)

Mounting type

Available series

Memo

Blank

SC

SCD

SCJ

LB

FA

FB

CA

CB

TC

SC

SC, SCD

SCJ

Be used with TCM1

Seals material

Blank

TPU

H

Viton

N

NBR

Thread type

Blank

PT

G

G

T

NPT

Note: The accessories are the same as SU series.

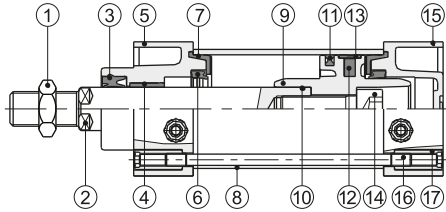
Cylinder

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
NMGF
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

Inner structure and material of major parts

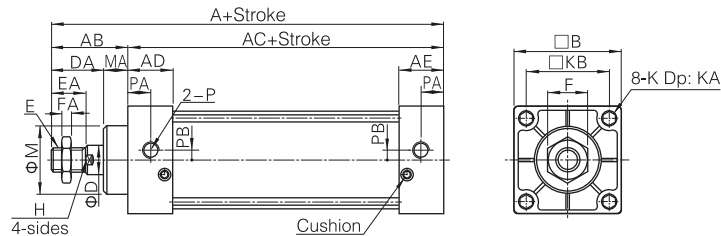
SC



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

Dimensions

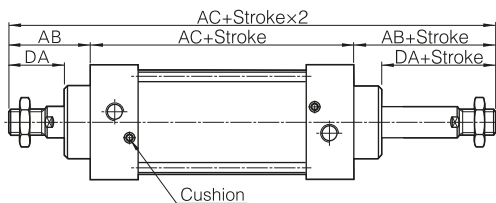
SC



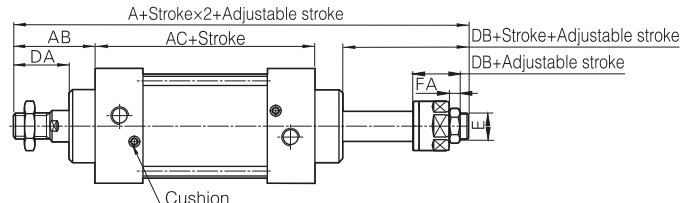
Bore size\Item	A	AB	AC	AD	AE	B	D	DA	E	EA	F	FA	H	K	KA	KB	M	MA	P	PA	PB
32	140	47	93	27.5	27.5	45	12	32	M10×1.25	22	17	6	10	M6×1.25	14.5	33	28	15	1/8"	14	5.5
40	142	49	93	27.5	27.5	50	16	34	M12×1.25	24	17	7	14	M6×1.25	14.5	37	32	15	1/4"	15	6
50	150	57	93	27.5	27.5	62	20	42	M16×1.5	32	23	8	17	M6×1.5	14.5	47	38	15	1/4"	17	8.5
63	153	57	96	27.5	27.5	75	20	42	M16×1.5	32	23	8	17	M8×1.5	14.5	56	38	15	3/8"	15	9.5
80	182	75	107	33	33	94	25	54	M20×1.5	40	26	10	22	M10×1.5	17	70	47	21	3/8"	19.5	10
100	188	75	113	33	33	112	25	54	M20×1.5	40	26	10	22	M10×1.5	17	84	47	21	1/2"	19.5	11

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

SCD



SCJ

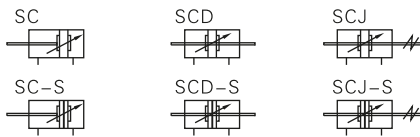


Bore size\Item	A(SCD)	A(SCJ)	AB	AC	DA	DB	E	FA
32	187	182	47	93	32	27	M10×1.25	6
40	191	185	49	93	34	28	M12×1.25	7
50	207	194	57	93	42	29	M16×1.5	8
63	210	197	57	96	42	29	M16×1.5	8
80	257	238.5	75	107	54	35.5	M20×1.5	10
100	263	244.5	75	113	54	35.5	M20×1.5	10

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



Symbol



Product feature

1. ISO6430 standard cylinder.
2. The seal of piston adopts heterogeneous two way seal structure. It's dimension is tight and it has the function of grease reservation.
3. It is tie rod cylinder. The cylinder barrel and front/rear cap is jointed by tie rods with high reliability.
4. Compared with ISO15552 standard cylinder, SC series cylinder with the same bore size is shorter.
5. The buffer adjustment of cylinder is smooth and steady.
6. Cylinders and mounting accessories with several specifications are optional.
7. The seal material with high temperature resistance is adopted to guarantee the normal operation of cylinder at 150°C.

Ordering code

SC		200	×	500		
SCD		200	×	500		
SCJ		200	×	500	−	50
	Model	Bore size		Stroke	Adjustable stroke	
SC	Double acting type	125	Refer to stroke table for details	10	10mm	
		160		20	20mm	
SCD	Double rod type	200		30	30mm	
		250		40	40mm	
SCJ	Adjustable stroke type			50	50mm	
			75	75mm		
			100	100mm		

Note: The accessories are the same as SU series.

