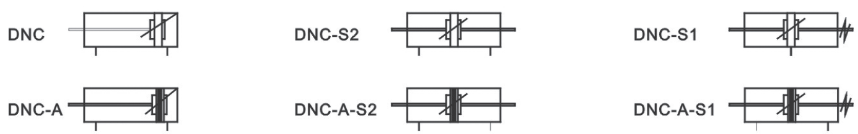
DNC Series ISO6431 Standard Cylinder



Ordering Code DNC Series ISO6431 Standard Cylinder

DNC 32 X 50 - 20 - PPV - A - S2

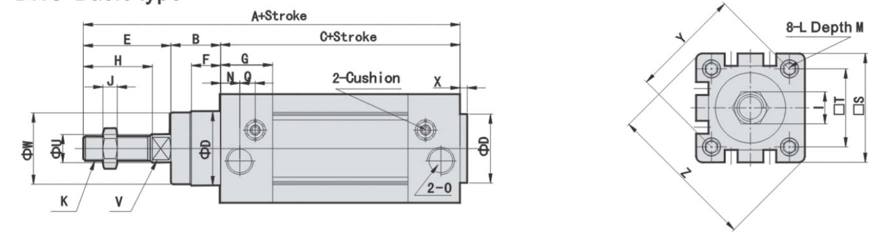
- **According to ISO6431** (DNC)
  - DNC:Basic type
  - FNC:Front Rear Plate Mounting
  - ZNCF:Centre Trunnion Mounting
  - SNCB:Single Trunnion Mounting
  - SNCL:Double Trunnion Mounting
- **Bore** (32)
- **Stroke** (50)
- **Adjustable Stroke** (20)
  - 10:10mm
  - 20:20mm
  - 30:30mm
  - 40:40mm
  - 50:50mm
  - 75:75mm
  - 100:100mm
- **Cushion** (PPV)
  - Blank:No Cushion
  - PPV:With Cushion
- **Magnet** (A)
  - Blank : No Magnet
  - A:With Magnet
- (S2)
  - Blank:Standard cylinder
  - S1 : Double-shaft, adjustable stroke type
  - S2:Double-shaft type

Specifications

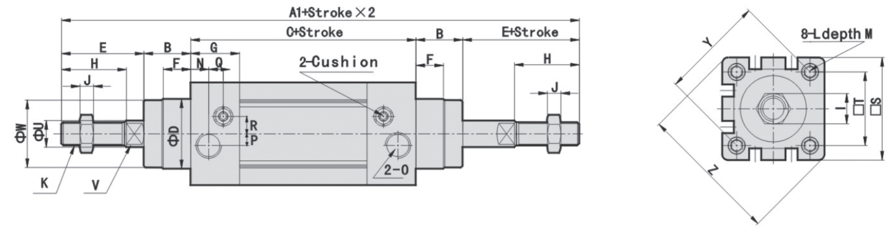
Bore size(mm)		32	40	50	63	80	100
Acting type		Double acting					
Working medium		Clean air(40μm Filteration)					
Mounting type	DNC Series	Basic type FA FB CA CB CR LB TC TC-M					
	DNC-S2Series	Basic type FA LB TC TC-M					
Working pressure range		0.1~1.0Mpa					
Guaranteed pressure		1.35Mpa					
Working temperature		-5~70℃					
Speed range		50~800mm/s					
Cushion type		Adjustable cushion					
Cushion stroke		24			32		
Working life		≥4000Km					
Port size		G1/8	G1/4		G3/8		G1/2

Main Dimensions

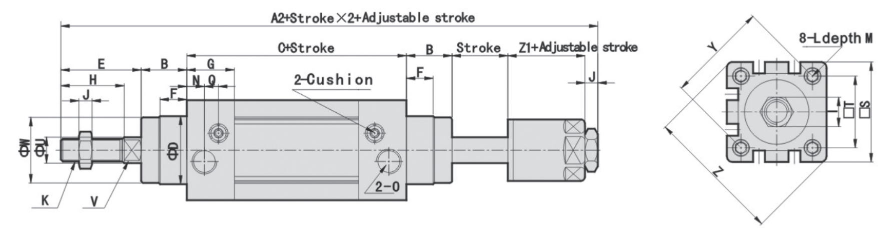
DNC Basic type



DNC-S2 Double shaft type



DNC-S1 Double shaft adjustable stroke type

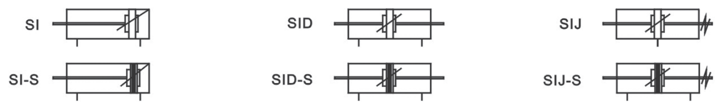


Bore \ Sign	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32	142	190	185	16	94	30	32	10	25	22	17	6	M10X1.25
40	159	213	207	20	105	35	34	10	29.5	24	17	7	M12X1.25
50	175	244	233	27	106	40	42	10	32	32	23	8	M16X1.5
63	190	258	247	26	122	45	42	10	36	32	23	8	M16X1.5
80	214	301	288	35	127	45	52	10	37	40	26	10	M20X1.5
100	229	321	308	40	137	55	52	10	39	40	26	10	M20X1.5
125	279	352	-	46	160	60	73	20.5	44.7	54	-	-	M27X2

Bore \ Sign	M	N	O	P	Q	R	S	T	U	V	W	X	L	Z1
32	12	15	G1/8	5	3	6.5	45	32.5	12	10	28	4	M6	21
40	12	17.5	G1/4	7	3	7	52	38	16	13	33	4	M6	21
50	12	21	G1/4	7	3	9	65	46.5	20	17	38	4	M8	23
63	12	23	G3/8	8	5	9	76	56.5	20	17	40	4	M8	23
80	12	24	G3/8	10	5	12	94	72	25	22	43	5	M10	29
100	12	26	G1/2	10	5	14	112	89	25	22	47	6	M10	29
125	-	22.3	G1/2	13	8	16	134	110	32	27	58	6	M12	-

RPK

SI Series ISO6431 Standard Cylinder



Ordering Code SI Series ISO6431 Standard Cylinder

SI 50 X 50 - S - 20 - LB

According to ISO6431
SI:ISO 6431 Standard cylinder
SID:ISO 6431 Double-shaft type
SLJ : ISO 6431 Double-shaft, adjustable stroke type

Bore

Stroke

Magnet
Blank : No Magnet
A:With Magnet

Adjustable stroke
10:10mm
20:20mm
30:30mm
40:40mm
50:50mm
75:75mm
100:100mm

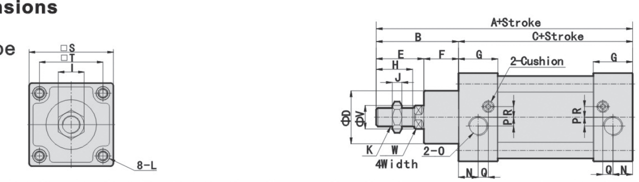
Mounting type
Blank:Standard cylinder
LB:Leg mounting
FA/FB:Front rear plate mounting
CA:Single trunnion mounting
CB:Double trunnion mounting
CR:Double trunnion with Hinge mounting
TC:Centre trunnion mounting

Specifications

Bore size (mm)	32	40	50	63	80	100	125	160	200
Acting type	Double acting								
Working medium	Clean air(40μm Filteration)								
Mounting type — SI Series	Basic type FA FB CA CB LB TC TC-M1 TC-M2								
Mounting type — SID Series	Basic type FA LB TC TC-M1 TC-M2								
Mounting type — SIJ Series	Basic type FA LB TC TC-M1 TC-M2								
Working Pressure Range	0.1~1.0Mpa								
Guaranteed Pressure	1.5Mpa								
Working Temperature	5~70℃								
Speed Range	SI Series:50~800mm/s Other-Series:30-800mm/s								
Cushion Type	Adjustable cushion								
Cushion Stroke	27mm		30mm		36mm		40mm	50mm	
Port Size	G1/8	G1/4		G3/8		G1/2		G3/4	

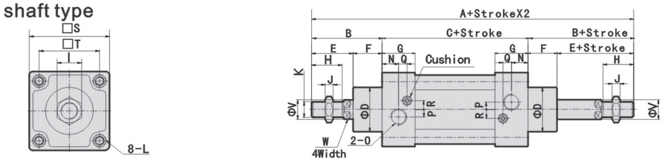
Main Dimensions

SI Basic type



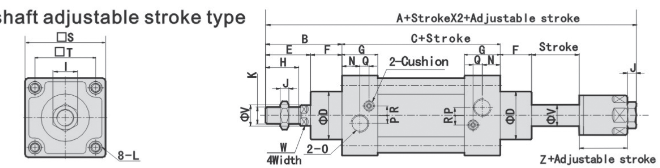
Bore \ Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W
32	142	48	94	30	32	16	28	22	17	6	M10X1.25	M6	13.5	G1/8	4	7.5	7	47	32.5	12	10
40	159	54	105	35	36	18	29	24	19	7	M12X1.25	M6	16	G1/4	6	9.5	9	53	38	16	13
50	175	69	106	40	44	25	31	32	24	8	M16X1.5	M8	18.5	G1/4	8.5	6.7	9	65	46.5	20	17
63	190	69	121	45	44	25	32	32	24	8	M16X1.5	M8	19	G3/8	6	7.7	9	75	56.5	20	17
80	214	86	128	45	56	30	35	40	30	10	M20X1.5	M10	19	G3/8	10	5	13.5	95	72	25	22
100	229	91	138	55	59	32	36	40	30	10	M20X1.5	M10	18	G1/2	12.5	10	14.5	115	89	25	22
125	279	119	160	60	74	45	46	54	41	13.5	M27X2	M12	23	G1/2	14	12	14	140	110	32	27
160	332	152	180	65	94	58	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	180	140	40	36
200	347	167	180	75	107	60	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	220	175	40	36

SID Double shaft type



Bore \ Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W
32	190	48	94	30	32	16	28	22	17	6	M10X1.25	M6	13.5	G1/8	4	7.5	7	47	32.5	12	10
40	213	54	105	35	36	18	29	24	19	7	M12X1.25	M6	16	G1/4	6	9.5	9	53	38	16	13
50	244	69	106	40	44	25	31	32	24	8	M16X1.5	M8	18.5	G1/4	8.5	6.7	9	65	46.5	20	17
63	259	69	121	45	44	25	32	32	24	8	M16X1.5	M8	19	G3/8	6	7.7	9	75	56.5	20	17
80	300	86	128	45	56	30	35	40	30	10	M20X1.5	M10	19	G3/8	10	5	13.5	95	72	25	22
100	320	91	138	55	59	32	36	40	30	10	M20X1.5	M10	18	G1/2	12.5	10	14.5	115	89	25	22
125	398	119	160	60	74	45	46	54	41	13.5	M27X2	M12	23	G1/2	14	12	14	140	110	32	27
160	484	152	180	65	94	58	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	180	140	40	36
200	514	167	180	75	107	60	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	220	175	40	36

SIJ Double shaft adjustable stroke type



Bore \ Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W	Z
32	187	48	94	30	32	16	28	22	17	6	M10X1.25	M6	13.5	G1/8	4	7.5	6.5	47	32.5	12	10	21
40	207	54	105	35	36	18	29	24	19	7	M12X1.25	M6	16	G1/4	6	9.5	9	53	38	16	13	21
50	233	69	106	40	44	25	31	32	24	8	M16X1.5	M8	18.5	G1/4	8.5	6.7	7.5	65	46.5	20	17	23
63	250	69	121	45	44	25	32	32	24	8	M16X1.5	M8	19	G3/8	6	7.7	9	75	56.5	20	17	23
80	286	86	128	45	56	30	35	40	30	10	M20X1.5	M10	19	G3/8	10	5	13.5	95	72	25	22	29
100	308	91	138	55	59	32	36	40	30	10	M20X1.5	M10	18	G1/2	12.5	10	14.5	115	89	25	22	29
125	373	119	160	60	74	45	46	54	41	13.5	M27X2	M12	23	G1/2	14	12	14	140	110	32	27	35
160	448	152	180	65	94	58	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	180	140	40	36	40
200	472	167	180	75	107	60	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	220	175	40	36	40

DNC/SI ISO6431 Standard Cylinder Brackets

Ordering Code

ISO - 50 - FA

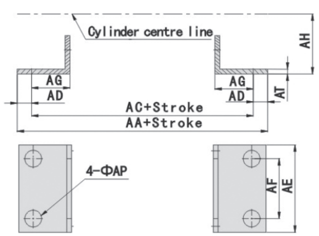
ISO 6431 Standard · Bore · Brackets type

Brackets

Brackets / Cylinder	LB	FA	FB	CA	CB	CR	TC	TC-M1	TC-M2
SI	●	●	●	●	●	●	●	●	●
SID	●	●	X	X	X	X	●	●	●
SIJ	●	●	X	X	X	X	●	●	●
SILB	●	●	●	●	●	●	●	●	●
SILF	●	●	●	●	●	●	●	●	●

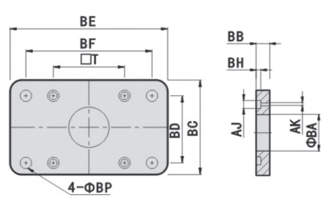
Main Dimensions

LB



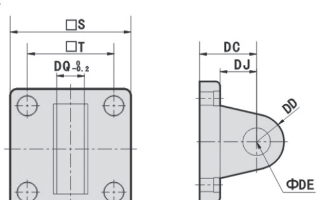
Sign \ Bore	32	40	50	63	80	100	125	160	200
AA	158	179	190	209	248	258	290	340	380
AC	142	161	170	185	210	220	250	300	320
AD	8	9	10	12	19	19	20	20	30
AE	48	53	63	73	98	115	140	180	220
AF	32	36	45	50	63	75	90	115	135
AG	24	28	32	32	41	41	45	60	70
AH	32	36	45	50	63	71	90	115	135
AP	7	9	9	9	12	14	16	18	22
AT	4	4	4	4	5	5	8	8	9

FA/FB



Sign \ Bore	32	40	50	63	80	100	125	160	200
AJ	10.5	10.5	14	14	17	17	19	25	25
AK	7	7	9	9	11	11	13	17	17
BA	30.3	35.3	40.3	45.3	45.3	55.3	60.3	65.3	75.3
BB	10	10	12	12	16	16	20	20	25
BC	50	55	65	75	100	120	140	180	220
BD	32	36	45	50	63	75	90	115	135
BE	80	90	110	125	154	186	224	280	320
BF	64	72	90	100	126	150	180	230	270
BH	6.5	6.5	6.5	8.5	10.5	10.5	8	8	12
BP	7	9	9	9	12	14	16	18	22
T	32.5	38	46.5	56.5	72	89	110	140	175

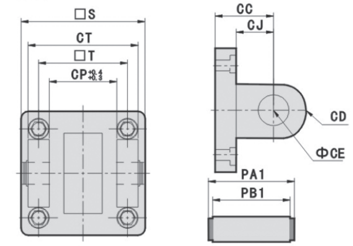
CA



Sign \ Bore	32	40	50	63	80	100	125	160	200
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175
DC	22	25	27	32	36	41	50	55	60
DD	9	12	12	15	15	20	25	30	30
DE	10	12	12	16	16	20	25	30	30
DJ	13	16	17	22	22	27	33	35.5	37
DQ	25.8	27.8	31.7	39.7	49.7	59.7	69.7	89.7	89.7

