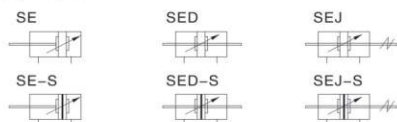




Symbol



Product feature

- 1、ISO15552 and VDMA24562 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 square 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.

Specification

Bore size		mm		32	40	50	63	80	100	125		
Acting type		Double acting										
Fluid		Air (to be filtered by 40um filter element)										
Mounting type	SE	Basic	FA	FB	CA	CB	CR	LB	TC	FTC	TCM1	TCM2
	SED											
	SEJ	Basic	FA					LB	TC	FTC	TCM1	TCM2
Operating pressure		0.1~1.0MPa(14~145Psi)										
Proof pressure		1.5MPa(215Psi)										
Temperature ℃		-20~80										
Speed range mm/s		30~800								30~500		
Stroke tolerance		0~250 ^{+1.0} ₀			251~1000 ^{+1.4} ₀			1001~1500 ^{+1.8} ₀				
Cushion type		Variable cushion										
Adjustable cushion stroke mm		27		30				36		40		
Port size ①		1/8"		1/4"		3/8"			1/2"			

① PT thread, NPT thread and G thread are available;
Add: Refer to PVI-81~VI-104 for detail of sensor switch.

Stroke

Unit: mm

Bore size (mm)	Standard stroke																Max. Stroke	Available 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																	1200	1800					
63																	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																	1500	1800					
125																	1500	1800					

Remark: Consult us for non-standard stroke.

Ordering code

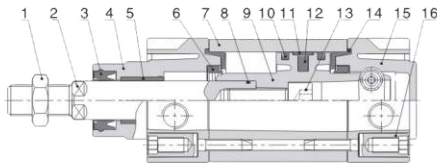
SE—80	□	x	50	—S—	□	—	□	—	P
SED—80	□	x	50	—S—	□	—	□	—	P
SEJ—80	□	x	50—20	—S—	□	—	□	—	P

Model	Bore size	Adjustable stroke	Rod Material	Magnet	Stroke	Seals Material	Thread type	Mounting type	Available series	Memo
SE: Double acting type		10: 10mm	Blank: Medium carbon steel	S: With magnet		Blank: TPU	P: PT	Blank	SE	
SED: Double rod type		20: 20mm	A: SUS420J2	Blank: Without magnet		H: Viton	T: NPT	LB	SED	
SEJ: Adjustable stroke type		30: 30mm	B: SUS304			N: NBR	G: G	FA	SEJ	
		40: 40mm	C: SUS316					FB		
		50: 50mm						CA	SE	
		75: 75mm						CB		Be used with CB
		100: 100mm						CR		
								FTC	SE	Be used with TCM1, TCM2
								TC	SED	
									SEJ	

① Please refer to page III - 04 - III - 06 for accessory parts.

Inner structure and material of major parts

SE-S



NO.	Item	Material
1	Rod nut	Carbon steel /Stainless steel
2	Piston rod	Carbon steel with 20um chrome plated 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	O-ring	NBR
9	Piston	Aluminum alloy
10	Piston O-ring	TPU
11	Wear ring	Wear resistant material
12	Magnet	Plastic / Rubber (ϕ 125)
13	Bolt	Carbon steel
14	Buffer gasket	TPU
15	Back cover	Aluminum alloy
16	Screw	Carbon steel /Stainless steel

■ Dimensions

SE

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

Item Bore size	A	B	C	D	E	F	G	H	I	J	K	L	N
32	142	48	94	30	29	19	27.5	22	17	6	M10 x 1.25	M6	13.5
40	159	54	105	35	33	21	32	24	17	7	M12 x 1.25	M6	17.5
50	175	69	106	40	42	27	31	32	23	8	M16 x 1.5	M8	14
63	190	69	121	45	42	27	33	32	23	8	M16 x 1.5	M8	17
80	214	86	128	45	53	33	33	40	26	10	M20 x 1.5	M10	16.5
100	229	91	138	55	55	36	37	40	26	10	M20 x 1.5	M10	19.5
125	279	119	160	60	74	45	46	54	41	13.5	M27 x 2	M12	23

