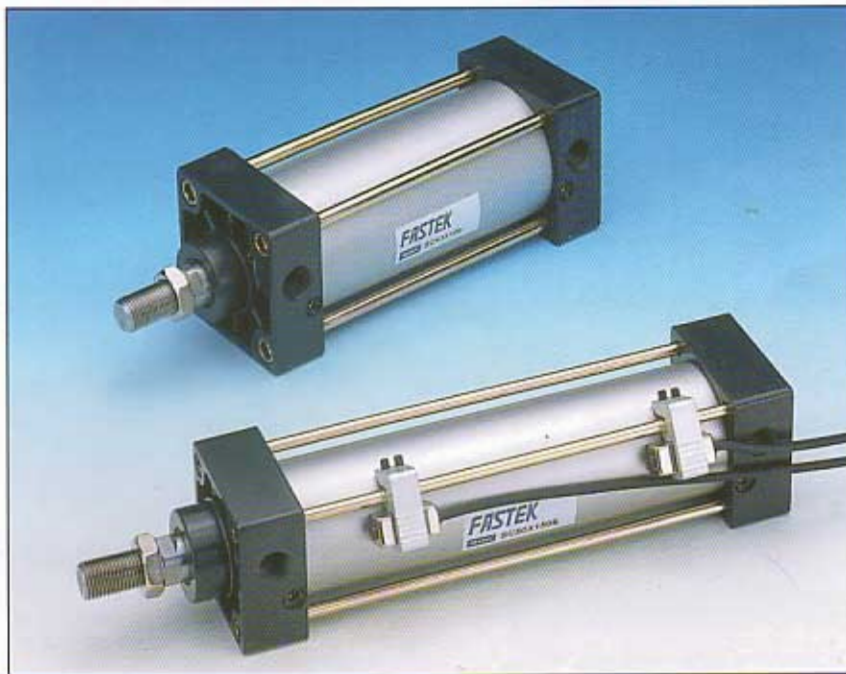


FASTEK

STANDARD CYLINDER



Criteria for Selection : Cylinder Thrust

Bore size mm	Rod size mm	Operation Double Acting Type	Pressure Area mm ²	Operating Pressure kgf/cm ²								
				1	2	3	4	5	6	7	8	9
32	12	Push side	804	8.04	16.08	24.12	32.16	40.20	48.24	56.28	64.32	72.36
		Pull side	690	6.90	13.80	20.70	27.60	34.50	41.40	48.30	55.20	62.10
40	16	Push side	1256	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100	113
		Pull side	1055	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40	94.95
50	16	Push side	1963	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04	176.67
		Pull side	1582	15.82	31.64	47.46	63.28	79.10	94.92	110.74	126.56	142.38
63	16	Push side	3117	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36	280.53
		Pull side	2737	27.37	54.74	82.11	109.48	136.85	164.22	191.59	218.96	246.33
80	25	Push side	5026	50.26	100.52	150.78	201.04	251.30	301.56	351.82	402.08	452.34
		Pull side	4536	45.36	90.72	136.08	181.44	226.80	272.16	317.52	362.88	408.24
100	25	Push side	7853	78.53	157.06	235.59	314.12	392.65	471.18	549.71	628.24	706.77
		Pull side	7147	71.47	142.94	214.41	285.88	357.35	428.82	500.29	571.76	643.23

Standard Type	P.2
Double-Rod Type	P.8
Adjustable Stroke Type.....	P.12
Tandem / Duplex Type.....	P.16
Sensor switch & Switch holders.....	P.20
Floating-Joint	P.20
Knuckle - Y&I.....	P.21
Universal Joint.....	P.21

STANDARD CYLINDER

Standard Type - Double Acting Type

Ordering code

SC — 50X50 — —

Cylinder bore size X Stroke

Magnetic type :

Blank : Without magnet

S : with magnet

Mounting type:

Blank : Basic type

LB : Foot type

FA : Front-Flange type

FB : Rear-Flange type

CA : Pivot type

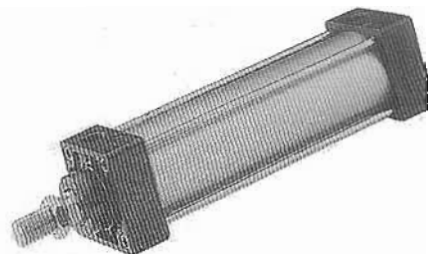
CB : Clevis type

TC : Trunnion type

TC-M : Trunnion type

with bracket

SC - Standard cylinder - Standard type



Specification

Bore size	mm	32	40	50	63	80	100
Action		Double acting type					
Fluid		Air					
Mounting type		Basic type, Foot type, Flange type, Clevis type, Pivot type, Trunnion type					
Pressure range	MPa { kgf/cm ² }	0.04 ~ 0.9 { 0.4 ~ 9.2 }					
Proof pressure	MPa { kgf/cm ² }	1.35 { 13.5 }					
Temperature range	°C	0 ~ 70					
Speed range	mm/s	50 ~ 800					
Cushion type		Variable cushion					
Cushioning stroke	mm	22				26	
Port size		G 1/8"	G 1/4"	G 3/8"		G 1/2"	

Note. * No trunnion type available for 32mm bore.

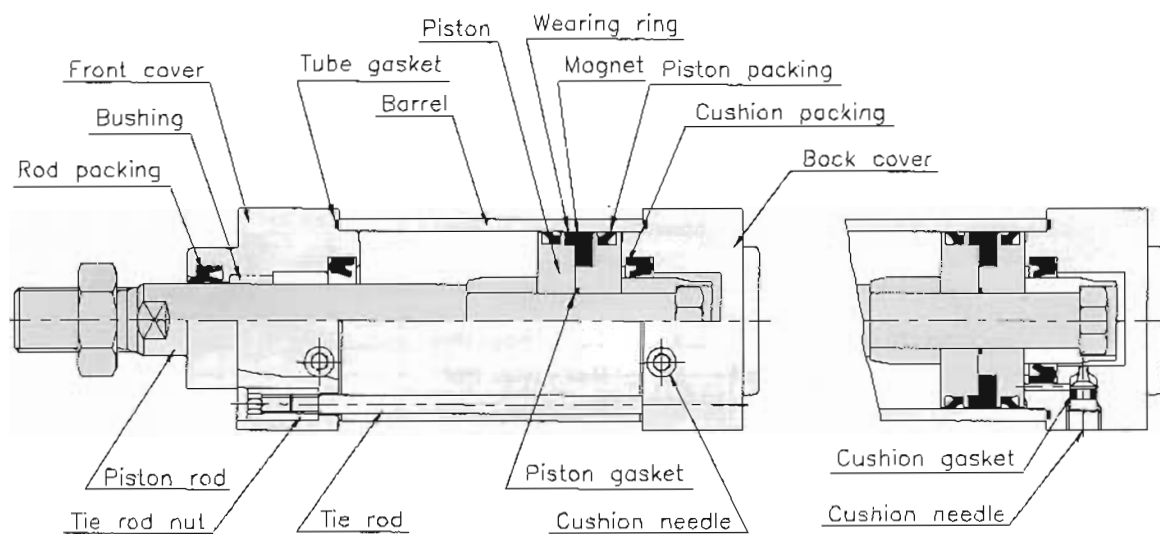
Cylinder size and stroke (mm)

Bore size	Standard stroke	Maximum stroke	Available stroke
32	25 50 75 100 125 150 175 200 225 250 300 350 400 450 500	1000	2000
40	25 50 75 100 125 150 175 200 225 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
50	25 50 75 100 125 150 175 200 225 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
63	25 50 75 100 125 150 175 200 225 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
80	25 50 75 100 125 150 175 200 225 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
100	25 50 75 100 125 150 175 200 225 250 300 350 400 450 500 600 700 800 900 1000	1200	2000

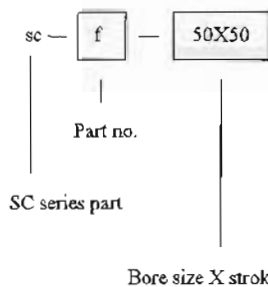
Note : 1. Stroke tolerance 0, +1.

2. Consult us for non-standard stroke and special piston rod.

3. When the stroke exceeds the maximum stroke, minimum operating pressure is 0.2MPa.



How to order parts



Note. * Bore size only for parts which strokes are not important.

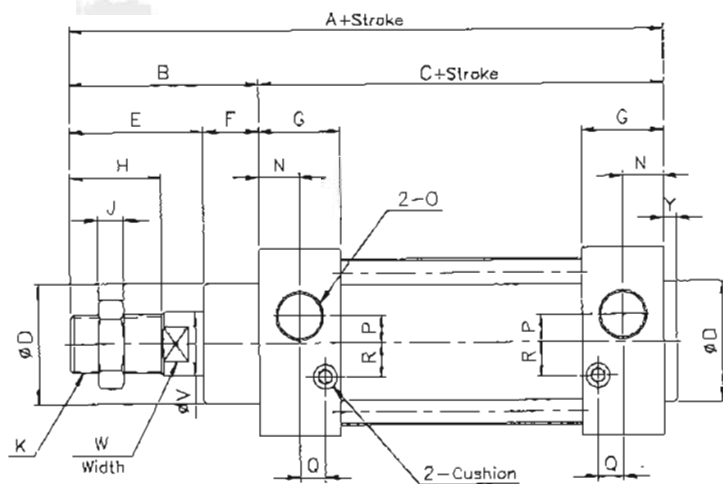
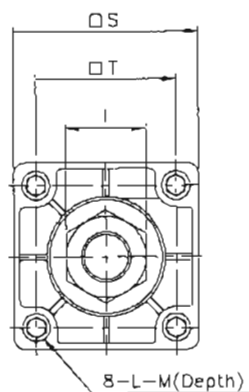
Material of major parts

Material of major parts		32	40	50	63	80	100
Item	Part no.						
Barrel	b	Aluminum alloy					
Front cover	f	Aluminum Die-cast					
Back cover	bc	Aluminum Die-cast					
Cushion needle	cn	Copper					
Piston	p	Aluminum alloy					
Piston rod	pr	Hi-carbon steel with hard chrome plated					
Piston packing	pgy	NBR					
Rod packing	mya	NBR					
Piston gasket	pg	NBR					
Cushion packing	aei	NBR					
Cushion gasket	cg	NBR					
Bushing	bs	Copper					
Magnet	m	Plastic					
Wearing ring	w	Plastic					
Foot mounting	LB	Mild steel					
Flange mounting	FA FB	Cast iron					
Pivot mounting	CA	Cast iron					
Clevis mounting	CB	Cast iron					
Trunnion mounting	TC	—	Cast iron				
Trunnion bracket	M	Cast iron					
Knuckle	Y I	Hard steel with zinc plated					
Tie-rod	tr	Mild steel					
Tie-rod nut	tn	Mild steel					

Note : Detail part number of packing please refer to packing list.

