

FESCOLO

PNEUMATIC CYLINDER AND KITS

--PART ONE



FESCOLO
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FESCOLO PNEUMATIC



Company Profile

Fescolo Pneumatic, established in 2001, is a professional developer and manufacturer of customized cylinders and solenoid valves. We have an excellent R&D technical team, more than 200 sets of equipment, an annual production value of more than 10 million US dollars, and have 100+ employees, including 4 technical engineers and 8 technicians so far.

Our main product range consists of various standard cylinders, non-standard customized cylinders, standard solenoid valves, non-standard customized solenoid valves, 2/2 ways electromagnetic valves, air source treatment units, angle seat valves, air hose and tube fittings. Widely applied in industrial automation, robotic arms, medical treatment, sanitary ware, food machinery, automobile manufacturing and other scientific and technological industries.

If you are looking for non-standard customized cylinders and valves, if you encounter problems in pneumatic system, congratulations, we are just the exact supplier you need. Product customization and ODM are our core competencies. We are in a leading position on projects of customized cylinders and solenoid valves. We can also customize product labels, special inner and outer packaging for you. All our products include a one-year or six-month warranty. Most standard products are available in stock and can be shipped within 3-15 days after you place an order. Fescolo Pneumatic, looks forward to your cooperation sincerely!

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DNC Series ISO6431 Standard



1.Ordering Code :

DNC

-

63

X

50

-

25

-

S

-

LB

Model

Bore size

Stroke

Adjust stroke

S:with magnet
Blank: without magnet

Fixed type

DNC: Double action type

DNCJ: Two axis double action type with stroke adjustable

25:25mm

50:50mm

75:75mm

Blank: Basic type

LB:Foot mounting type

FA:front flange mounting type

FB:rear-Flange mounting type

CA:male single Earring type

CB:female double earring type

SDB: Back cover fixed type

TC:Trunnion type

2.Characteristics:

- 1) This series of cylinder conforms to: ISO6431 standard
- 2) There is an adjustable buffers at the terminals of the cylinder except for mounted cushion.
- 3) We can offer different kinds of mounting style according to ISO 6431 standard, like Foot mounting, Front flange mounting, Rear-flange mounting,and so on.
- 4) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

3.Internal Structure:

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

17

16

18

NO.	Designation	NO.	Designation
1	Piston Rod Nut	2	Piston Rod
3	Front Cover Seal Ring	4	Bearing
5	Front Cover	6	Buffering O-Ring
7	O-Ring	8	Piston rod O-Ring
9	Piston O-Ring	10	Magnet(Optional)
11	Wear Ring	12	Barrel
13	Piston	14	Cushion Seal
15	Cushion Needle	16	Back Over
17	Hex Socket Screw	18	Profile Bolt

4.Specification:

Bore (mm)	32	40	50	63	80	100	125
Action	Double Action						
Applicable medium	Filered Air						
Pressure range	0.1~0.9 MPa						
Proof pressure	1.35 MPa						
Temperature range	-5°C~70°C						
Speed range	50~800 mm/s						
Cushion style	Adjustable Air Buffer						
Cushion stroke	24 mm			32 mm			
Port size	G1/8	G1/4		G3/8		G1/2	

5.Stroke:

Bore	Standard Stroke	Buffer Stroke	Stroke Range
32	25 40 50 80 100 125 160 200 250 320 400 500	20	10~2000
40			
50			
63			
80			
100			
125		35	

6. Overall and Dimension Sheet:

Normal type:

Bore	AM	B	D2	D5	D7	E	EE(G)	J3	J4	KK	L2	L3	L4	L5	L6	L7	L8	SW1	SW2	VD	WH	ZB
32	22	30	12	32.5	M6	45	1/8	6	5.2	M10×1.25	41.6	62.8	4	26	16	3.3	8	10	6	16	26	120
40	24	35	16	38	M6	54	1/4	8	6	M12×1.25	44	77	4	29.5	16	3.6	10	13	6	20	30	135
50	32	40	20	46.5	M8	64	1/4	10	8.5	M16×1.5	51	78	4	30	17	5.1	10	17	8	27	37	144
63	32	45	20	56.5	M8	75	3/8	12.4	10	M16×1.5	54	87	4	35.5	17	6.6	10	17	8	27	37	157.5
80	40	45	25	72	M10	93	3/8	12.5	8	M20×1.5	62.4	95.2	4	36	17	10.5	10	22	10	34.5	46	173.5
100	40	55	25	89	M10	110	1/2	11.8	10	M20×1.5	69.8	100.4	4	39	17	8	12.5	22	10	38	51	189
125	54	60	32	110	M12	134	1/2	13	8	M27×2	83	124	6	44.7	22	14	10	28	12	46	65	225

Double Axis Type:

Bore	32	40	50	63	80	100
B	30	35	40	45	45	55
L15	46	165	180	195	220	240
VD	16	20	27	27	34.5	38
ZB	120	135	143	158	174	189

DNG Series ISO15552 Standard Cylinder



1.Ordering Code :

DNG

↑

Model

-

160

↑

Bore size

X

100

↑

Stroke

-

25

↑

Adjust stroke

-

S

↑

S:with magnet
Blank: without magnet

-

LB

↑

Fixed type
Blank: Basic type
LB:Foot mounting type
FA:Front flange mounting type
FB:Rear-Flange mounting type
CA:Male single Earring type
CB:female double earring type

DNG: Double action type

DNGD: Two axis double action type

DNGJ: Two axis double action type with stroke adjustable

25:25mm

50:50mm

75:75mm

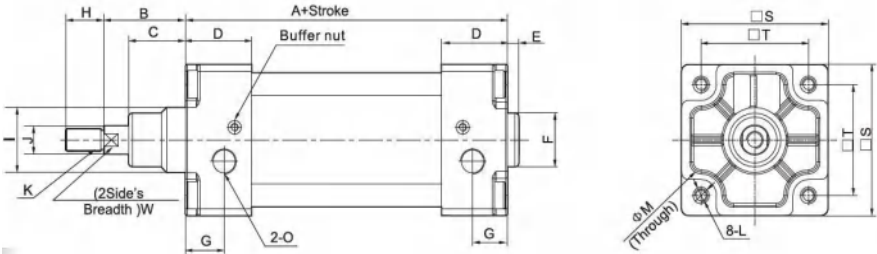
2.Characteristics:

- 1) This series of cylinder conforms to: ISO15552 standard
- 2) There is an adjustable buffers at the terminals of the cylinder except for mounted cushion.
- 3) We can offer different kinds of mounting style according to ISO15552 standard, like Foot mounting, Front flange mounting, Rear-flange mounting,and so on.
- 4) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

3.Specification:

Bore (mm)	160	200	250	320
Action	Double Action			
Applicable medium	Filered Air			
Pressure range	0.1~1.0 MPa			
Proof pressure	1.5 MPa			
Temperature range	-5°C~70°C			
Speed range	50~500 mm/s			
Cushion style	Adjustable Air Buffer			
Lubrication	Not required (Use Turbine oil SO Vg32 when necessary)			
Port size	G3/4		G1	

4. Overall and Dimension Sheet:



SI Series ISO6431 Standard Cylinder



1.Ordering Code :

SI

↑

Model

-

50

↑

Bore size

X

50

↑

Stroke

-

25

↑

Adjust stroke

-

S

↑

S:with magnet
Blank: without magnet

-

LB

↑

Fixed type
Blank: Basic type
LB:Foot mounting type
FA:Front flange mounting type
FB:Rear-Flange mounting type
CA:Male single Earring type
CB:Female double earring type
SDB: Back cover fixed type
TC:Trunnion type

SI: Double action type

SID: Two axis double action type

SIJ: Two axis double action type with stroke adjustable

2.Characteristics:

- 1) This series of cylinder conforms to: ISO6431 standard
- 2) There is an adjustable buffers at the terminals of the cylinder except for mounted cushion.
- 3) We can offer different kinds of mounting style according to ISO 6431 standard, like Foot mounting, Front flange mounting, Rear-flange mounting,and so on.
- 4) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

3.Internal Structure:

No.:	Designation	No.:	Designation
1.	Piston rod nut	10.	Piston
2.	Piston rod	11.	Wearing
3.	Front cover seal ring	12.	Magnet (Optional)
4.	O-ring	13.	Piston O-ring
5.	Bearing	14.	Pipe wall O-ring
6.	Front cover	15.	Damping
7.	Buffering O-ring	16.	Hex socket screw
8.	Piston rod O-ring	17.	Back cover
9.	Barrel		

4.Specification:

Bore (mm)	32	40	50	63	80	100	125	160	200
Action	Double Action								
Applicable medium	Filered Air								
Pressure range	0.1~0.9 MPa								
Proof pressure	1.35 MPa								
Temperature range	-5°C~70°C								
Speed range	50~800 mm/s								
Cushion style	Adjustable Air Buffer								
Cushion stroke	24 mm					32 mm			
Port size	G1/8	G1/4		G3/8		G1/2	G3/4		

5.Cylinder Theory output:

Cylinder inside Diameter	Extern Diameter of Piston Rod	Poton Pattern		Compression Area(cm²)	Air Pressure(kg/cm²)								
					1	2	3	4	5	6	7	8	9
32	12	Double Action	Press Side	8.04	8.04	16.06	24.12	32.16	40.20	48.24	56.28	64.32	72.36
			Pull Side	6.90	6.90	13.80	20.07	27.60	34.50	41.40	48.30	55.20	62.10
40	16	Double Action	Press Side	12.56	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100.24	113.04
			Pull Side	10.55	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40	94.95
50	20	Double Action	Press Side	19.63	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04	176.67
			Pull Side	16.49	16.49	32.98	49.47	65.96	82.45	98.94	115.43	139.92	148.41
63	20	Double Action	Press Side	31.17	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36	280.53
			Pull Side	28.03	28.03	56.06	84.09	112.12	140.15	168.18	196.21	224.24	252.27
80	25	Double Action	Press Side	50.26	50.26	100.52	150.78	201.04	251.30	301.56	351.82	402.08	452.34
			Pull Side	45.36	45.36	90.72	136.08	181.44	226.80	272.16	317.52	326.88	408.24
100	25	Double Action	Press Side	78.53	78.53	157.06	235.59	314.12	392.65	471.18	549.71	628.24	706.77
			Pull Side	71.47	71.47	142.94	214.41	285.88	357.35	428.82	500.29	517.76	643.23
125	32	Double Action	Press Side	122.72	122.72	245.44	368.16	490.88	613.60	736.32	859.04	981.76	1104.48
			Pull Side	114.68	114.68	229.36	344.04	458.72	573.40	688.08	802.76	917.44	1032.12
160	40	Double Action	Press Side	201.06	201.06	402.12	603.18	804.24	1005.30	1206.36	1407.42	1608.48	1809.54
			Pull Side	188.49	188.49	376.98	565.47	753.96	942.45	1130.94	1319.43	1507.92	1696.41
200	40	Double Action	Press Side	314.16	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.28	2827.44
			Pull Side	301.57	301.57	603.14	904.71	1206.28	1507.80	1809.42	2100.99	2412.56	2714.13

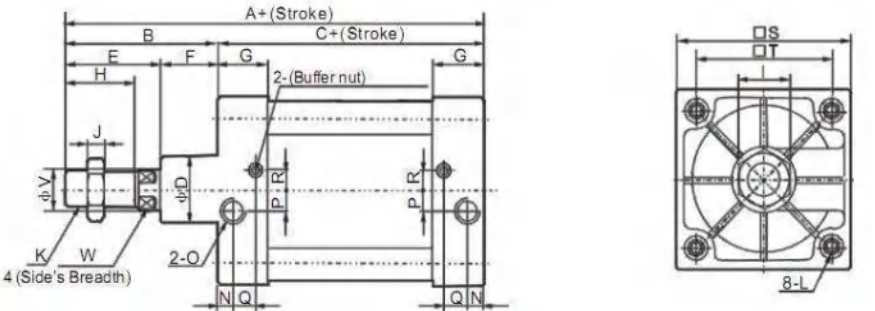
6.Stroke:

Bore(mm)	Standard Stroke																Max.Stroke	Permissible Stroke
32	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500		1000	2000
40	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800
50	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800
63	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800
80	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800
100	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800
125	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800
160	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800
200	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800

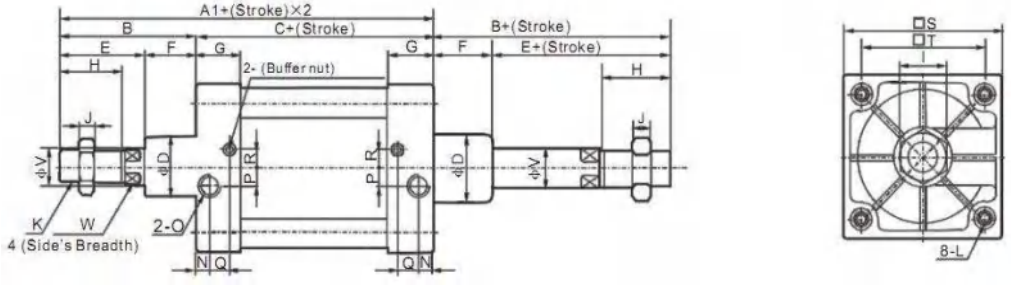
■ If you need special stroke,please Tell us, we can make according your require.