Specifications

Bore size(mm)		125	160	200	250
Acting type		Double acting			
Fluid		Air (to be filtered by 40μm filter element)			
Mounting type	SC	Basic FA FB CA CB LB TC TCM1			
	SCD, SCJ	Basic FA LB TC TCM1			
Operating pressure		0.15~1.0MPa(22~145psi)(1.5~10.0bar)			
Proof pressure		1.5MPa(215psi)(15bar)			
Temperature (°C)		-20~70			
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		28	29	33	40
Port size Note)		1/2"	3/4"		1"

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

Stroke

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

Note: If the stroke is $\geq 1600\text{mm}$ within the maximum stroke scope,
it is treated as non-standard one.
Please contact Dg-pnetic for other special strokes.

S							
S							
S							
Magnet							
		Mounting type (Note)				Seals material	Thread type
Blank	Without magnet		Mounting type	Available series	Memo	Blank TPU	Blank PT
S	With magnet	Blank		SC SCD SCJ		H Viton	G G
		LB					T NPT
		FA					
		FB					
		CA		SC			
		CB					
		TC		SC, SCD SCJ	Be used with TCM1		

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

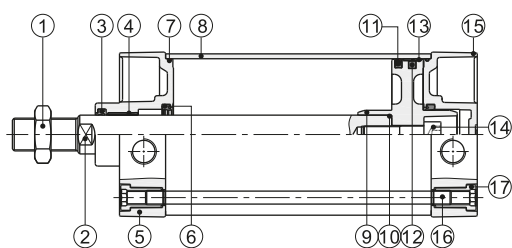
SRC

QCK

NCK1

Inner structure and material of major parts

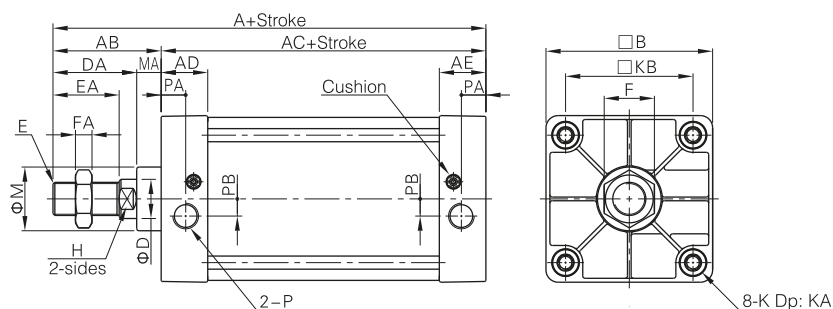
SC



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

Dimensions

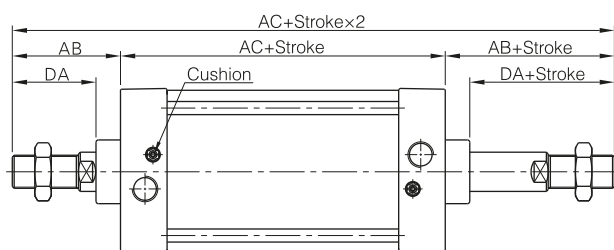
SC



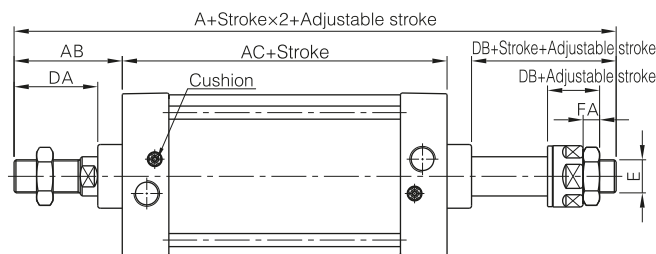
Bore size\Item	A	AB	AC	AD	AE	B	D	DA	E	EA	F	FA	H	K	KA	KB	M	MA	P	PA	PB
125	203	88	115	38	38	136	32	68	M20×2.0	54	41	13.5	27	M12×1.75	21	104	52	20	1/2"	20	14
160	239	113	126	38	38	174	40	88	M20×2.0	72	55	18	36	M16×2.0	21	134	62	25	3/4"	20	15
200	244	118	126	38	38	214	40	88	M20×2.0	72	55	18	36	M16×2.0	21	163	62	30	3/4"	20	15
250	294	141	153	48	48	267	50	106	M20×2.0	84	65	21	46	M20×2.0	26	202	86	35	1"	25.5	22

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

SCD



SCJ



Bore size\Item	A(SCD)	A(SCJ)	AB	AC	DA	DB	E	FA
125	291	265.5	88	115	68	42.5	M27×2.0	13.5
160	352	332	113	126	88	68	M36×2.0	18
200	362	342	118	126	88	68	M36×2.0	18
250	435	409	141	153	106	80	M42×2.0	21

Note: 1. The dimensions of magnet type cylinder are the same as non-magnet type cylinder.