Packing list

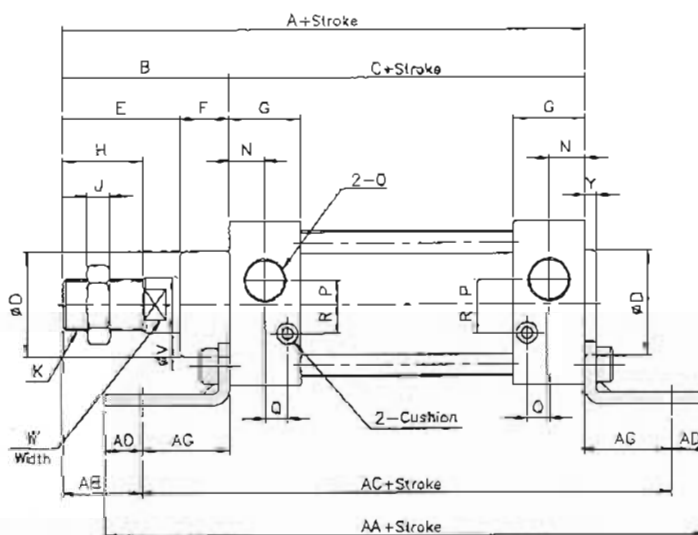
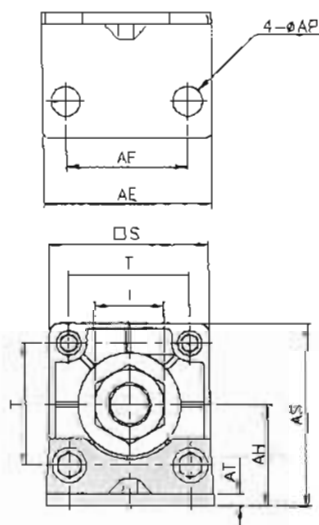
Bore size	mm	Rod packing	Piston packing	Piston gasket	Cushion packing	Cushion gasket
32		mya-32*1	pgy-32*2	pg-32*1	aei-32*2	cg-1*2
40		mya-40*1	pgy-40*2	pg-40*1	aei-40*2	cg-1*2
50		mya-50*1	pgy-50*2	pg-50*1	aei-50*2	cg-2*2
63		mya-63*1	pgy-63*2	pg-63*1	aei-63*2	cg-2*2
80		mya-80*1	pgy-80*2	pg-80*1	aei-80*2	cg-3*2
100		mya-100*1	pgy-100*2	pg-100*1	aei-100*2	cg-3*2



Bore size mm	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y
32	140	47	93	28	32	15	27.5	22	17	6	M10*1.25	M6*1.0	13	14	6	8.5	6	44	33	12	10	G1/8"	3.5
40	142	49	93	32	34	15	27.5	24	19	7	M12*1.25	M6*1.0	13	14	6	8.5	8.5	50	37	16	14	G1/4"	3.5
50	150	57	93	38	42	15	27.5	32	23	8	M16*1.5	M6*1.0	13	14	7	8.5	8.5	62	47	20	17	G1/4"	3.5
63	153	57	96	38	42	15	27.5	32	23	8	M16*1.5	M8*1.25	13	14	7	8.5	8.5	75	56	20	17	G3/8"	3.5
80	183	75	108	47	54	21	33	40	26	10	M20*1.5	M10*1.5	15	16.5	7	10	10	94	70	25	22	G3/8"	4
100	189	75	114	47	54	21	33	40	26	10	M20*1.5	M10*1.5	15	16.5	7	10	10	112	84	25	22	G1/2"	4

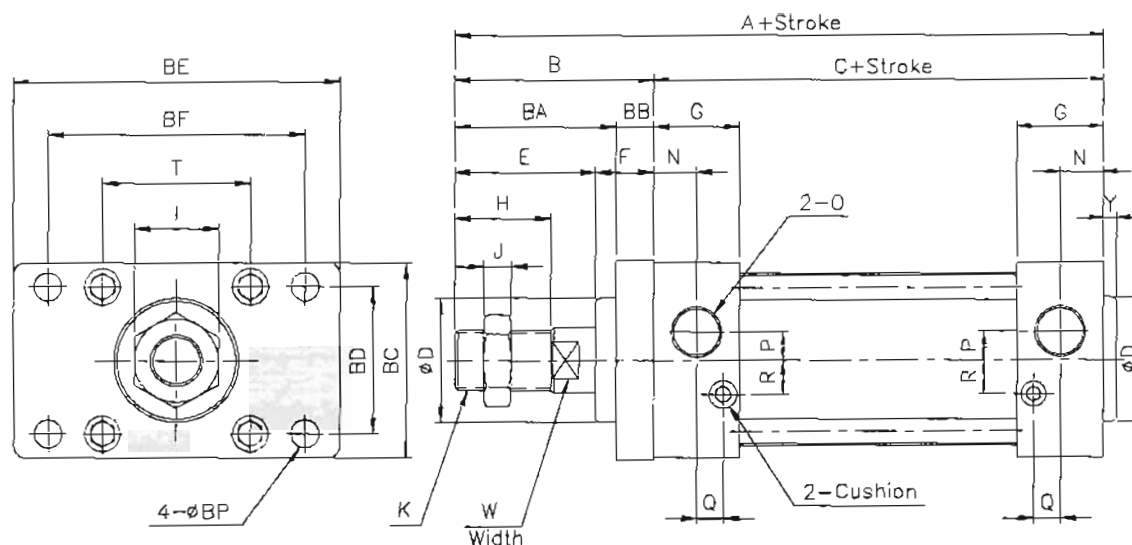
Dimensions of Foot Mounting Type (LB)

ø32~ø100



Bore size mm	A	B	C	D	E	F	G	H	I	J	K	L	N	P	Q	R	S	T	V	W	X	Y
32	140	47	93	28	32	15	27.5	22	17	6	M10*1.25	M6*1.0	14	6	8.5	6	44	33	12	10	G1/8"	3.5
40	142	49	93	32	34	15	27.5	24	19	7	M12*1.25	M6*1.0	14	6	8.5	8.5	50	37	16	14	G1/4"	3.5
50	150	57	93	38	42	15	27.5	32	23	8	M16*1.5	M6*1.0	14	7	8.5	8.5	62	47	20	17	G1/4"	3.5
63	153	57	96	38	42	15	27.5	32	23	8	M16*1.5	M8*1.25	14	7	8.5	8.5	75	56	20	17	G3/8"	3.5
80	183	75	108	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	94	70	25	22	G3/8"	4
100	189	75	114	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	112	84	25	22	G1/2"	4

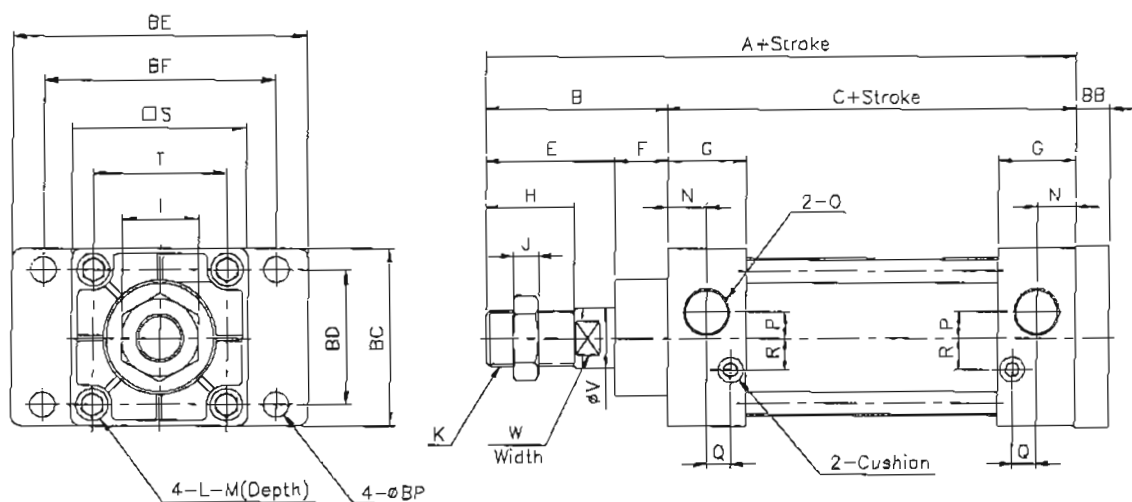
Bore size mm	AA	AB	AC	AD	AE	AF	AG	AH	AP	AS	AT
32	153	26.5	134	9.5	50	33	20.5	28	9	50	3.2
40	169	25.5	140	14.5	57	36	23.5	30	12	55	3.2
50	173	29	149	12	68	47	28	36.5	12	67.5	3.2
63	184	26	158	13	80	56	31	41	12	78.5	3.2
80	200	45	168	16	97	70	30	49	14	96	4
100	210	45	174	38	112	84	30	57	14	113	4



Bore size mm	A	B	C	D	E	F	G	H	I	J	K	L	N	P	Q	R	T	V	W	X	Y	BA	BB	BC	BD	BE	BF	BP
32	140	47	93	28	32	15	27.5	22	17	6	M10*1.25	M6*1.0	14	6	8.5	6	33	12	10	G1/8"	3.5	37	10	47	33	72	58	7
40	142	49	93	32	34	15	27.5	24	19	7	M12*1.25	M6*1.0	14	6	8.5	8.5	37	16	14	G1/4"	3.5	39	10	52	36	84	70	7
50	150	57	93	38	42	15	27.5	32	23	8	M16*1.5	M6*1.0	14	7	8.5	8.5	47	20	17	G1/4"	3.5	47	10	65	47	104	86	9
63	153	57	96	38	42	15	27.5	32	23	8	M16*1.5	M8*1.25	14	7	8.5	8.5	56	20	17	G3/8"	3.5	47	10	75	56	116	98	9
80	183	75	108	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	70	25	22	G3/8"	4	59	16	95	70	143	119	11
100	189	75	114	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	84	25	22	G1/2"	4	59	16	115	84	162	138	11