Item Bore size	O	P	Q	R	S	T	V	W	X	Z
32	1/8"	5.8	6	6.3	46.5	32.5	12	10	3	30
40	1/4"	6	5.5	9	54	38	16	13	3.5	35
50	1/4"	8	5	10.5	64	46.5	20	17	3.5	40
63	3/8"	8	6	10.5	75	56.5	20	17	4	45
80	3/8"	8	8.5	12.5	93	72	25	22	4	45
100	1/2"	10	7	12	110	89	25	22	4	55
125	1/2"	11	12	11	134	110	32	27	4	60

SED

SEJ

Item Bore size	A	A1	B	C	E	Z	J	K
32	190	188	48	94	29	27	6	M10X1.25
40	213	208	54	105	33	28	7	M12X1.25
50	244	231	69	106	42	29	8	M16X1.5
63	259	246	69	121	42	29	8	M16X1.5
80	300	282.5	86	128	53	35.5	10	M20X1.5
100	320	300.5	91	138	55	35.5	10	M20X1.5
125	398	366.5	119	160	74	42.5	13.5	M27X2.0

Remark:

- The dimensions of magnet type cylinder are the same as non-magnet type cylinder.
- The unmarked dimension is the same as SE standard type.

Ordering code

Accessory	F	SE	50	CA
				①
				Accessory type
				CA CA type
				CB ② CB type
				TC TC type

① The listed accessories are for SE cylinder. Accessories that are adaptable to other cylinders are not shown. Please refer to accessory list on PIII-06 for selection and ordering information.

② CB is attached with relevant PIN.

Accessory selection

Cylinder model		SE		SED		SEJ	
Accessories		Standard	With magnet	Standard	With magnet	Standard	With magnet
Mounting accessory	LB	●	●	●	●	●	●
	FA	●	●	●	●	●	●
	FB	●	●	×	×	×	×
	CA	●	●	×	×	×	×
	CB	●	●	×	×	×	×
	CR	●	●	×	×	×	×
	TC	●	●	●	●	●	●
	FTC	●	●	●	●	●	●
	TCM1	●	●	●	●	●	●
	TCM2	●	●	●	●	●	●
	Knuckle	① I	●	●	●	●	●
Y		●	●	●	●	●	●
U		●	●	●	●	●	●
F		●	●	●	●	●	●
Sensor switch	② CS1-E	×	●	×	●	×	●
	CS1-EX	×	●	×	●	×	●
	DS1-E	×	●	×	●	×	●
	DS1-EN	×	●	×	●	×	●
	DS1-EP	×	●	×	●	×	●

①: Please refer to PVI-75-VI-80 for knuckle detail;

②: Please refer to PVI-81-VI-104 for detail of sensor switch.

Material of accessories

Accessories	Mounting accessories									Joint accessories		
Bore size	LB	FA	FB	TCM2	CR	CA	CB	FTC	TCM1	I, Y	F, U	
32~100	Low carbon steel	Aluminum alloy			Nodular cast iron			Cast steel		Carbon steel		
125	Cast steel											

CA	Item	Bore size	32	40	50	63	80	100	125
	A	142	159	175	190	214	229	279	
	C	94	105	106	121	128	138	160	
	S	46.5	54	64	75	93	110	134	
	T	32.5	38	46.5	56.5	72	89	110	
	DC	22	25	27	32	36	41	50	
	DD	10.5	12	12	15	15.5	20	24	
	DE	10	12	12	16	16	20	25	
	DJ	13	16	17	22	22	27	33	
	DQ	25.8	27.8	31.7	39.7	49.7	59.7	69.7	

Dimensions

LB	Item	32	40	50	63	80	100	125
	A	142	159	175	190	214	229	279
	C	94	105	106	121	128	138	160
	AA	158	179	190	209	248	266	290
	AC	142	161	170	185	210	228	250
	AD	8	9	10	12	19	19	20
	AE	47	53	65	75	95	115	140
	AF	32	36	45	50	63	75	90
	AG	24	28	32	32	41	45	45
	AH	32	36	45	50	63	71	90
	AP	7	9	9	9	12.5	14.5	16.5
	AT	3	3	3	3	4	4	8