7. Overall and Dimension Sheet:

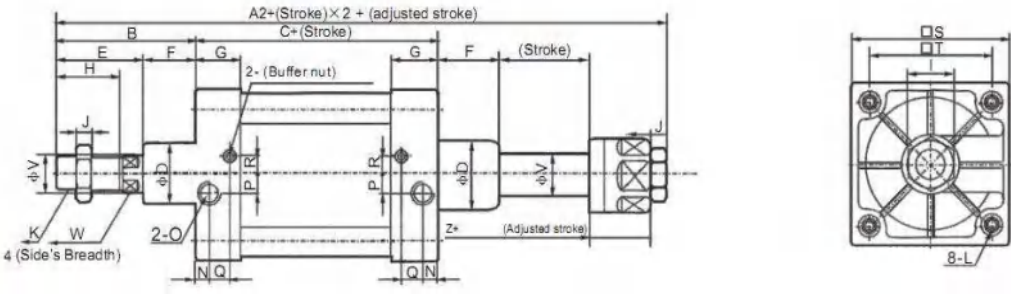
SI series:



SID series:



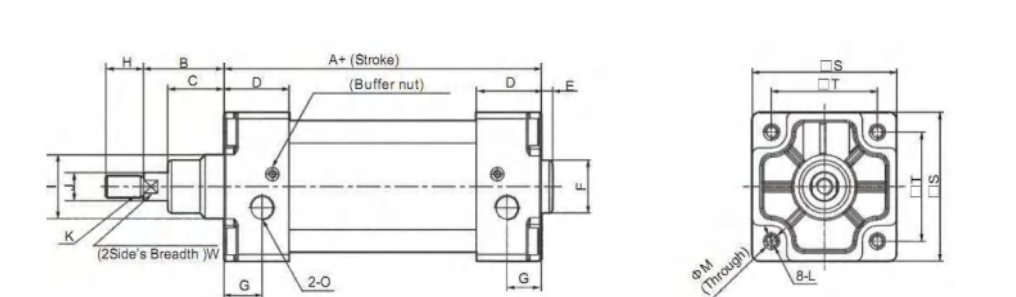
SIJ series:



Bore/Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L
32	142	190	187	48	94	30	28	16	27.5	22	17	6	M10×1.25	M6
40	159	213	207	54	105	35	32	18	29	24	19	7	M12×1.25	M6
50	175	244	233	69	105	40	42	25	30	32	24	8	M16×1.5	M8
63	190	259	250	69	120	40	40	24	31.5	32	24	8	M16×1.5	M8
80	214	300	286	86	128	40	53	30	35.5	40	30	10	M20×1.5	M10
100	229	320	308	91	138	45	55	32	36	40	30	10	M20×1.5	M10
125	279	398	372.5	119	160	60	74	45	46	54	41	13.5	M27×2	M12
160	332	484	448	152	180	65	94	58	50	72	55	18	M36×2	M16
200	337	514	472	157	180	75	100	57	50	72	55	18	M36×2	M16

Bore/Symbol	N	O	P	Q	R	S	T	V	W	Z
32	13.5	G1/8"	4	7.5	7	47	32.5	12	10	21
40	16	G1/4"	6	8.5	9	53	38	16	13	21
50	15.5	G1/4"	8.5	7.5	7.5	65	46.5	20	17	23
63	16.5	G3/8"	7.5	8.5	9	75	56.5	20	17	23
80	16.5	G3/8"	11	8.5	13.5	95	72	25	22	29
100	18.5	G1/2"	13.5	9.5	14.5	115	89	25	22	29
125	23	G1/2"	14	12	14	140	110	32	27	35
160	25	G3/4"	15	12	20	180	140	40	36	40
200	25	G3/4"	15	12	20	220	175	40	36	40

Φ250~Φ320 SI Series:



Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M	S	T	O
250	200	105	67	52	10	90	31	84	90	50	M42×2	M20	Φ30	270	220	G1
320	218	120	82	52	10	110	31	96	110	63	M48×2	M24	Φ34	340	270	G1

ISO Series ISO6431 Standard Cylinder



1.Ordering Code :

ISO
↑
Model

-

50
↑
Bore size

X

50
↑
Stroke

-

25
↑
Adjust stroke
25:25mm
50:50mm
75:75mm

-

S
↑
S:with magnet
Blank:
without
magnet

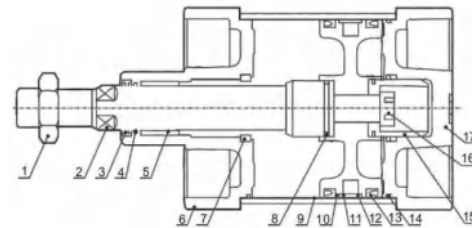
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LB
↑
Fixed type
Blank: Basic type
LB:Foot mounting type
FA:Front flange mounting type
FB:Rear-Flange mounting type
CA:Male single Earring type
CB:Female double earring type
SDB: Back cover fixed type
TC:Trunnion type

2.Characteristics:

- 1) This series of cylinder conforms to: ISO6431 standard
- 2) There is an adjustable buffers at the terminals of the cylinder except for mounted cushion.
- 3) We can offer different kinds of mounting style according to ISO 6431 standard, like Foot mounting, Front flange mounting, Rear-flange mounting,and so on.
- 4) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

3.Internal Structure:



No.:	Designation	No.:	Designation
1.	Piston rod nut	10.	Piston
2.	Piston rod	11.	Wearing
3.	Front cover seal ring	12.	Magnet (Optional)
4.	O-ring	13.	Piston O-ring
5.	Bearing	14.	Pipe wall O-ring
6.	Front cover	15.	Damping
7.	Buffering O-ring	16.	Hex socket screw
8.	Piston rod O-ring	17.	Back cover
9.	Barrel		

4.Specification:

Bore (mm)	32	40	50	63	80	100	125	160	200
Action	Double Action								
Applicable medium	Filered Air								
Pressure range	0.1~0.9 MPa								
Proof pressure	1.35 MPa								
Temperature range	-5°C~70°C								
Speed range	50~800 mm/s								
Cushion style	Adjustable Air Buffer								
Cushion stroke	24 mm					32 mm			
Port size	G1/8	G1/4		G3/8		G1/2	G3/4		

5.Cylinder Theory output:

Cylinder inside Diameter	Extern Diameter of Piston Rod	Potion Pattern	Compression Area(cm²)	Air Pressure(kg/cm²)								
				1	2	3	4	5	6	7	8	9
32	12	Double Action	Press Side	8.04	8.04	16.06	24.12	32.16	40.20	48.24	56.28	64.32
			Pull Side	6.90	6.90	13.80	20.07	27.60	34.50	41.40	48.30	55.20
40	16	Double Action	Press Side	12.56	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100.24
			Pull Side	10.55	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40
50	20	Double Action	Press Side	19.63	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04
			Pull Side	16.49	16.49	32.98	49.47	65.96	82.45	98.94	115.43	131.92
63	20	Double Action	Press Side	31.17	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36
			Pull Side	28.03	28.03	56.06	84.09	112.12	140.15	168.18	196.21	224.24
80	25	Double Action	Press Side	50.26	50.26	100.52	150.78	201.04	251.30	301.56	351.82	402.08
			Pull Side	45.36	45.36	90.72	136.08	181.44	226.80	272.16	317.52	362.88
100	25	Double Action	Press Side	78.53	78.53	157.06	235.59	314.12	392.65	471.18	549.71	628.24
			Pull Side	71.47	71.47	142.94	214.41	285.88	357.35	428.82	500.29	571.76
125	32	Double Action	Press Side	122.72	122.72	245.44	368.16	490.88	613.60	736.32	859.04	981.76
			Pull Side	114.68	114.68	229.36	344.04	458.72	573.40	688.08	802.76	917.44
160	40	Double Action	Press Side	201.06	201.06	402.12	603.18	804.24	1005.30	1206.36	1407.42	1608.48
			Pull Side	188.49	188.49	376.98	565.47	753.96	942.45	1130.94	1319.43	1507.92
200	40	Double Action	Press Side	314.16	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.28
			Pull Side	301.57	301.57	603.14	904.71	1206.28	1507.80	1809.42	2110.99	2412.56

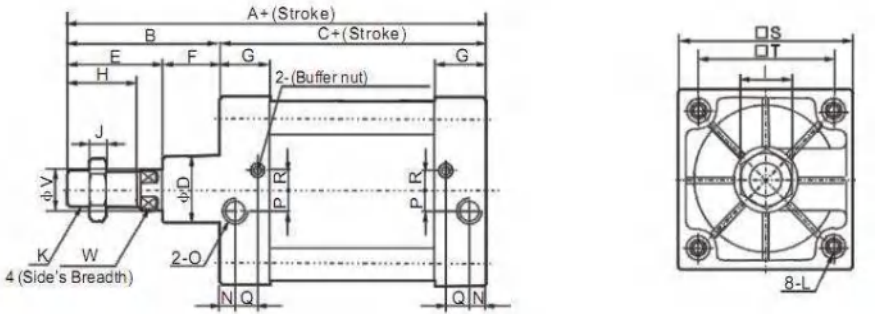
6.Stroke:

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

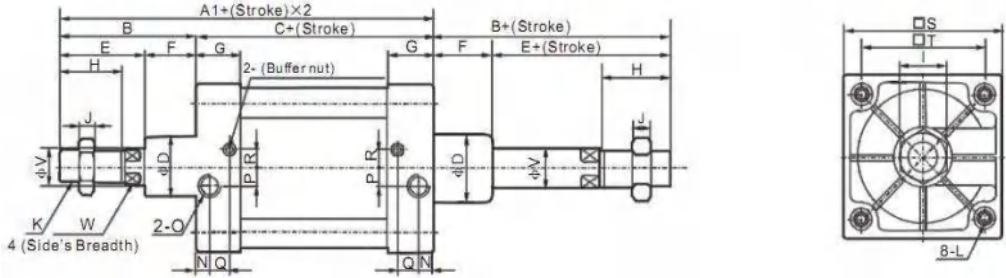
■ If you need special stroke,please Tell us, we can make according your require.

7. Overall and Dimension Sheet:

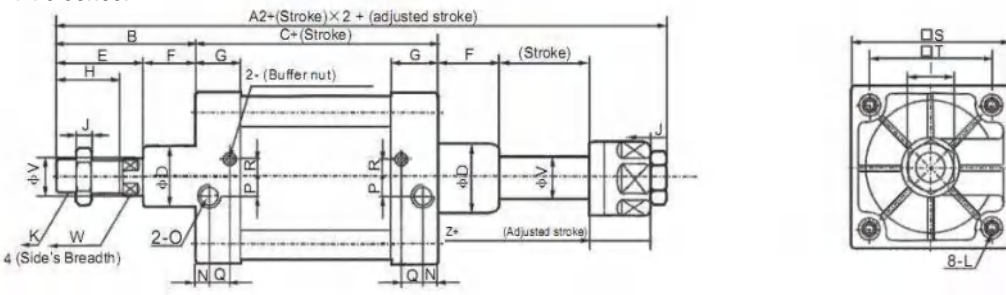
ISO series:



ISOD series:



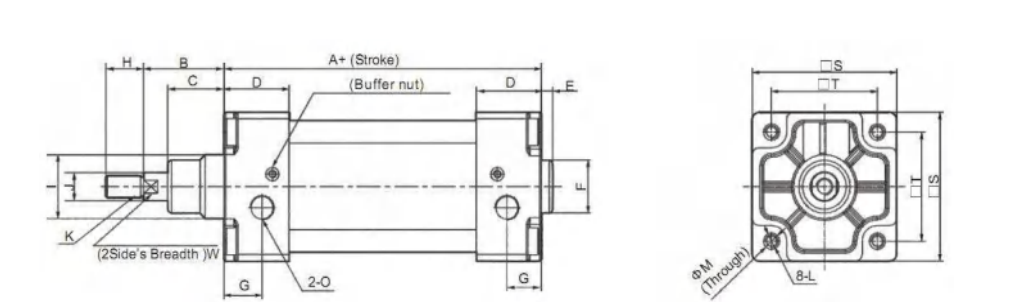
ISOJ series:



Bore/Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L
32	142	190	187	48	94	30	28	16	27.5	22	17	6	M10×1.25	M6
40	159	213	207	54	105	35	32	18	29	24	19	7	M12×1.25	M6
50	175	244	233	69	105	40	42	25	30	32	24	8	M16×1.5	M8
63	190	259	250	69	120	40	40	24	31.5	32	24	8	M16×1.5	M8
80	214	300	286	86	128	40	53	30	35.5	40	30	10	M20×1.5	M10
100	229	320	308	91	138	45	55	32	36	40	30	10	M20×1.5	M10
125	279	398	372.5	119	160	60	74	45	46	54	41	13.5	M27×2	M12
160	332	484	448	152	180	65	94	58	50	72	55	18	M36×2	M16
200	337	514	472	157	180	75	100	57	50	72	55	18	M36×2	M16

Bore/Symbol	N	O	P	Q	R	S	T	V	W	Z
32	13.5	G1/8"	4	7.5	7	47	32.5	12	10	21
40	16	G1/4"	6	8.5	9	53	38	16	13	21
50	15.5	G1/4"	8.5	7.5	7.5	65	46.5	20	17	23
63	16.5	G3/8"	7.5	8.5	9	75	56.5	20	17	23
80	16.5	G3/8"	11	8.5	13.5	95	72	25	22	29
100	18.5	G1/2"	13.5	9.5	14.5	115	89	25	22	29
125	23	G1/2"	14	12	14	140	110	32	27	35
160	25	G3/4"	15	12	20	180	140	40	36	40
200	25	G3/4"	15	12	20	220	175	40	36	40

Φ250~Φ320 ISO Series:



Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M	S	T	O
250	200	105	67	52	10	90	31	84	90	50	M42×2	M20	Φ30	270	220	G1
320	218	120	82	52	10	110	31	96	110	63	M48×2	M24	Φ34	340	270	G1

DSN Series ISO6432 Stainless Steel Mini Cylinder



1.Ordering Code :

DSN - □ 20 X 50 - 25 - S - LB

Model Blank:Fishtail type Bore size Stroke Adjust stroke S:with magnet Fixed type

DSN: Double action type CM: Rounded type 0~100mm Blank:no Blank: Basic type

ESN: Single acting spring return U:Horizontal type magnet LB:Foot mounting type

DSND: Two axis double action type FA:Front flange mounting type

DSNJ: Two axis double action type with stroke adjustable SDB: Back cover fixed type

U:Back cover fixed type

2.Characteristics:

- 1) This series of stainless steel mini cylinder conforms to: ISO6432 standard
- 3) We can offer different kinds of mounting style according to standard, like Foot mounting, Front flange mounting, Rear-flange mounting,and so on.
- 4) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

3.Internal Structure:

NO.	Designation	NO.	Designation
1	Piston Rod	9	Barrel
2	Piston Rod Nut	10	Piston rod O-ring
3	Front Cover Seal	11	Piston O-ring
4	Bearing	12	Magnet(Optional)
5	Hexagon Screw	13	Wear Ring
6	Front Cover	14	Piston
7	Cushion Ring	15	Hex Socket Screw
8	O-ring	16	Back Cover

4.Specification:

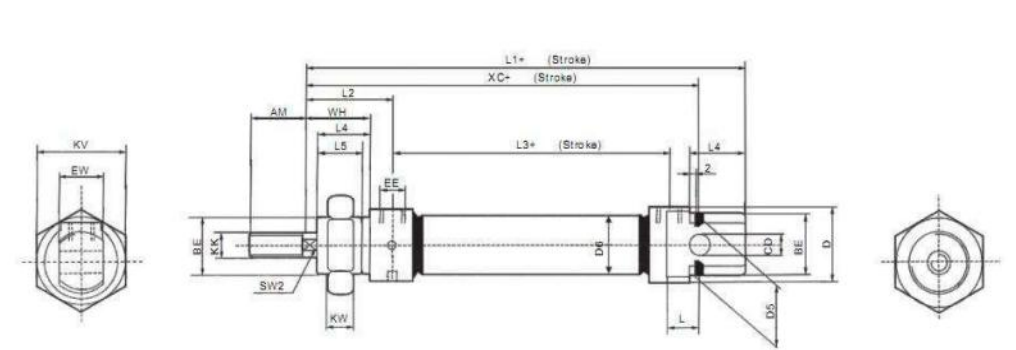
Cylinder diameter(mm)	8	10	12	16	20	25
Working Medium	/Air					
Motion pattern	/Double Action or single Action					
Ensured Pressure Resistance	15.3kgf/cm²(1.5Mpa)					
Max.pressure	10.2kgf/cm²(1.0Mpa)					
Min.pressure	0.5kgf/cm²(0.05Mpa) 1kgf/cm²(0.1Mpa)					
Environment and fluid temp	-20~+80℃(Internal Magnetic Install by Tach strap:Type Max:60℃)					
Piston veocity	Rubber Bufer(Standard), Air Buffer(Optional)					
Buffering	50~750mm/s					
Kinetic energy To Lerance(kgf/cm)	0.2	0.3	0.4	0.9	2.7	4
Pipe Size	M5×0.8			G1/8"		

5. Stroke:

Bore(mm)	Standard stroke	Max.Stroke(mm)
8	10,25,40,50,80,100,125,160,200	400
10	10,25,40,50,80,100,125,160,200	400
12	10,25,40,50,80,100,125,160,200	400
16	10,25,40,50,80,100,125,160,200	400
20	25,40,50,80,100,125,150,160,175,200,250,300	1000
25	25,40,50,80,100,125,150,160,175,200,250,300	1000

Note:In non-standard stroke options.

6. Overall and Dimension Sheet:



Bore/Symbol	AM	BE	ΦCD	ΦD	ΦD5	ΦD6	EE	EW	AM	KK	KV	KW	L	L1	L2	L3	L4	L5	SW2	WH	XC
8	12	M12×1.25	4	15	15	12	M5	8	12	M4	19	7	6	78	22	34	12	10	-	16	64
10	12	M12×1.25	4	15	15	12	M5	8	12	M4	19	7	6	78	22	34	12	10	-	16	64
12	16	M16×1.5	6	20	20	16	M5	12	16	M6	24	6	9	89	28	38	17	15	5	22	75
16	16	M16×1.5	6	20	20	16	M5	12	16	M6	24	6	9	95	28	44	17	15	5	22	82
20	20	M22×1.5	8	27	27	22	G1/8"	16	20	M8	30	8	12	112	32	51.6	20	18	7	24	95
25	22	M22×1.5	8	27	27	22	G1/8"	16	22	M10×1.25	30	8	12	119.5	36	53.1	22	20	8	26	104

ADVU Series ISO6431 Compact Cylinder



1.Ordering Code :

ADVU - 50 X 80 - A - P - A

Model Bore size Stroke buffer type A:with magnet

ADVU: Double action type 16~100mm Normal type: A: male thread
AEVUZ: Single-driven type Φ16~25:1~200mm Blank: female thread
AEVUD: Two axis double action type Φ32~63:1~300mm
Φ80~100:1~400mm
Single action:
Φ12:1~10mm
Φ16:1~25mm

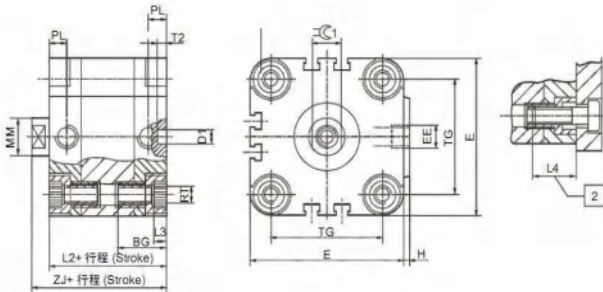
2.Characteristics:

- 1) This series of cylinder conforms to: ISO6431 standard
- 2) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 3) Needn't lubricate on piston rod by oil

3.Specification:

Bore(mm)		16	20	25	32	40	50	63	80	100	
Action		Double acting, single rod/double rod									
Fluid		Filtered compressed air									
Ensured Pressure Resistance		1.5MPa									
Operating pressure range	ADVU - P-A	0.12~1.0MPa	0.1~1.0MPa		0.08~1.0MPa			0.06~1.0MPa			
	ADVU - P-A-S2	0.13~1.0MPa	0.12~1.0MPa		0.1~1.0MPa			0.8~1.0MPa			
Ambient and fluid temperature		-20~80 (No freezing)									
Port size		M5				G1/8"					G1/4"
Piston rod thread	Female thread	M4	M5		M6		M8		M10	M12	
	Male thread	M8	M10×1.25			M12×1.25		M16×1.5		M20×1.5	
Cushion		Rubber bumper									

4.Overall and Dimension Sheet:



Note
To attach cylinder, 12 and 16 mm from above, use only 2 screws diagonally or non-magnetic screws.
+= plus stroke length
2 Minimum screw-in depth

Bore size(mm)	GB	D1 φH9	E	EE	H	L2	L3	L4	φMM	PL	RT	T2	TG	ZJ	1
16	18.5	6	29	M5	1	38	3	16	8	8	M4	4	18	42.5	7
20	18.5	6	36	M5	1.5	38	4	18	10	8	M5	4	22	42.5	9
25	18.5	6	40	M5	1.5	39.5	4	18	10	8	M5	4	26	45	9
32	21.5	6	50	G1/8	2	44.5	5	20	12	8	M6	4	32	50.5	10
40	21.5	6	60	G1/8	2.5	45.5	5	20	12	8	M6	4	42	52	10
50	22	6	68	G1/8	3	45.5	6	20	16	8	M8	4	50	53	13
63	24.5	8	87	G1/8	4	50	8	25	16	8	M10	4	62	57.5	13
80	27.5	8	107	G1/8	4	56	8	25	20	8.5	M10	4	82	64	17
100	32.5	8	128	G1/4	5	66.5	8	25	35	10.5	M10	4	103	76.5	22

SDA Series Compact Cylinder



1.Ordering Code :

Model

SDA

-

Bore size

20

X

Stroke

30

-

Adjust stroke

5

↑

S:with magnet

S

↑

Blank: without magnet

Blank:

Cog type

B

↑

Blank: Inner thread

Blank:

B:outer thread

N: no thread

SDA: Double action type

12mm~100mm

SSA: Single action type

STA: Single action drawing-in type

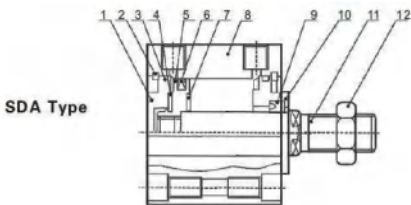
SDAD: Two axis double action type

SDAJ: Two axis double action type with stroke adjustable

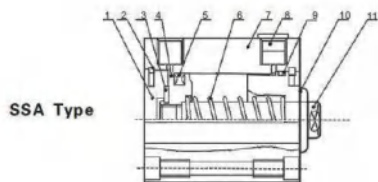
2.Characteristics:

- 1) This series of cylinder conforms to: Airtac standard
- 2) There is an adjustable buffers at the terminals of the cylinder except for mounted cushion.
- 3) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 4) Needn't lubricate on piston rod by oil

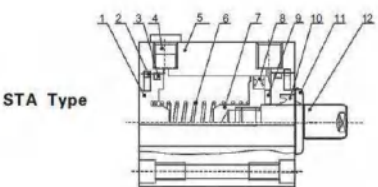
3.Internal Structure:



NO.	Designation	NO.	Designation
1	Back cover	2	Type C buckle ring
3	O-ring	4	Anti-crash cushion
5	Piston	6	Piston O-ring
7	Anti-crash cushion	8	Barrel
9	Front cover seal ring	10	Front cover
11	Piston rod	12	Piston Rod Nut



NO.	Designation	NO.	Designation
1	Back cover	2	Type C buckle ring
3	Anti-crash cushion	4	Piston
5	Piston O-ring	6	Compressed spring
7	Barrel	8	Silencer
9	Cover O-ring	10	Front cover
11	Piston rod		



NO.	Designation	NO.	Designation
1	Back cover	2	Type C buckle ring
3	Cover O-ring	4	Silencer
5	Barrel	6	Compressed spring
7	Piston	8	Piston O-ring
9	Anti-crash cushion	10	Front cover seal ring
11	Front cover	12	Piston rod

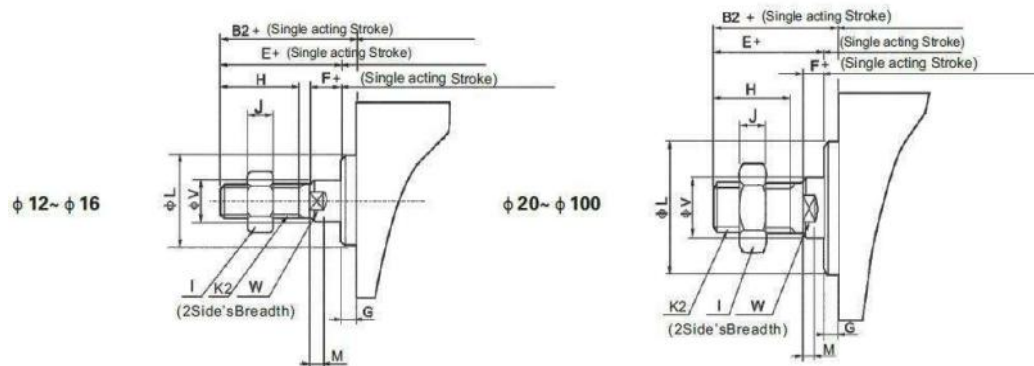
4.Specification:

Bore(mm)	12	16	20	25	32	40	50	63	80	100
Motion Pattern	Double Acting									
	Single Action Extrusion type Single Action Drawing-in Type									
Working Medium	Air									
Operating Pressure Range	0.1~0.9MPa									
Ensured Pressure Resistance	1.35MPa									
Operating Temperature Range	-5~70℃									
Operating Speed Range	30~500mm/s									
	100~500mm/s									
Buffer Type	Fixed Type Buffer									
Port Size	M5×0.8									

5.Stroke:

Bore(mm)	12	16	20	25	32	40	50	63	80	100
Double Action	Not attach magnet	5~60 mm Every 5mm is grouped as one grade	5~85 mm Every 5mm is grouped as one grade	5~90 mm Every 5mm is grouped as one grade	100~110mm Every 5mm is grouped as one grade	5~90 mm Every 5mm is grouped as one grade	100~130mm Every 5mm is grouped as one grade	100~130mm Every 5mm is grouped as one grade	100~130mm Every 5mm is grouped as one grade	100~130mm Every 5mm is grouped as one grade
	Attach magnet	5~50 mm Every 5mm is grouped as one grade	5~75mm Every 5mm is grouped as one grade	5~90 mm Every 5mm is grouped as one grade	100mm	5~90 mm Every 5mm is grouped as one grade	100~120 mm Every 5mm is grouped as one grade	100~120 mm Every 5mm is grouped as one grade	100~120 mm Every 5mm is grouped as one grade	100~120 mm Every 5mm is grouped as one grade
Single Action	Not attach magnet	5~30 mm Every 5mm is grouped as one grade					5~30 mm Every 5mm is grouped as one grade	-	-	-
	Attach magnet	5~30 mm Every 5mm is grouped as one grade					5~30 mm Every 5mm is grouped as one grade	-	-	-
Max.Stroke	60mm	100mm	120mm	120mm	120mm	120mm	130mm	130mm	130mm	130mm

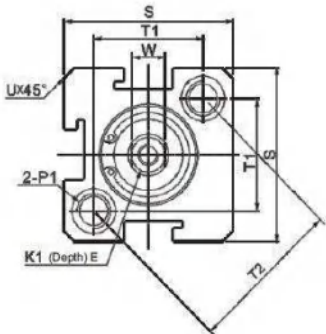
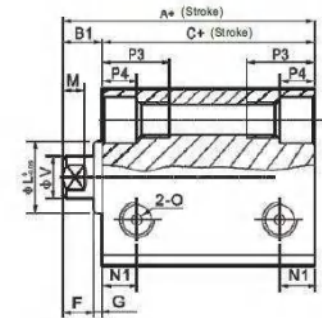
6.Outer thread dimension:



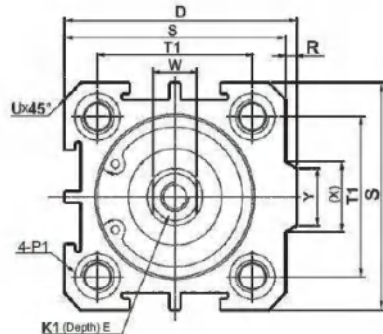
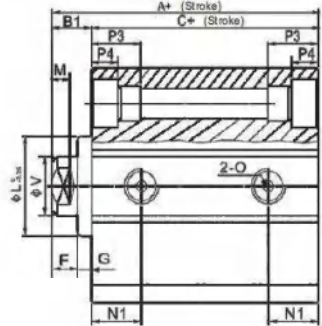
Bore/Symbol	B2	E	F	G	H	I	J	K2	L	M	V	W
12	17	16	4	1	10	8	4	M5×0.8	10.2	2.8	6	5
16	17.5	16	4	1.5	10	8	4	M5×0.8	11	2.8	6	5
20	20.5	19	4	1.5	13	10	5	M6×1.0	16	2.8	8	6
25	23	21	4	2	15	12	6	M8×1.25	17	2.8	10	8
32	25	22	4	3	15	17	6	M10×1.25	22	2.8	12	10
40	35	32	4	3	25	19	8	M14×1.5	28	2.8	16	14
50	37	33	5	4	25	27	11	M18×1.5	38	2.8	20	17
63	37	33	5	4	25	27	11	M18×1.5	40	2.8	20	17
80	44	39	6	5	30	32	13	M22×1.5	45	4	25	22
100	50	45	7	5	35	36	13	M26×1.5	55	4	32	27