Dimensions of Rear-Flange Mounting Type (FB)

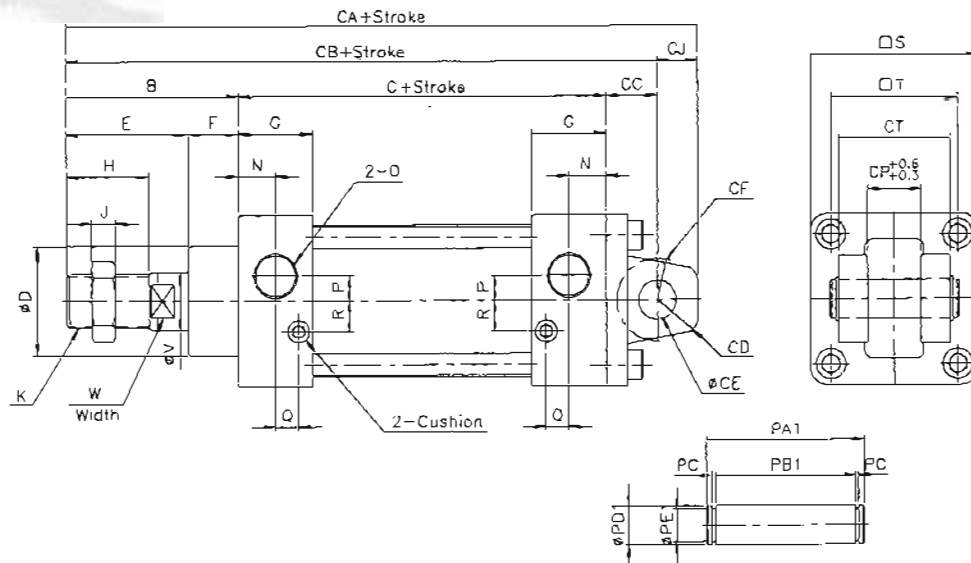
ø32~ø100



Bore size mm	A	B	C	D	E	F	G	H	I	J	K	N	P	Q	R	S	T	V	W	X	BB	BC	BD	BE	BF	BG	BF
32	140	47	93	28	32	15	27.5	22	17	6	M10*1.25	14	6	8.5	6	44	33	12	10	G1/8"	10	47	33	72	58	150	7
40	142	49	93	32	34	15	27.5	24	19	7	M12*1.25	14	6	8.5	8.5	50	37	16	14	G1/4"	10	52	36	84	70	152	7
50	150	57	93	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	62	47	20	17	G1/4"	10	65	47	104	86	160	9
63	153	57	96	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	75	56	20	17	G3/8"	10	75	56	116	98	163	9
80	183	75	108	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	94	70	25	22	G3/8"	16	95	70	143	119	199	11
100	189	75	114	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	112	84	25	22	G1/2"	16	115	84	162	138	205	11

Dimensions of Cle

ø32~ø100

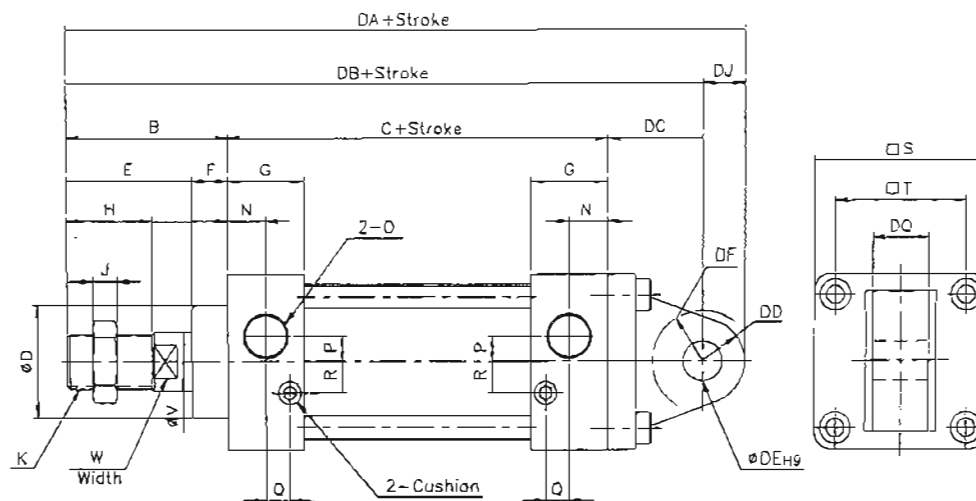


Bore size,mm	B	C	D	E	F	G	H	I	J	K	N	P	Q	R	S	T	V	W	X
32	47	93	28	32	15	27.5	22	17	6	M10*1.25	14	6	8.5	6	44	33	12	10	G1/8"
40	49	93	32	34	15	27.5	24	19	7	M12*1.25	14	6	8.5	8.5	50	37	16	14	G1/4"
50	57	93	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	62	47	20	17	G1/4"
63	57	96	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	75	56	20	17	G3/8"
80	75	108	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	94	70	25	22	G3/8"
100	75	114	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	112	84	25	22	G1/2"

Bore size,mm	CA	CB	CC	CD	CE	CF	CJ	CP	CT	PA1	PB1	PC	PD1	PE1
32	172	159	19	15	12	14	13	16	32	41	34	1.15	12	10
40	174	161	19	15	14	14	13	20	44	53	46	1.15	14	12
50	184	169	19	17	14	15	15	20	52	61	54	1.15	14	12
63	187	172	19	17	14	15	15	20	52	61	54	1.15	14	12
80	236	215	32	23	20	27	21	32	64	75	66	1.65	20	17
100	242	221	32	23	20	27	21	32	64	75	66	1.65	20	17

Dimensions of Pivot Type (CA)

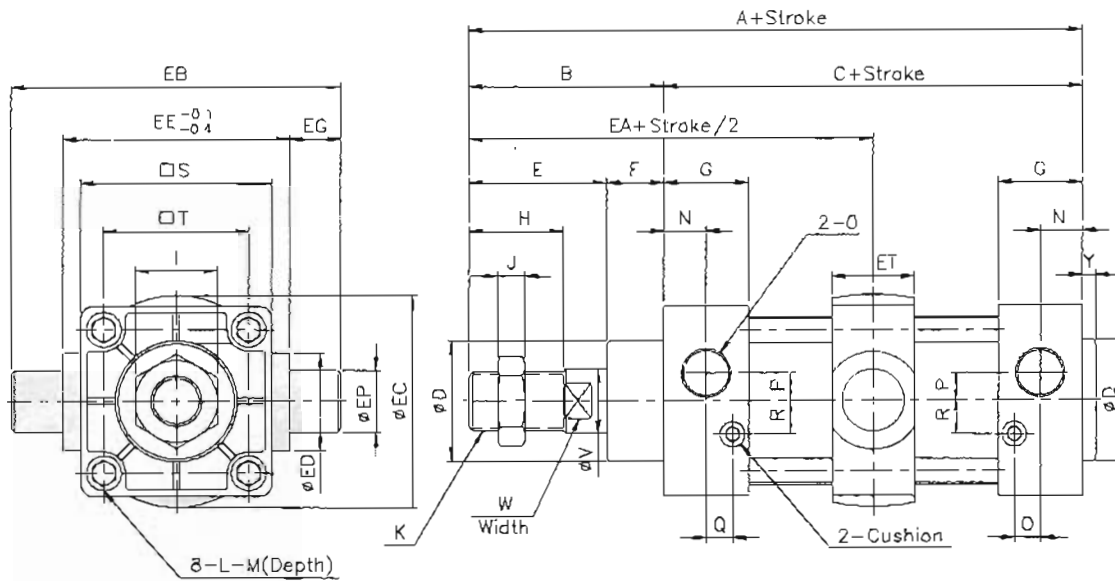
ø32~ø100



Bore size,mm	B	C	D	E	F	G	H	I	J	K	N	P	Q	R	S	T	V	W	X	DA	DB	DC	DD	DE	DF	DJ	DQ
32	47	93	28	32	15	27.5	22	17	6	M10*1.25	14	6	8.5	6	44	33	12	10	G1/8"	188	174	34	14	12	16	14	16
40	49	93	32	34	15	27.5	24	19	7	M12*1.25	14	6	8.5	8.5	50	37	16	14	G1/4"	190	176	34	14	14	16	14	20
50	57	93	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	62	47	20	17	G1/4"	199	184	34	15	14	18	15	20
63	57	96	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	75	56	20	17	G3/8"	202	187	34	15	14	18	15	20
80	75	108	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	94	70	25	22	G3/8"	251	231	48	20	20	25	21	32
100	75	114	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	112	84	25	22	G1/2"	257	237	48	20	20	25	21	32

Dimensio

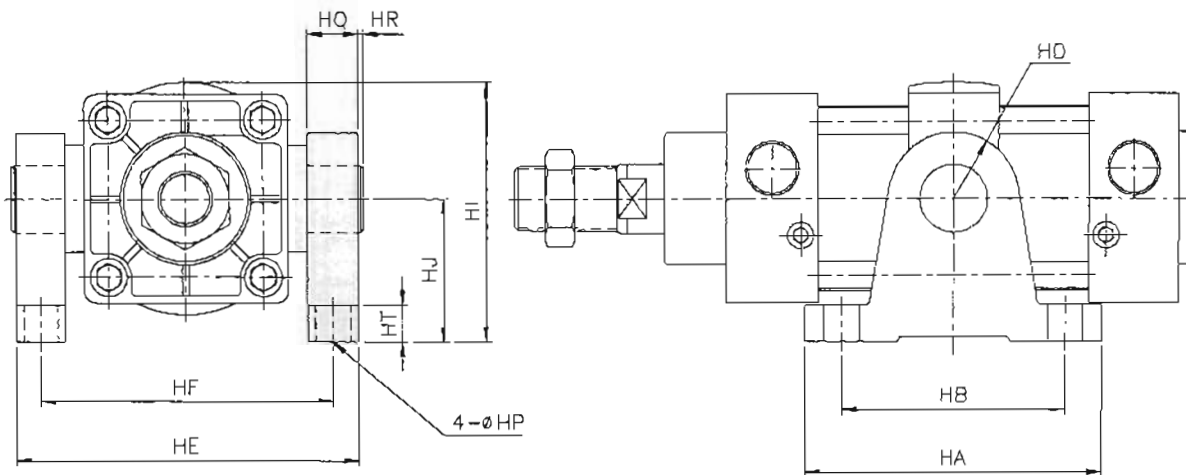
ø40~ø100



Bore size mm	A	B	C	D	E	F	G	H	I	J	K	N	P	Q	R	S	T	V	W	X	EA	EB	EC	ED	ER	EG	EP	ET
40	142	49	93	32	34	15	27.5	24	19	7	M12*1.25	14	6	8.5	8.5	50	37	16	14	G1/4"	95.5	113	59	35	63	25	25	30
50	150	57	93	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	62	47	20	17	G1/4"	103.5	126	71	35	76	25	25	30
63	153	57	96	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	75	56	20	17	G3/8"	105	138	86	35	88	25	25	30
80	183	75	108	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	94	70	25	22	G3/8"	129	164	104	38	114	25	25	35
100	189	75	114	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	112	84	25	22	G1/2"	132	182	128	44	132	25	25	40