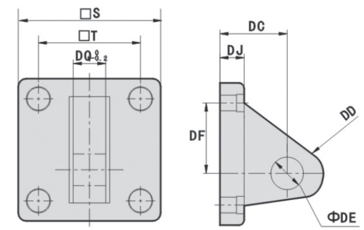
Main Dimensions

CB



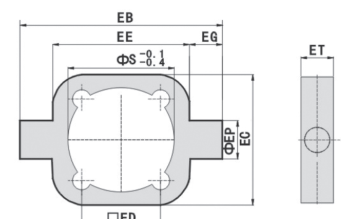
Sign \ Bore	32	40	50	63	80	100	125	160	200
CC	22	25	27	32	36	41	50	55	60
CD	9	12	12	15	15	20	25	30	30
CE	10	12	12	16	16	20	25	30	30
CJ	13	16	17	22	22	27	31	35.5	36
CP	26	28	32	40	50	60	70	90	90
CT	45	52	60	70	90	110	130	170	170
PA1	51	59	67	77	97	119	139	181	181
PB1	45.5	52.5	60.5	70.5	90.5	110.5	130.5	170.5	170.5
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175

CR



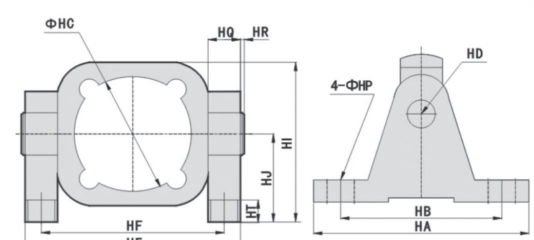
Sign \ Bore	32	40	50	63	80	100	125	160	200
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175
DC	32	36	45	50	63	70	90	115	135
DD	10	11	13	15	15	19	22	31	31
DE	10	12	12	06	06	20	25	30	30
DF	21	24	33	37	47	55	70	97	105
DJ	8	10	12	12	14	15	20	25	30
DQ	25.8	27.8	31.7	39.7	49.7	59.7	69.7	89.7	89.7

TC



Sign \ Bore	32	40	50	63	80	100	125	160	200
EB	100	113	125	140	160	182	210	264	314
EC	50	58	70	80	100	126	154	196	240
ED	32.5	38	46.5	56.5	72	89	110	140	175
EE	50	63	75	90	110	132	160	200	250
EG	25	25	25	25	25	25	25	32	32
EP	12	16	16	20	20	25	25	32	32
ET	20	24	28	28	28	28	36	40	40
S	36	45	55	68	86	106	132	170	40

TC-M

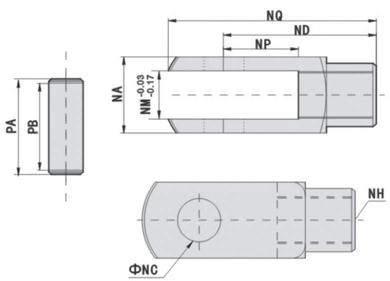


Sign \ Bore	32	40	50	63	80	100
HA	110	110	110	120	120	120
HB	80	80	80	80	80	80
HC	36	45	55	58	86	106
HD	22	22	22	22	22	22
HE	96	109	121	136	156	178
HF	73	86	98	113	133	155
HI	68.5	76.5	82	86	113	130
HJ	43.5	47.5	47	46	63	67
HQ	23	23	23	23	23	23
HR	2	2	2	2	2	2
HT	12	12	12	12	14	14
HP	12	12	12	12	14	14

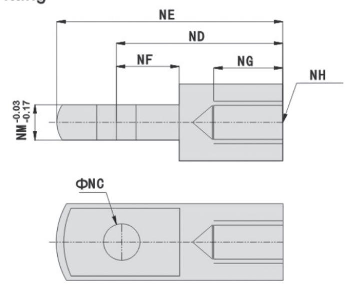
DNC/SI ISO6431 Standard Cylinder Brackets

Main Dimensions

Y Fitting

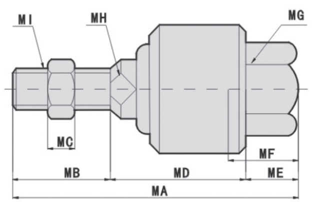


I Fitting



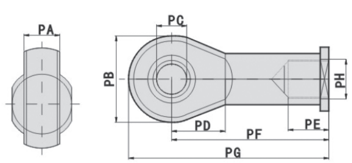
Bore \ Sign	NA	NC	ND	NE	NG	NF	NH	NM	NP	NQ	PA	PB
32	19	10	40	52	20	15	M10X1.25	10	20	52	26.2	20
40	25.4	12	48	67	20	24	M12X1.25	12	24	62	32.8	26.5
50	32	16	64	89	23	32	M16X1.5	16	32	83	39.3	33
63	32	16	64	89	23	32	M16X1.5	16	32	83	39.3	33
80	44.4	20	80	112	30	40	M20X1.5	20	40	105	53.3	45
100	44.4	20	80	112	30	40	M20X1.5	20	40	105	53.3	45
125	55	30	110	155	56	50	M27X2.0	30	54	148	64	55.6
160	70	35	144	201	72	50	M36X2.0	35	72	191	80	70.6
200	70	35	144	201	72	55	M36X2.0	35	72	191	80	70.6

Floating Fitting



Bore \ Sign	MA	MB	MC	MD	ME	MF	MG	MH	MI
32	73	20	6	45	8	26	M10X1.25	12	M10X1.25
40	77	24	7	46	7	26	M12X1.25	12	M12X1.25
50	106	32	8	62	12	34	M16X1.5	19	M16X1.5
63	106	32	8	62	12	34	M16X1.5	19	M16X1.5
80	122	40	10	68	14	42	M20X1.5	19	M20X1.5
100	122	40	10	68	14	42	M20X1.5	19	M20X1.5
125	147	54	13.5	77	16	40	M27X2.0	24	M27X2.0
160	251	72	18	161	18	78	M36X2.0	36	M36X2.0
200	251	72	18	161	18	78	M36X2.0	36	M36X2.0

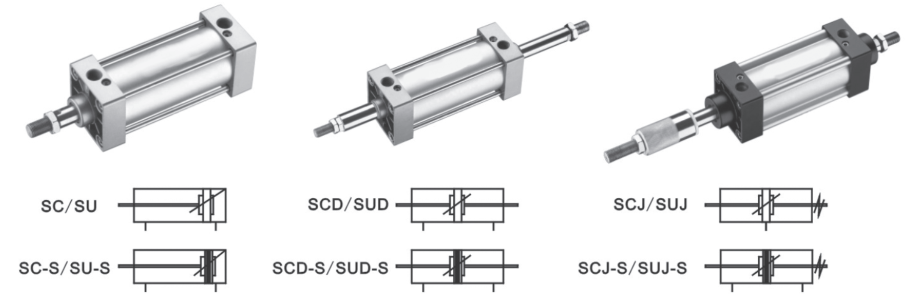
B- Fitting



Bore \ Sign	PA	PB	PC	PD	PE	PF	PG	PH
32	14	28	10	15	20	43	57	M10X1.25
40	16	32	12	17	22	50	66	M12X1.25
50	21	42	16	22	28	64	85	M16X1.5
63	21	42	16	22	28	64	85	M10X1.5
80	25	50	20	26	33	77	102	M20X1.5
100	25	50	20	26	33	77	102	M20X1.5
125	37	70	30	36	51	110	145	M27X2.0
160	43	80	35	41	56	125	165	M36X2.0
200	43	80	35	41	56	125	165	M36X2.0

RPK

SC/SU Series Standard Cylinder



Ordering Code SC\SU Series Standard Cylinder

SC 50 X 50 - S - 20 - LB

- SC: SC:Standard cylinder; SCD:Double-shaft type; SCJ : Double-shaft,adjustable stroke type
- 50: Bore
- 50: Stroke
- S: Magnet — Blank : No Magnet; S:With Magnet
- 20: Adjust Stroke — 10:10mm; 20:20mm; 30:30mm; 40:40mm; 50:50mm; 75:75mm; 100:100mm
- LB: Mounting type — Blank:Standard cylinder; LB:Leg mounting; FA/FB:Front rear plate mounting; CA:Single trunnion mounting; CB:Double trunnion mounting; TC-M:Centre Trunnion with mounting

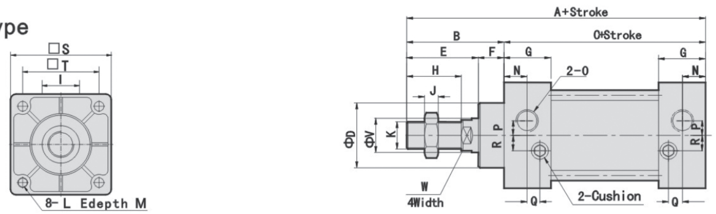
Specifications

Bore size(mm)		32	40	50	63	80	100	125	160	200
Acting type		Double Acting								
Working Medium		Clean air(40μm Filteration)								
Mounting type	SC\SU Series	Basic type FA FB CA CB LB TC TC-M								
	SCD\SUD Series	Basic type FA LB TC TC-M								
	SCJ\SUJ Series	Basic type FA LB TC TC-M								
Working pressure range		0.1~0.9Mpa								
Guaranteed pressure		1.5Mpa								
Working temperature		-5~70℃								
Speed range		50~800mm/s								
Cushion type		Adjustable cushion								
Cushion stroke		20				32				45
Port size		G1/8	G1/4		G3/8		G1/2		G3/4	

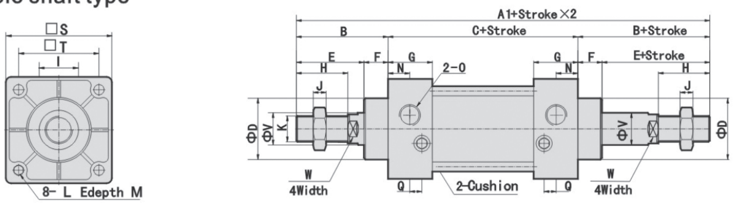
SC/SU Series Standard Cylinder

Main Dimensions

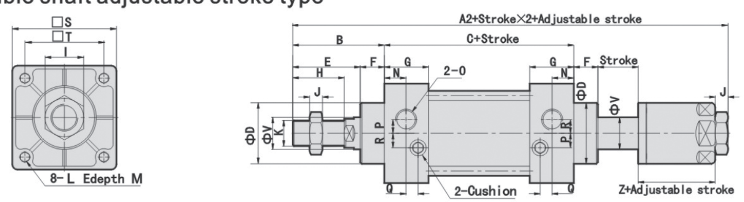
SC Basic type



SCD Double shaft type



SCJ Double shaft adjustable stroke type



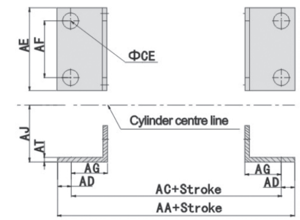
Bore \ Sign	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32	140	187	182	47	93	28	32	15	27.5	22	17	6	M10X1.25
40	142	191	185	48	93	32	34	15	27.5	24	17	7	M12X1.25
50	150	207	196	57	93	38	42	15	27.5	32	23	8	M16X1.5
63	153	210	199	57	96	38	42	15	27.5	32	23	8	M16X1.5
80	183	258	243	75	108	47	54	21	33	40	26	10	M20X1.5
100	183	258	243	75	108	47	54	21	33	40	26	10	M20X1.5
125	226	/	/	104	122	55	70	34	33	54	40	10	M27X2
160	291	/	/	123	168	62	91	32	48	72	55	18	M36X2
200	347	/	/	167	180	80	112	55	48	72	55	18	M36X2

Bore \ Sign	L	M	N	O	P	Q	R	S	T	V	W	Z
32	M6X1	9.5	13.5	G1/8	3.5	7.5	7	45	33	12	12	21
40	M6X1	9.5	13.5	G1/4	6	8.2	9	50	37	16	14	21
50	M6X1	9.5	13.5	G1/4	8.5	8.2	9	62	47	20	17	23
63	M8X1.25	9.5	13.5	G3/8	7	8.2	8.5	75	56	20	17	23
80	M10X1.5	11.5	16.5	G3/8	10	9.5	14	94	70	25	22	29
100	M10X1.5	11.5	16.5	G1/2	11	9.5	14	112	84	25	22	29
125	M12X1.75	15.5	16.5	G1/2	/	/	/	140	110	32	27	/
160	M16X2	17.5	25	G1/2	/	/	/	180	140	40	36	/
200	M16X2	17.5	25	G3/4	/	/	/	220	175	40	36	/

SC/SU Series Standard Cylinder Brackets

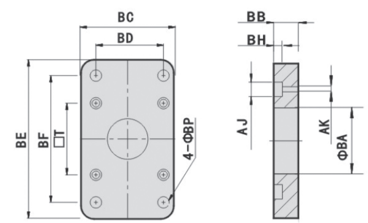
Main Dimensions

LB



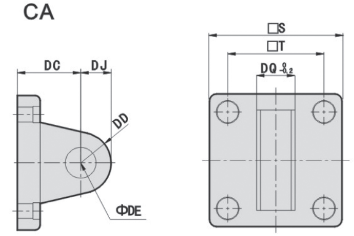
Sign \ Bore	32	40	50	63	80	100	125	160	200
AA	153	169	173	184	200	210	249	328	380
AC	134	140	149	158	168	174	213	288	320
AD	9.5	14.5	12	12	16	18	18	20	20
AE	50	57	68	80	97	112	140	180	220
AF	33	36	47	56	70	84	90	115	135
AG	20.5	23.5	28	31	30	30	45	60	70
AJ	28	30	36.5	41	49	57	90	115	135
AP	9	12	12	12	14	14	16	18	22
AT	3.2	3.2	3.2	3.2	4	4	8	8	10

FA/FB



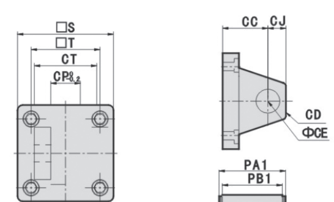
Sign \ Bore	32	40	50	63	80	100	125	160	200
BA	28.3	32.3	38.3	38.3	47.3	47.3	56	63	81
BB	10	10	10	12	16	16	20	25	25
BC	47	52	65	76	95	115	140	180	220
BD	33	36	47	56	70	84	90	115	135
BE	72	84	104	116	143	162	224	280	320
BF	58	70	86	98	119	138	180	230	270
BH	6.5	6.5	6.5	8.5	10.5	10.5	15	20	20
AJ	10.5	10.5	13.5	13.5	16.6	16.6	19	25	25
AK	6.5	6.5	8.5	8.5	10.5	10.5	12.5	16.5	16.5
BP	7	7	9	9	12	12	16	18	22
T	33	37	47	56	70	84	110	140	175

CA



Sign \ Bore	32	40	50	63	80	100	125	160	200
S	48	50	62	75	94	112	140	180	220
T	33	37	47	56	70	84	110	140	175
DC	34	34	34	34	48	48	50	55	60
DD	14	14	15	15	20	20	25	30	30
DE	12	14	14	14	20	20	25	30	30
DJ	14	14	15	15	20	20	25	30	30
DQ	16	20	20	20	32	32	70	90	90

CB



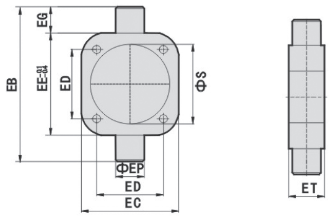
Sign \ Bore	32	40	50	63	80	100	125	160	200
CC	19	19	19	19	32	32	50	55	60
CD	5	5	3	3	8	8	25	30	30
CE	12	14	14	14	20	20	25	30	30
CJ	13	13	15	15	21	21	25	30	30
CP	16.3	20.5	20.3	20.3	32.3	32.3	70	90	90
CT	32	44	52	52	64	64	120	160	160
PA1	41	51.8	60.3	60.3	73.8	73.8	130	170	170
PB1	33.5	45.8	54	54	65.5	65.5	121.5	161.5	161.5
S	48	50	62	75	94	112	140	180	220
T	33	37	47	56	70	84	110	140	175