2. The unmarked dimension is the same as SC standard type.



Specifications

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 LB TC TCM1					
Operating pressure	0.15~1.0MPa(22~145psi)(1.5~10.0bar)					
Proof pressure	1.5MPa(215psi)(15bar)					
Temperature (°C)	-20~70					
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	21				28	29
Port size Note)	1/8"	1/4"		3/8"		1/2"

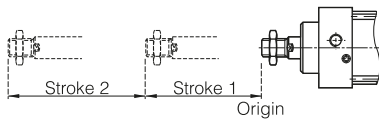
Note: PT thread, G thread and NPT thread are available.

Symbol



Product feature

1. Standard cylinder manufactured by our enterprise.
2. The seal of piston adopts heterogeneous two way seal structure. It's dimension is tight and it has the function of grease reservation.
3. It is tie rod cylinder. The cylinder barrel and front/rear cap is jointed by tie rods with high reliability.
4. Piston rod can be positioned in several positions in the whole action process.



5. The buffer adjustment of cylinder is smooth and steady.
6. Cylinders and mounting accessories with several specifications are optional.
7. The seal material with high temperature resistance is adopted to guarantee the normal operation of cylinder at 150°C.

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	500	800
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	800
50	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	800
63	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	800
80	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	800
100	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	800

Note: If the stroke is ≥800mm within the maximum stroke scope, it is treated as non-standard one.
Please contact Dg-pnetic for other special strokes.

Ordering code

SCT		50	×	50	×	50	S							
Model		Bore size	Stroke 1		Stroke 2		Magnet	Mounting type (Note)		Seals material		Thread type		
SCT	Double acting Multi-position type	32	Refer to stroke table for details		Refer to stroke table for details		Blank	Without magnet	Blank		Blank	TPU	Blank	PT
		H							Viton	G	G			
		S					With magnet	LB		N	NBR	T	NPT	
								FA						
								FB						
		100							CA					
									CB					
									TC					

Note: TC is used with TCM1.

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

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NMHS4

NMRHQ

NMSQ

NCRA1

NCRQ2

NCRB2

ACK

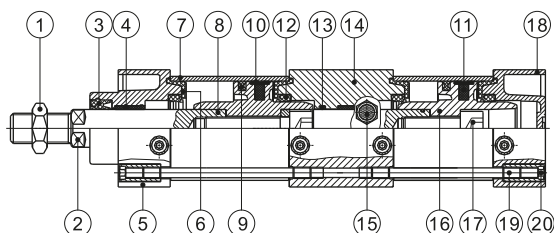
SRC

QCK

NCK1

Inner structure and material of major parts

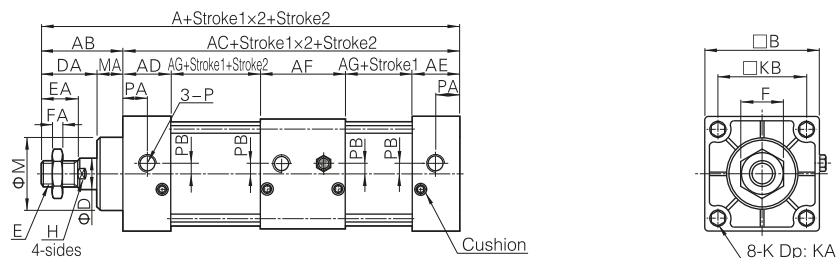
SCT



No.	Item	Material
1	Rod nut	Carbon steel
2	Piston rod	Carbon steel with 20μm chrome plated
3	packing	TPU
4	Bushing	Wear resistant material
5	Front cover	Aluminum alloy
6	Cushion O-ring	TPU
7	Barrel	Aluminum alloy
8	Rod O-ring	NBR
9	Piston seal	NBR
10	Wear ring	Wear resistant material
11	Magnet	Plastic
12	Gasket	NBR
13	O-ring	NBR
14	Joint seat	Aluminum alloy
15	Silencer	Plastic
16	Piston	Aluminum alloy
17	Bolt	Carbon steel
18	Back cover	Aluminum alloy
19	Tie-rod	Carbon steel
20	Tie-rod nut	Carbon steel