Dimensions of Trunnion Bracket (TC-M)

ø40~ø100

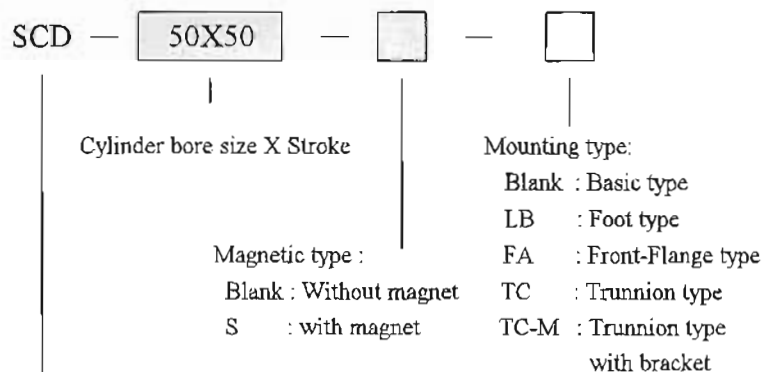


Bore size mm	HA	HB	HD	HE	HF	HI	HT	HE	HQ	HR	HT
40	110	80	22	109	86	80	50	12	23	2	12
50	110	80	22	122	99	86	50	12	23	2	12
63	110	80	22	134	111	93	50	12	23	2	12
80	120	80	22	160	137	123	70	14	23	2	14
100	120	80	22	178	155	135	70	14	23	2	14

STANDARD CYLINDER

Double-Rod Type

Ordering code



SCD - Standard cylinder - Double-Rod type

Specification

Bore size	mm	32	40	50	63	80	100
Action		Double acting type					
Fluid		Air					
Mounting type *		Basic type, Foot type, Flange type, Trunnion type					
Pressure range	MPa { kgf/cm ² }	0.04 ~ 0.9 { 0.4 ~ 9.2 }					
Proof pressure	MPa { kgf/cm ² }	1.35 { 13.5 }					
Temperature range	℃	0 ~ 70					
Speed range	mm/s	50 ~ 800					
Cushion type		Variable cushion					
Cushioning stroke	mm	22				26	
Port size		G 1/8"	G 1/4"		G 3/8"		G 1/2"

Note. * No trunnion type available for 32mm bore.

Cylinder size and stroke (mm)

Bore size	Standard stroke	Maximum stroke	Available stroke
32	25 50 75 100 125 150 175 200	200	300
40	25 50 75 100 125 150 175 200	200	300
50	25 50 75 100 125 150 175 200	200	300
63	25 50 75 100 125 150 175 200	200	300
80	25 50 75 100 125 150 175 200 225 250 300	300	400
100	25 50 75 100 125 150 175 200 225 250 300	300	400

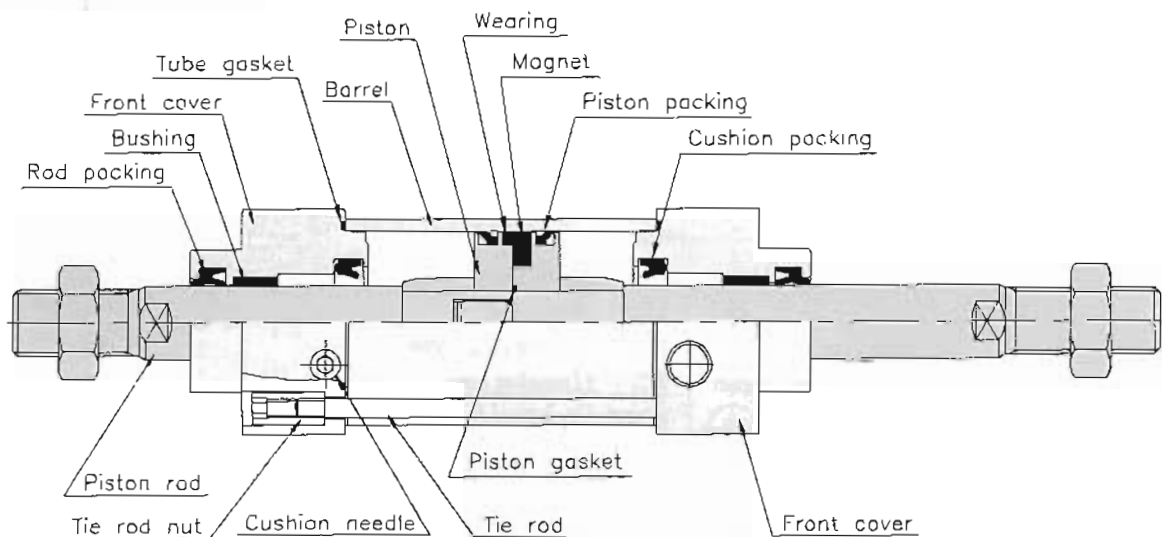
Note : 1. Stroke tolerance 0, +1.

2. Consult us for non-standard stroke and special piston rod.

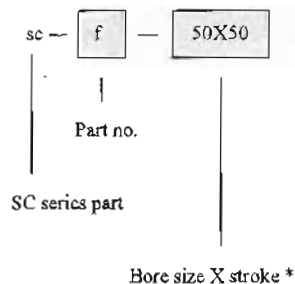
3. When the stroke exceeds the maximum stroke, minimum operating pressure is 0.2MPa.

Inner Construction and

Double-Rod Type : $\phi 32 \sim \phi 100$



How to order parts



Note. *. Bore size only for parts which strokes are not important.

Material of major parts

Item	Part no.	32	40	50	63	80	100
Barrel	b	Aluminum alloy					
Front cover	f	Aluminum Die-cast					
Cushion needle	cn	Copper					
Piston	p	Aluminum alloy					
Piston rod	pr	Hi-carbon steel with hard chrome plated					
Piston packing	pgy	NBR					
Rod packing	mya	NBR					
Piston gasket	pg	NBR					
Cushion packing	aei	NBR					
Cushion gasket	cg	NBR					
Bushing	bs	Copper					
Magnet	m	Plastic					
Wearing ring	w	Plastic					
Foot mounting	LB	Mild steel					
Flange mounting	FA	Cast iron					
Trunnion mounting	TC	Cast iron					
Trunnion bracket	M	Cast iron					
Knuckle	Y I	Hard steel					
Tie-rod	tr	Mild steel					
Tie-rod nut	tn	Mild steel					

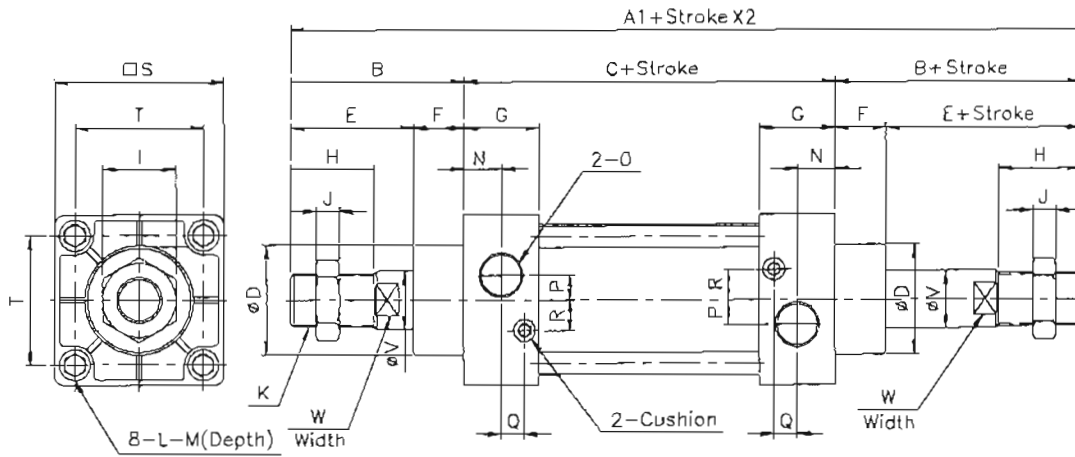
Note : Detail part number of packing please refer to packing list.