RPK

SC/SU Series Standard Cylinder Brackets

Main Dimensions

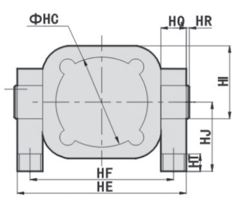
TC

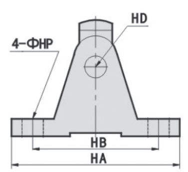


Sign \ Bore	40	50	63	80	100	125	160	200
EB	113	126	138	164	182	210	264	336
EC	63	76	88	114	132	160	200	240
ED	37	47	56	70	84	110	140	175
EE	63	76	88	114	132	160	200	240
EG	25	25	25	25	25	25	32	48
EP	25	25	25	25	25	25	32	48
ET	30	30	30	30	30	30	38	44
S	45.5	55.5	68.5	87.5	107.5	134.5	172.5	212.5

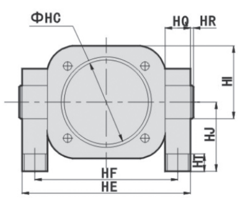
TC-M

For SU Series



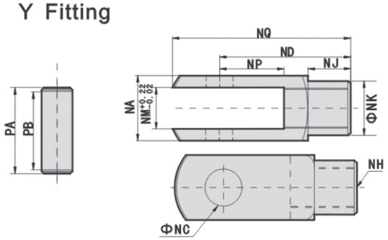


For SC Series

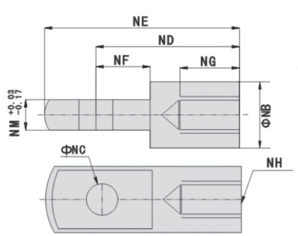


Bore \ Sign	HA	HB	HC	HD	HE	HF	HI	HJ	HQ	HR	HT	HP
40	110	80	45.5	22	109	86	81.5	50	23	2	12	12
50	110	80	55.5	22	122	99	88	50	23	2	12	12
63	110	80	68.5	22	134	111	94	50	23	2	12	12
80	120	85	87.5	22	160	137	127	70	23	2	14	14
100	120	85	107.5	22	178	155	136	70	23	2	14	14

Y Fitting



I Fitting



Bore \ Sign	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NM	NP	NQ	PA	PB
32	19	20	10	40	52	15	20	M10X1.25	12	18	10	20	52	25	19.5
40	25.4	24	12	48	67	24	20	M12X1.25	20	23	12	24	62	32.8	26.5
50	32	32	16	64	89	32	23	M16X1.5	22	30	16	32	83	39.3	33
63	32	32	16	64	89	32	23	M16X1.5	22	30	16	32	83	39.3	33
80	44.4	40	20	80	112	40	30	M20X1.5	30	39	20	40	105	53.3	45
100	44.4	40	20	80	112	40	30	M20X1.5	30	39	20	40	105	53.3	45
125	55	45	25	110	155	40	56	M27X2	30	54	48	64	148	64	55
160	80	54	30	120	130	35	50	M36X2	40	54	40	35	150	91	81
200	80	54	30	120	130	35	50	M36X2	40	54	40	35	150	91	81

MB Series Standard Cylinder

Ordering Code

MB Series Standard Cylinder

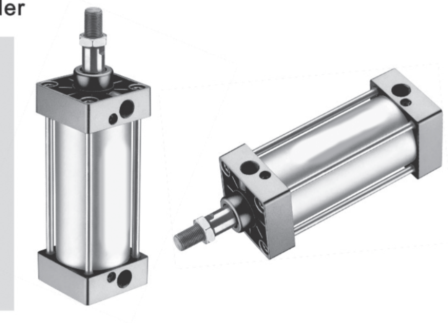
M□ B □ 32 - 50

Magnet
Blank : No Magnet
D:With Magnet

Mounting type
B:Standard cylinder

Bore
32:Φ32mm
40:Φ40mm
50:Φ50mm
63:Φ63mm
80:Φ80mm
100:Φ100mm
125:Φ125mm

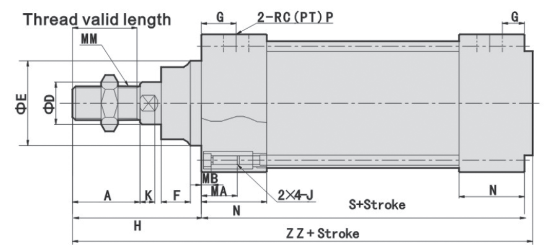
Stroke

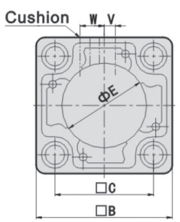


Specifications

Bore size(mm)	32	40	50	63	80	100	125
Working medium	Clean air(40μm Filteration)						
Acting type	Double acting						
Max Pressure	1.0Mpa						
Min Pressure	0.05Mpa						
Speed range (mm/s)	50~1000						50~700
Cushion	Cushion Both Side						
Oil	No Need						
Port size	G1/8	G1/4		G3/8		G1/2	

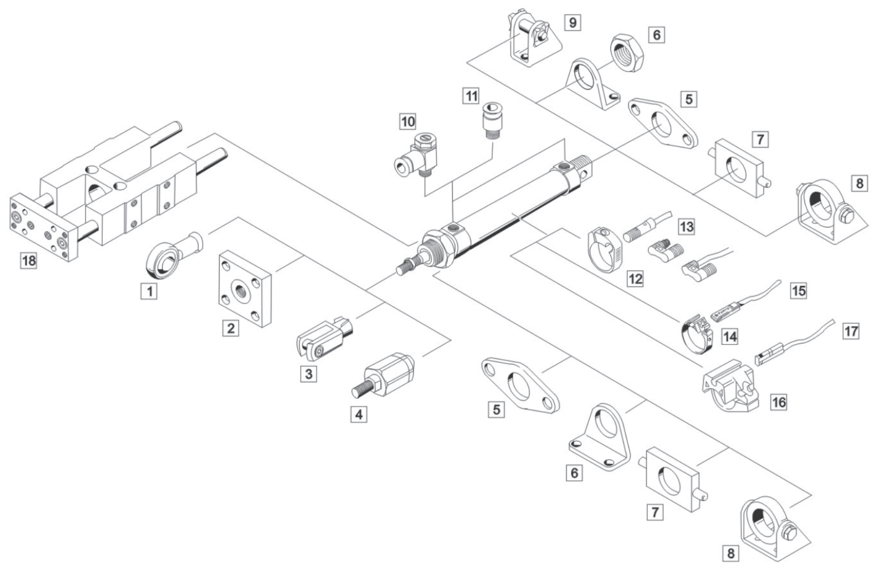
Main Dimensions





Bore	Stroke range	Thread valid length	A	□B	□C	ΦD	ΦE	F	G	MA	MB	J	K	MM	N	P	S	V	W	H	ZZ
32	~500	19.5	22	46	32.5	12	30	13	13	16	4	M6X1.0	6	M10X1.25	27	1/8	84	4	6.5	47	135
40	~500	27	30	52	38	16	35	13	14	16	4	M6X1.0	6	M14X1.5	27	1/4	84	4	9	51	139
50	~600	32	35	65	46.5	20	40	14	15.5	16	5	M8X1.25	7	M18X1.5	31.5	1/4	94	5	10.5	58	156
63	~600	32	35	75	56.5	20	45	14	16.5	16	5	M8X1.25	7	M18X1.5	31.5	3/8	94	9	12	58	156
80	~800	37	40	95	72	25	45	20	19	16	5	M10X1.5	10	M22X1.5	38	3/8	114	11.5	14	72	190
100	~800	37	40	114	89	30	55	20	19	16	5	M10X1.5	10	M26X1.5	38	1/2	114	17	15	72	190
125	~1000	50	54	136	110	32	60	27	19	20	6	M12X1.75	13	M27X2.0	38	1/2	120	17	15	97	223

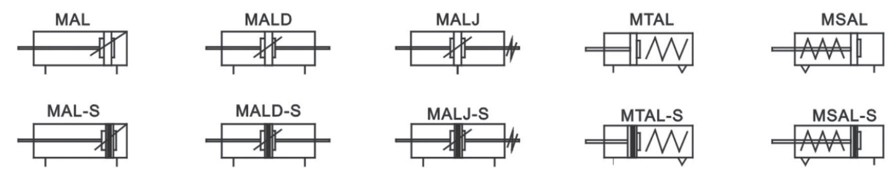
Cylinder Peripheral Component



Air cylinder theory force table

Bore(mm)		16			20			25			32			40			50		63	
OD of rod(mm)		6			8			10			12			16			16		16	
Acting type		Single Acting Spring Extend	Double Acting		Single Acting Spring Extend	Double Acting		Single Acting Spring Extend	Double Acting		Single Acting Spring Extend	Double Acting		Single Acting Spring Extend	Double Acting		Double Acting		Double Acting	
			Push force	Pull force		Push force	Pull force		Push force	Pull force		Push force	Pull force		Push force	Pull force	Push force	Pull force	Push force	Pull force
Actual working area(mm^2)		201	201	181	314	314	264	490	490	412	804	804	690	1256	1256	1055	1963	1762	3116	2915
Working pressure (Mpa)	0.1	-	20.1	18.1	-	31.4	26.4	-	49.0	41.2	-	80.4	69.0	-	125.6	105.5	196.3	176.2	311.6	291.5
	0.2	-	40.2	36.2	15.7	62.8	52.8	24.5	98.0	82.4	40.2	160.8	138.0	62.8	251.2	211.0	392.6	352.4	487.8	603.1
	0.3	20.1	60.3	54.3	47.1	94.2	79.2	73.5	147.0	123.6	120.6	241.2	207.0	188.4	376.8	316.5	588.9	528.6	799.4	894.6
	0.4	40.2	80.4	72.4	78.5	125.6	105.6	122.5	196.0	164.8	201.0	321.6	276.0	314.0	502.4	422.0	785.2	704.8	1111	1186
	0.5	60.3	100.5	90.5	109.9	157.0	132.0	171.5	245.0	206.0	281.4	402.0	345.0	439.6	628.0	527.5	981.5	881.0	1422	1477
	0.6	80.4	120.6	108.6	141.3	188.4	158.4	220.5	294.0	247.2	361.8	482.4	414.0	565.2	753.6	633.0	1177	1057	1734	1769
	0.7	100.4	140.7	126.7	172.7	219.8	184.8	269.5	343.0	288.4	442.2	562.8	483.0	690.8	879.2	738.5	1374	1233	2045	2060
	0.8	-	-	-	204.1	251.2	211.2	318.5	392.0	329.6	522.6	643.2	552.0	816.4	1004	844.0	1570	1409	2357	2352
	0.9	-	-	-	235.5	282.6	237.6	367.5	441.0	370.8	603.0	723.6	621.0	942.0	1130	949.5	1766	1585	2669	2643

MAL Series Mini Cylinder



Ordering Code MAL Series Mini Cylinder

MAL - CM 20 X 50 - 20 - S - LB

MAL: Double Acting
MSAL: Spring Extend
MTAL: Spring Return
MALD: Double Shaft Acting
MALJ: Adjustable cushion type

CA: Swivelling tail
CM: Round tail
U: Flat tail

Bore

Stroke

Adjust Stroke
10:10mm
20:20mm
30:30mm
40:40mm
50:50mm
75:75mm
100:100mm

Magnet
Blank : No Magnet
S: With Magnet

Mounting type
Blank: Standard cylinder
LB: Leg mounting
FA: Front rear plate mounting
SDB: Trunnion bracket mounting

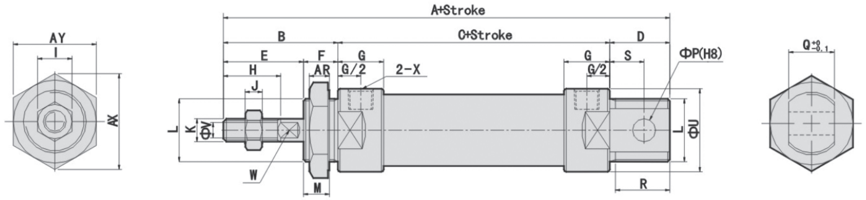
Specifications

Bore size(mm)	16	20	25	32	40
Acting type	MAL、MALD、MALJ Series: Double acting; MSAL、MATL Series: Single Acting				
Working medium	Clean air(40μm Filteration)				
Mounting type	MAL、MSAL、MATL Series: Basic type LB FA SDB; MALD、MALJ Series: Basic type LB FA				
Working pressure range	MAL、MALD、MALJ Series: 0.1~0.9Mpa; MSAL、MATL Series: 0.2~0.9Mpa				
Guaranteed pressure	1.5Mpa				
Working temperature	-5~70℃				
Speed range	MAL Series: 30~800mm/s; Other Series: 50~800mm/s				
Port size	M5X0.8	G1/8			G1/4

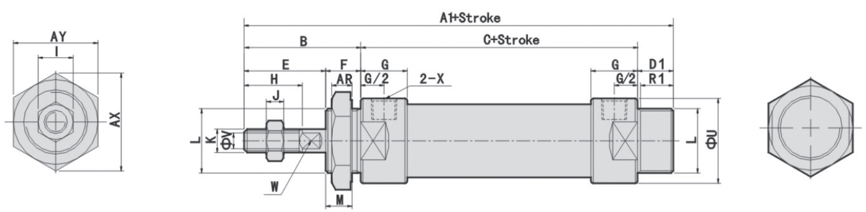
MAL Series Mini Cylinder

Main Dimensions

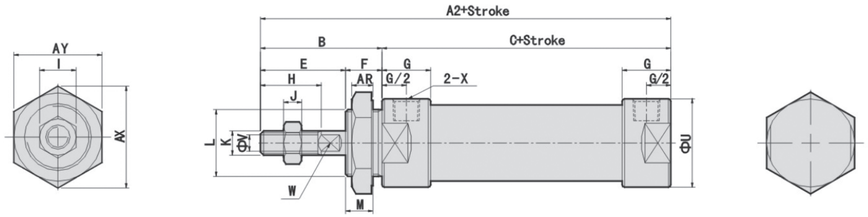
MAL-CA Swivelling Tail



MAL-CM Flat tail



MAL-U Round Tail



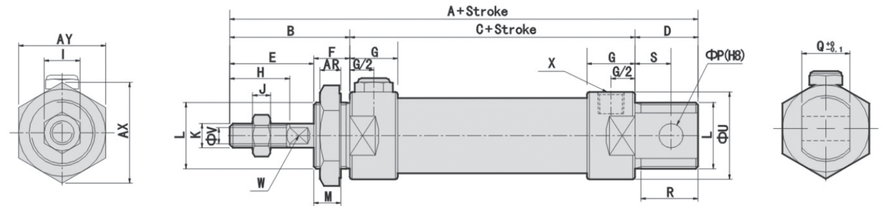
Bore \ Sign	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	104	104	90	38	52	15	15	24	14	11	16	10	5	M6x1
20	131	122	110	40	70	21	12	28	12	16	20	12	6	M8x1.25
25	135	128	114	44	70	21	14	30	14	16	22	17	6	M10x1.25
32	141	128	114	44	70	27	14	30	14	16	22	17	6	M10x1.25
40	165	152	138	46	92	27	14	32	14	22	24	17	7	M12x1.25