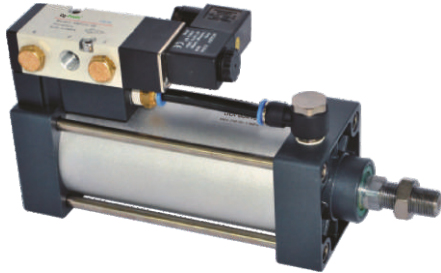
Dimensions

SCT

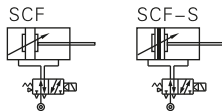


Bore size\Item	A	AB	AC	AD	AE	AF	AG	B	D	DA	E	EA	F	FA	H	K	KA	KB	M	MA	P	PA	PB
32	233	47	186	27.5	27.5	55	38	45	12	32	M10×1.25	22	17	6	10	M6×1.0	14.5	33	28	15	1/8"	14	5.5
40	235	49	186	27.5	27.5	55	38	50	16	34	M12×1.25	24	17	7	14	M6×1.0	14.5	37	32	15	1/4"	15	6
50	243	57	186	27.5	27.5	55	38	62	20	42	M16×1.5	32	23	8	17	M6×1.0	14.5	47	38	15	1/4"	17	8.5
63	249	57	192	27.5	27.5	55	41	75	20	42	M16×1.5	32	23	8	17	M8×1.25	14.5	56	38	15	3/8"	15	9.5
80	296	75	221	33	33	73	41	94	25	54	M20×1.5	40	26	10	22	M10×1.5	17	70	47	21	3/8"	19.5	10
100	308	75	233	33	33	73	47	112	25	54	M20×1.5	40	26	10	22	M10×1.5	17	84	47	21	1/2"	16.5	11

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



Symbol



Product feature

- For standard cylinders: use 4M210 valve for bore size 32, 40 & 50; 4M310 valve for bore size 63, 80 & 100mm.
- Individually control, no need for extra solenoid valves.
- Installation time & space saving; suitable for decentralize installation in large system.
- With 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	2000
	With TC type 100 125 150 160 175 200 250 300 350 400 450 500	100		
40	Standard type 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	50	1200	2000
	With TC type 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	100		
50	Standard type 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	75	1500	2000
	With TC type 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	125		

Note: Consult us for non-standard stroke.

Ordering code

SCF		50	×	1000	S		06	A						
Model		Bore size		Stroke	Magnet		Mounting type (Note)		Pirt size	Voltage	Electrical entry	Thread type		
SCF	Double acting with valve type	32		Refer to stroke table for details	Blank	Without magnet	Blank		06 1/8"	A AC220V	Blank	Terminal	Blank	PT
		40	08 1/4"					B DC24V	I	Grommet	G	G		
		50	10 3/8"					C AC110V			T	NPT		
		63	E AC24V											
		80	F DC12V											
	100													
					S	With magnet	LB							
							FA							
							FB							
							CA							
							CB							
							TC							

Note: TC is used with TCM1.

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 LB TC TCM1					
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					
Stroke tolerance	0~250 ^{+1.0} ₀		251~1000 ^{+1.5} ₀		1001-1500 ^{+2.0} ₀	
Cushion type	Variable cushion					
Adjustable cushion stroke	21				28	29
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.

Cylinder

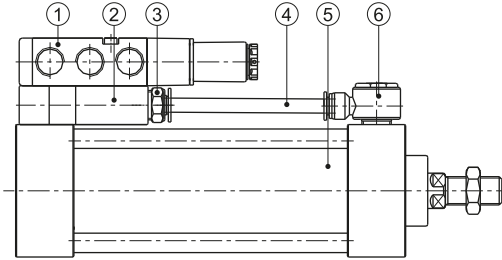
SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2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

Inner structure

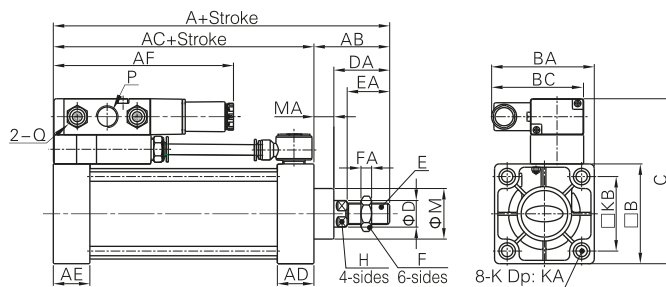
SCF



No.	Item
1	4M series solenoid valve
2	Unite block
3	PC series tube connector
4	PU tube
5	SC series cylinder
6	PH series tube connector

Dimensions

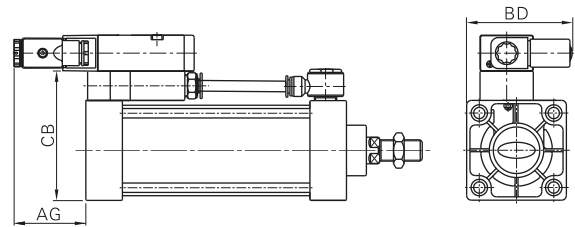
Pull when energized



Bore size\Item	A	AB	AC	AD	AE	AF	AG	B	BA	BC	BD
32	140	47	93	27.5	27.5	118	53	45	67	67	77
40	142	49	93	27.5	27.5	118	53	50	68.5	67	80.5
50	150	57	93	27.5	27.5	120	51	62	72	67	89
63	153	57	96	27.5	27.5	135.5	54.5	75	77.5	69.5	96.5
80	182	75	107	33	33	137	53	94	86.5	69.5	106.5
100	188	75	113	33	33	135.5	54.5	112	96	69.5	115