Packing list

Bore size	mm	Rod packing	Piston packing	Piston gasket	Cushion packing	Cushion gasket
32		mya-32*2	pgy-32*2	pg-32*1	aei-32*2	cg-1*2
40		mya-40*2	pgy-40*2	pg-40*1	aei-40*2	cg-1*2
50		mya-50*2	pgy-50*2	pg-50*1	aei-50*2	cg-2*2
63		mya-63*2	pgy-63*2	pg-63*1	aei-63*2	cg-2*2
80		mya-80*2	pgy-80*2	pg-80*1	aei-80*2	cg-3*2
100		mya-100*2	pgy-100*2	pg-100*1	aei-100*2	cg-3*2

Dimension

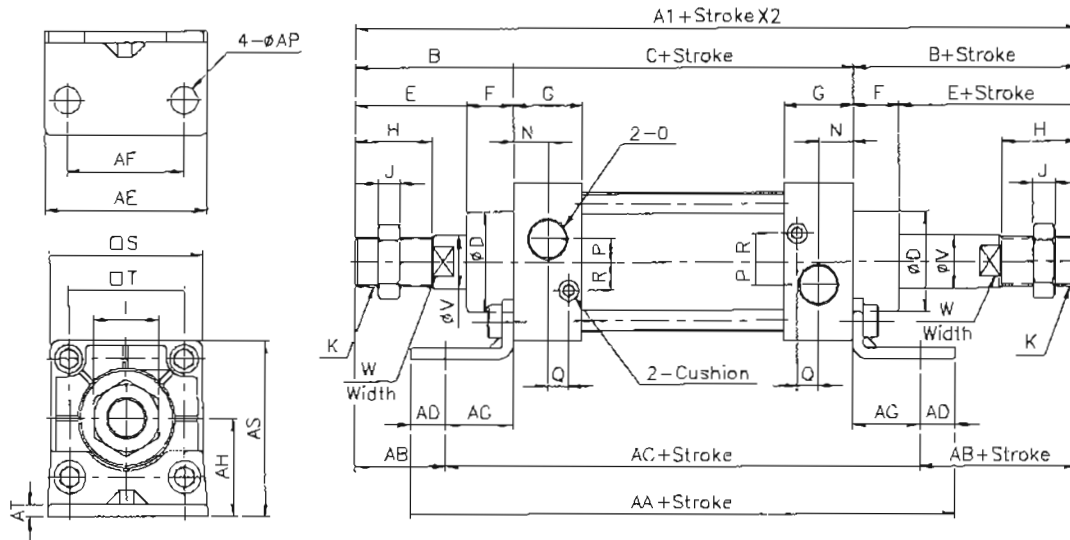
ø32~ø100



Bore size mm	A1	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	V	W	X
32	187	47	93	28	32	15	27.5	22	17	6	M10*1.25	M6*1.0	13	14	6	8.5	6	44	33	12	10	G1/8"
40	191	49	93	32	34	15	27.5	24	19	7	M12*1.25	M6*1.0	13	14	6	8.5	8.5	50	37	16	14	G1/4"
50	207	57	93	38	42	15	27.5	32	23	8	M16*1.5	M6*1.0	13	14	7	8.5	8.5	62	47	20	17	G1/4"
63	210	57	96	38	42	15	27.5	32	23	8	M16*1.5	M8*1.25	13	14	7	8.5	8.5	75	56	20	17	G3/8"
80	258	73	108	47	54	21	33	40	26	10	M20*1.5	M10*1.5	15	16.5	7	10	10	94	70	25	22	G3/8"
100	264	75	114	47	54	21	33	40	26	10	M20*1.5	M10*1.5	15	16.5	7	10	10	112	84	25	22	G1/2"

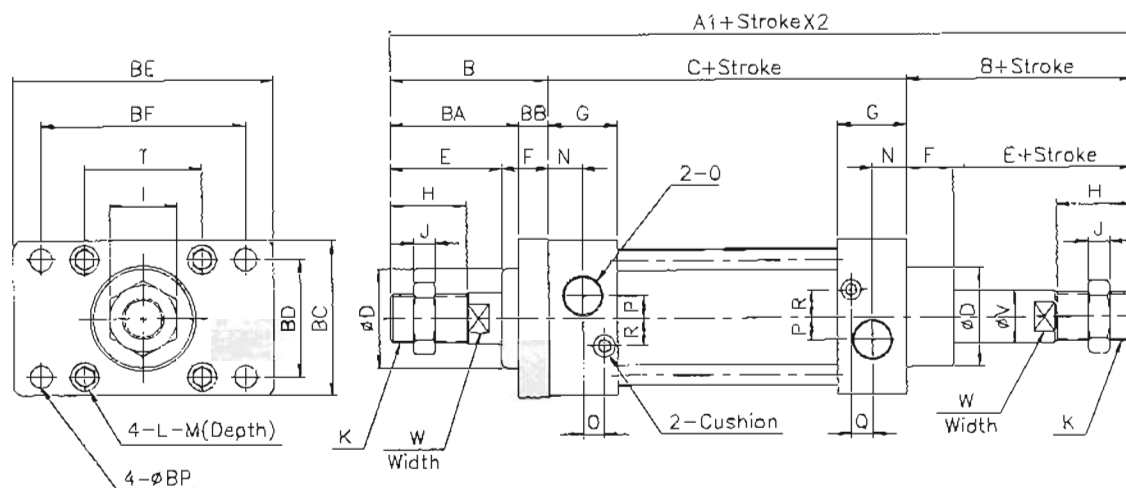
Dimensions of Foot Mounting Type (LB)

ø32~ø100



Bore size mm	A1	B	C	D	E	F	G	H	I	J	K	L	N	P	Q	R	S	T	V	W	X
32	187	47	93	28	32	15	27.5	22	17	6	M10*1.25	M6*1.0	14	6	8.5	6	44	33	12	10	G1/8"
40	191	49	93	32	34	15	27.5	24	19	7	M12*1.25	M6*1.0	14	6	8.5	8.5	50	37	16	14	G1/4"
50	207	57	93	38	42	15	27.5	32	23	8	M16*1.5	M6*1.0	14	7	8.5	8.5	62	47	20	17	G1/4"
63	210	57	96	38	42	15	27.5	32	23	8	M16*1.5	M8*1.25	14	7	8.5	8.5	75	56	20	17	G3/8"
80	258	73	108	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	94	70	25	22	G3/8"
100	264	75	114	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	112	84	25	22	G1/2"

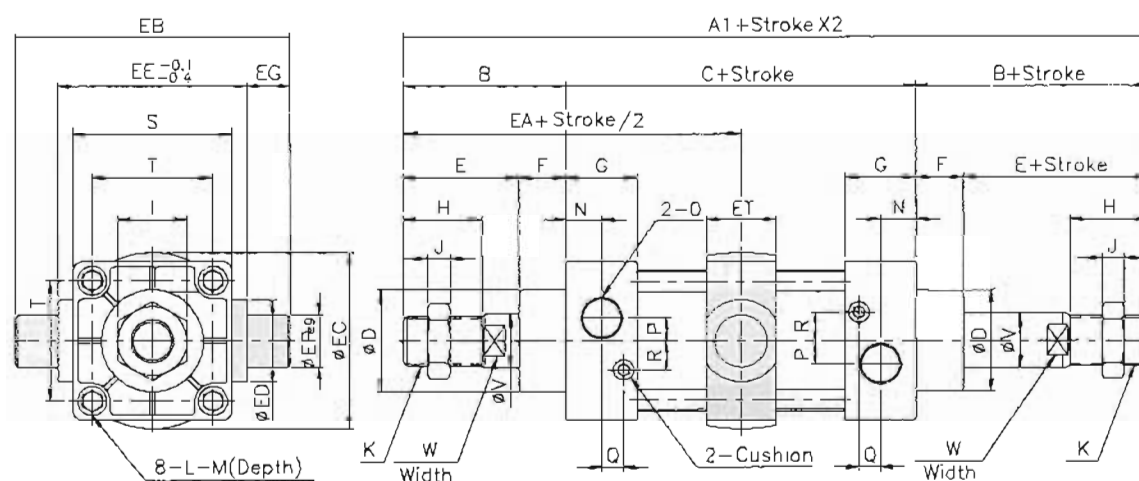
Bore size mm	AA	AB	AC	AD	AE	AF	AO	AH	AP	AS	AT
32	153	26.5	134	9.5	50	33	20.5	28	9	50	3.2
40	169	25.5	140	14.5	57	36	23.5	30	12	55	3.2
50	173	29	149	12	68	47	28	36.5	12	67.5	3.2
63	184	26	158	13	80	56	31	41	12	78.5	3.2
80	200	45	168	16	97	70	30	49	14	96	4
100	210	45	174	18	112	84	30	57	14	113	4



Bore size,mm	A1	B	C	D	E	F	G	H	I	J	K	L	N	P	Q	R	T	V	W	X	BA	BB	BC	BD	BE	BF	BP
32	187	47	93	28	32	15	27.5	22	17	6	M10*1.25	M6*1.0	14	6	8.5	6	33	12	10	G1/8"	37	10	47	33	72	58	7
40	191	49	93	32	34	15	27.5	24	19	7	M12*1.25	M6*1.0	14	6	8.5	8.5	37	16	14	G1/4"	39	10	52	36	84	70	7
50	207	57	93	38	42	15	27.5	32	23	8	M16*1.5	M6*1.0	14	7	8.5	8.5	47	20	17	G1/4"	47	10	65	47	104	86	9
63	210	57	96	38	42	15	27.5	32	23	8	M16*1.5	M8*1.25	14	7	8.5	8.5	56	20	17	G3/8"	47	10	75	56	116	98	9
80	258	75	108	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	70	25	22	G3/8"	59	16	95	70	143	119	11
100	264	75	114	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	84	25	22	G1/2"	59	16	115	84	162	138	11

Dimensions of Trunnion Type (TC)

ø32~ø100



Note. Dimensions of trunnion bracket please refer to page 7.

Bore size,mm	A1	B	C	D	E	F	G	H	I	J	K	L	N	P	Q	R	S	T	V	W	X	EA	EB	EC	ED	EE	EG	EP	ET
40	191	49	93	32	34	15	27.5	24	19	7	M12*1.25	14	6	8.5	8.5	50	37	16	14	G1/4"	95.5	113	59	35	63	25	25	30	
50	207	57	93	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	62	47	20	17	G1/4"	103.5	126	71	35	76	25	25	30	
63	210	57	96	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	75	56	20	17	G3/8"	105	138	86	35	88	25	25	30	
80	258	75	108	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	94	70	25	22	G3/8"	129	164	104	38	114	25	25	35	
100	264	75	114	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	112	84	25	22	G1/2"	132	182	128	44	132	25	25	40	

STANDARD CYLINDER

Adjustable Stroke Type

Ordering code

SCJ — 50X50-25 — ☐ — ☐

Cylinder bore size X Stroke

Magnetic type :

Blank : Without magnet

S : with magnet

Mounting type:

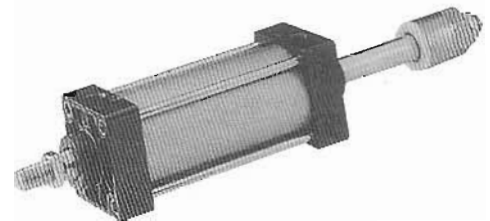
Blank : Basic type

LB : Foot type

FA : Front-Flange type

TC : Trunnion type

TC-M : Trunnion type
with bracket



SCJ - Standard cylinder - Adjustable stroke type

Specification

Bore size	mm	32	40	50	63	80	100
Action		Double acting type					
Fluid		Air					
Mounting type *		Basic type, Foot type, Flange type, Trunnion type					
Pressure range	MPa { kgf/cm ² }	0.04 ~ 0.9 { 0.4 ~ 9.2 }					
Proof pressure	MPa { kgf/cm ² }	1.35 { 13.5 }					
Temperature range	°C	0 ~ 70					
Speed range	mm/s	50 ~ 800					
Cushion type		Variable cushion					
Cushioning stroke	mm	22				26	
Port size		G 1/8"	G 1/4"		G 3/8"		G 1/2"

Note. * No trunnion type available for 32mm bore.