Bore \ Sign	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16x1.5	8	6	12	13	/	6	20	6	/	M5	7	24	27.5
20	M22x1.5	10	8	16	19	10	12	29	8	6	G1/8	7	33	29
25	M22x1.5	12	8	16	19	12	12	34	10	8	G1/8	7	33	29
32	M24x2.0	12	10	16	25	12	15	39.5	12	10	G1/8	8	37	32
40	M30x2.0	12	12	20	25	12	15	49.5	16	14	G1/4	9	47	41

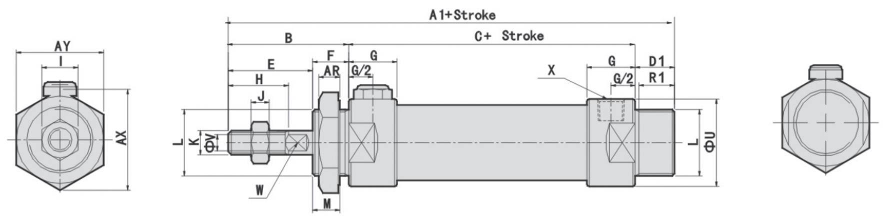
MAL Series Mini Cylinder

Main Dimensions

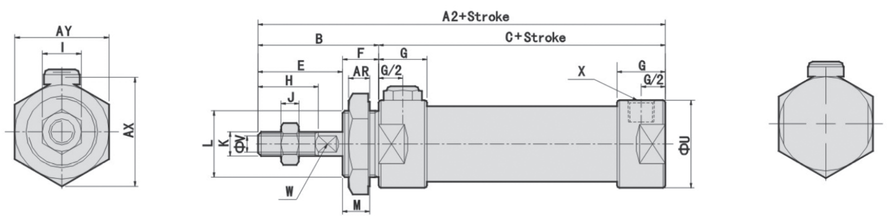
MSAL-CA Single Swivelling Tail



MSAL-CM Single Flat tail



MSAL-U Single Round Tail



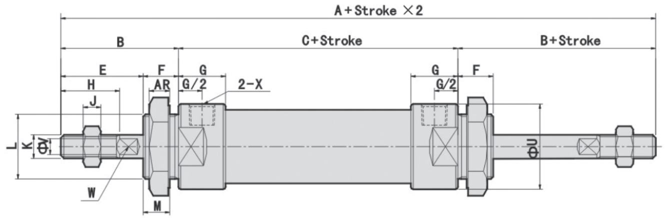
Sign	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
Bore/Stroke	0~50	51~100	0~50	51~100	0~50	51~100		0~50	51~100								
20	131	156	122	147	110	135	40	70	95	21	12	28	12	16	20	12	6
25	135	160	128	153	114	139	44	70	95	21	14	30	14	16	22	17	6
32	141	166	128	153	114	139	44	70	95	27	14	30	14	16	22	17	6
40	165	190	152	177	138	163	46	92	117	27	14	32	14	22	24	17	7

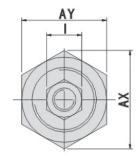
Bore \ Sign	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8X1.25	M22X1.5	10	8	16	19	10	12	29	8	6	G1/8	7	33	29
25	M10X1.25	M22X1.5	12	8	16	19	12	12	34	10	8	G1/8	7	33	29
32	M10X1.25	M24X2.0	12	10	16	25	12	15	39.5	12	10	G1/8	8	37	32
40	M12X1.25	M30X2.0	12	12	20	25	12	15	49.5	16	14	G1/4	9	47	41

MAL Series Mini Cylinder

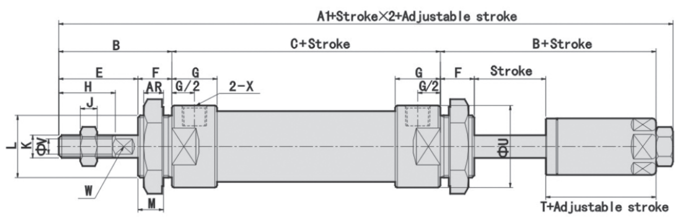
Main Dimensions

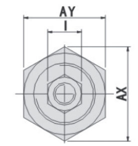
MALD Double shaft type





MALJ Double shaft adjustable stroke type

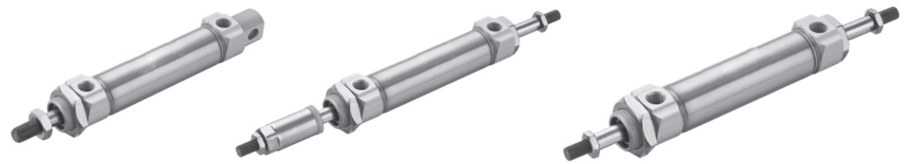


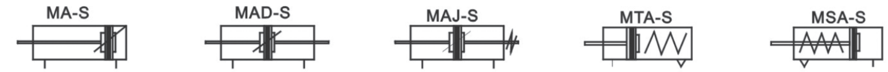


Bore \ Sign	A	A1	B	C	E	F	G	H	I	J	K
20	131	122	40	70	28	12	16	20	12	6	M8X1.25
25	135	128	44	70	30	14	16	22	17	6	M10X1.25
32	141	128	44	70	30	14	16	22	17	6	M10X1.25
40	165	152	46	92	32	14	22	24	17	7	M12X1.25

Bore \ Sign	L	M	U	V	W	X	AR	AX	AY	T
20	M22X1.5	10	29	8	6	G1/8	7	33	29	19
25	M22X1.5	12	34	10	8	G1/8	7	33	29	21
32	M24X2.0	12	39.5	12	10	G1/8	8	37	32	21
40	M30X2.0	12	49.5	16	14	G1/4	9	47	41	21

MA Series Mini Cylinder





Ordering Code MA Series Mini Cylinder

MA U 20 X 50 - 20 - LB

MA: Double Acting
MAD:Double Shaft Acting
MAJ:Double Shaft Adjustable cushion type
MAC:Double Acting cushion type
MSA:Spring Extend
MTA:Spring Return

CA:Swivelling tail
CM:Round tail
U: Flat tail

Bore

Stroke

Adjust Stroke
10:10mm
20:20mm
30:30mm
40:40mm
50:50mm
75:75mm
100:100mm

Mounting type
Blank:Standard cylinder
LB:Leg mounting
FA:Front rear plate mounting
SDB:Trunnion bracket mounting

Specifications

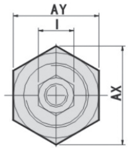
Bore size(mm)		16	20	25	32	40	50	63
Acting type	MA、MAC、MAD、MAJ	Double acting						
	MSA、MTA	Single Acting					–	
Working medium		Clean air(40μm Filteration)						
Mounting type		MA、MAC、MSA、MTA Series:Basic type LB FA SDB					Basic type	
		MAD、MAJ Series:Basic type LB FA						
Working pressure range		MA、MAC、MAD、MAJ : 0.1~0.9Mpa; MSA、MTA:0.2~0.9Mpa						
Guaranteed pressure		1.5Mpa						
Working temperature		5~70℃						
Speed range		MA、MAC : 50~800mm/s ; MSA、MTA、MAD、MAJ : 30~800mm/s					MA、MAC、MSA、MTA: 30~500mm/s MAD、MAJ:30~800mm/s	
Cushion type	Standard Type	Fixed cushion						
	Cushion	–	Adjustable cushion					
Port size		M5X0.8	G1/8				G1/4	

RPK

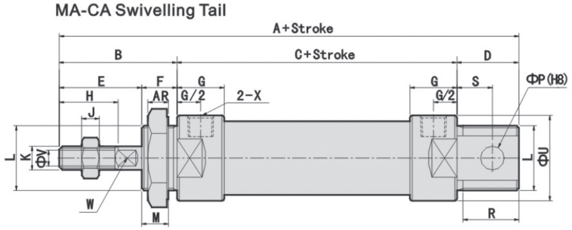
MA Series Mini Cylinder

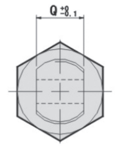
Main Dimensions

Φ16~Φ40

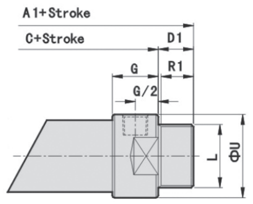


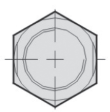
MA-CA Swivelling Tail



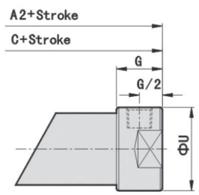


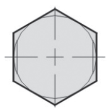
MA-CM Flat Tail





MA-U Round Tail



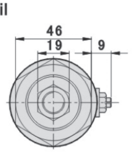


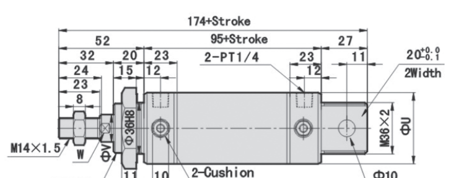
Bore \ Sign	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	114	114	98	38	60	16	15	22	16	10	16	10	5	M6X1
20	137	128	116	40	76	21	12	28	12	16	20	12	6	M8X1.25
25	141	134	120	44	76	21	14	30	14	16	22	17	6	M10X1.25
32	147	134	120	44	76	27	14	30	14	16	22	17	6	M10X1.25
40	149	136	122	46	76	27	14	32	14	16.7	24	17	7	M12X1.25

Bore \ Sign	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16X1.5	14	6	12	14	14	9	21	6	5	M5	6	25	22
20	M22X1.5	10	8	16	19	12	12	27	8	6	G1/8	7	33	29
25	M24X1.5	12	8	16	19	14	12	30	10	8	G1/8	7	33	29
32	M24X2.0	12	10	16	25	14	15	35	12	10	G1/8	8	37	32
40	M30X2.0	12	12	20	25	14	15	41.6	16	14	G1/8	9	47	41

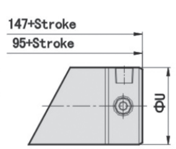
Φ50 Φ63

Swivelling Tail

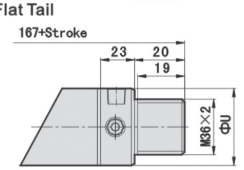




Round Tail



Flat Tail

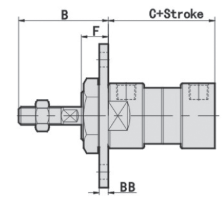


Bore \ Sign	U	V
50	53	16
63	67	16

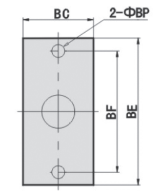
MAL/MA Series Mini Cylinder Brackets

Main Dimensions

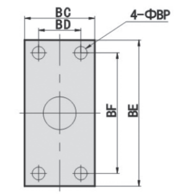
FA



Φ20~Φ25

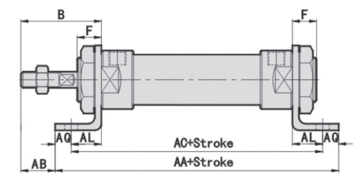


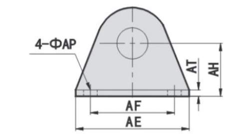
Φ32~Φ40



Sign / Bore/Stroke	B	C (MA Series)	C (MSA Series) 0~50	C (MSA Series) 51~100	C (MALSeries)	C (MSALSeries) 0~50	C (MSALSeries) 51~100	BB	BC	BD	BE	BF	BP	F
16	38	60	60	85	-	-	-	3	26	–	52	40	5.5	16
20	40	76	76	101	70	70	95	4	38	–	64	50	6.5	12
25	44	76	76	101	70	70	95	4	38	–	64	50	6.5	14
32	44	76	76	101	70	70	95	4	47	33	72	58	6.5	14
40	46	76	76	101	92	92	117	4	50	36	84	70	6.5	14

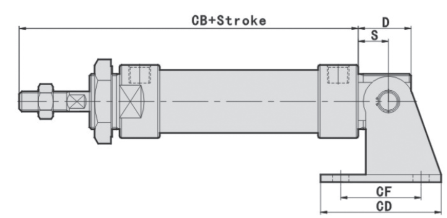
LB

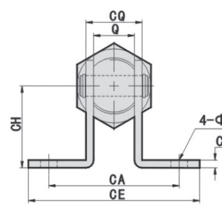




Sign / Bore/Stroke	B	F	AA (MA Series)	AA (MSA Series) 0~50	AA (MSA Series) 51~100	AB	AC (MA Serices)	AC (MSA Series) 0~50	AC (MSA Series) 51~100	AA (MALSerices)	AA (MSALSeries) 0~50	AA (MSALSeries) 51~100	AC (MALSerices)	AC (MSAL Serices) 0~50	AC (MSAL Serices) 51~100	AE	AF	AL	AQ	AP	AT	AH
16	38	16	98	98	123	25	86	86	111	-	-	-	-	-	-	44	32	13	6	5.5	3	20
20	40	12	122	122	147	25	106	106	131	116	116	141	100	100	125	54	40	15	8	6.5	3	25
25	44	14	122	122	147	29	106	106	131	116	116	141	100	100	125	54	40	15	8	6.5	3	25
32	44	14	142	142	167	19	126	126	151	136	136	161	120	120	145	59	45	25	8	6.5	4	32
40	46	14	142	142	167	21	126	126	151	158	158	183	142	142	167	64	50	25	8	6.5	4.5	36

SDB



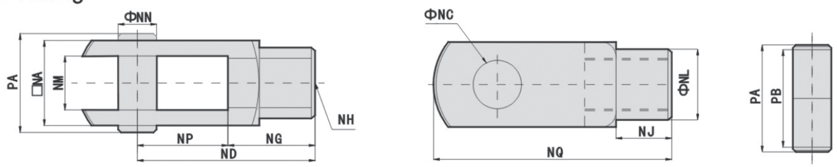


Sign / Bore/Stroke	D	S	Q	CA	CB (MA Serices)	CB (MSA Series) 0~50	CB (MSA Series) 51~100	CB (MALSerices)	CB (MSALSeries) 0~50	CB (MSALSeries) 51~100	CD	CE	CF	CH	CT	CP	CQ
16	16	9	12	–	107	107	132	-	-	-	23	-	12	20	2.3	5.5	16.5
20	21	12	16	51	128	128	153	122	122	147	48	67	32	32	3	6.5	22
25	21	12	16	51	132	132	157	126	126	151	48	67	32	32	3	6.5	22
32	27	15	16	51	135	135	160	129	129	154	52	67	36	36	4	6.5	24
40	27	15	20	55	137	137	162	153	153	178	56	71	40	40	4	6.5	28

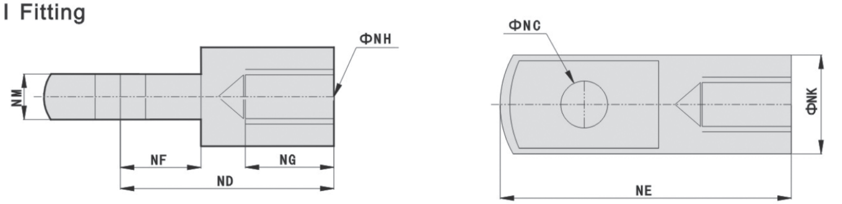
MAL/MA Series Mini Cylinder Brackets

Main Dimensions

Y Fitting

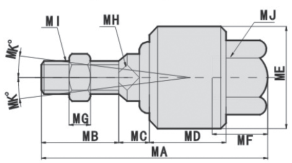


I Fitting



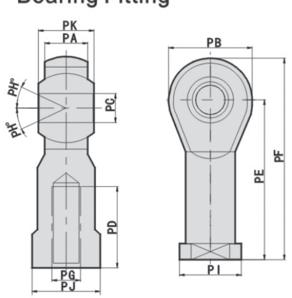
Bore \ Sign	NA	NC	ND	NE	NF	NG	NH	NJ	NK	NL	NM	NN	NP	NQ	PA	PB
16	12	3.5	12	28	8.5	12.5	M6X1	7	12	12	6	5	8.5	28	17	12.5
20	16	8	30	40	11	15	M8X1.25	10	16	14	8	8	15	40	21	16.5
25	19	10	40	52	15	20	M10X1.25	12	20	18	10	10	20	52	25	19.5
32	19	10	40	52	15	20	M10X1.25	12	20	18	10	10	20	52	25	19.5
40	25.4	10	48	67	15	25	M12X1.25	20	24	23	14	10	20	57	31	26