7. Overall and Dimension Sheet:

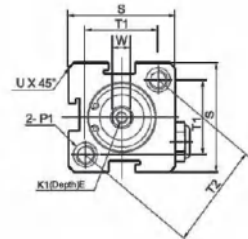
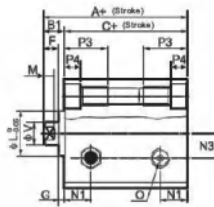
SDA Type
φ 12- φ 16



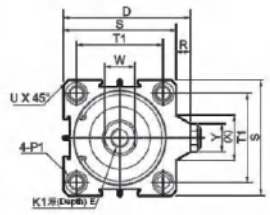
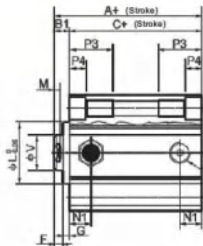
SDA Type
φ 20- φ 100



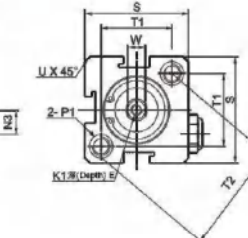
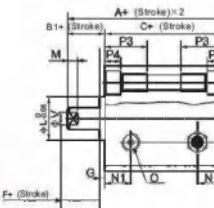
SSA Type φ 12- φ 16



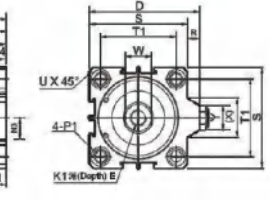
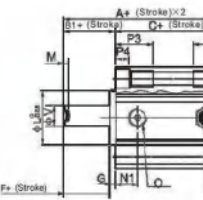
SSA Type φ 20- φ 40



STA Type φ 12- φ 16



STA Type φ 20- φ 40



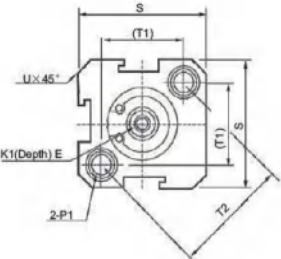
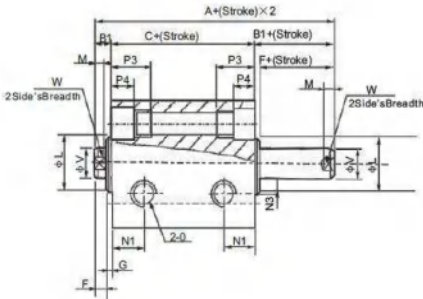
Type	Standard type			Attach Magnet			D	E		F	G	K1	L	M	N1
Bore Size/Symbol	A	B1	C	A	B1	C		Stroke ≤10	Stroke >10						
12	22	5	17	32	5	27	-	6		4	1	M3×0.5	10.2	2.8	6.3
16	24	5.5	18.5	34	5.5	28.5	-	6		4	1.5	M3×0.5	11	2.8	7.3
20	25	5.5	19.5	35	5.5	29.5	36	8		4	1.5	M4×0.7	15	2.8	7.5
25	27	6	21	37	6	31	42	10		4	2	M5×0.8	17	2.8	8
32	31.5	7	24.5	41.5	7	34.5	50	12		4	3	M6×1	22	2.8	9
40	33	7	28	43	7	36	58.5	12		4	3	M8×1.25	28	2.8	10
50	37	9	28	47	9	38	71.5	15		5	4	M10×1.5	38	2.8	10.5
63	41	9	32	51	9	42	84.5	15		5	4	M10×1.5	40	2.8	11.8
80	52	11	41	62	11	51	104	15	20	6	5	M14×1.5	45	4	14.5
100	63	12	51	73	12	61	124	18	20	7	5	M18×1.5	55	4	20.5

Bore Size/Symbol	N3	O	P1										P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	(Double Sides):φ6.5/ (Thread):M5×0.8/ (Through ports):φ4.2										12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	(Double Sides):φ6.5/ (Thread):M5×0.8/ (Through ports):φ4.2										12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	(Double Sides):φ6.5/ (Thread):M5×0.8/ (Through ports):φ4.2										14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	(Double Sides):φ8.2/ (Thread):M6×1.0/ (Through ports):φ4.6										15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	(Double Sides):φ8.2/ (Thread):M6×1.0/ (Through ports):φ4.6										16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	(Double Sides):φ10/ (Thread):M8×1.25/ (Through ports):φ6.5										20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	(Double Sides):φ11/ (Thread):M8×1.25/ (Through ports):φ6.5										25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	(Double Sides):φ11/ (Thread):M8×1.25/ (Through ports):φ6.5										25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	(Double Sides):φ14/ (Thread):M12×1.75/ (Through ports):φ9.2										25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	(Double Sides):φ17.5/ (Thread):M14×2/ (Through ports):φ11.3										30	13	10	114	90	-	3.65	32	27	35	26

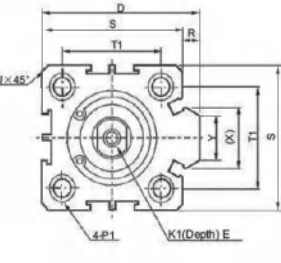
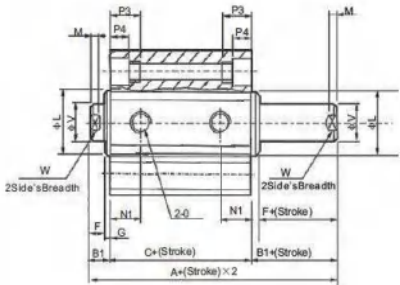
Type	Standard Type						Attach magnet					D	E	F	G	K1	L	M	N1
Strbke	A		B1	C		A		B1	C										
	≤10	>10		≤10	>10	≤10	>10		≤10	>10									
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3×0.5	10.2	2.8	6.3	
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3×0.5	11	2.8	7.3	
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4×0.7	16	2.8	7.5	
25	37	47	6	34	41	47	57	6	41	51	42	10	4	2	M5×0.8	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	M6×1	22	2.8	9	
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8×1.25	28	2.8	10	

Bore Size/Symbol	N3	O	P1										P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	(Double Sides):φ6.5/ (Thread):M5×0.8/ (Through ports):φ4.2										12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	(Double Sides):φ6.5/ (Thread):M5×0.8/ (Through ports):φ4.2										12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	(Double Sides):φ6.5/ (Thread):M5×0.8/ (Through ports):φ4.2										14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	(Double Sides):φ8.2/ (Thread):M6×1.0/ (Through ports):φ4.6										15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	(Double Sides):φ8.2/ (Thread):M6×1.0/ (Through ports):φ4.6										16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	(Double Sides):φ10/ (Thread):M8×1.25/ (Through ports):φ6.5										20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

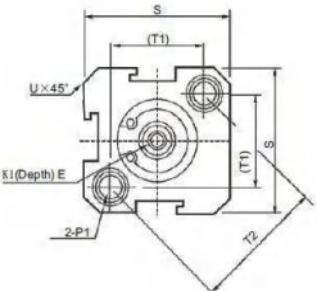
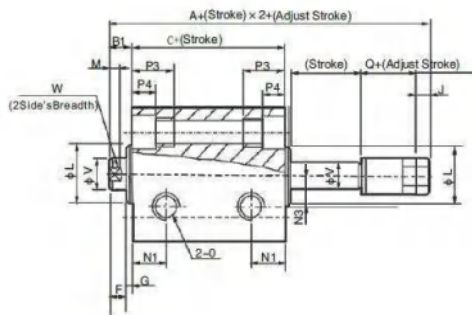
SDAD Type
φ 12~ φ 16



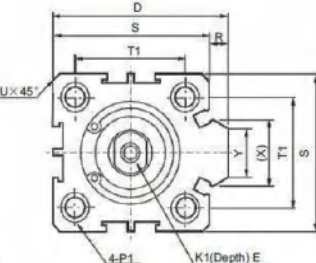
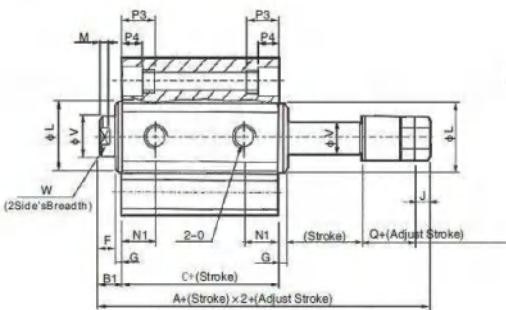
SDAD Type
φ 20~ φ 100



SDAJ Type
φ 12~ φ 16



SDAJ Type
φ S20~ φ 100



Type	Standard type			Attach Magnet			D	E		F	G	K1	L	M	N1
Bore Size/Symbol	A	B1	C	A	B1	C		Stroke≤10	Stroke>10						
12	27	5	17	37	5	27	-	6		4	1	M3×0.5	10.2	2.8	6.3
16	29.5	5.5	18.5	39.5	5.5	28.5	-	6		4	1.5	M3×0.5	11	2.8	7.3
20	30.5	5.5	19.5	40.5	5.5	29.5	36	8 (Stroke)=5 (its)6.5		4	1.5	M4×0.7	15	2.8	7.5
25	33	6	21	43	6	31	42	10 (Stroke)=5 (its)7		4	2	M5×0.8	17	2.8	8
32	38.5	7	24.5	48.5	7	34.5	50	8	12	4	3	M6×1	22	2.8	9
40	40	7	28	50	7	36	58.5	9	12	4	3	M8×1.25	28	2.8	10
50	46	9	28	56	9	38	71.5	11	15	5	4	M10×1.5	38	2.8	10.5
63	50	9	32	60	9	42	84.5	11	15	5	4	M10×1.5	40	2.8	11.8
80	63	11	41	73	11	51	104	14	20	6	5	M14×1.5	45	4	14.5
100	75	12	51	85	12	61	124	18	20	7	5	M18×1.5	55	4	20.5

Type	Standard type			Attach Magnet			D	E		F	G	K1	L	M	N1
Bore Size/Symbol	A	B1	C	A	B1	C		Stroke≤10	Stroke>10						
12	22	5	17	32	5	27	-	6		4	1	M3×0.5	10.2	2.8	6.3
16	24	5.5	18.5	34	5.5	28.5	-	6		4	1.5	M3×0.5	11	2.8	7.3
20	25	5.5	19.5	35	5.5	29.5	36	8		4	1.5	M4×0.7	15	2.8	7.5
25	27	6	21	37	6	31	42	10		4	2	M5×0.8	17	2.8	8
32	31.5	7	24.5	41.5	7	34.5	50	12		4	3	M6×1	22	2.8	9
40	33	7	26	43	7	36	58.5	12		4	3	M8×1.25	28	2.8	10
50	37	9	28	47	9	38	71.5	15		5	4	M10×1.5	38	2.8	10.5
63	41	9	32	51	9	42	84.5	15		5	4	M10×1.5	40	2.8	11.8
80	52	11	41	62	11	51	104	15	20	6	5	M14×1.5	45	4	14.5
100	63	12	51	73	12	61	124	18	20	7	5	M18×1.5	55	4	20.5

Bore Size/Symbol	N3	O	P1				P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	(Double Sides): φ6.5/(Thread)M5×0.8/(Through ports): φ4.2				12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	(Double Sides): φ6.5/(Thread)M5×0.8/(Through ports): φ4.2				12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	(Double Sides): φ6.5/(Thread)M5×0.8/(Through ports): φ4.2				14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	(Double Sides): φ8.2/(Thread)M6×1.0/(Through ports): φ4.6				15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	(Double Sides): φ8.2/(Thread)M6×1.0/(Through ports): φ4.6				16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	(Double Sides): φ10/(Thread)M8×1.25/(Through ports): φ6.5				20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	(Double Sides): φ11/(Thread)M8×1.25/(Through ports): φ6.5				25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	(Double Sides): φ11/(Thread)M8×1.25/(Through ports): φ6.5				25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	(Double Sides): φ14/(Thread)M12×1.75/(Through ports): φ9.2				25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	(Double Sides): φ17.5/(Thread)M14×2/(Through ports): φ11.3				30	13	10	114	90	-	3.65	32	27	35	26

Bore Size/Symbol	N3	O	P1				P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	(Double Sides): φ6.5/(Thread)M5×0.8/(Through ports): φ4.2				12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	(Double Sides): φ6.5/(Thread)M5×0.8/(Through ports): φ4.2				12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	(Double Sides): φ6.5/(Thread)M5×0.8/(Through ports): φ4.2				14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	(Double Sides): φ6.5/(Thread)M6×1.0/(Through ports): φ4.6				15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	(Double Sides): φ6.5/(Thread)M6×1.0/(Through ports): φ4.6				16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	(Double Sides): φ6.5/(Thread)M8×1.25/(Through ports): φ6.5				20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	(Double Sides): φ6.5/(Thread)M8×1.25/(Through ports): φ6.5				25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	(Double Sides): φ6.5/(Thread)M8×1.25/(Through ports): φ6.5				25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	(Double Sides): φ6.5/(Thread)M12×1.75/(Through ports): φ9.2				25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	(Double Sides): φ6.5/(Thread)M12×1.75/(Through ports): φ11.3				30	13	10	114	90	-	3.65	32	27	35	26

SC Series Standard Cylinder



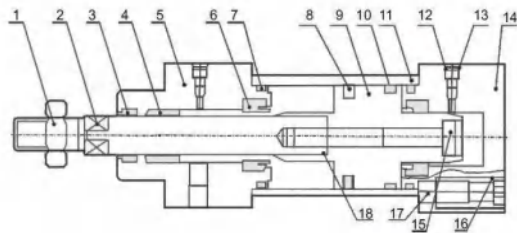
1.Ordering Code :

SC	-	50	X	50	-	25	-	S	-	LB
Model		Bore size		Stroke		Adjust stroke		S:with magnet		Fixed type
SC: Double action type						25:25mm		Blank:		Blank: Basic type
SCD: Two axis double action type						50:50mm		without		LB:Foot mounting type
SCJ: Two axis double action type with stroke adjustable						75:75mm		magnet		FA:Front flange mounting type
										FB:Rear-Flange mounting type
										CA:Male single Earring type
										CB:Female double earring type
										SDB: Back cover fixed type
										TC:Trunnion type