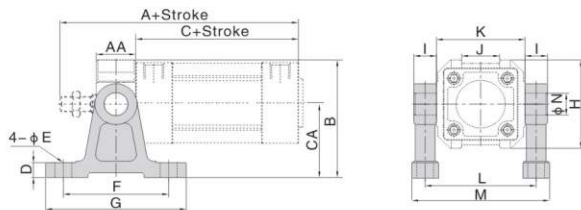
FA	Item	32	40	50	63	80	100	125
	A	142	159	175	190	214	229	279
	C	94	105	106	121	128	138	160
	BA	30.5	35.5	40.5	45.5	45.5	55.5	60.5
	BB	10	10	12	12	16	16	20
	BC	47	53	65	75	95	115	139
	BD	32	36	45	50	63	75	90
	BE	80	90	108	118	150	176	218
	BF	64	72	90	100	126	150	180
	BP	7	9	9	9	12.5	14.5	16.5
	T	32.5	38	46.5	56.5	72	89	110

Cilindro Normalizado

Série SE

Strokmatic
Automation Technology

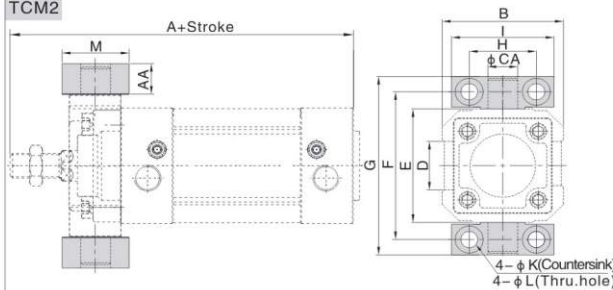
TCM1



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

Item/Bore size	32	40	50	63	80	100	125
A	142	159	175	190	214	229	279
AA	19	21	26	28	31	35	43
B	66	86.5	91.5	115	126	157.5	169.3
C	94	105	106	121	128	138	160
CA	40	54	54	70	70	90	90
D	11	11	11	11	11	19	19
E	9	12	12	12	12	18	18
F	60	75	75	85	85	115	115
G	80	100	100	110	110	155	155
H	52	65	75	90	112	135	170
I	12	16	16	20	20	25	25
J	20	27	31	42	54	68	80
K	50	63	75	90	110	135	160
L	62	79	91	110	130	157	185
M	77	98	110	133	153	185	213
N	12	16	16	20	20	25	25

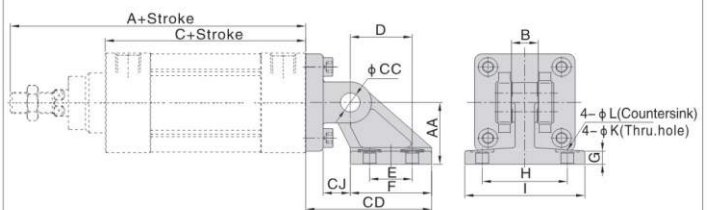
TCM2



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

Item/Bore size	32	40	50	63	80	100	125
A	142	159	175	190	214	229	279
AA	14	17	17	20.5	20.5	24.5	24.5
B	52	65	75	90	112	135	170
CA	12	16	16	20	20	25	25
D	20	27	31	42	54	68	80
E	50	63	75	90	110	132	160
F	66	82	94	113.5	133.5	159.5	187.5
G	80	99	111	134	154	184	212
H	32	36	36	42	42	50	50
I	46	55	55	65	65	75	75
K	11	15	15	18	18	20	20
L	7	9	9	11	11	14	14
M	30	36	36	40	40	50	50

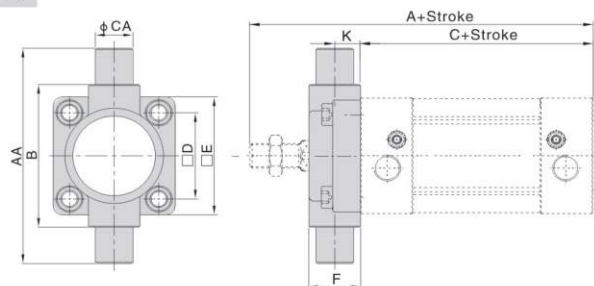
CR(Be used with CB)