Floating Fitting



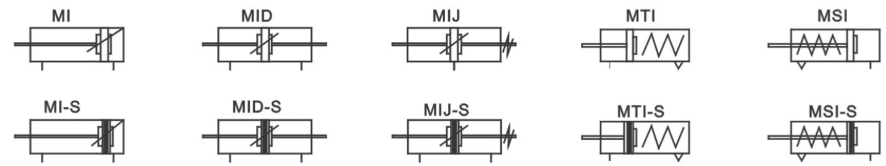
Bore \ Sign	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK
20	51	20	6	17	24	11.5	6	8	M8X1.25	M8X1.25	13
25	58	22	7	21	26	11.5	7	10	M10X1.25	M10X1.25	12
32	58	22	7	21	26	11.5	7	10	M10X1.25	M10X1.25	12
40	58	22	8	21	28	11.5	8	12	M12X1.25	M12X1.25	12
50	70	22.5	8.5	28	34.5	13	8	15	M14X1.5	M14X1.5	13
63	70	22.5	8.5	28	34.5	13	8	15	M14X1.5	M14X1.5	13

Bearing Fitting



Bore \ Sign	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK
20	9	24	8	16	36	48	M8X1.25	13	16	14	12
25	11	26	10	20	43	56	M10X1.25	13	19	17	14
32	11	26	10	20	43	56	M10X1.25	13	19	17	14
40	12	32	12	24	50	66	M12X1.25	13	22	19	16
50	15	40	16	28	64	84	M16X1.5	15	27	22	21
63	15	40	16	28	64	84	M16X1.5	15	27	22	21

MI Series Mini Cylinder



Ordering Code

MI Series Mini Cylinder

MI 16 x 40 - S - CA

Bore

Stroke

Magnet

MI: Double Basic Type
MID:Double Shaft Type
MIJ:Double Shaft Adjustable Type
MSI:Spring Extend
MTI:Spring Return
MIC:Double Adjustable Cushion

Blank : No Magnet
S:With Magnet

CA:Swivelling tail
U:Flat tail
CM:Round tail

Mark: According to ISO6432 CETOPRP52P Standard

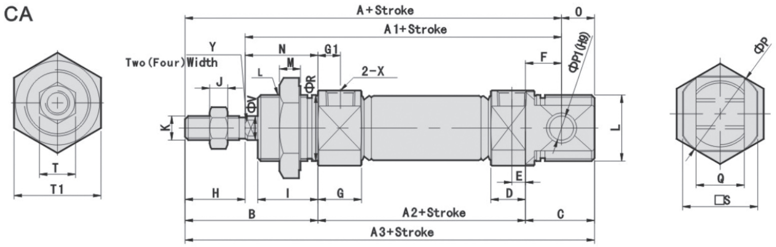
Specifications

Bore size(mm)		8	10	12	16	20	25	32	40
Acting type		Double acting、Single acting spring extend、Single acting sping return							
Working medium		Clean air(40μm Filteration)							
Working pressre range	Double acting	0.05~0.7Mpa							
	Single Acting	0.2~0.7Mpa							
Guaranteed pressure		1.5Mpa							
Working temperature		-5~70℃							
Speed range		50~750mm/s							
Cushion type		MIC Series : Adjustable Cuhion Other Series : Anti-bump cushion							
Material		Stainless steel barrel							
Port size		M5X0.8				G1/8			G1/4

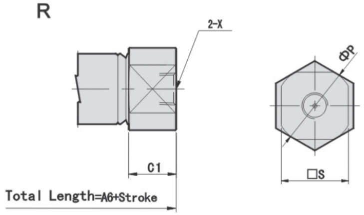
MI Series Mini Cylinder

Main Dimensions

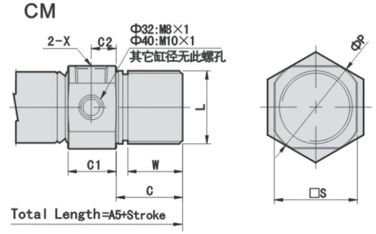
CA



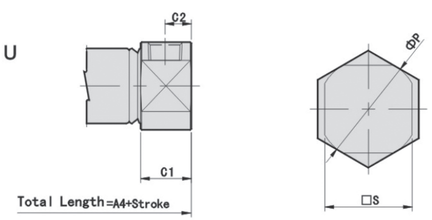
R



CM



U



Bore \ Sign	A	A1	A2	A3	A4	A5	A6	B	C	C1	C2	D	E	F	G	G1	H	I
8	76	64	46	86	74	-	-	28	12	9.5	5	9.5	5	6	11.5	7	12	12
10	76	64	46	86	74	-	-	28	12	9.5	5	9.5	5	6	11.5	7	12	12
12	91	75	50	105	88	-	-	38	17	10.5	6	10.5	6	9	12.5	8	16	17
16	98	82	56	111	94	111	94	38	17	10.5	6	10.5	6	9	12.5	8	16	17
20	115	95	62	126	106	126	106	44	20	14.5	7.5	14.5	7.5	12	14.5	7.5	20	20
25	126	104	65	137	115	137	114.5	50	22	15.5	8	16	8	12	16	8	22	22
32	-	-	-	-	125	140	126	58	14	15.5	8	-	-	-	16.5	9	20	30
40	-	-	-	-	158	174	158	69	16	22	11.5	-	-	-	22	12	24	35

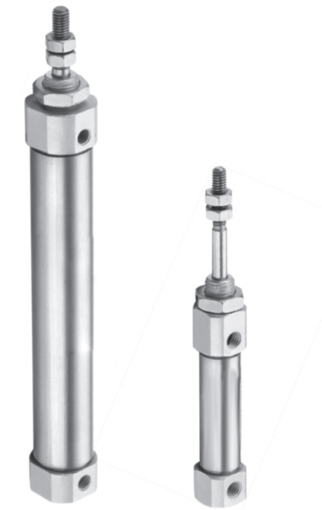
Bore \ Sign	J	K	L	M	N	O	P	P1	Q	R	S	T	T1	X	V	W	Y
8	2.5	M4X0.7	M12X1.25	6	16	10	17	4	8	12	15	7	17	M5X0.8	4	-	-
10	2.5	M4X0.7	M12X1.25	6	16	10	17	4	8	12	15	7	17	M5X0.8	4	-	-
12	5	M6X1.0	M16X1.5	6	22	14	20	6	12	16	18	10	22	M5X0.8	6	-	5
16	5	M6X1.0	M16X1.5	6	22	13	22	6	12	16	20	10	22	M5X0.8	6	13.5	5
20	6	M8X1.25	M22X1.5	7	24	11	29	8	16	22	25	12	29	G1/8	8	16.5	6
25	6	M10X1.25	M22X1.5	7	28	11	33.5	8	16	22	30	17	29	G1/8	10	18.5	8
32	6	M10X1.5	M30X1.5	7	38	-	37.5	-	-	30	34.5	17	36	G1/8	12	10.5	10
40	7	M12X1.75	M38X1.5	8	45	-	46.5	-	-	38	42.5	17	46	G1/4	16	12.5	14

CJ2B Series Mini Cylinder

Ordering Code

C□J2B □ 6 - 15 - R

- **Magnet**: Blank : No Magnet; D:With Magnet
- **Double acting**: Blank:Basic type; S:Single acting Spring Extend; T:Single acting Spring Return
- **Bore**: 6:Φ6; 10:Φ10; 16:Φ16
- **Stroke**: 0~1000mm
- **Join Type**: Blank:vertiacl; R:horizontal



Specifications

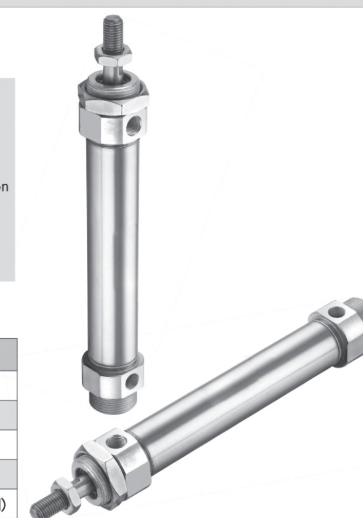
Bore size(mm)	6	10	16
Working medium	Clean air(40μm Filteration)		
Guaranteed pressure	1.05Mpa		
Max Working pressure	0.7Mpa		
Min Working pressure	0.12Mpa	0.06Mpa	
Working pressure range	-10~70℃		
Speed range	50~750mm/s		
Cushion type	Rubber Cushion		
Tolerance of stroke	±1.0mm		

CDM2B Series Mini Cylinder

Ordering Code

CDM2B □ - 20 x 50 - □

- **Magnet**: Normal:with magnet
- **Double acting**: Blank:Basic type; S:Single acting Spring Extend; T:Single acting Spring Return
- **Bore**: 20~40mm
- **Stroke**: 0~1000mm
- **Cushion**: Blank:Rubber cushion; A:Air cushion

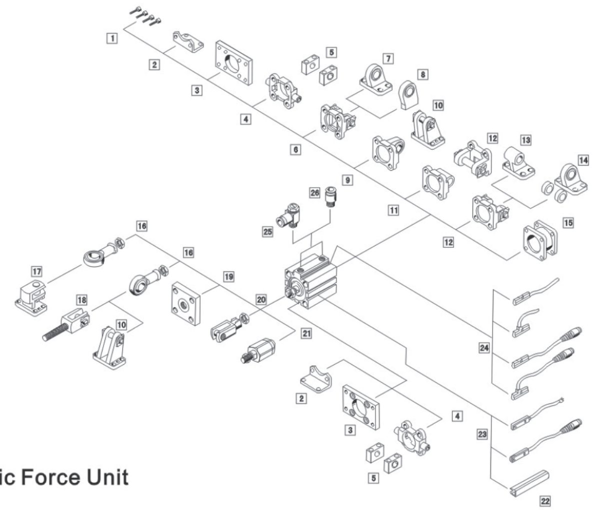


Specifications

Bore size(mm)	20	25	32	40
Working medium	Clean air(40μm Filteration)			
Acting type	Double acting			
Working pressure	0.05~1.0Mpa			
Working Temperature	-10~70℃			
Cushion type	Rubber Cushion (Standard), Air Cushion (Optional)			
Speed range	Min: 10mm/s		Max: 1000mm/s	

RPK

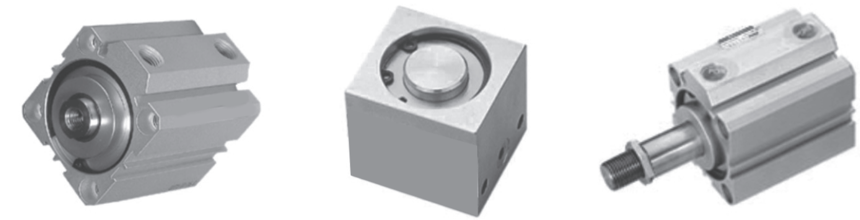
Cylinder Peripheral Component

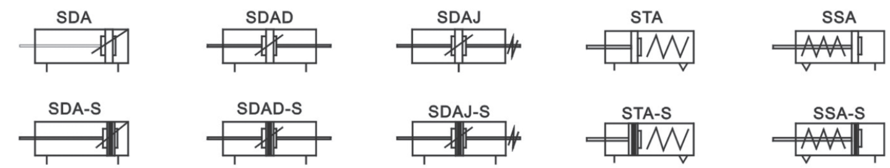


Cylinder Theoretic Force Unit

Bore (mm)	Piston Size (mm)	Acting Type		Pressure Square (mm²)	Air Pressure(Mpa) 0.1	0.2	0.3	0.4	0.5	0.6	0.7
12	6	Single Acting Spring Extend		113	-	7.0	18.3	29.6	40.9	52.2	63.5
		Single Acting Spring Return		85	-	1.4	9.9	18.4	26.9	35.4	43.9
		Double Acting	Press Side	113	-	22.6	33.9	45.2	56.5	67.8	79.1
			Pull Side	85	-	1.7	25.5	3.4	42.5	5.1	59.5
16	6	Single Acting Spring Extend		201	-	13.6	33.7	53.8	73.9	94.0	114.1
		Single Acting Spring Return		173	-	8.0	25.3	42.6	59.9	77.2	94.5
		Double Acting	Press Side	201	-	40.2	60.3	80.4	100.5	120.6	140.7
			Pull Side	173	-	34.6	51.9	69.2	86.5	103.8	121.1
20	8	Single Acting Spring Extend		314	-	28.7	60.1	91.5	122.9	154.3	185.7
		Single Acting Spring Return		264	-	18.7	45.1	71.5	97.9	124.3	150.7
		Double Acting	Press Side	314	-	62.8	94.2	125.6	157.0	188.4	219.8
			Pull Side	264	-	52.8	79.2	105.6	132.0	158.4	184.8
25	10	Single Acting Spring Extend		490	-	58.0	107.0	156.0	205.0	254.0	303.0
		Single Acting Spring Return		412	-	42.4	83.6	124.8	166.0	207.2	248.4
		Double Acting	Press Side	490	-	98.0	147.0	196.0	245.0	294.0	343.0
			Pull Side	412	-	82.4	123.6	164.8	206.0	247.2	288.4
32	12	Single Acting Spring Extend		804	-	112.1	192.5	272.9	353.3	433.7	514.1
		Single Acting Spring Return		690	-	89.3	158.3	227.3	296.3	365.3	434.3
		Double Acting	Press Side	804	-	160.8	241.2	321.6	402.0	482.4	562.8
			Pull Side	690	-	138.0	207.0	276.0	345.0	414.0	483.0
40	16	Single Acting Spring Extend		1256	-	200.8	326.4	452.0	577.6	703.2	828.8
		Single Acting Spring Return		1055	-	160.6	266.1	371.6	477.1	582.6	688.1
		Double Acting	Press Side	1256	125.6	251.2	376.8	502.4	628.0	753.6	879.2
			Pull Side	1055	105.5	211.0	316.5	422.0	527.5	633.0	738.5
50	20	Double Acting	Press Side	1963	196.3	392.6	588.9	785.2	981.5	1177.8	1374.1
			Pull Side	1649	164.9	329.8	494.7	659.6	824.5	989.4	1154.3
63	20	Double Acting	Press Side	3117	311.7	623.4	935.1	1246.8	1558.5	1870.2	2181.9
			Pull Side	2803	280.3	560.6	840.9	1121.2	1401.5	1681.8	1962.1
80	25	Double Acting	Press Side	5026	502.6	1005.2	1507.8	2010.4	2513.0	3015.6	3518.2
			Pull Side	4536	453.6	907.2	1360.8	1814.4	2268.0	2721.6	3175.2
100	32	Double Acting	Press Side	7853	785.3	1570.6	2355.9	3141.2	3926.5	4711.8	5497.1
			Pull Side	7049	704.9	1409.8	2114.7	2819.6	3524.5	4229.4	4934.3