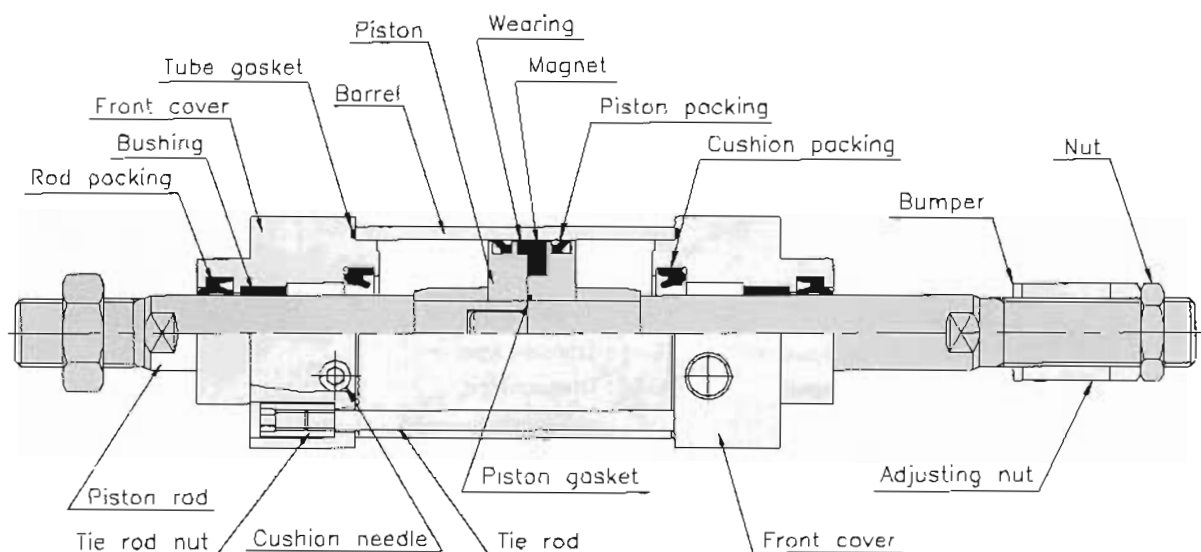
Cylinder size and stroke (mm)

Bore size	Standard stroke	Maximum stroke	Available stroke
32	25 50 75 100 125 150 175 200	200	300
40	25 50 75 100 125 150 175 200	200	300
50	25 50 75 100 125 150 175 200	200	300
63	25 50 75 100 125 150 175 200	200	300
80	25 50 75 100 125 150 175 200 225 250 300	300	400
100	25 50 75 100 125 150 175 200 225 250 300	300	400

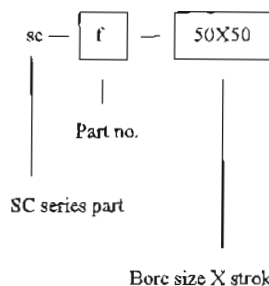
Note : 1. Stroke tolerance 0, +1.

2. Consult us for non-standard stroke and special piston rod.

3. When the stroke exceeds the maximum stroke, minimum operating pressure is 0.2MPa.



How to order parts



Note: *. Bore size only for parts which strokes are not important.

Material of major parts

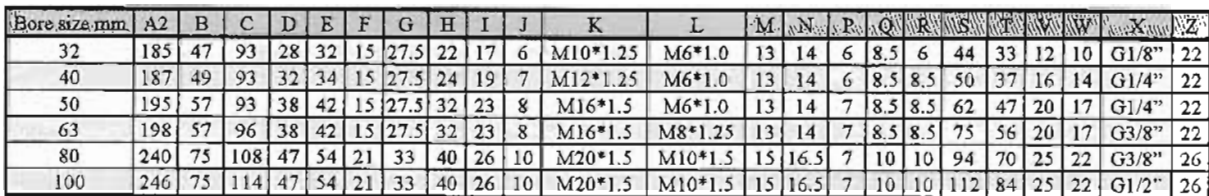
Item	Part no.	32	40	50	63	80	100
Barrel	b	Aluminum alloy					
Front cover	f	Aluminum Die-cast					
Cushion needle	cn	Copper					
Piston	p	Aluminum alloy					
Piston rod	pr	Hi-carbon steel with hard chrome plated					
Piston packing	pgy	NBR					
Rod packing	mya	NBR					
Piston gasket	pg	NBR					
Cushion packing	aei	NBR					
Cushion gasket	cg	NBR					
Bushing	bs	Copper					
Magnet	m	Plastic					
Wearing ring	w	Plastic					
Foot mounting	LB	Mild steel					
Flange mounting	FA	Cast iron					
Trunnion mounting	TC	Cast iron					
Trunnion bracket	M	Cast iron					
Knuckle	Y I	Hard steel					
Tie-rod	tr	Mild steel					
Tie-rod nut	tn	Mild steel					
Adjusting nut	an	Mild steel					
Adjusting nut bumper	ab	Mild steel					

Note: Detail part number of packing please refer to packing list.

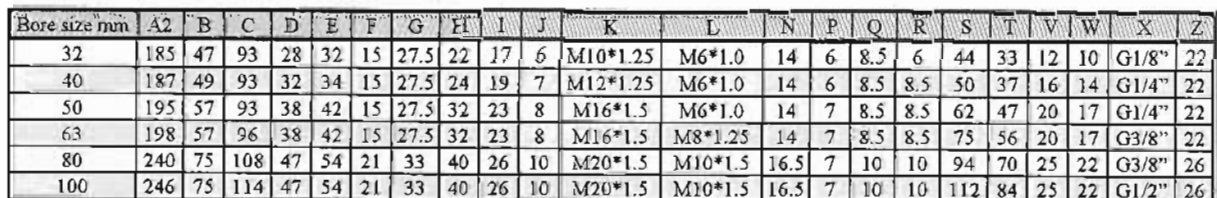
Packing list

Bore size	mm	Rod packing	Piston packing	Piston gasket	Cushion packing	Cushion gasket
32		mya-32*2	pgy-32*2	pg-32*1	aei-32*2	cg-1*2
40		mya-40*2	pgy-40*2	pg-40*1	aei-40*2	cg-1*2
50		mya-50*2	pgy-50*2	pg-50*1	aei-50*2	cg-2*2
63		mya-63*2	pgy-63*2	pg-63*1	aei-63*2	cg-2*2
80		mya-80*2	pgy-80*2	pg-80*1	aei-80*2	cg-3*2
100		mya-100*2	pgy-100*2	pg-100*1	aei-100*2	cg-3*2

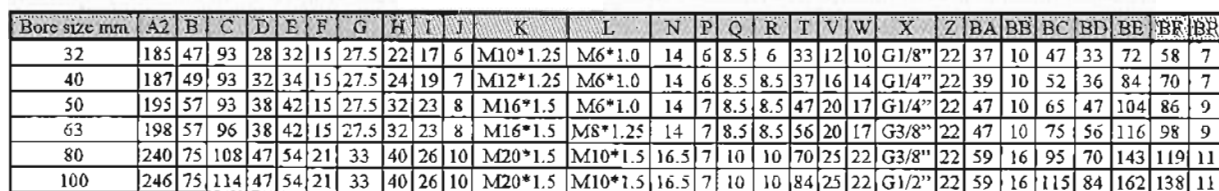
A2+StrokeX2+Adjustable Stroke



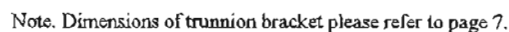
ø32~ø100



Bore size mm	AA	AB	AC	AD	AE	AF	AG	AH	AP	AS	AT
32	153	26.5	134	9.5	50	33	20.5	28	9	50	3.2
40	169	25.5	140	14.5	57	36	23.5	30	12	55	3.2
50	173	29	149	12	68	47	28	36.5	12	67.5	3.2
63	184	26	158	13	80	56	31	41	12	78.5	3.2
80	200	45	168	16	97	70	30	49	14	96	4
100	210	45	174	18	112	84	30	57	14	113	4



ø32~ø100



Bore size mm	A2	B	C	D	E	F	G	H	I	J	K	N	P	Q	R	S	T	V	W	X	Z	EA	EB	EC	ED	EE	EG	EP	ET
40	187	49	93	32	34	15	27.5	24	19	7	M12*1.25	14	6	8.5	8.5	50	37	16	14	G1/4"	22	95.5	113	59	35	63	25	25	30
50	195	57	93	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	62	47	20	17	G1/4"	22	103.5	126	71	35	76	25	25	30
63	198	57	96	38	42	15	27.5	32	23	8	M16*1.5	14	7	8.5	8.5	75	56	20	17	G3/8"	22	105	138	86	35	88	25	25	30
80	240	75	108	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	94	70	25	22	G3/8"	22	129	164	104	38	114	25	25	35
100	246	75	114	47	54	21	33	40	26	10	M20*1.5	16.5	7	10	10	112	84	25	22	G1/2"	22	132	182	128	44	132	25	25	40

Ordering code

SCT	—	50X50X25	—		—	
		Bore size X Stroke1 X Stroke 2				Mounting type:
						Blank : Basic type
						LB : Foot type
		Magnetic type :				FA : Front-Flange type
		Blank : Without magnet				FB : Rear-Flange type
		S : with magnet				

SCT - Standard cylinder - Tandem & Duplex type

Specification

Bore size	mm	32	40	50	63	80	100
Action		Double acting type					
Fluid		Air					
Mounting type *		Basic type, Foot type, Flange type					
Pressure range	MPa { kgf/cm ² }	0.04 ~ 0.9 { 0.4 ~ 9.2 }					
Proof pressure	MPa { kgf/cm ² }	1.35 { 13.5 }					
Temperature range	°C	0 ~ 70					
Speed range	mm/s	50 ~ 800					
Cushion type		Variable cushion					
Cushioning stroke	mm	22				26	
Port size		G 1/8"	G 1/4"		G 3/8"		G 1/2"

Note. * No trunnion type available for 32mm bore.