Item/Bore size	32	40	50	63	80	100	125
A	142	159	175	190	214	229	279
AA	32	36	45	50	63	71	90
B	26	28	32	40	50	60	70
C	94	105	106	121	128	138	160
CC	10	12	12	16	16	20	25
CD	50	56	68	77	93	106	135
CJ	10	12	13	17	19	22	26

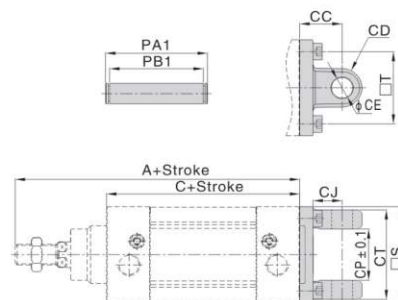
Item/Bore size	32	40	50	63	80	100	125
D	21	24	33	37	47	55	70
E	18	22	30	35	40	50	60
F	31	35	45	50	60	70	90
G	8	10	12	14	15	20	20
H	38	41	50	52	66	76	94
I	51	54	65	67	86	96	124
K	6.6	6.6	9	9	11	11	14
L	-	-	-	-	18	18	20

FTC



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

CB



Bore size	32	40	50	63	80	100	125
A	142	159	175	190	214	229	279
C	94	105	106	121	128	138	160
CC	22	25	27	32	36	41	50
CD	10.5	12	12	15	15.5	20	24
CE	10	12	12	16	16	20	25
CJ	13	16	17	22	22	27	33

Bore size	32	40	50	63	80	100	125
CP	26	28	32	40	50	60	70
CT	45	52	60	70	90	110	130
PA1	51	59	67	77	97	119	139
PB1	45.5	52.5	60.5	70.5	90.5	110.5	130.5
S	46.5	54	64	75	93	110	134
T	32.5	38	46.5	56.5	72	89	110

■ List for ordering code of accessories

Cylinder model		32	40	50	63	80	100	125
Accessories								
Mounting accessory	LB	F-SI32LB	F-SI40LB	F-SI50LB	F-SI63LB	F-SI80LB	F-SI100LB	F-SI125LB
	FA	F-SI32FA	F-SI40FA	F-SI50FA	F-SI63FA	F-SI80FA	F-SI100FA	F-SI125FA
	FB							
	CA	F-SE32CA	F-SE40CA	F-SE50CA	F-SE63CA	F-SE80CA	F-SE100CA	F-SE125CA
	CB	F-SE32CB	F-SE40CB	F-SE50CB	F-SE63CB	F-SE80CB	F-SE100CB	F-SE125CB
	CR	F-SI32CR	F-SI40CR	F-SI50CR	F-SI63CR	F-SI80CR	F-SI100CR	F-SI125CR
	TC ①	F-SE32TC	F-SE40TC	F-SE50TC	F-SE63TC	F-SE80TC	F-SE100TC	F-SE125TC
	FTC	F-SI32FTC	F-SI40FTC	F-SI50FTC	F-SI63FTC	F-SI80FTC	F-SI100FTC	F-SI125FTC
	TCM1	F-SI32TCM1	F-SI40TCM1		F-SI63TCM1		F-SI125TCM1	
	TCM2	F-SI32TCM2	F-SI40TCM2		F-SI63TCM2		F-SI125TCM2	
Knuckle	I:I Knuckle	F-M10125II	F-M12125II	F-M16150II		F-M20150II		F-M27200II
	Y:Y Knuckle	F-M10125YI	F-M12125YI	F-M16150YI		F-M20150YI		F-M27200YI
	U:U Knuckle	F-M10125U	F-M12125U	F-M16150U		F-M20150U		F-M27200U
	F:F Knuckle	F-M10125F	F-M12125F	F-M16150F		F-M20150F		-
Sensor switch	CS1-E				CS1-E			
	CS1-EX				CS1-EX			
	DS1-E				DS1-E			
	DS1-EN				DS1-EN			
	DS1-EP				DS1-EP			

①: TC accessories are under development.