SDA Series Compact Cylinder





Ordering Code SDA Series Compact Cylinder

SDA - S 20 X 30 - 20 - B

Magnet
Blank : No Magnet
S:With Magnet

Bore

Stroke

Adjustable Stroke
10:10mm
20:20mm
30:30mm
40:40mm
50:50mm
75:75mm
100:100mm

Thread
Blank:Female thread
B:Nake thread
N:No Thread

SDA:Double Acting Type
SSA:Single Acting Spring Extend
STA:Single Acting Spring Return
SDAD:Double Shaft Type
SDAJ:Double Shaft Double Acting Adjustable Type

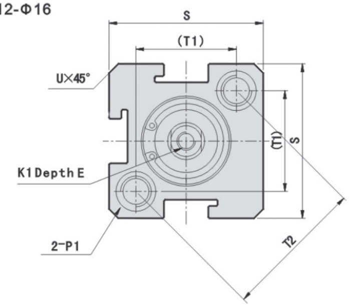
Specifications

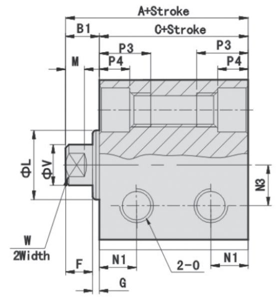
Bore size(mm)		12	16	20	25	32	40	50	63	80	100
Acting type		Double acting									
		Single Action Spring Extend、Single Action Spring Return								-	
Working medium		Clean air(40μm Filteration)									
Working pressure range	Double Acting	0.1~0.9Mpa									
	Single Acting	0.2~0.9Mpa								-	
Guaranteed pressure		1.5Mpa(213Psi)									
Working temperature		-5~70℃									
Speed range	Double Acting	30~500mm/s						30~350mm/s		30~250mm/s	
	Single Acting	100-500mm/s						-			
Cushion type		Fixed Cushion									
Port size		M5X0.8				G1/8		G1/4		G3/8	

SDA Series Compact Cylinder

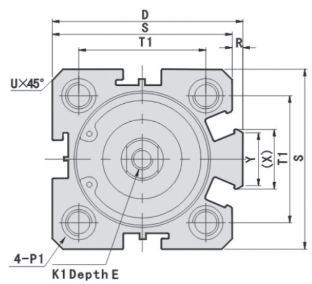
Main Dimensions SDA/SDAS (Double Acting Type)

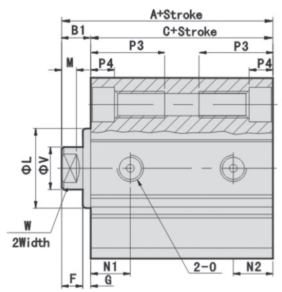
Φ12-Φ16





Φ20-Φ100





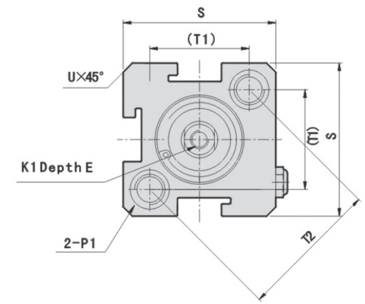
Model	Standard			With Magnet			D	E	F	G	K1	L	M	N1		N2	
Bore/Sign	A	B1	C	A	B1	C								S=5	S>5	S=5	S>5
12	22	5	17	32	5	27	-	6	4	1	M3X0.5	10.2	2.8	6.3		6.3	
16	24	5.5	18.5	34	5.5	28.5	-	6	4	1.5	M3X0.5	11	2.8	7.3		7.3	
20	25	5.5	19.5	35	5.5	29.5	36	8	4	1.5	M4X0.7	15	2.8	7.5		7.5	
25	27	6	21	37	6	31	42	10	4	2	M5X0.8	17	2.8	8		8	
32	31.5	7	24.5	41.5	7	34.5	50	12	4	3	M6X1	22	2.8	9		9	
40	33	7	26	43	7	36	58.5	12	4	3	M8X1.25	28	2.8	10		10	
50	37	9	28	47	9	38	71.5	15	5	4	M10X1.5	38	2.8	10.5		10.5	
63	41	9	32	51	9	42	84.5	15	5	4	M10X1.5	40	2.8	9.5	12	9.5	11
80	52	11	41	62	11	51	104	20	6	5	M14X1.5	45	4	11.5	14.5	11.5	14.5
100	63	12	51	73	12	61	124	20	7	5	M18X1.5	55	4	16	20.5	16	20.5

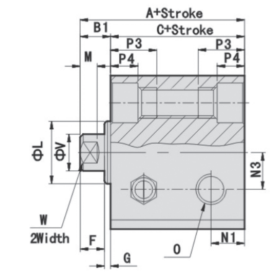
Bore \ Sign	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5X0.8	Double Side: Φ 6.5 Thread:M5X0.8 Thorugh Hole: Φ 4.2	12	4.5	–	25	16.2	23	1.6	6	5	–	–
16	6.5	M5X0.8	Double Side: Φ 6.5 Thread:M5X0.8 Thorugh Hole: Φ 4.2	12	4.5	–	29	19.8	28	1.6	6	5	–	–
20	-	M5X0.8	Double Side: Φ 6.5 Thread:M5X0.8 Thorugh Hole: Φ 4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5X0.8	Double Side: Φ 8.2 Thread:M6X1.0 Thorugh Hole: Φ 4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8	Double Side: Φ 8.2 Thread:M6X1.0 Thorugh Hole: Φ 4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8	Double Side: Φ 10 Thread:M8X1.25 Thorugh Hole: Φ 6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4	Double Side: Φ 11 Thread:M8X1.25 Thorugh Hole: Φ 6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4	Double Side: Φ 11 Thread:M8X1.25 Thorugh Hole: Φ 6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8	Double Side: Φ 14 Thread:M12X1.75 Thorugh Hole: Φ 9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8	Double Side: Φ 17.5 Thread:M14X2 Thorugh Hole: Φ 11.3	30	13	10	114	90	-	3.65	32	27	35	26

SDA Series Compact Cylinder

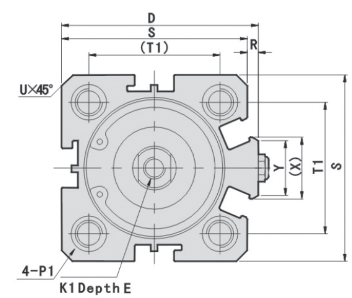
Main Dimensions SSA/SSAS (Single Acting Spring Extend)

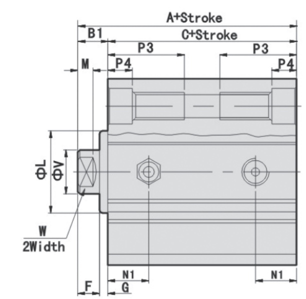
Φ12-Φ16





Φ20-Φ40





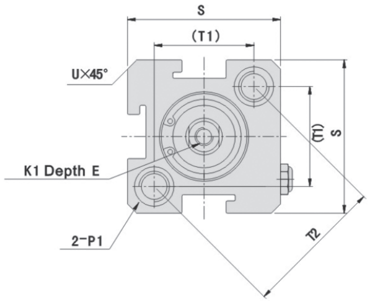
Model	Standard					With Magnet					D	E	F	G	K1	L	M	N1	N3
Bore/Sign	A		B1	C		A		B1	C										
Stroke	⩽10	>10		⩽10	>10	⩽10	>10		⩽10	>10									
12	32	42	5	27	37	42	52	5	37	47	–	6	4	1	M3X0.5	10.2	2.8	6.3	6
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	–	6	4	1.5	M3X0.5	11	2.8	7.3	6.5
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4X0.7	16	2.8	7.5	-
25	37	47	6	31	41	47	57	6	41	51	42	10	4	2	M5X0.8	17	2.8	8	-
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	3	M6X1	22	2.8	9	-
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8X1.25	28	2.8	10	-

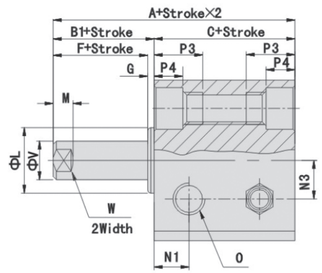
Bore \ Sign	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Thorugh Hole: Φ4.2	12	4.5	–	25	16.2	23	1.6	6	5	–	–
16	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Thorugh Hole: Φ4.2	12	4.5	–	29	19.8	28	1.6	6	5	–	–
20	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Thorugh Hole: Φ4.2	14	4.5	2	34	24	–	2.1	8	6	11.3	10
25	M5X0.8	Double Side: Φ8.2 Thread:M6X1.0 Thorugh Hole: Φ4.6	15	5.5	2	40	28	–	3.1	10	8	12	10
32	G1/8	Double Side: Φ8.5 Thread:M6X1.0 Thorugh Hole: Φ4.6	16	5.5	6	44	34	–	2.15	12	10	18.3	15
40	G1/8	Double Side: Φ10 Thread:M8X1.25 Thorugh Hole: Φ6.5	20	7.5	6.5	52	40	–	2.25	16	14	21.3	16

SDA Series Compact Cylinder

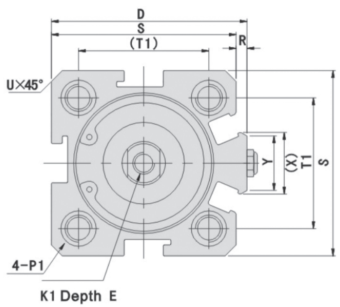
Main Dimensions STA/STAS (Single Acting Spring Return)

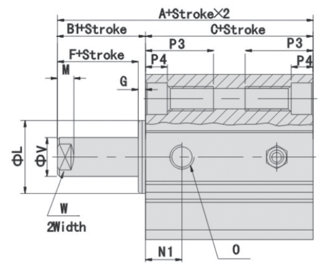
Φ12-Φ16





Φ20-Φ40



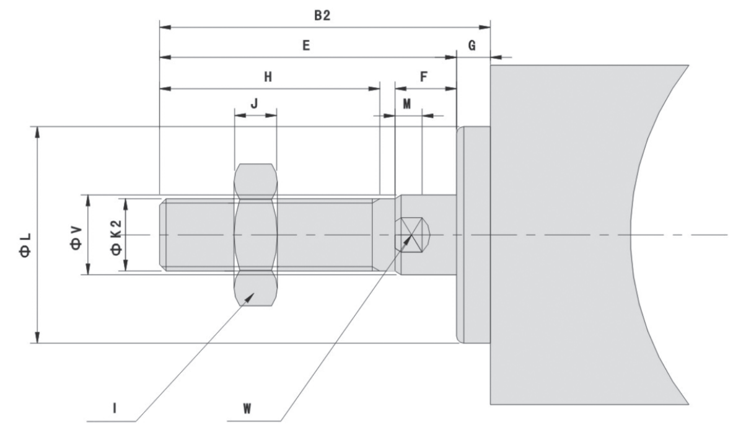


Model	Standard					With Magne					D	E	F	G	K1	L	M	N1	N3
Bore/Sign	A		B1	C		A		B1	C										
Stroke	≤10	>10		≤10	>10	≤10	>10		≤10	>10									
12	32	42	5	27	37	42	52	5	37	47	–	6	4	1	M3X0.5	10.2	2.8	6.3	6
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	–	6	4	1.5	M3X0.5	11	2.8	7.3	6.5
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4X0.7	15	2.8	7.5	-
25	37	47	6	31	41	47	57	6	41	51	42	10	4	2	M5X0.8	17	2.8	8	-
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	3	M6X1	22	2.8	9	-
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8X1.25	28	2.8	10	-

Bore \ Sign	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Thorugh Hole: Φ4.2	12	4.5	–	25	16.2	23	1.6	6	5	–	–
16	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Thorugh Hole: Φ4.2	12	4.5	–	29	19.8	28	1.6	6	5	–	–
20	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Thorugh Hole: Φ4.2	14	4.5	2	34	24	–	2.1	8	6	11.3	10
25	M5X0.8	Double Side: Φ8.2 Thread:M6X1.0 Thorugh Hole: Φ4.6	15	5.5	2	40	28	–	3.1	10	8	12	10
32	G1/8	Double Side: Φ8.2 Thread:M6X1.0 Thorugh Hole: Φ4.6	16	5.5	6	44	34	–	2.15	12	10	18.3	15
40	G1/8	Double Side: Φ10 Thread:M8X1.25 Thorugh Hole: Φ6.5	20	7.5	6.5	52	40	–	2.25	16	14	21.3	16

SDA Series Compact Cylinder

Main Dimensions SDA SSA STA

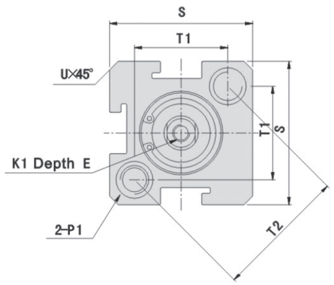


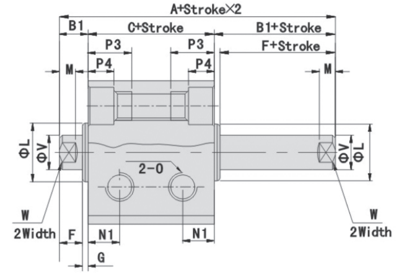
Bore \ Sign	B2	E	F	G	H	I	J	K2	L	M	V	W
12	17	16	4	1	10	8	4	M5X0.8	10.2	2.8	6	5
16	17.5	16	4	1.5	10	8	4	M5X0.8	11	2.8	6	5
20	20.5	19	4	1.5	13	10	5	M6X1.0	15	2.8	8	6
25	23	21	4	2	15	12	6	M8X1.25	17	2.8	10	8
32	25	22	4	3	15	17	6	M10X1.25	22	2.8	12	10
40	35	32	4	3	25	19	8	M14X1.5	28	2.8	16	14
50	37	33	5	4	25	27	11	M18X1.5	38	2.8	20	17
63	37	33	5	4	25	27	11	M22X1.5	40	2.8	20	17
80	44	39	6	5	30	32	13	M22X1.5	45	4	25	22
100	50	45	7	5	35	36	13	M26X1.5	55	4	32	27

SDA Series Compact Cylinder

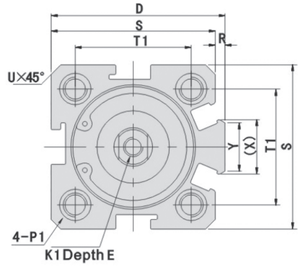
Main Dimensions SDAD/SDADS (Double Shaft Double Acting Adjustable Type)

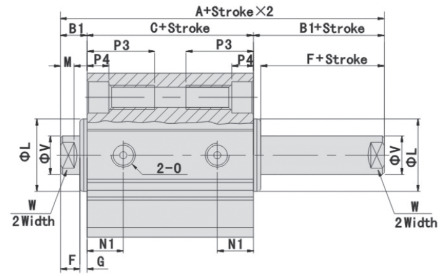
Φ12-Φ16





Φ20-Φ100





Model	Standard			With Magnet			D	E		F	G	K1	L	M	N1		N3
Bore/Sign	A	B1	C	A	B1	C		S≤10	S>10						S=5	S>5	
12	27	5	17	37	5	27	-	6		4	1	M3X0.5	10.2	2.8	6.3		6
16	29.5	5.5	18.5	39.5	5.5	28.5	-	6		4	1.5	M3X0.5	11	2.8	7.3		6.5
20	30.5	5.5	19.5	40.5	5.5	29.5	36	8(S=5 Hour 6.5)		4	1.5	M4X0.7	15	2.8	7.5		-
25	33	6	21	43	6	31	42	10(S=5 Hour7)		4	2	M5X0.8	17	2.8	8		-
32	38.5	7	24.5	48.5	7	34.5	50	8	12	4	3	M6X1	22	2.8	9		-
40	40	7	26	50	7	36	58.5	8	12	4	3	M8X1.25	28	2.8	10		-
50	46	9	28	56	9	38	71.5	8	15	5	4	M10X1.5	38	2.8	10.5		-
63	50	9	32	60	9	42	84.5	10	15	5	4	M10X1.5	40	2.8	9.5	11.8	-
80	63	11	41	73	11	51	104	13	20	6	5	M14X1.5	45	4	11.5	14.5	-
100	75	12	51	85	12	61	124	18	20	7	5	M18X1.5	55	4	16	20.5	-