Bore size\Item	C	CB	D	DA	E	EA	F	FA	M	MA
32	89	67	12	32	M10×1.25	22	17	6	28	15
40	94	72	16	34	M12×1.25	24	17	7	32	15
50	106	84	20	42	M16×1.5	32	23	8	38	15
63	124	97	20	42	M16×1.5	32	23	8	38	15
80	143	116	25	54	M20×1.5	40	26	10	47	21
100	161	134	25	54	M20×1.5	40	26	10	47	21

Push when energized



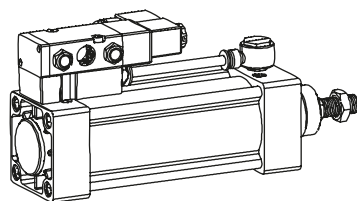
Bore size\Item	Compatible valve's type	P	Q	K	KA	KB	H
32	4M210-06	1/8"	1/8"	M6×1	14.5	33	10
	4M210-08	1/4"					
40	4M210-06	1/8"	1/8"	M6×1	14.5	37	14
	4M210-08	1/4"					
50	4M210-06	1/8"	1/8"	M6×1	14.5	47	17
	4M210-08	1/4"					
63	4M310-08	1/4"	1/4"	M8×1.25	14.5	56	17
	4M310-10	3/8"					
80	4M310-08	1/4"	1/4"	M10×1.5	17	70	22
	4M310-10	3/8"					
100	4M310-08	1/4"	1/4"	M10×1.5	17	84	22
	4M310-10	3/8"					

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

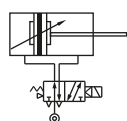
How to use

- 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 valve as shown in drawing two.

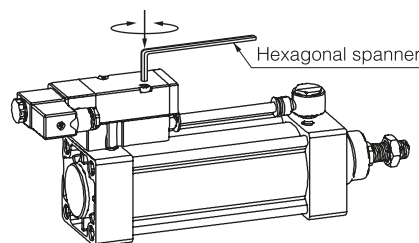
Drawing one



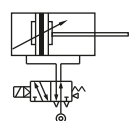
Pull when energized



Drawing two



Push when energized



Attention

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

List for ordering code of accessories

Accessories Bore size	Mounting accessories					
	LB	FA\FB	CA	CB	TC	TCM1
32	F-SC32LB	F-SC32FA	F-SC32CA	F-SC32CB	F-SC32TC	F-SI40TCM1
40	F-SC40LB	F-SC40FA	F-SC40CA	F-SC40CB	F-SC40TC	F-SC40TCM1
50	F-SC50LB	F-SC50FA	F-SC50CA	F-SC50CB	F-SC50TC	F-SC40TCM1
63	F-SC63LB	F-SC63FA	F-SC63CA	F-SC63CB	F-SC63TC	F-SC40TCM1
80	F-SC80LB	F-SC80FA	F-SC80CA	F-SC80CB	F-SC80TC	F-SC80TCM1
100	F-SC100LB	F-SC100FA	F-SC100CA	F-SC100CB	F-SC100TC	F-SC80TCM1
125	F-SC125LB	F-SC125FA	F-SC125CA	F-SC125CB	F-SC125TC	F-SC125TCM1
160	F-SC160LB	F-SC160FA	F-SC160CA	F-SC160CB	F-SC160TC	F-SC160TCM1
200	F-SC200LB	F-SC200FA	F-SC200CA	F-SC200CB	F-SC200TC	F-SC160TCM1
250	F-SC250LB	F-SC250FA	F-SC250CA	F-SC250CB	F-SC250TC	F-SC250TCM1

Accessories Bore size	Knuckle				Sensor switch							
	I: I Knuckle	Y: Y Knuckle	F: F Knuckle	U: U Knuckle	CS1-A	DS1-A	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-A	DS1-A	-	-	CS1-F	DS1-F	CS1-U	DS1-U
40	F-M12×125I	F-M12×125Y	F-M12×125F	F-M12×125U								
50	F-M16×150I	F-M16×150Y	F-M16×150F	F-M16×150U								
63	F-M16×150I	F-M16×150Y	F-M16×150F	F-M16×150U								
80	F-M20×150I	F-M20×150Y	F-M20×150F	F-M20×150U								
100	F-M20×150I	F-M20×150Y	F-M20×150F	F-M20×150U	-	-	CS1-B1	DS1-B1	-	-	-	-
125	F-M27×200I	F-M27×200Y	F-M27×200F	F-M27×200U			CS1-B8	DS1-B8				
160	F-M36×200I	F-M36×200Y	F-M36×200F	F-M36×200U			CS1-B8	DS1-B8				
200	F-M36×200I	F-M36×200Y	F-M36×200F	F-M36×200U			CS1-B5	DS1-B5				
250	F-M42×200Y	F-M42×200Y	-	-								