2.Characteristics:

- 1) This series of cylinder conforms to: Airtac standard
- 2) There is an adjustable buffers at the terminals of the cylinder except for mounted cushion.
- 3) We can offer different kinds of mounting style according to standard, like Foot mounting, Front flange mounting, Rear-flange mounting, and so on.
- 4) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

3.Internal Structure:



No.:	Designation	No.:	Designation
1.	Piston rod nut	10.	Wear ring
2.	Piston rod	11.	Barrel
3.	Front cover seal ring	12.	buffering o-ring
4.	Bearing	13.	adjustable screw
5.	Front cover	14.	Back cover
6.	Buffering sealing	15.	Hex socket screw
7.	Pipe wall O-ring	16.	Tie rod nut
8.	Piston sealing	17.	Tie rod o-ring
9.	Piston	18.	Piston rod o-ring

4.Specification:

Bore (mm)	32	40	50	63	80	100	125	160	200
Action	Double Action								
Applicable medium	Filered Air								
Pressure range	0.1~0.9 MPa								
Proof pressure	1.35 MPa								
Temperature range	-5°C~70°C								
Speed range	300~800 mm/s								
Cushion style	Adjustable Air Buffer								
Cushion stroke	24 mm				32 mm				
Port size	G1/8	G1/4	G3/8		G1/2		G3/4		

5.Cylinder Theory output:

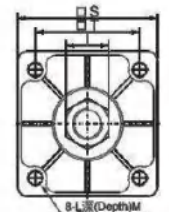
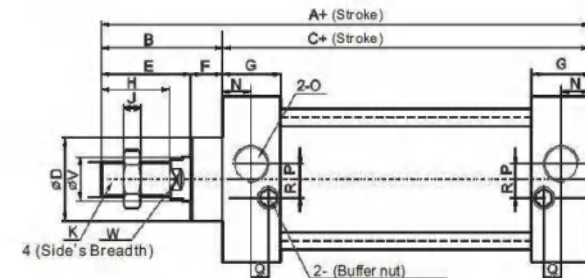
Cylinder inside Diameter	Extern Diameter of Piston Rod	Potion Pattern	Compression Area(cm ²)	Air Pressure(kgf/cm ²)									
				1	2	3	4	5	6	7	8	9	
32	12	Double Action	Press Side	8.04	8.04	16.08	24.12	32.16	40.20	48.24	56.28	64.32	72.36
			Pull Side	6.90	6.90	13.80	20.07	27.60	34.50	41.40	48.30	55.20	62.10
40	16	Double Action	Press Side	12.56	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100.24	113.04
			Pull Side	10.55	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40	94.95
50	20	Double Action	Press Side	19.63	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04	176.67
			Pull Side	16.49	16.49	32.98	49.47	65.96	82.45	98.94	115.43	139.92	148.41
63	20	Double Action	Press Side	31.17	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36	280.53
			Pull Side	28.03	28.03	56.06	84.09	112.12	140.15	168.18	196.21	224.24	252.27
80	25	Double Action	Press Side	50.26	50.26	100.52	150.78	201.04	251.30	301.56	351.82	402.08	452.34
			Pull Side	45.36	45.36	90.72	136.08	181.44	226.80	272.16	317.52	326.88	408.24
100	25	Double Action	Press Side	78.53	78.53	157.06	235.59	314.12	392.65	471.18	549.71	628.24	706.77
			Pull Side	71.47	71.47	142.94	214.41	285.88	357.35	428.82	500.29	571.76	643.23
125	32	Double Action	Press Side	122.72	122.72	245.44	368.16	490.88	613.60	736.32	859.04	981.76	1104.48
			Pull Side	114.68	114.68	229.36	344.04	458.72	573.40	688.08	802.76	917.44	1032.12
160	40	Double Action	Press Side	201.06	201.06	402.12	603.18	804.24	1005.30	1206.36	1407.42	1608.48	1809.54
			Pull Side	188.49	188.49	376.98	565.47	753.96	942.45	1130.94	1319.43	1507.92	1696.41
200	40	Double Action	Press Side	314.16	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.28	2827.44
			Pull Side	301.57	301.57	603.14	904.71	1206.28	1507.80	1809.42	2100.99	2412.56	2714.13

6.Stroke:

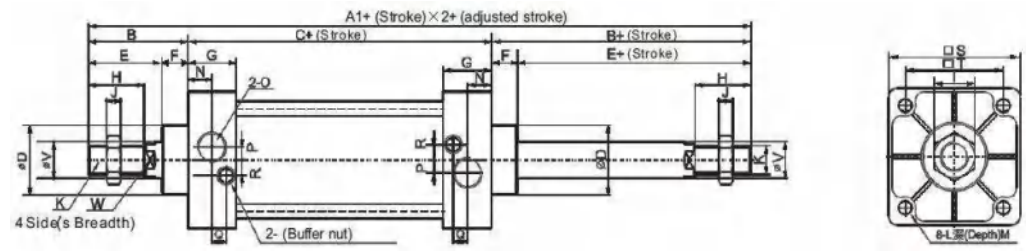
Bore(mm)	Standard Stroke															Max Stroke	Permissible Stroke			
32	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	1000	2000			
40	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800		
50	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
63	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
80	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
100	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
125	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
160	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
200	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000

7. Overall and Dimension Sheet:

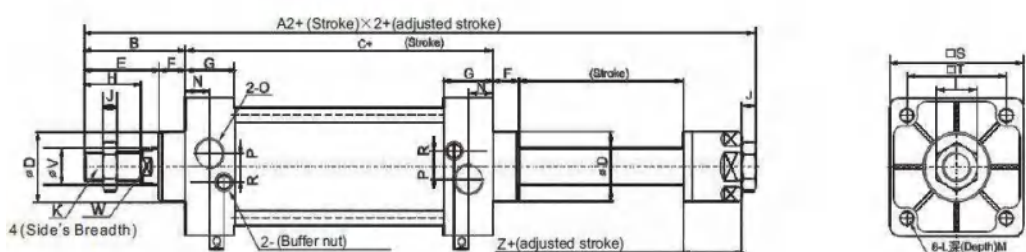
SC series (Φ32~Φ200):



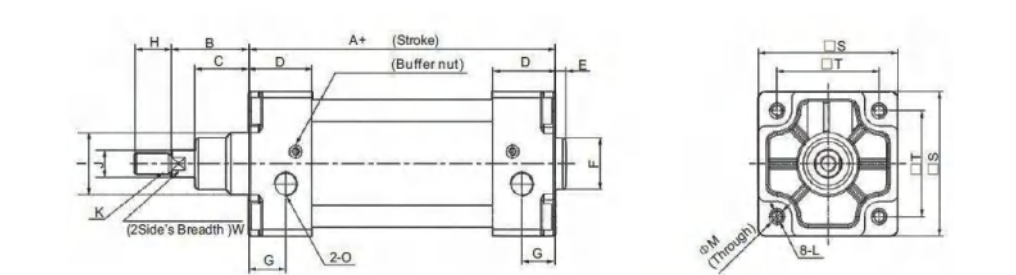
SCD series (Φ32~Φ200):



SCJ series (Φ32~Φ200):



SC Series (Φ250~Φ320):



Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M	S	T	O
250	200	105	67	52	10	90	31	84	90	50	M42×2	M20	Φ30	270	220	G1
320	218	120	82	52	10	110	31	96	110	63	M48×2	M24	Φ34	340	270	G1

Bore/Symbol	L	M	N	O	P	Q	R	S	T	V	W	Z
32	M6×1	9.5	13.7	G1/8"	3.5	7.5	7	45	33	12	10	21
40	M6×1	9.5	13.5	G1/4"	6	8.2	9	50	37	16	14	21
50	M6×1	9.5	13.5	G1/4"	8.5	8.2	9	62	47	20	17	23
63	M8×1.25	9.5	13.5	G3/8"	7	8.2	8.5	75	56	20	17	23
80	M10×1.5	11.5	16.5	G3/8"	10	9.5	14	94	70	25	22	29
100	M10×1.5	11.5	16.5	G1/2"	11	9.5	14	112	84	25	22	29
125	M12×1.75	21	16.5	G1/2"	/	/	/	140	110	32	28	33
160	M16×2	25	26	G3/4"	/	/	/	180	140	40	36	38
200	M16×2	25	22.5	G3/4"	/	/	/	220	175	40	36	42

Bore/Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32	140	187	182	47	93	26	32	15	27.5	22	17	6	M10×1.25
40	142	191	185	49	93	30	34	15	27.5	24	19	7	M12×1.25
50	150	207	196	57	93	36	42	15	27.5	32	24	8	M16×1.5
63	153	210	199	57	96	36	42	15	27.5	32	24	8	M16×1.5
80	182	257	242	75	108	47	54	21	33	40	30	9	M20×1.5
100	188	263	248	75	108	47	54	21	33	40	30	9	M20×1.5
125	239	330	363	104	136	56	71	32	40	54	40	12	M27×2
160	291	412	450	121	166	62	92	60	50	72	50	14	M36×2
200	272	409	451	132	130	75	117	30	41	72	50	16	M36×2

SU Series Standard Cylinder



1.Ordering Code :

SU

-

50

X

50

-

25

-

S

-

LB

Model

Bore size

Stroke

Adjust stroke

S:with magnet

Fixed type

SU: Double action type

SUD: Two axis double action type

SUJ: Two axis double action type with stroke adjustable

25:25mm

50:50mm

75:75mm

Blank: without magnet

Blank: Basic type

LB:Foot mounting type

FA:Front flange mounting type

FB:Rear-Flange mounting type

CA:Male single Earring type

CB:Female double earring type

SDB: Back cover fixed type

TC:Trunnion type

2.Characteristics:

- 1) This series of cylinder conforms to: Airtac standard
- 2) There is an adjustable buffers at the terminals of the cylinder except for mounted cushion.
- 3) We can offer different kinds of mounting style according to standard, like Foot mounting, Front flange mounting, Rear-flange mounting,and so on.
- 4) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

No.: Designation

1. Piston rod nut

2. Piston rod

3. Front cover seal ring

4. Bearing

5. Front cover

6. Buffering sealing

7. Pipe wall O-ring

8. Piston sealing

9. Piston

No.: Designation

10. Wear ring

11. Barrel

12. buffering o-ring

13. adjustable screw

14. Back cover

15. Hex socket screw

16. Tie rod nut

17. Tie rod o-ring

18. Piston rod o-ring

4.Specification:

Bore (mm)	32	40	50	63	80	100	125	160	200
Action	Double Action								
Applicable medium	Filered Air								
Pressure range	0.1~0.9 MPa								
Proof pressure	1.35 MPa								
Temperature range	-5℃~70℃								
Speed range	300~800 mm/s								
Cushion style	Adjustable Air Buffer								
Cushion stroke	24 mm				32 mm				
Port size	G1/8	G1/4	G3/8		G1/2		G3/4		

5.Cylinder Theory output:

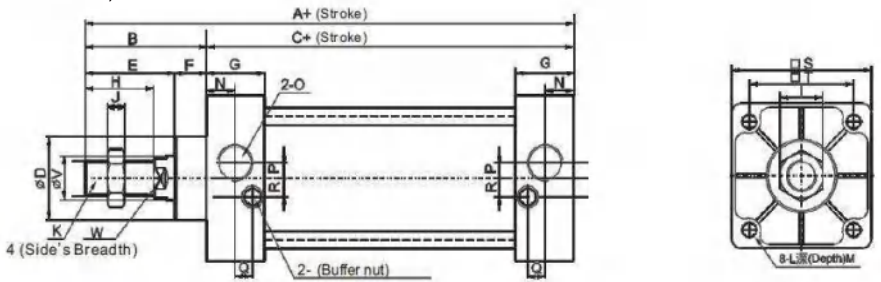
Cylinder inside Diameter	Extern Diameter of Piston Rod	Potion Pattern	Compression Area(cm²)	Air Pressure(kgf/cm²)								
				1	2	3	4	5	6	7	8	9
32	12	Double Action	Press Side	8.04	8.04	16.08	24.12	32.16	40.20	48.24	56.28	64.32
			Pull Side	6.90	6.90	13.80	20.07	27.60	34.50	41.40	48.30	55.20
40	16	Double Action	Press Side	12.56	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100.24
			Pull Side	10.55	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40
50	20	Double Action	Press Side	19.63	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04
			Pull Side	16.49	16.49	32.98	49.47	65.96	82.45	98.94	115.43	139.92
63	20	Double Action	Press Side	31.17	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36
			Pull Side	28.03	28.03	56.06	84.09	112.12	140.15	168.18	196.21	224.24
80	25	Double Action	Press Side	50.26	50.26	100.52	150.78	201.04	251.30	301.56	351.82	402.08
			Pull Side	45.36	45.36	90.72	136.08	181.44	226.80	272.16	317.52	362.88
100	25	Double Action	Press Side	78.53	78.53	157.06	235.59	314.12	392.65	471.18	549.71	628.24
			Pull Side	71.47	71.47	142.94	214.41	285.88	357.35	428.82	500.29	571.76
125	32	Double Action	Press Side	122.72	122.72	245.44	368.16	490.88	613.60	736.32	859.04	981.76
			Pull Side	114.68	114.68	229.36	344.04	458.72	573.40	688.08	802.76	917.44
160	40	Double Action	Press Side	201.06	201.06	402.12	603.18	804.24	1005.30	1206.36	1407.42	1608.48
			Pull Side	188.49	188.49	376.98	565.47	753.96	942.45	1130.94	1319.43	1507.92
200	40	Double Action	Press Side	314.16	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.28
			Pull Side	301.57	301.57	603.14	904.71	1206.28	1507.80	1809.42	2100.99	2412.56

6.Stroke:

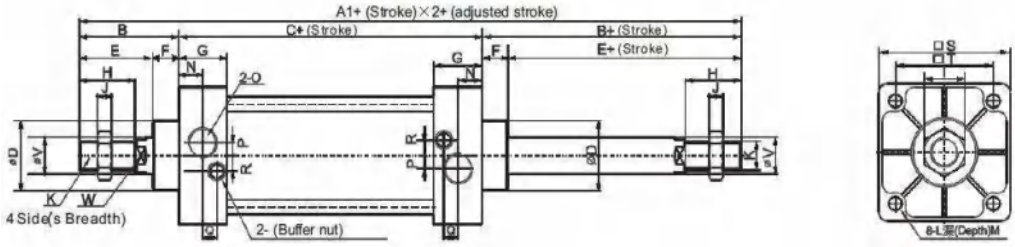
Bore(mm)	Standard Stroke															Max.Stroke	Permissible Stroke			
32	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	1000	2000			
40	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800		
50	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
63	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
80	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
100	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
125	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
160	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
200	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000

7. Overall and Dimension Sheet:

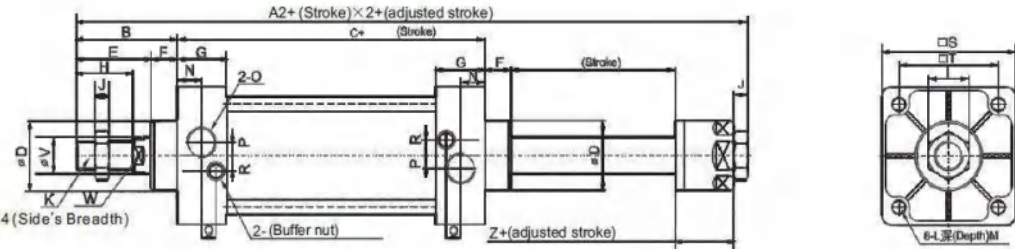
SU series (Φ32~Φ200):



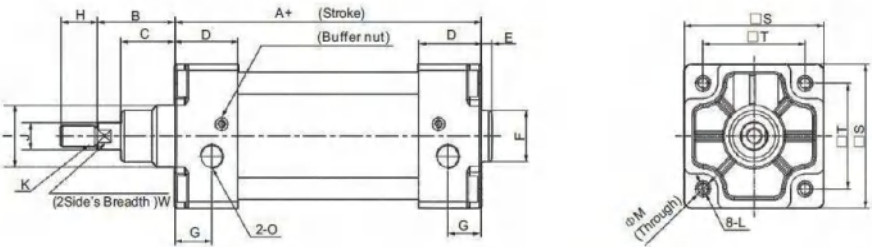
SUD series (Φ32~Φ200):



SUJ series (Φ32~Φ200):



SU Series (Φ250~Φ320):



Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M	S	T	O
250	200	105	67	52	10	90	31	84	90	50	M42×2	M20	Φ30	270	220	G1
320	218	120	82	52	10	110	31	96	110	63	M48×2	M24	Φ34	340	270	G1

Bore/Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32	140	187	182	47	93	26	32	15	27.5	22	17	6	M10×1.25
40	142	191	185	49	93	30	34	15	27.5	24	19	7	M12×1.25
50	150	207	196	57	93	36	42	15	27.5	32	24	8	M16×1.5
63	153	210	199	57	96	36	42	15	27.5	32	24	8	M16×1.5
80	182	257	242	75	108	47	54	21	33	40	30	9	M20×1.5
100	188	263	248	75	108	47	54	21	33	40	30	9	M20×1.5
125	239	330	363	104	136	56	71	32	40	54	40	12	M27×2
160	291	412	450	121	166	62	92	60	50	72	50	14	M36×2
200	272	409	451	132	130	75	117	30	41	72	50	16	M36×2

Bore/Symbol	L	M	N	O	P	Q	R	S	T	V	W	Z
32	M6×1	9.5	13.7	G1/8"	3.5	7.5	7	45	33	12	10	21
40	M6×1	9.5	13.5	G1/4"	6	8.2	9	50	37	16	14	21
50	M6×1	9.5	13.5	G1/4"	8.5	8.2	9	62	47	20	17	23
63	M8×1.25	9.5	13.5	G3/8"	7	8.2	8.5	75	56	20	17	23
80	M10×1.5	11.5	16.5	G3/8"	10	9.5	14	94	70	25	22	29
100	M10×1.5	11.5	16.5	G1/2"	11	9.5	14	112	84	25	22	29
125	M12×1.75	21	16.5	G1/2"	/	/	/	140	110	32	28	33
160	M16×2	25	26	G3/4"	/	/	/	180	140	40	36	38
200	M16×2	25	22.5	G3/4"	/	/	/	220	175	40	36	42

MA Series Stainless Steel Mini Cylinder



1.Ordering Code :

MA

Blank: Fishtail type

20

X

50

-

25

-

S

-

LB

Model

Stroke

Adjust stroke

S: with magnet

Fixed type

MA: Double action type

MSA: Single spring return type

MAD: Two axis double action type

MACD: Two axis double action type with stroke adjustable

MAJ: Two axis double action type with stroke adjustable

MAC: Two axis double action type

CM: Rounded type

U: Horizontal type

Blank: no magnet

LB: Foot mounting type

FA: Front flange mounting type

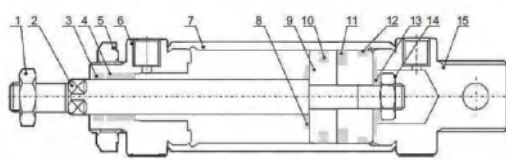
SDB: Back cover fixed type

U: Back cover fixed type

2.Characteristics:

- 1) This series of stainless steel mini cylinder conforms to: Airtac standard
- 3) We can offer different kinds of mounting style according to standard, like Foot mounting, Front flange mounting, Rear-flange mounting, and so on.
- 4) Different thread type can be offered according to customers' requirements, e.g.: BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

3.Internal Structure:



NO.	Designation	NO.	Designation
1	Piston Rod Nut	2	Piston Rod
3	Front Cover Seal Ring	4	Oiled Bearing
5	Front Cover Nut	6	Front Cover
7	Stainless steel tube	8	Anti-crash cushion
9	Piston	10	Piston O-Ring
11	Magnet(Optional)	12	Wear Ring
13	Seal cushion	14	Hex socket screw
15	Back Cover		

4.Specification:

Bore(mm)	16	20	25	32	40
Motion pattern	Double Action or Single Action				
Working Medium	Air				
Fixed Type	Normal Type	LB Type	FAType	SDB Type	U Type
Operating Voltage Range	0.1~0.9MPa				
Ensured Pressure Resistance	1.35MPa				
Operating Temperature Range	-5~70℃				
Operating Speed Range	50~800mm/s				
Buffer Type	Standard Type		Anti-crash cushion		
	Damping Type		Adjustable cushion		
Pipe Size	M5×0.8		G1/8"		

5. Stroke:

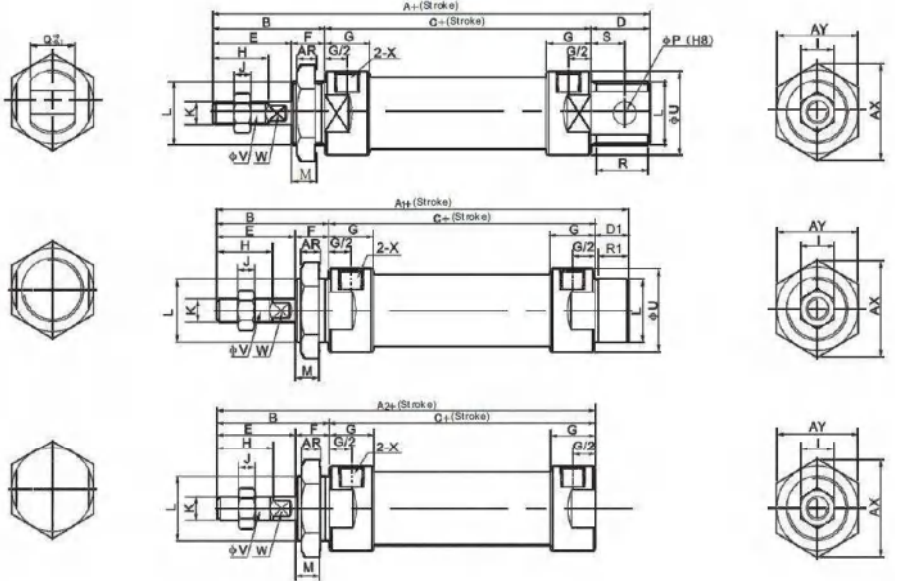
Bore(mm)	Standard Stroke																Max.Stroke	Permissible Stroke
16	25	50	75	80	100	125	160	175	200								300	500
20	25	50	75	80	100	125	160	175	200	250	300						500	650
25	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500		500	650
32	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500		500	650
40	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500		500	650

6. Overall and Dimension Sheet:

MA

MA-CM

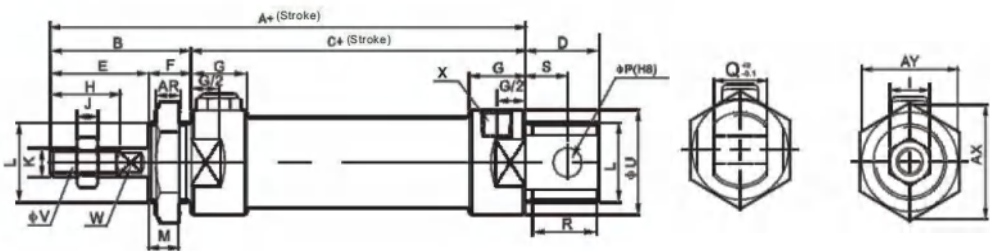
MA-U



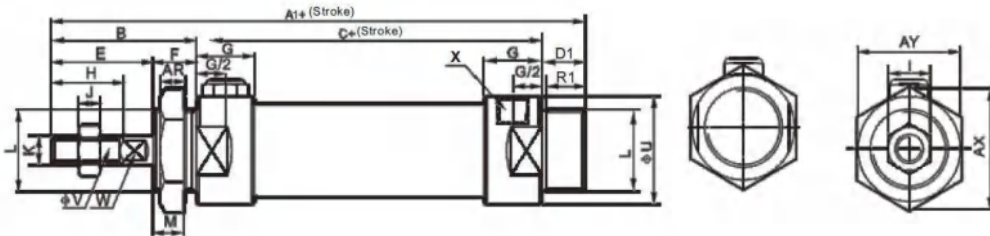
Bore/Symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	114	114	98	38	60	16	16	22	16	10	16	10	5	M6×1
20	137	128	116	40	76	21	12	28	12	16	20	12	6	M8×1.25
25	141	134	120	44	76	21	14	30	14	16	22	17	6	M10×1.25
32	147	134	120	44	76	27	14	30	14	16	22	17	6	M10×1.25
40	149	136	122	46	76	27	14	32	14	16.7	24	17	7	M12×1.25

Bore/Symbol	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16×1.5	14	6	12	14	14	9	21	6	5	M5	6	24	27.5
20	M22×1.5	10	8	16	19	10	12	27	8	6	G1/8"	7	33	29
25	M22×1.5	12	8	16	19	12	12	30	10	8	G1/8"	7	33	29
32	M24×2.0	12	10	16	25	12	15	35	12	10	G1/8"	8	37	32
40	M30×2.0	12	12	20	25	12	15	41.6	16	14	G1/8"	9	47	41

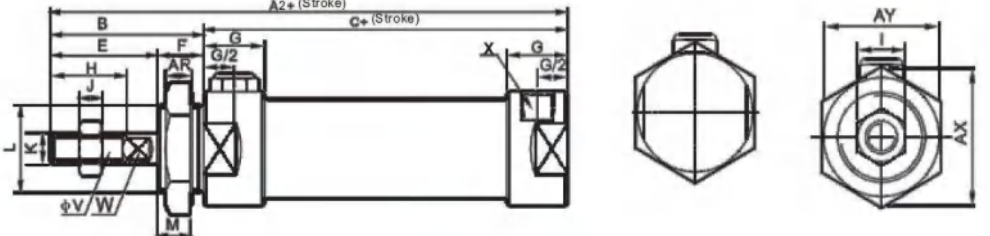
MSA:



MSA-CM:



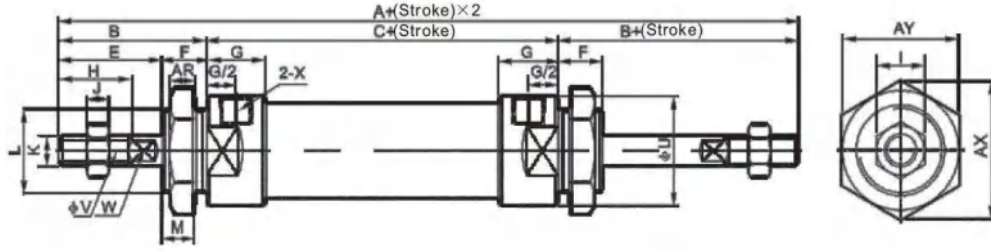
MSA-U:



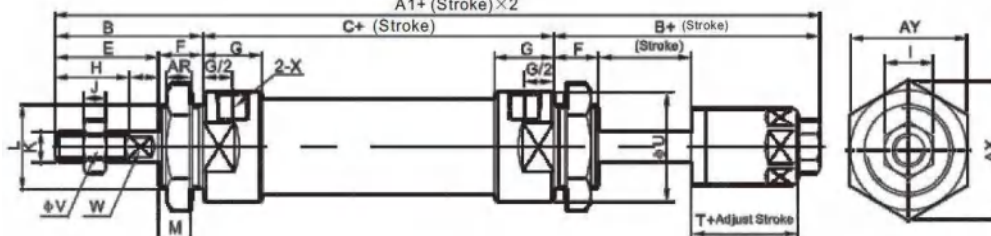
Symbol	A		A1		A2		B		C		D	D1	E	F	G	H	I	J
	Bore/Stroke		0-50	51-100	0-50	51-100	0-50	51-100	0-50	51-100								
16		114	139	128	153	98	123	38	60	85	16	16	22	16	10	16	10	5
20		137	162	134	159	116	141	40	76	101	21	12	28	12	16	20	12	6
25		141	166	134	159	120	145	44	76	101	21	14	30	14	16	22	17	6
32		147	172	136	161	120	145	44	76	101	27	14	30	14	16	22	17	6
40		149	174	122	144	122	147	46	76	101	27	14	32	14	22	24	17	7