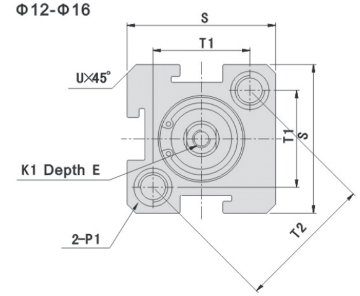
Bore \ Sign	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5X0.8	Double Side: Φ6.5 Cog:M5X0.8 Through Hole: Φ4.2	12	4.5	–	25	16.2	23	1.6	6	5	–	–
16	M5X0.8	Double Side: Φ6.5 Cog:M5X0.8 Through Hole: Φ4.2	12	4.5	–	29	19.8	28	1.6	6	5	–	–
20	M5X0.8	Double Side: Φ6.5 Cog:M5X0.8 Through Hole: Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5X0.8	Double Side: Φ8.2 Cog:M6X1.0 Through Hole: Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8	Double Side: Φ8.2 Cog:M6X1.0 Through Hole: Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8	Double Side: Φ10 Cog:M8X1.25 Through Hole: Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	G1/4	Double Side: Φ11 Cog:M8X1.25 Through Hole: Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	G1/4	Double Side: Φ11 Cog:M8X1.25 Through Hole: Φ6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	G3/8	Double Side: Φ14 Cog:M12X1.75 Through Hole: Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	G3/8	Double Side: Φ17.5 Cog:M14X2 Through Hole: Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26

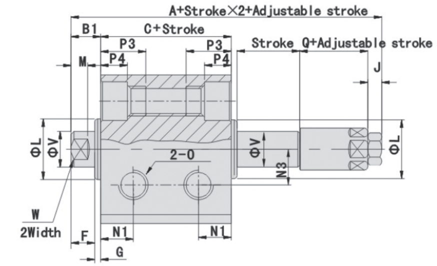
RPK

SDA Series Compact Cylinder

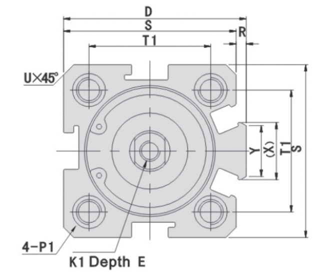
Main Dimensions SDAJ/SDAJS (Double Shaft Adjustable Stroke Type)

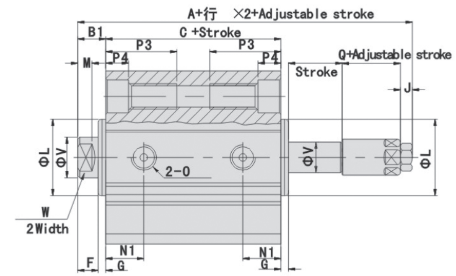
Φ12-Φ16





Φ20-Φ100



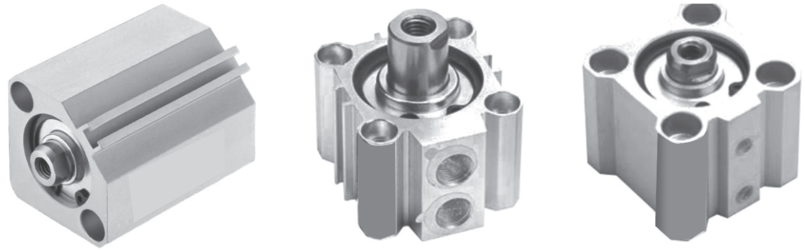


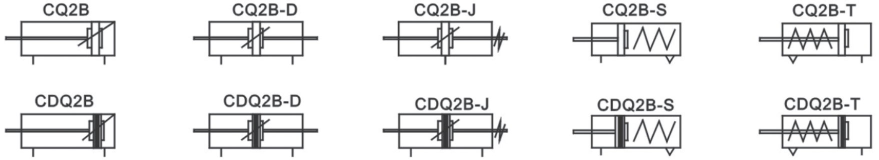
Model	Standard			With Magnet			D	E		F	G	J	K1	L	M	N1	
Bore/Sign	A	B1	C	A	B1	C		S≤10	S>10							S=5	S>5
12	40	5	17	50	5	27	-	6		4	1	4	M3X0.5	10.2	2.8	6.3	
16	42.5	5.5	18.5	52.5	5.5	28.5	-	6		4	1.5	4	M3X0.5	11	2.8	7.3	
20	47.5	5.5	19.5	57.5	5.5	29.5	36	8(S=5Hour6.5)		4	1.5	5	M4X0.7	15	2.8	7.5	
25	55	6	21	65	6	31	42	10(S=5Hour7)		4	2	6	M5X0.8	17	2.8	8	
32	61.5	7	24.5	71.5	7	34.5	50	8	12	4	3	6	M6X1	22	2.8	9	
40	65	7	26	75	7	36	58.5	8	12	4	3	8	M8X1.25	28	2.8	10	
50	73	9	28	83	9	38	71.5	8	15	5	4	11	M10X1.5	38	2.8	10.5	
63	77	9	32	87	9	42	84.5	10	15	5	4	11	M10X1.5	40	2.8	9.5	11.8
80	94	11	41	104	11	51	104	13	20	6	5	13	M14X1.5	45	4	11.5	14.5
100	105	12	51	115	12	61	124	18	20	7	5	13	M18X1.5	55	4	16	20.5

Bore \ Sign	N3	O	P1	P3	P4	Q	R	S	T1	T2	U	V	W	X	Y
12	6	M5X0.8	Double Side: Φ6.5 Cog:M5X0.8 Through Hole: Φ4.2	12	4.5	13	–	25	16.2	23	1.6	6	5	–	–
16	6.5	M5X0.8	Double Side: Φ6.5 Cog:M5X0.8 Through Hole: Φ4.2	12	4.5	13	–	29	19.8	28	1.6	6	5	–	–
20	-	M5X0.8	Double Side: Φ6.5 Cog:M5X0.8 Through Hole: Φ4.2	14	4.5	16	2	34	24	-	2.1	8	6	11.3	10
25	-	M5X0.8	Double Side: Φ8.2 Cog:M6X1.0 Through Hole: Φ4.6	15	5.5	19	2	40	28	-	3.1	10	8	12	10
32	-	G1/8	Double Side: Φ8.2 Cog:M6X1.0 Through Hole: Φ4.6	16	5.5	21	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8	Double Side: Φ10 Cog:M8X1.25 Through Hole: Φ6.5	20	7.5	21	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4	Double Side: Φ11 Cog:M8X1.25 Through Hole: Φ6.5	25	8.5	21	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4	Double Side: Φ11 Cog:M8X1.25 Through Hole: Φ6.5	25	8.5	21	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8	Double Side: Φ14 Cog:M13X1.75 Through Hole: Φ9.2	25	10.5	24	10	94	74	-	3.65	25	22	36	26
100	-	G3/8	Double Side: Φ17.5 Cog:M14X2 Through Hole: Φ11.3	30	13	24	10	114	90	-	3.65	32	27	35	26

RPK

CQ2 Series Compact Cylinder





Ordering Code — CQ2 Series Compact Cylinder

C□Q2 - B 12 - 10 - □ - M

- **Magnet**: Blank : No Magnet; D:With Magnet
- **Mounting Type**: B:Through Hole; A:Female thread at both ends
- **Bore**: Double Acting:12~100MM; Single Acting:12~50MM
- **Stroke**
- Blank:Double Acting; S:Single acting spring extent; T:Single acting spring reurn; D:Double Shaft double Acting; J:Double Shaftdouble Actin Adjustable Type
- Blank:Female thread on piston rod; M:Male thread on piston rod

Specifications

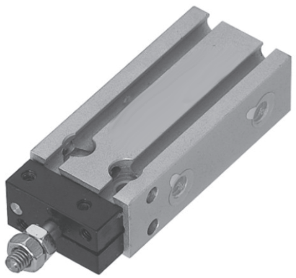
Bore Size(mm)	12	16	20	25	32	40	50	63	80	100
Working Medium	Clean air(40μm Filteration)									
Acting Type	Double acting	Single acting spring extent/Single acting spring reurn								
Guaranteed Pressure	1.5Mpa									
Max.working Pressure	1.0Mpa									
Working Temperature	5~60℃									
Thread on Piston Rod	Female thread(Standard),Male thread (Optional)									
Tolerance of Stroke	$^{+1.0}_{0}$									
Lubrication	Not Required									
Installation(on Barrel Ends)	Through hole(standard),female thread on both sides(optional)									
Port Size	M5X0.8				G1/8		G1/4		G3/8	

CU Series Free Installation Cylinder

Ordering Code — CU Series Free Installation Cylinder

C□U - K 20 - 30 - D

- **Magnet**: Blank : No Magnet; D:With Magnet
- Blank:Basic type; K:No-Swivelling piston rod
- **Bore**: 6-6MM; 10-10MM; 16-16MM; 20-20MM; 25-25MM; 32-32MM
- **Stroke**
- D:Double Acting; S:Single acting spring extent; T:Single acting spring reurn

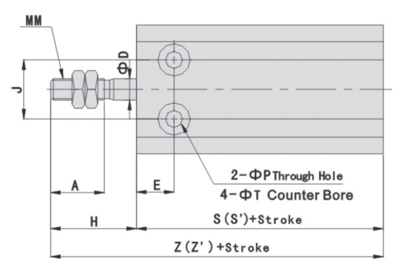


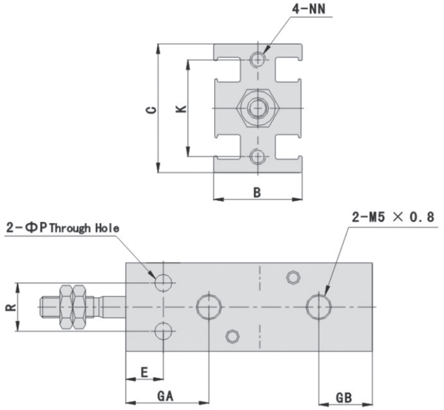
Specifications

Bore size(mm)	6	10	16	20	25	32
Working medium	Clean air(40μm Filteration)					
Acting type	Double acting	Single acting spring extent/Single acting spring reurn				
Guaranteed pressure	1.0Mpa					
Max.working pressure	0.7Mpa					
Working temperature	5~60℃					
Cushion	Rubber Cushion					
Tolerance of stroke	$^{+0.1}_{0}$					
Lubrication	Not Required					
Installation(On barrel ends)	Free					
Non-rotating accuracy	±0.8°			±0.5°		
Port size	M5X0.8				G1/8	

Main Dimensions

Φ6-Φ10



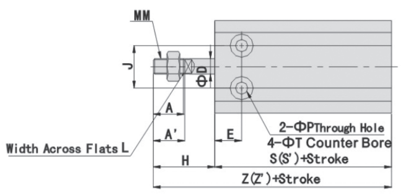


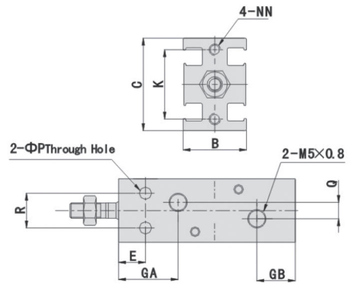
RPK

CU Series Free Installation Cylinder

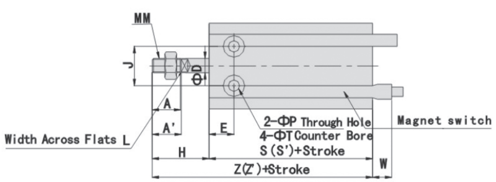
Main Dimensions

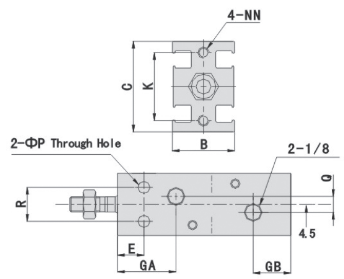
Φ16-Φ25





Φ32





Common Dimension Table

Model	A	A1	B	C	ΦD	E	GA	GB	J	K	L	MM	NN	ΦP	Q	R	ΦT
C□U6	7	–	13	22	3	7	14.5	10	10	17	–	M3X0.5	M3X0.5Depth5	3.4	—	7	6Depth4.8
C□U10	10	–	15	24	4	7	15.5	10	11	18	–	M4X0.7	M3X0.5Depth5	3.4	—	9	6Depth5
C□U16	11	12.5	20	32	6	7	16.5	11.5	14	25	5	M5X0.8	M4X0.7Depth6	4.5	4	12	7.6Depth6.5
C□U20	12	14	26	40	8	9	19	12.5	16	30	6	M6X1.0	M5X0.8Depth8	5.5	9	16	9.5Depth8
C□U25	15.5	18	32	50	10	10	21	13	20	38	8	M8X1.25	M5X0.8Depth8	5.5	9	20	9.5Depth9
C□U32	19.5	22	40	62	12	11	22	13	24	48	10	M10X1.25	M6X1.0Depth9	6.6	13.5	24	11Depth11.5

Dimension Table of Dimension Table

Model	H	Basic model		Model with built-in magnetic ring		
		S	Z	W	S'	Z'
C□U6-□D	13	33	46	2.5	33	46
C□U10-□D	16	36	52	1	36	52
C□U16-□D	16	30	46	0	40	56
C□U20-□D	19	36	55	1	46	65
C□U25-□D	23	40	63	-1	50	73
C□U32-□D	27	42	69	-4	52	79

Dimension Table of Single-acting Cylinder (with spring return)

Model	H	Basic model						W	Model with built-in magnetic ring					
		S			Z				S'			Z'		
		5st	10st	15st	5st	10st	15st		5st	10st	15st	5st	10st	15st
C□U6-□S	13	38	43	48	51	56	61	2.5	38	43	48	51	56	61
C□U10-□S	16	41	46	56	57	62	72	1	41	46	56	57	62	72
C□U16-□S	16	35	40	50	51	56	66	0	45	50	60	61	66	76
C□U20-□S	19	41	46	56	60	65	75	1	51	56	66	70	75	85
C□U25-□S	23	45	50	60	68	73	83	-1	55	60	70	78	83	93
C□U32-□S	27	47	52	62	74	79	89	-4	57	62	72	84	89	99

Dimension Table of Single-acting Cylinder (With Spring Extend)

Model	H			Basic model						W	Model With Built-in Magnetic Ring					
				S			Z				S'			Z'		
	5st	10st	15st	5st	10st	15st	5st	10st	15st		5st	10st	15st	5st	10st	15st
C□U6-□T	18	23	28	38	43	48	56	66	76	2.5	38	43	48	56	66	76
C□U10-□T	21	26	31	41	46	56	62	72	87	1	41	46	56	62	72	87
C□U16-□T	21	26	31	45	50	60	66	76	91	0	45	50	60	66	76	91
C□U20-□T	24	29	34	41	46	56	65	75	90	0	51	56	66	75	85	100
C□U25-□T	28	33	38	45	50	60	73	83	98	-1	55	60	70	83	93	108
C□U32-□T	32	37	42	47	52	62	79	89	104	-4	57	62	72	89	99	114