Accessory selection

Accessories Cylinder model		Mounting accessories							Knuckle				Sensor switch							
		LB	FA	FB	CA	CB	TC	TCM1	I	Y	F	U	CS1-A	DS1-A	CS1-B	DS1-B	CS1-F	DS1-F	CS1-U	DS1-U
SC	Standard	●	●	●	●	●	●	●	●	●	●	●	×	×	×	×	×	×	×	×
	With magnet	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SCD	Standard	●	●	×	×	×	●	●	●	●	●	●	×	×	×	×	×	×	×	×
	With magnet	●	●	×	×	×	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SCJ	Standard	●	●	×	×	×	●	●	●	●	●	●	×	×	×	×	×	×	×	×
	With magnet	●	●	×	×	×	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SCT	Standard	●	●	●	●	●	●	●	●	●	●	●	×	×	×	×	×	×	×	×
	With magnet	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SCF	Standard	●	●	●	●	●	●	●	●	●	●	●	×	×	×	×	×	×	×	×
	With magnet	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Material of accessories

Accessories Bore size	Mounting accessories							Knuckle			
	LB	FA	FB	CA	CB	TC	TCM1	I	Y	F	U
32~100	□	●	●	◇	◇	◇	◇	□	□	□	□
125~200	◇	◇	◇	◇	◇	◇	◇	□	□	-	-
250	◇	■	■	◇	◇	◇	◇	■	■	-	-

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

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

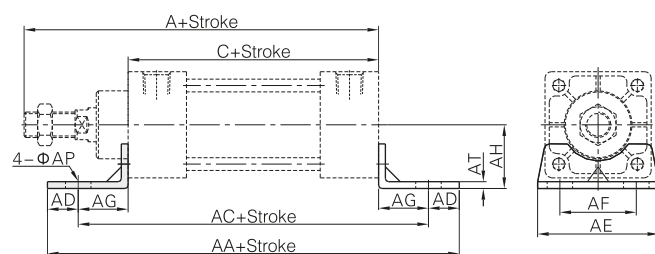
QCK

NCK1

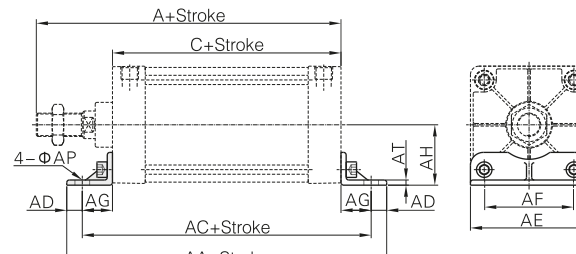
Dimensions

LB

Φ32~Φ100



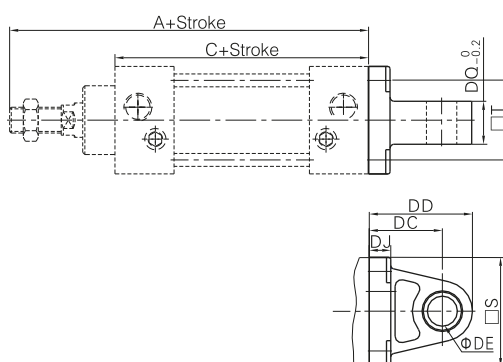
Φ125~Φ250



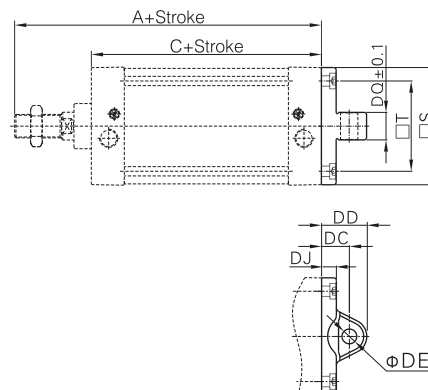
Bore size\Item	A	C	AA	AC	AD	AE	AF	AG	AH	AP	AT
32	140	93	153	134	9.5	50	33	20.5	28	9	3
40	142	93	169	140	14.5	57	36	23.5	30	12	3
50	150	93	173	149	12	68	47	28	36.5	12	3
63	153	96	184	158	13	80	56	31	41	12	3
80	182	107	199	167	16	97	70	30	49	14	4
100	188	113	209	173	18	112	84	30	57	14	4
125	203	115	221	185	18	136	104	35	70	17	6
160	239	126	246	206	20	174	134	40	91	17	8
200	244	126	276	226	25	214	163	50	113.5	22	9
250	294	153	323	273	25	267	201	60	141	26	15