Inside Diameter/Symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M6×1	M16×1.5	14	6	12	14	14	9	21	6	5	M5	6	25	22
20	M8×1.25	M22×1.5	10	8	16	19	10	12	27	8	6	G1/8"	7	33	29
25	M10×1.25	M22×1.5	12	8	16	19	12	12	30	10	8	G1/8"	7	33	29
32	M10×1.25	M24×2.0	12	10	16	25	12	15	35	12	10	G1/8"	8	37	32
40	M12×1.25	M30×2.0	12	12	20	25	12	15	41.6	16	14	G1/8"	9	47	41

MAD:



MAJ:



Inside Diameter/Symbol	A	A1	B	C	E	F	G	H	I	J	K
16	136	135	38	60	22	16	10	16	10	5	M6×1
20	156	153	40	70	28	12	16	20	12	6	M8×1.25
25	164	161	44	70	30	14	16	22	17	6	M10×1.25
32	164	161	44	70	30	14	16	22	17	6	M10×1.25
40	168	164	46	92	32	14	22	14	17	7	M12×1.25

Inside Diameter/Symbol	L	M	U	V	W	X	AR	AX	AY	T
16	M16×1.5	14	21	6	5	M5	6	25	22	16
20	M22×1.5	10	29	9	6	G1/8"	7	33	29	19
25	M22×1.5	12	34	10	8	G1/8"	7	33	29	21
32	M24×2.0	12	39.5	12	10	G1/8"	8	37	32	21
40	M30×2.0	12	49.5	16	12	G1/8"	9	47	41	21

MAL Series Aluminum Alloy Mini Cylinder



1.Ordering Code :

MAL

-

□

20

X

50

-

25

-

S

-

LB

Model

Blank:Fishtail type

Bore size

Stroke

Adjust stroke

S:with magnet

Fixed type

MAL: Double action type

CM: Rounded type

MSAL: Single spring return type

MALC: With cushion type

MALD: Two axis double action type

MALCD: Two axis double action with damping type

MALJ: Two axis double action type with stroke adjustable

U:Horizontal type

Blank:no magnet

LB:Foot mounting type

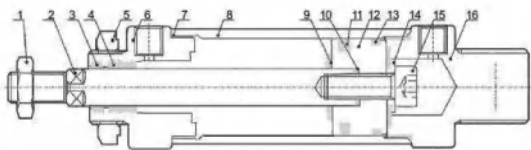
FA:Front flange mounting type

SDB: Back cover fixed type

2.Characteristics:

- 1) This series of stainless steel mini cylinder conforms to: Airtac standard
- 3) We can offer different kinds of mounting style according to standard, like Foot mounting, Front flange mounting, Rear-flange mounting,and so on.
- 4) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

3.Internal Structure:



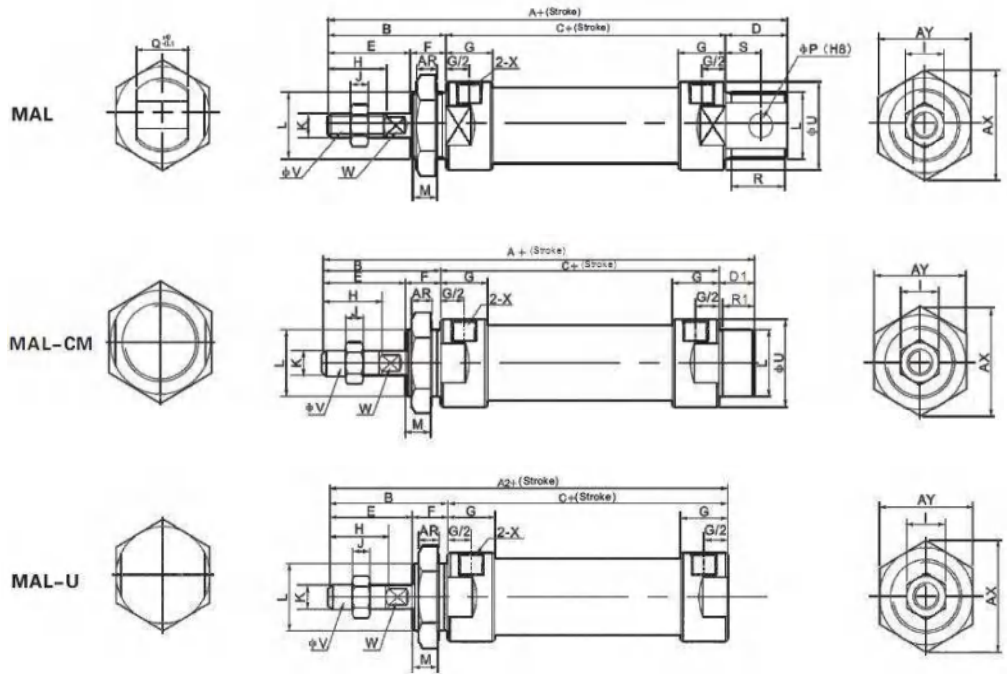
NO.	Designation	NO.	Designation
1	Piston Rod Nut	2	/Piston Rod
3	Front Cover Seal Ring	4	/Oiled Bearing
5	Front Cover Nut	6	/Front Cover
7	Pipe wall O-ring	8	/Aluminum tube
9	Anti-crash cushion	10	/Piston rod O-Ring
11	Piston O-Ring	12	/Piston
13	Wear Ring	14	/Seal cushion
15	Hex socket screw	16	/Back Over

Bore(mm)		16	20	25	32	40
Motion pattern		Double Action or Single Action				
Working Medium		Air				
Fixed Type		Normal Type LB Type FAType SDB Type				
Operating Voltage Range		0.1~0.9MPa				
Ensured Pressure Resistance		1.35MPa				
Operating Temperature Range		-5~70℃				
Operating Speed Range		30~800mm/s				
Buffer Type	Standard Type	Anti-crash cushion				
	Damping Type	Adjustable cushion				
Port Size		M5×0.8		G1/8"		G1/4"

5. Stroke:

Bore(mm)	Standard Stroke	Max.Stroke	Permissible Stroke
16	25,50,75, 80,100 ,125,160,175,200	300	500
20	25,50,75,80,100,125,160,175,200, 250,300	500	650
25	25,50,75,80,100,125,160,175,200,250,300,350,400,450,500	500	650
32	25,50,75,80,100,125,160,175,200,250,300,350,400,450,500	500	650
40	25,50,75,80,100,125,160,175,200,250,300,350,400,450,500	500	650

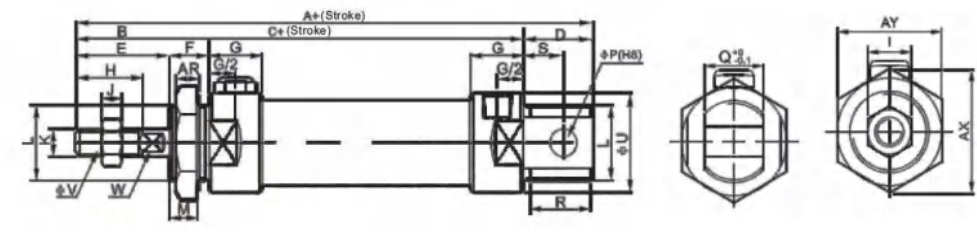
6. Overall and Dimension Sheet:



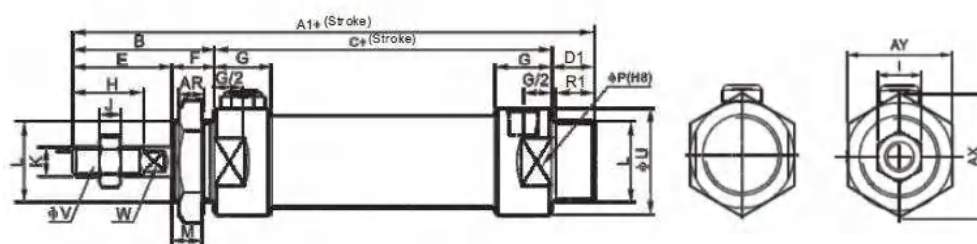
Bore/Symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	114	114	98	38	60	16	16	22	16	10	16	10	5	M6×1
20	131	122	110	40	70	21	12	28	12	16	20	12	6	M8×1.25
25	135	128	114	44	70	21	14	30	14	16	22	17	6	M10×1.25
32	141	128	114	44	70	27	14	30	14	16	22	17	6	M10×1.25
40	165	152	138	45	92	27	14	32	14	22	24	17	7	M12×1.25

Bore/Symbol	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16×1.5	14	6	12	14	14	9	21	6	5	M5	6	25	22
20	M22×1.5	10	8	16	19	10	12	29	8	6	G1/8"	7	33	29
25	M22×1.5	12	8	16	19	12	12	34	10	8	G1/8"	7	33	29
32	M24×2.0	12	10	16	25	12	15	39.5	12	10	G1/8"	8	37	32
40	M30×2.0	12	12	20	25	12	15	49.5	16	14	G1/4"	9	37	41

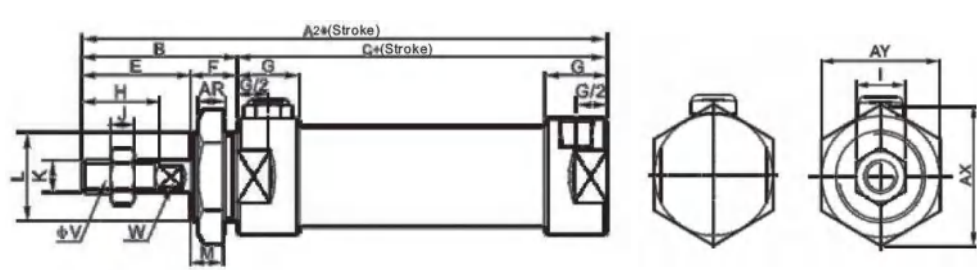
MSAL:



MSAL-CM:



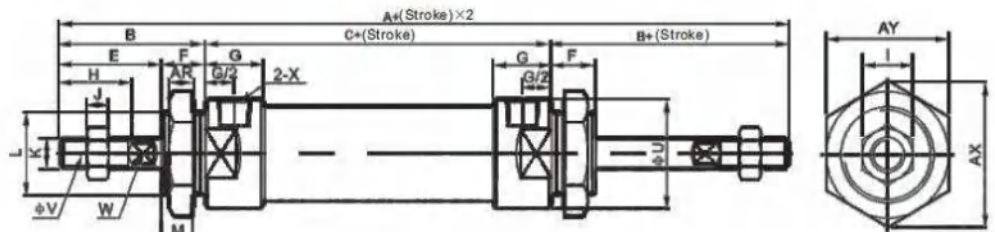
MSAL-U:



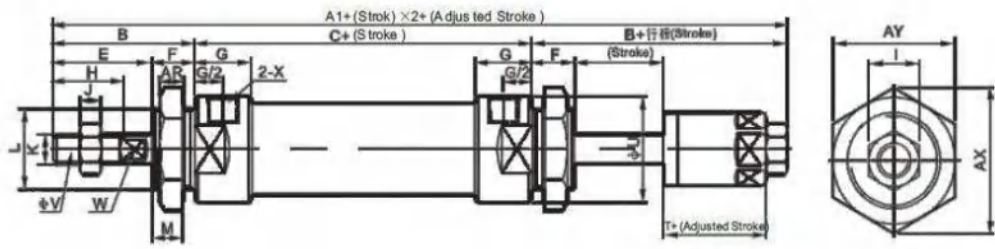
Symbol	A		A1		A2		B		C		D	D1	E	F	G	H	I	J
Bore/Stroke	0-50	51-100	0-50	51-100	0-50	51-100	0-50	51-100	0-50	51-100								
20	131	156	122	147	110	135	40	70	95	21	12	28	12	16	20	12	6	
25	135	160	160	153	114	139	44	70	95	21	14	30	14	16	22	17	6	
32	141	166	166	153	114	139	44	70	95	27	14	30	14	16	22	17	6	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

Inside Diameter/Symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8×1.25	M22×1.5	10	8	16	19	10	12	29	8	6	G1/8"	7	33	29
25	M10×1.25	M22×1.5	12	8	16	19	12	12	34	10	8	G1/8"	7	33	29
32	M10×1.25	M24×2.0	12	10	16	25	12	15	39.5	12	10	G1/8"	8	37	32
40	M12×1.25	M30×2.0	12	12	20	25	12	15	49.5	16	14	G1/4"	9	47	41

MALD:



MALJ:



Inside Diameter/Symbol	A	A1	B	C	E	F	G	H	I	J	K
20	150	147	40	70	28	12	16	20	12	6	M8×1.25
25	158	155	44	70	30	14	16	22	17	6	M10×1.25
32	158	155	44	70	30	14	16	22	17	6	M10×1.25
40	184	180	46	92	32	14	22	24	17	7	M12×1.25

Inside Diameter/Symbol	L	M	U	V	W	X	AR	AX	AY	T
20	M22×1.5	10	29	8	6	G1/8"	7	33	29	19
25	M22×1.5	12	34	10	8	G1/8"	7	33	29	21
32	M24×1.5	12	39.5	12	10	G1/8"	8	37	32	21
40	M30×2.0	12	49.5	16	14	G1/4"	9	47	41	21

CQ2 Series Compact Cylinder



1.Ordering Code :

CQ2

↑

Model

B

↑

Mounting style

-

↑

12 x 10

↑ ↑

Bore Stroke

D

↑

Action type

-

↑

□

↑

Rod thread type

CQ2: Normal type

CDQ2: With magnet inside

A: Female thread on both ends

B: With through hole

12~100mm

0~100mm

D:Double action

S:Single action with spring return

T:Single action with spring extant

Blank: Female thread

M: Male thread

C: With cushion

2.Characteristics:

- 1) This series of cylinder conforms to: SMC standard
- 2) Improved water and magnetic resistance performance
- 3) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 4) Needn't lubricate on piston rod by oil

3.Specification:

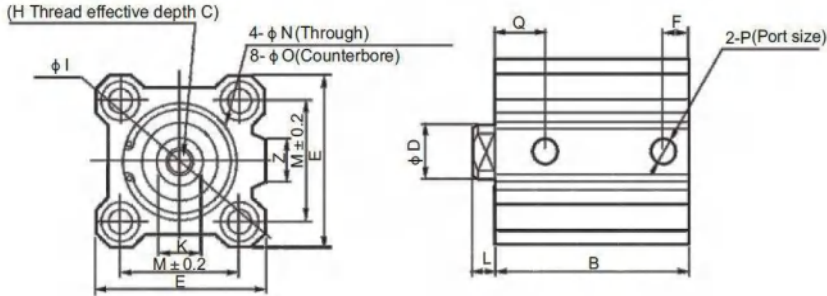
Bore(mm)	12	16	20	25	32	40	50	63	80	100
Working Medium	Air									
Motion Pattern	Double action/Single Action Extrusion type/Single Action Drawing-in Type									
Ensured Pressure Resistance	15.3kgf/cm ² (1.5Mpa)									
Max.pressure	10.2kgf/cm ² (1.0Mpa)									
Environment and fluid temp	5~+60℃									
Thread Type	Inner Thread(Standard)/Outer Thread(Optional)									
Buffering	NO									
Margin of Stroke Error(mm)	+1.0 0									
Installation	Through Hole (Standard). Inner size on the two sides(Optional)									
Port size	M5×0.8		G1/8"		G1/4"		G3/8"			

Note:Pls Confirm Single Type Can't With Cushion.