TN Series Double-shaft Cylinder

Ordering Code

TN Series Double-shaft Cylinder

TN 20 X 50 - S

- TN: Double-shaft Cylinder
- 20: Bore
- 50: Stroke
- S: Magnet — Blank : No Magnet; D:With Magnet

Specifications

Bore size(mm)	10	16	20	25	32
Working medium	Clean air(40μm Filteration)				
Acting type	Double acting				
Working pressre range	0.1~0.9Mpa				
Guaranteed pressure	1.5Mpa				
Working temperature	-5~70℃				
Speed range	100~500mm/s				
Adjusting Stroke	-10~0				
Cushion type	Adjuxtable cushion				
Non-rotating Accuracy	0.4°	0.3°			
Port size	M5X0.8				G1/8

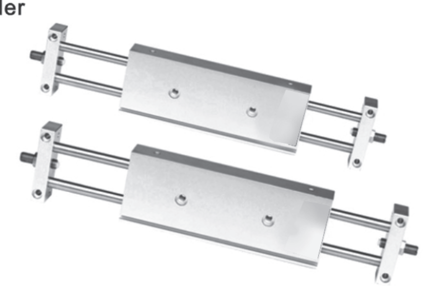
STM Series Slide Cylinder

Ordering Code

STM Series Slide Cylinder

STM - B 25 X 100

- STM:STM Series Slide Cylinder
- B:Body fixed type; S:Slide Block fixed type
- 25: Bore — 10:10mm; 16:16mm; 20:20mm; 25:25mm
- 100: Stroke



Specifications

Bore size(mm)	10	16	20	25
Acting type	Double acting			
Working medium	Clean air(40μm Filteration)			
Working temperature	-5~70℃			
Working pressure range	0.1~0.9Mpa			
Guaranteed pressure	1.35Mpa			

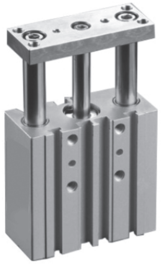
Bore size(mm)	10	16	20	25
Speed range	50~200mm/s			
Cushion type	No	Shock absorber		
Oil supply	No repuired			
No rotating accuracy	±0.1°	±0.05°		
Port size	M5X0.8			G1/8

MGP Series Three-shaft Cylinder

Ordering Code MGP Series Three-shaft Cylinder

MGP □ 25 x 40

- Bearing type
  - M:Slide beaing type
  - L:Ball bearing type
- Bore
- Stroke



Specifications

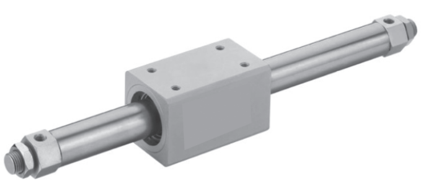
Bore size(mm)		12	16	20	25	32	40	50	63	80	100
Working medium		Clean air(40μm Filteration)									
Acting type		Double acting									
Guaranteed pressure		1.5Mpa									
Working pressure range		0.12-1.0Mpa									
Bearing		Slide bearing/Ball bushing bearing									
Non-rotating accuacy	Slide bearing	±0.08°		±0.07°		±0.06°		±0.05°		±0.04°	
	Ball bushing bearing	±0.10°		±0.09°		±0.08°		±0.06°		±0.05°	
Port size		M5X0.8		G1/8				G 1/4		G3/8	

CY1 Series Rodless Cylinder

Ordering Code CY1 Series Rodless Cylinder

C□Y1 □ 25 x 100

- Magnet
  - Blank : No Magnet
  - D:With Magnet
- B:Basic type
- S:Slide type
- L:Ball bushing bearing
- R:Magnetically coupled rodless cylmder–Direct mount
- RG:Magnetically coupled rodless cylmder Direct mount–simgle joint type
- Bore
- Stroke



Bore size(mm)	6	10	15	25	32	40	50	63
Acting type	Double acting							
Working medium	Clean air(40μm Filteration)							
Working temperature	-5~60℃							
Working pressure range	0.18~0.71Mpa							
Guaranteed pressure	1.05Mpa							

Bore size(mm)	6	10	15	25	32	40	50	63
Speed range	50~400mm/s							
Cushion type	Rubber Cushion							
Lubrication	No repuired							
Port size	M5X0.8			G1/8			G1/4	

CJP Series Needle Cylinder

Ordering Code CJP Series Needle Cylinder

CJP -□ 10 x 15 - B

- Mounting Type
  - B:Plate Mounting Type
  - S:Inside–hiding Type
- Type
  - 6:Φ6mm
  - 10:Φ10mm
  - 15:Φ15mm
- Bore
- Thread type of piston rod
  - Blank:Male thread
  - B:NO thread


Specifications

Bore size(mm)	6	10	15
Working medium	Clean air(40μm Filteration)		
Acting type	Single acting spring return		
Working pressure range	0.2~0.7Mpa	0.15~0.7Mpa	
Guaranteed pressure	1.05Mpa		

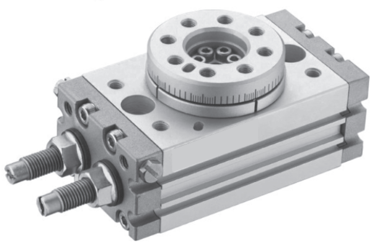
Bore size(mm)	6	10	15
Working temperature	-5~60℃		
Stroke Tolerance	$^{+1.0}_{0}$		
Port size	M5X0.8(Plate mounting type)		
Cushion	No		

MSQ Series Rotary Table,Rack& Pinion Cylinder

Ordering Code MSQ Series Rotary Table,Rack& Pinion Cylinder

MSQ B 50 A

- Basic
- Bore
- A:With adjustable angle screw
- R:With shock absorber



Specifications

Bore size(mm)		10	20	30	50	70	100	200
Working medium		Clean air(40μm Filteration)						
Working pressure range		With adjustable angle screw: 0.1~1.0Mpa With shock absorber: 0.1~0.6Mpa						
Cushion type		Cushion Rubber cushion(standard) / Shock absorber(coptional)						
Allowed power	With adjustable angle screw	0.007J	0.025J	0.048J	0.081J	0.24J	0.32J	0.56J
	With shock absorber	0.039J	0.116J		0.294J	1.1J	1.6J	2.9J
Angle adjustable range		0~190°						
Steady swing time range		0.2~1.0s/90°				0.2~1.5s/90°	0.2~2.0s/90°	0.2~2.5s/90°
		0.2~0.7s/90°				0.2~1.0s/90°		
Piston diameter		Φ15	Φ18	Φ21	Φ25	Φ28	Φ32	Φ40
Port size		M5X0.8		G1/8				

RPK

RSQ Series Stopper Cylinder

Ordering Code — RSQ Series Stopper Cylinder

RSQ B 32X20-D - □ - S

- RSQ: RSQ Series Stopper Cylinder
- Mounting Type: B: Through Hole; A: Btoth ends happed style
- Acting Type: D: Double acting; B: Single acting with spring return; T: Single acting spring extent
- Rod end type: Blank: Round Bar Type; K: Flat Bar Type; R: Roller Type; L: Level Roller Type With Cushion; B: Level Roller Type With Shock Absorber; C: Level Roller Type With Shock Absorber And Ravel Cap; E: Level Roller Type With Shock Absorber,ravel Cap And Selt-lock
- Blank: No magnet; S: With Magnet

Specifications

Bore Size(mm)	20	32	40	50
Acting Type	Double acting, Double acting with spring,Single acting spring extent			
Rod Ends Type	Round Bar Type,Chamfored type,Roller type	Round Bar Type, Chamfored Type, Roller Type, Level Type		
Working Medium	Clean air(25μ filteration)			
Guaranteed Pressure(bar)	15			
Max.working Pressure(bar)	10			
Working Temperature	-10~70(with magnet switch: max.60℃)			
Cushion	Both ends rubber cushion			
Stoke Tolerance	$^{+1.4}_{0}$mm			
Lubrication*	Not Repuied			
Mounting Type	Through Hole , Both Ends Female Thread			
Port Size	Rc(pt)1/8			

MHL Series Parallel Style Wide Opening Air Cylinder

Ordering Code — MHL Series Parallel style wide Opening Air Cylinder

MHL - 2 - 16 - D - □ - S

- MHL: MHL Series Parallel style wide Opening Air Cylinder
- Finger quantity: 2pcs
- Bore: 10–40mm
- Acting type: D: Double Acting
- Finger Open / Close Stroke
- S: Always With Magnet

Finger Open / Close Stroke

Bore	Φ10	Φ16	Φ20	Φ25	Φ32	Φ40
Blank	20	30	40	50	70	100
1	40	60	80	100	120	160
2	60	80	100	120	160	200

Specifications

Bore Size(mm)	10	16	20	25	32	40
Working Medium	Clean Air(25μ Filteration)					
Acting Type	Double Acting					
Guaranteed Pressure(bar)	6					
Max.working Pressure(bar)	1.5	1.0				
Working Temperature	-10~60					
Repeatability(mm)	±0.1					
Effective gripping force(N)at 5Bar*	14	45	74	131	228	396
Port Size	M5X0.8					

MHT Series Angle Style Air Gripper Toggle Type

Ordering Code — MHT Series Angle Style Air Gripper Toggle Type

MHT - 2 - 32 D - S

- MHT: MHT Series Angle Style Air Gripper Toggle Type
- Finger Quantity 2PCS
- Bore: 32–63mm
- Acting Type: D: Double acting
- Blank: No magnet; S: With Magnet

Specifications

Model	MHT-32D	MHT-40D	MHT-50D	MHT-63D
Bore Size(mm)	32	40	50	630
Acting Type	Double Acting			
Working Medium	Clean air(25μ filteration)			
Range of working pressure(Bar)	1~6			
Working Temperature(℃)	5~60			
Lubrication	Not Required			
Finger Open/Close Angle	-3° ~28°	-3° ~27°	-2° ~23°	-2° ~23°
Weight(kg)	0.80	1.09	1.93	2.8
Effective gripping force(N)	12.4	36.0	63.0	106

MHZ Series Style Air Cylinder

Ordering Code — MHZ Series Style Air Cylinder

MHZ - 2 - 32 - D - □

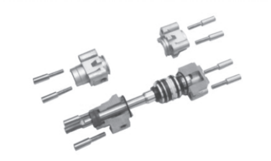
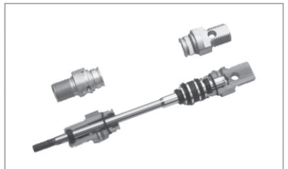
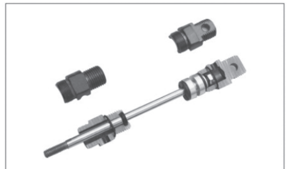
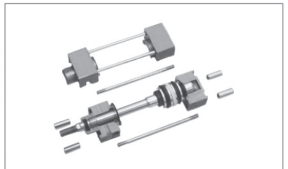
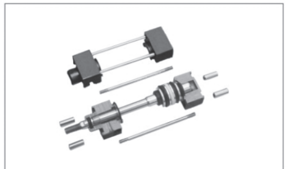
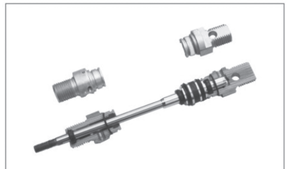
- MHZ: MHZ Series Style Air Cylinder
- Finger quantity: 2pcs
- Bore: 6-40mm
- Acting type: D: Double Acting; S: Single Acting(N.O.); C: Single Acitng(N.C.)
- Dusty Seal Material: Blank: CR; F: FKM; S: SI

Specifications

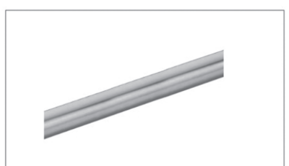
Bore Size(mm)		6	10	16	20	25	32	40
Working Medium		Clean air(25μ filteration)						
Acting Type		Double acting		Single Acting: Normal Open /Normal Close				
Max. Pressure(Bar)		7						
Maximum working Pressure(bar)	Double Acting	1.5	2	1				
	Single Acting	3	3.5	2.5				
Minimum Working pressure(Bar)		0.2	0.15					
Medium Temperature(℃)		0~60						
Max.acting frequency		±0. 01					±0. 02	
Lubrication		Not Required						
Magnet		Always have						
Thread Size		M3X0.5		M3X0.8				

Cylinder Assembly Kits

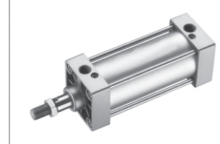
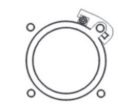
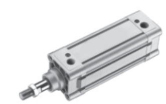
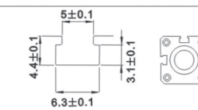
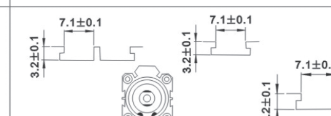
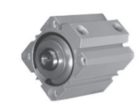
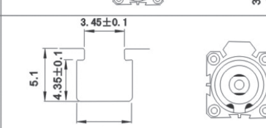
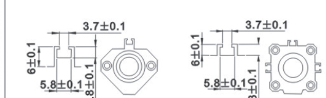
Full Set Kits

		
DNC(ISO6431&VDMA24562) Bore Side: Φ32,Φ40,Φ50,Φ63 Φ80,Φ100,Φ125	MI(ISO6432) Bore Side: Φ8 Φ10 Φ12 Φ16 Φ20 Φ25 Φ32	MAL Bore Side: Φ16, Φ20, Φ25, Φ32, Φ40
		
SI (ISO6431) Bore Side:Φ32,Φ40,Φ50,Φ63 Φ80,Φ100,Φ125,Φ160,Φ200	SC Bore Side: Φ32,Φ40,Φ50,Φ63 Φ80,Φ100,Φ125,Φ160,Φ200	MA Bore Side: Φ16,Φ20,Φ25,Φ 32, Φ40

Tube & Rod

		
SDA Aluminum Tube Bore Side: Φ12, Φ16, Φ20, Φ25, Φ32, Φ40, Φ50, Φ63, Φ80, Φ100, Φ125	SC/MAL Aluminum Tube Bore Side: Φ12,Φ16,Φ20,Φ25 Φ32,Φ40,Φ50,Φ63,Φ80,Φ100 Φ125,Φ160,Φ200,Φ250	SI Aluminum Tube Bore Side: Φ32, Φ40, Φ 50,Φ 63 Φ80, Φ100, Φ125, Φ160, Φ200
		
MA/MI(ISO6432) Stainless Steel Tube Bore Side: Φ16, Φ 20, Φ 25 Φ32, Φ40	MAL Aluminum Tube Bore Side: Φ16,Φ20,Φ25 Φ32, Φ40	Piston Rod(45# Steel Chrome-plated) Bore Side:Φ4,Φ5,Φ6,Φ8,Φ10,Φ12, Φ16,Φ20,Φ25,Φ32,Φ40,Φ45,Φ50, Φ60,Φ70,Φ80,etc.

CS Series Magnet Switches

Cylinder	Magnet Switches	Mounting	Clamp
	CSI-U 		 PAM - 63 Item Code Bore Size
	CSI-F 		 PI - 63 Item Code Bore Size
	CSI-S 		 BK Band
	CSI-D 		No Need Clamp
	CSI-J 		No Need Clamp
	CSI-G 		
	CSI-J1 		No Need Clamp
	CSI-H