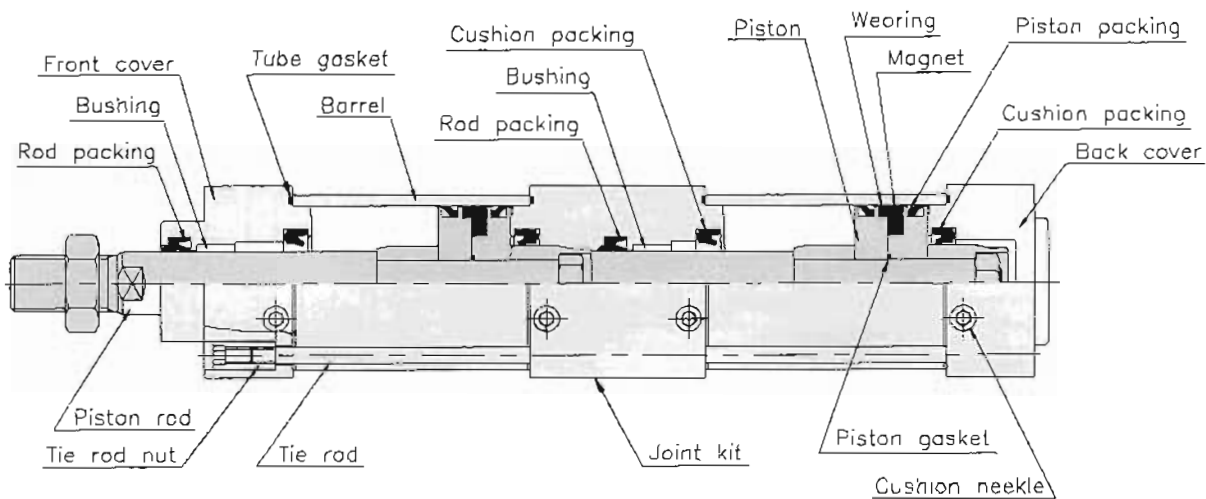
Cylinder size and stroke (mm) : Stroke 1 & Stroke 2

Bore size	Standard stroke	Maximum stroke	Available stroke
32	25 50 75 100 125 150 175 200	200	300
40	25 50 75 100 125 150 175 200	200	300
50	25 50 75 100 125 150 175 200	200	300
63	25 50 75 100 125 150 175 200	200	300
80	25 50 75 100 125 150 175 200 225 250 300	300	400
100	25 50 75 100 125 150 175 200 225 250 300	300	400

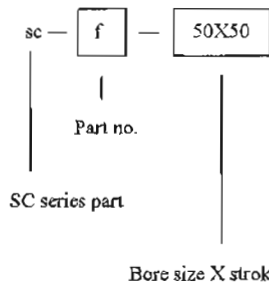
Note : 1. Stroke tolerance 0, +1.

2. Consult us for non-standard stroke and special piston rod.

3. When the stroke exceeds the maximum stroke, minimum operating pressure is 0.2MPa.



How to order parts



Note. *. Bore size only for parts which strokes are not important.

Material of major parts

Item	Part no.	32	40	50	63	80	100
Barrel	b	Aluminum alloy					
Front cover	f	Aluminum Die-cast					
Back cover	bc	Aluminum Die-cast					
Cushion needle	cn	Copper					
Piston	p	Aluminum alloy					
Piston rod	pr	Hi-carbon steel with hard chrome plated					
Piston packing	pgy	NBR					
Rod packing	mya	NBR					
Piston gasket	pg	NBR					
Cushion packing	aei	NBR					
Cushion gasket	cg	NBR					
Bushing	bs	Copper					
Magnet	m	Plastic					
Wearing ring	w	Plastic					
Foot mounting	LB	Mild steel					
Flange mounting	FA FB	Cast iron					
Knuckle	Y I	Hard steel					
Tie-rod	tr	Mild steel					
Tie-rod nut	tn	Mild steel					
Joint kit	jk	Aluminum alloy					

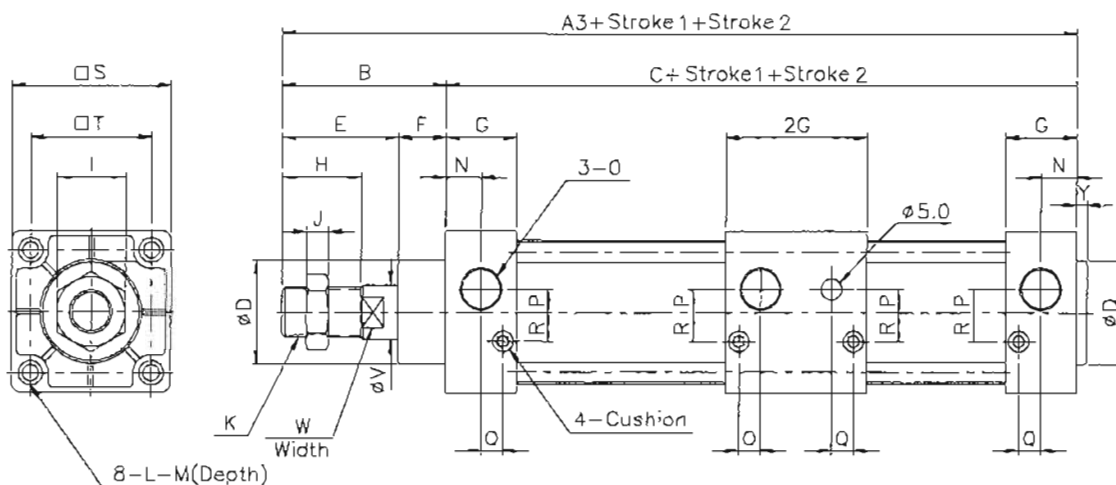
Note : Detail part number of packing please refer to packing list.

Packing list

Bore size	mm	Rod packing	Piston packing	Piston gasket	Cushion packing	Cushion gasket
32		mya-32*2	pgy-32*4	pg-32*2	aei-32*4	cg-1*4
40		mya-40*2	pgy-40*4	pg-40*2	aei-40*4	cg-1*4
50		mya-50*2	pgy-50*4	pg-50*2	aei-50*4	cg-2*4
63		mya-63*2	pgy-63*4	pg-63*2	aei-63*4	cg-2*4
80		mya-80*2	pgy-80*4	pg-80*2	aei-80*4	cg-3*4
100		mya-100*2	pgy-100*4	pg-100*2	aei-100*4	cg-3*4

Dimensions of Basic Type - SCT

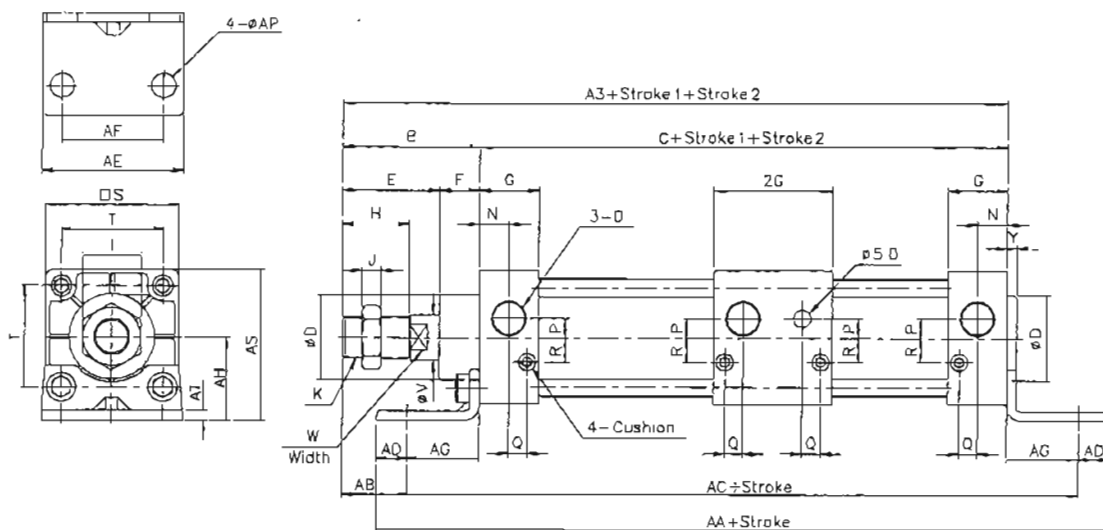
ø32~ø100



Bore size mm	A3	B	C	D	E	F	G	H	J	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y
32	233	47	93	28	32	15	27.5	22	17	6	M10*1.25	M6*1.0	13	14	6	8.5	6	44	33	12	10	G1/8"	3.5
40	235	49	93	32	34	15	27.5	24	19	7	M12*1.25	M6*1.0	13	14	6	8.5	8.5	50	37	16	14	G1/4"	3.5
50	243	57	93	38	42	15	27.5	32	23	8	M16*1.5	M6*1.0	13	14	7	8.5	8.5	62	47	20	17	G1/4"	3.5
63	249	57	96	38	42	15	27.5	32	23	8	M16*1.5	M8*1.25	13	14	7	8.5	8.5	75	56	20	17	G3/8"	3.5
80	291	75	108	47	54	21	33	40	26	10	M20*1.5	M10*1.5	15	16.5	7	10	10	94	70	25	22	G3/8"	4
100	303	75	114	47	54	21	33	40	26	10	M20*1.5	M10*1.5	15	16.5	7	10	10	112	84	25	22	G1/2"	4