CA

Φ32~Φ100



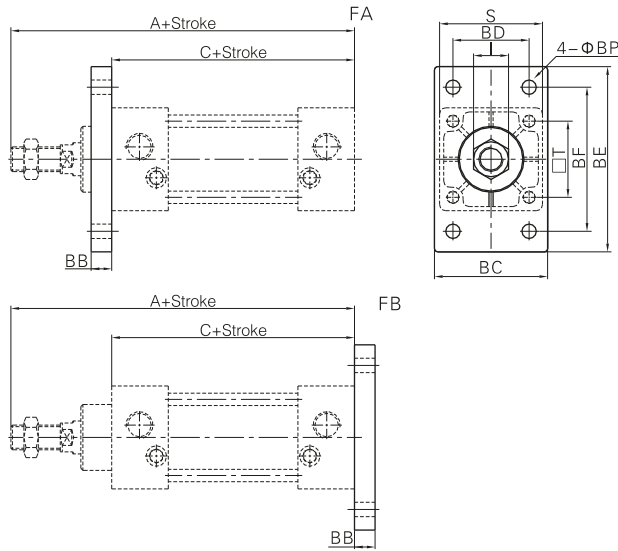
Φ125~Φ250



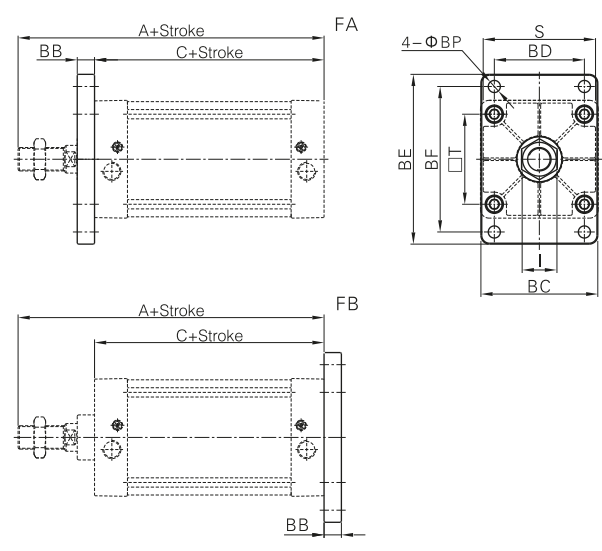
Bore size\Item	A	C	DC	DD	DE	DJ	DQ	S	T
32	140	93	34	44.5	12	9	16	45	33
40	142	93	34	45.5	14	9	20	49	37
50	150	93	34	46	14	10	20	61	47
63	153	96	34	46.5	14	10	20	74	56
80	182	107	48	64.5	20	14	32	93	70
100	188	113	48	65	20	14	32	111	84
125	203	115	32	52	20	17	31.7	135	104
160	239	126	40	68	28	19.5	39.7	173	134
200	244	126	60	90	28	23	39.7	213	163
250	294	153	70	106	36	24	49.7	255	202

FA/FB

Φ32~Φ100



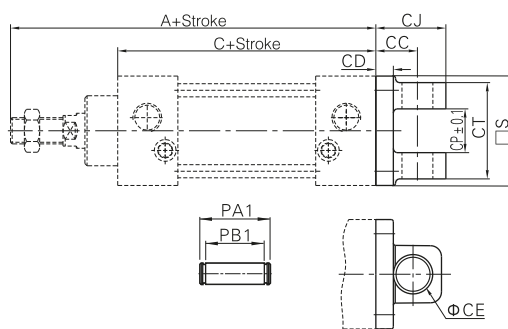
Φ125~Φ250



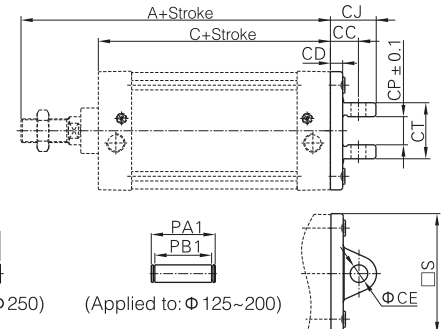
Bore size/Item	A	C	BB	BC	BD	BE	BF	BP	I	S	T
32	140	93	10	47	33	80	58	7	17	45	33
40	142	93	10	53	36	90	70	7	17	50	37
50	150	93	10	65	47	104	86	9	23	62	47
63	153	96	12	75	56	118	98	9	23	75	56
80	182	107	16	95	70	140	119	11	26	94	70
100	188	113	16	115	84	160	138	11	26	112	84
125	203	115	20	135	104	196	168	14	41	136	104
160	239	126	20	173	134	248	212	18	55	174	134
200	244	126	25	213	163	286	250	18	55	214	163
250	294	153	25	255	201	356	312	22	65	267	202