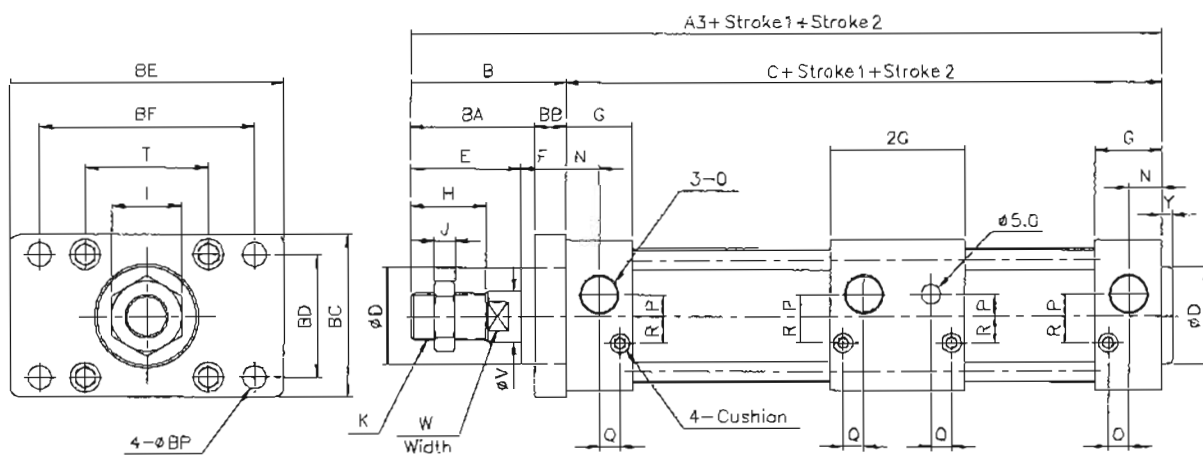
Dimensions of Foot Mounting Type (LB)

ø32~ø100



Bore size mm.	A3	B	C	D	E	F	G	H	I	J	K	L	N	P	Q	R	S	T	V	W	X	Y
32	233	47	186	28	32	15	27.5	22	17	6	M10*1.25	M6*1.0	14	6	8.5	6	44	33	12	10	G1/8"	3.5
40	235	49	186	32	34	15	27.5	24	19	7	M12*1.25	M6*1.0	14	6	8.5	8.5	50	37	16	14	G1/4"	3.5
50	243	57	186	38	42	15	27.5	32	23	8	M16*1.5	M6*1.0	14	7	8.5	8.5	62	47	20	17	G1/4"	3.5
63	249	57	192	38	42	15	27.5	32	23	8	M16*1.5	M8*1.25	14	7	8.5	8.5	75	56	20	17	G3/8"	3.5
80	291	75	216	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	94	70	25	22	G3/8"	4
100	303	75	228	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	112	84	25	22	G1/2"	4

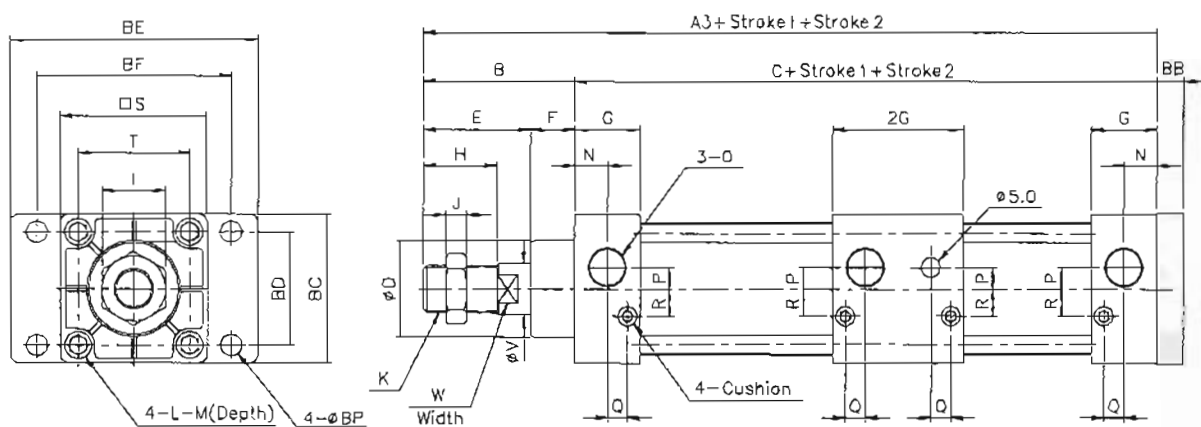
Bore size mm	AA	AB	AC	AD	AE	AF	AG	AH	AP	AS	AT
32	246	26.5	227	9.5	50	33	20.5	28	9	50	3.2
40	262	25.5	233	14.5	57	36	23.5	30	12	55	3.2
50	266	29	242	12	68	47	28	36.5	12	67.5	3.2
63	280	26	254	13	80	56	31	41	12	78.5	3.2
80	308	45	276	16	97	70	30	49	14	96	4
100	324	45	288	18	112	84	30	57	14	113	4



Bore size mm	A	B	C	D	E	F	G	H	I	J	K	L	N	P	Q	R	T	V	W	X	Y	BA	BB	BC	BD	BE	BF	BR
32	233	47	93	28	32	15	27.5	22	17	6	M10*1.25	M6*1.0	14	6	8.5	6	33	12	10	G1/8"	3.5	37	10	47	33	72	58	7
40	235	49	93	32	34	15	27.5	24	19	7	M12*1.25	M6*1.0	14	6	8.5	8.5	37	16	14	G1/4"	3.5	39	10	52	36	84	70	7
50	243	57	93	38	42	15	27.5	32	23	8	M16*1.5	M6*1.0	14	7	8.5	8.5	47	20	17	G1/4"	3.5	47	10	65	47	104	86	9
63	249	57	96	38	42	15	27.5	32	23	8	M16*1.5	M8*1.25	14	7	8.5	8.5	56	20	17	G3/8"	3.5	47	10	75	56	116	98	9
80	291	75	108	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	70	25	22	G3/8"	4	59	16	95	70	143	119	11
100	303	75	114	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	84	25	22	G1/2"	4	59	16	115	84	162	138	11

Dimensions of Rear-Flange Mounting Type (FB)

ø32~ø100

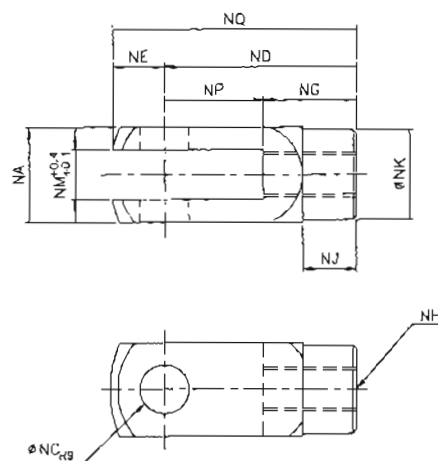
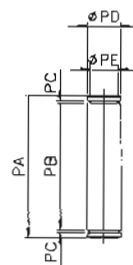
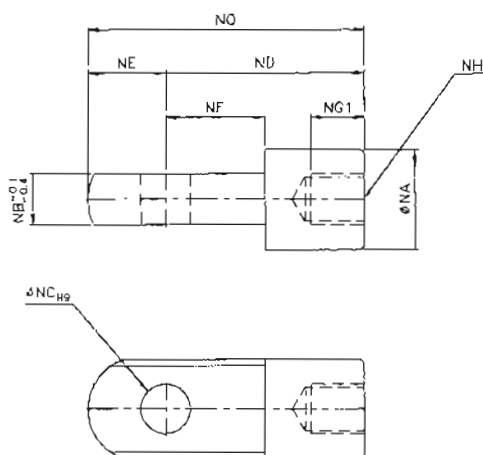


Bore size mm	A	B	C	D	E	F	G	H	I	J	K	L	N	P	Q	R	S	T	V	W	X	BB	BC	BD	BE	BF	BG	BP
32	233	47	93	28	32	15	27.5	22	17	6	M10*1.25	M6*1.0	14	6	8.5	6	44	33	12	10	G1/8"	10	47	33	72	58	243	7
40	235	49	93	32	34	15	27.5	24	19	7	M12*1.25	M6*1.0	14	6	8.5	8.5	50	37	16	14	G1/4"	10	52	36	84	70	245	7
50	243	57	93	38	42	15	27.5	32	23	8	M16*1.5	M6*1.0	14	7	8.5	8.5	62	47	20	17	G1/4"	10	65	47	104	86	253	9
63	249	57	96	38	42	15	27.5	32	23	8	M16*1.5	M8*1.25	14	7	8.5	8.5	75	56	20	17	G3/8"	10	75	56	116	98	259	9
80	291	75	108	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	94	70	25	22	G3/8"	16	95	70	143	119	301	11
100	303	75	114	47	54	21	33	40	26	10	M20*1.5	M10*1.5	16.5	7	10	10	112	84	25	22	G1/2"	16	115	84	162	138	313	11

Dimensions of Knuckles — Y & I

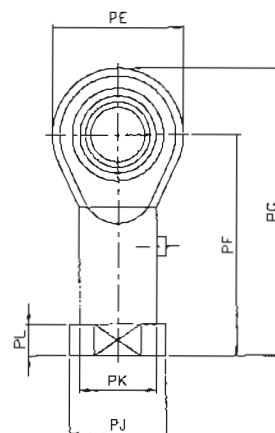
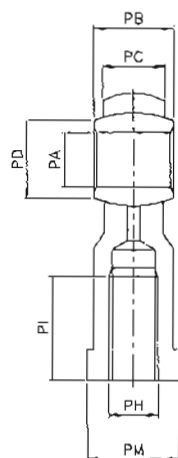
I Knuckle

Y Knuckle



Bore size mm	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NM	NP	NQ	NR	PA	PB	PC	PD	PE
32	19	10	10	40	12	20	20	M10*1.25	12	12	18	10	20	52	52	25	20.5	1.2	10	9.5
40	24	12	12	48	19	24	24	M12*1.25	14	20	23	12	24	62	67	33	26.5	1.2	12	11.5
50	32	16	16	64	19	32	32	M16*1.5	25	22	30	16	32	83	89	39	33	1.2	16	15.5
63	32	16	16	64	19	32	32	M16*1.5	25	22	30	16	32	83	89	39	33	1.2	16	15.5
80	44	20	20	80	25	40	40	M20*1.5	32	30	39	20	40	105	112	74	65.5	1.65	20	19.5
80	44	20	20	80	25	40	40	M20*1.5	32	30	39	20	40	105	112	74	65.5	1.65	20	19.5

Dimensions of Universal Joint (Fish-Ball Joint)



Bore size mm	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM
32	10	14	11	12.9	26	43	56	M10*1.25	21	19	15	6.5	17
40	12	16	12	15.4	30	50	65	M12*1.25	24	22	17.5	6.5	19
50	16	21	15	19.3	38	64	83	M16*1.5	33	27	22	8	22
63	16	21	15	19.3	38	64	83	M16*1.5	33	27	22	8	22
80	20	25	18	24.3	46	77	100	M20*1.5	40	34	27.5	10	32
100	20	25	18	24.3	46	77	100	M20*1.5	40	34	27.5	10	32