CB

Φ32~Φ100



Φ125~Φ250



Bore size/Item	A	C	S	CC	CD	CE	CJ	CP	CT	PA1	PB1
32	140	93	45	19	9	12	29.5	16.3	32	39	32.8
40	142	93	49	19	9	14	30.5	20.3	44	51	44.8
50	150	93	61	19	10	14	31	20.3	52	59	52.8
63	153	96	74	19	10	14	31.5	20.3	52	59	52.8
80	182	107	93	32	14	20	48.5	32.3	64	73	64.8
100	188	113	111	32	14	20	49	32.3	64	73	64.8
125	203	115	135	32	14	20	52	32.1	64	73	64.8
160	239	126	173	40	15	28	68	40.1	80	90.2	80.8
200	244	126	213	60	23	28	90	40.1	80	90.2	80.8
250	294	153	255	70	24	36	106	50.1	100	130	108

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

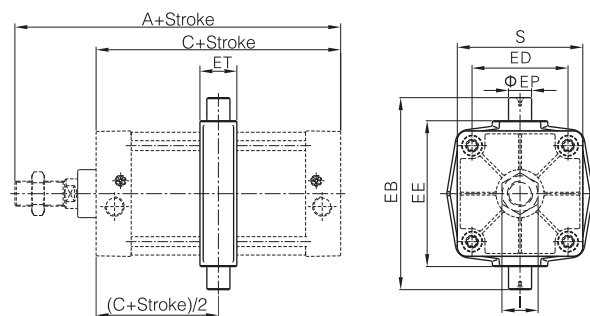
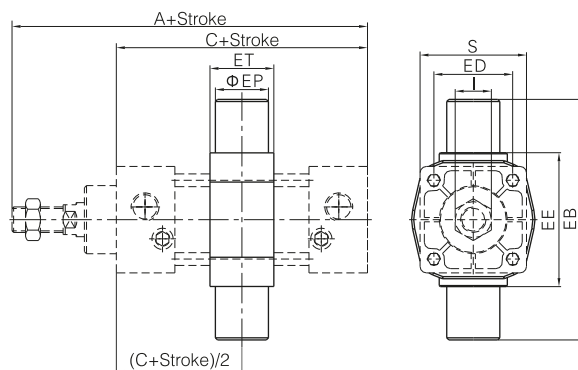
Cylinder

SC

FA/FB

Φ32~Φ100

Φ125~Φ250



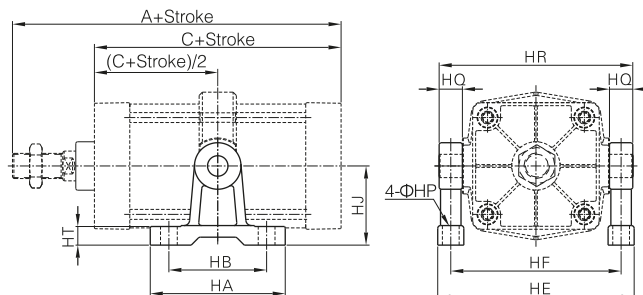
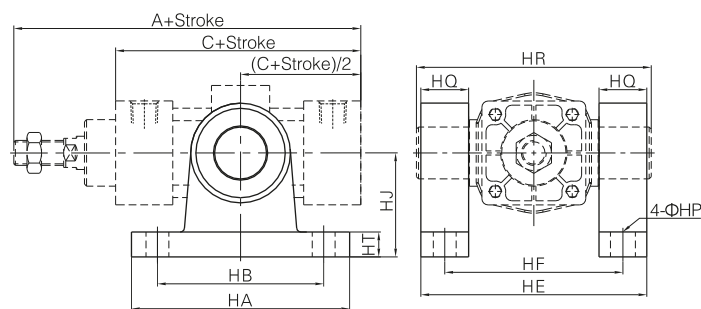
Bore size\Item	A	C	EB	ED	EE	EP	ET	I	S
32	140	93	87	33	55	16	22	17	45
40	142	93	113	37	63	25	28	17	50
50	150	93	126	47	73	25	28	23	62
63	153	96	138	56	88	25	30	23	75
80	182	107	164	70	114	25	32	26	94
100	188	113	182	84	132	25	38	26	112
125	203	115	208	104	158	25	40	41	136
160	239	126	272	134	200	36	46	55	174
200	244	126	319	163	246	36	46	55	214
250	294	153	394	202	304	45	56	65	267

Note: The installation position of the accessories can not be adjusted arbitrarily.

CB

Φ32~Φ100

Φ125~Φ250



Bore size\Item	A	C	HA	HB	HE	HF	HP	HQ	HR	HT	HJ
32	140	93	100	75	90	71	12	16	87	11	54
40	142	93	103	80	109	86	11	23	113	12	50
50	150	93	103	80	122	99	11	23	126	12	50
63	153	96	103	80	134	111	11	23	138	12	50
80	182	107	110	85	160	137	13	23	164	12	70
100	188	113	110	85	178	155	13	23	182	12	70
125	203	115	145	105	211	183	18	25	208	20	85
160	239	126	185	140	272	236	22	36	272	25	130
200	244	126	185	140	318	282	22	36	318	25	130
250	294	153	215	165	394	349	26	45	394	28	160

Note: The installation position of the accessories can not be adjusted arbitrarily.