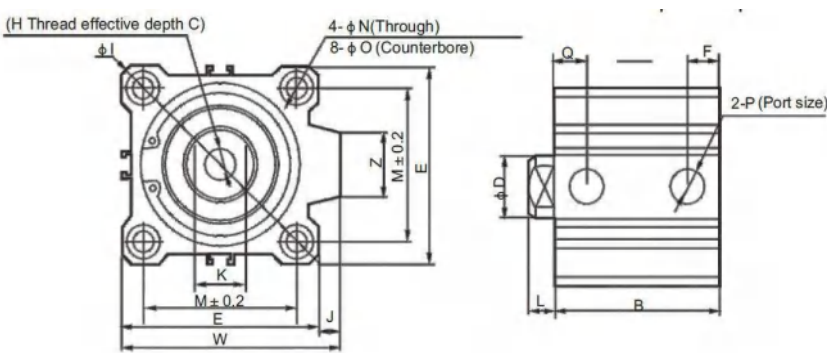
4. Overall and Dimension Sheet:

1) Through hole type CQ2 series:

Φ12~Φ25:



Φ32~Φ100:



Dimension for double action type:

Model	Stroke range (mm)	B	ΦD	E	F	H	C	ΦI	J	K	L	M	ΦN	ΦO	P	Q	W	Z
CQ2B12-□D	5~30	17+st	6	25	5	M3×0.5	6	32	-	5	3.5	15.5	3.5	6.5 depth 3.5	M5×0.8	7.5	-	-
CQ2B16-□D	5~30	18.5+st	8	29	5.5	M4×0.7	8	38	-	6	3.5	20	3.5	6.5 depth 3.5	M5×0.8	8	-	10
CQ2B20-□D	5~50	19.5+st	10	36	5.5	M5×0.8	7	47	-	8	4.5	25.5	5.5	9 depth 7	M5×0.8	9	-	10
CQ2B25-□D	5~50	22.5+st	12	40	5.5	M6×1.0	12	52	-	10	5	28	5.5	9 depth 7	M5×0.8	11	-	10
CQ2B32-□D	5 10~50	23+st	16	45	5.5 7.5	M8×1.25	13	60	4.5	14	7	34	5.5	9 depth 7	M5×0.8 1/8	11.5 10.5	49.5	18
CQ2B40-□D	5~50	29.5+st	16	52	8	M8×1.25	13	69	5	14	7	40	5.5	9 depth 7	1/8	11	57	18
CQ2B50-□D	10~50	30.5+st	20	64	10.5	M10×1.5	15	86	7	17	8	50	6.6	11 depth 8	1/4	10.5	71	22
CQ2B63-□D	10~50	36+st	20	77	10.5	M10×1.5	15	103	7	17	8	60	9	14 depth 10.5	1/4	15	84	22
CQ2B80-□D	10~50	43.5+st	25	98	12.5	M16×2.0	21	132	6	22	10	77	11	17.5 depth 13.5	3/8	16	104	26
CQ2B100-□D	10~50	53+st	30	117	13	M20×2.5	27	156	6.5	27	12	94	11	17.5 depth 13.5	3/8	23	123.5	26

- Note 1)The standard stroke is at a distance of each 5 mm.
- Note 2)The stroke between 55mm-100mm(55,60,65,70,80,85,90,95,)need to be added thickness of 5,10,15 or 20mm pad.
- Note 3)External dimensions with rumper are same as standard type as shown above.

Long Stroke:

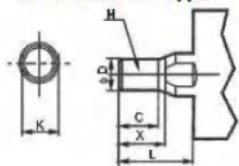
Model	(mm)	B	F	P	Q
32	75,100	33	7.5	1/8	10.5
40	75,100	39.5	8	1/8	11
50	75,100	40.5	10.5	1/4	10.5
63	75,100	46	10.5	1/4	15
80	75,100	53.5	12.5	3/8	16
100	75,100	63	13	3/8	23

St=(Stroke)

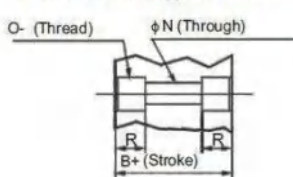
Dimension for single action type:

Model	B			ΦD	E	F		H	C	ΦI	J	K	L	M	ΦN	ΦO	P			Q		W	Z
	5st	10st	20st			5st	10st										5st	10st	20st	5st	10st		
CQ2B12-□S	22	27	-	6	25	5	5	M3×0.5	6	32	-	5	3.5	15.5	3.5	6.5 /depth 3.5	M5×0.8	-	7.5	7.5	-	-	-
CQ2B16-□S	23.5	28.5	-	8	29	5.5	5.5	M4×0.7	8	38	-	6	3.5	20	3.5	6.5 /depth 3.5	M5×0.8	-	8	8	-	10	-
CQ2B20-□S	24.5	29.5	-	10	36	5.5	5.5	M5×0.8	7	47	-	8	4.5	25.5	5.5	9 /depth 7	M5×0.8	-	9	9	-	10	-
CQ2B25-□S	27.5	32.5	-	12	40	5.5	5.5	M6×1.0	12	52	-	10	5	28	5.5	9 /depth 7	M5×0.8	-	11	11	-	10	-
CQ2B32-□S	28	33	-	16	45	5.5	7.5	M8×1.25	13	60	4.5	14	7	34	5.5	9 /depth 7	M5×0.8	1/8	-	11.5	11.5	49.5	18
CQ2B40-□S	34.5	39.5	-	16	52	8	8	M8×1.25	13	69	5	14	7	40	5.5	9 /depth 7	1/8	-	11	11	57	18	
CQ2B50-□S	-	40.5	50.5	20	64	10.5	10.5	M10×1.5	15	86	7	17	8	50	6.6	11 /depth 8	-	1/4	10.5	10.5	71	22	

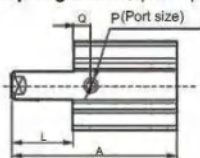
Thread outer Type



Inner Thread Type/CQ2A



Single Action (with Spring extent) Φ12~Φ50



Thread outer Type

Bore (mm)	C	X	ΦD	H	L	K
12	9	10.5	6	M5×0.8	14	5
16	10	12	8	M6×1.0	15.5	6
20	12	14	10	M8×1.25	18.5	8
25	15	17.5	12	M10×1.25	22.5	10
32	20.5	23.5	16	M14×1.5	28.5	14
40	20.5	23.5	16	M14×1.5	28.5	14
50	26	28.5	20	M18×1.5	33.5	17
63	26	28.5	20	M18×1.5	33.5	17
80	32.5	35.5	25	M22×1.5	43.5	22
100	32.5	35.5	30	M26×1.5	43.5	27

Note3) Inner Thread Type

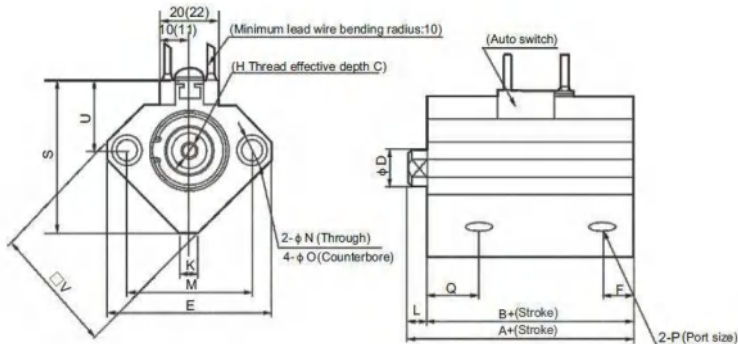
Single Action (with Spring extent)

Bore (mm)	A			L		
	5st	10st	20st	5st	10st	20st
12	30.5	40.5	-	8.5	13.5	-
16	32	42	-	8.5	13.5	-
20	34	44	-	9.5	14.5	-
25	37.5	47.5	-	10	15	-
32	40	50	-	12	17	-
40	46.5	56.5	-	12	17	-
50	-	58.5	78.5	-	18	28

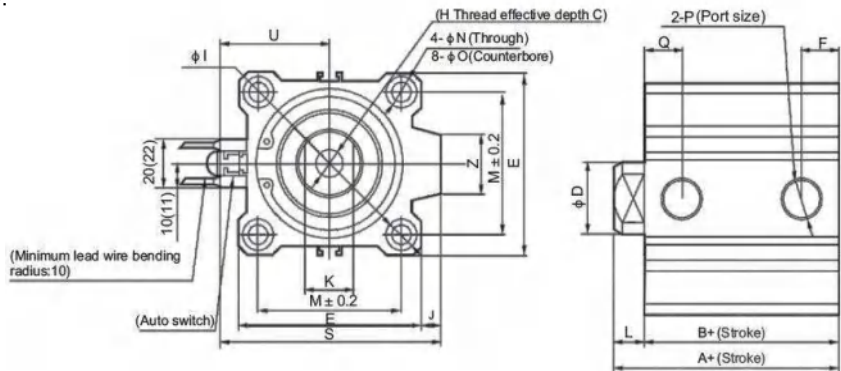
*External dimensions with rump are same as standard type as shown above.

2) CDQ2 series:

Φ12~Φ25:



Φ32~Φ100:



Dimension for double action type:

Model	Stroke range (mm)	A	B	ΦD	E	F	H	C	ΦI	J	K	L	M	ΦN	ΦO	P	Q	S	U	V	Z
CDQ2B12	5~30	31.5	28	6	32	6.5	M3×0.5	6	-	-	5	3.5	22	3.5	6.5 depth 3.5	M5×0.8	11	35.5	19.5	25	-
CDQ2B16	5~30	34	30.5	8	38	5.5	M4×0.7	8	-	-	6	3.5	28	3.5	6.5 depth 3.5	M5×0.8	10	41.5	22.5	29	-
CDQ2B20	5~50	36	31.5	10	46.8	5.5	M5×0.8	7	-	-	8	4.5	36	5.5	9 depth 7	M5×0.8	10.5	48	24.5	36	-
CDQ2B25	5~50	37.5	32.5	12	52	5.5	M6×1.0	12	-	-	10	5	40	5.5	9 depth 7	M5×0.8	11	53.5	27.5	40	-
CDQ2B32	5~50	40	33	16	45	7.5	M8×1.25	13	60	4.5	14	7	34	5.5	9 depth 7	1/8	10.5	58.5	31.5	-	18
CDQ2B40	5~50	46.5	39.5	16	52	8	M8×1.25	13	69	5	14	7	40	5.5	9 depth 7	1/8	11	66	35	-	18
CDQ2B50	10~50	48.5	40.5	20	64	10.5	M10×1.5	15	86	7	17	8	50	6.6	11 depth 8	1/4	10.5	80	41	-	22
CDQ2B63	10~50	54	46	20	77	10.5	M10×1.5	15	103	7	17	8	60	9	14 depth 10.5	1/4	15	93	47.5	-	22
CDQ2B80	10~50	63.5	53.5	25	98	12.5	M16×2.0	21	132	6	22	10	77	11	17.5 depth 13.5	3/8	16	112.5	57.5	-	26
CDQ2B100	10~50	75	63	30	117	13	M20×2.5	27	156	6.5	27	12	94	11	17.5 depth 13.5	3/8	23	132.5	67.5	-	26

Long Stroke:

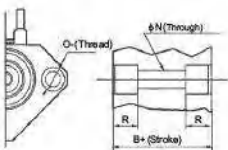
Model	Stroke	A	B	F	P	Q
32	75,100	40	33	7.5	1/8	10.5
40	75,100	46.5	39.5	8	1/8	11
50	75,100	48.5	40.5	10.5	1/4	10.5
63	75,100	54	46	10.5	1/4	15
80	75,100	63.5	53.5	12.5	3/8	16
100	75,100	75	63	13	3/8	23

Note 1)The standard stroke is at a distance of each 5 mm.
Note 2)The stroke between 55mm-100mm(55,60,65,70,80,85,90,95, need to be added thickness of 5,10,15 or 20mm pad.
Note 3)External dimensions with rump are same as standard type as shown above.
Note 4)The stroke of cylinder in 5 mm can be fixed only one magnetism with

Inner Thread Type

Bore (mm)	O	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14
63	M10×1.5	18
80	M12×1.75	22
100	M12×1.75	22

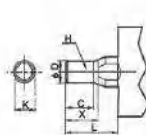
CDQ2A Inner Thread Type



Outer thread type

Bore (mm)	C	X	ΦD	H	L	K
12	9	10.5	6	M5×0.8	14	5
16	10	12	8	M6×1.0	15.5	6
20	12	14	10	M8×1.25	18.5	8
25	15	17.5	12	M10×1.25	22.5	10
32	20.5	23.5	16	M14×1.5	28.5	14
40	20.5	23.5	16	M14×1.5	28.5	14
50	26	28.5	20	M18×1.5	33.5	17
63	26	28.5	20	M18×1.5	33.5	17
80	32.5	35.5	25	M22×1.5	43.5	22
100	32.5	35.5	30	M26×1.5	43.5	27

Outer thread type



CU, CDU Series Free Mounting Cylinder



1.Ordering Code :

CU	□	-	10	-	30	D	-	A93
Model	Rod Type		Bore		Stroke	Action type		Magnet switch type
CU: Normal type	Black: Basic type		6mm		0~50mm	D:Double action		Blank: No switch
CDU: With magnet inside	K: Non-rotating piston rod type		10mm			S:Single action with spring return		
			16mm			T:Single action with spring extent		
			20mm					
			25mm					
			32mm					

2.Characteristics:

- 1) This series free installation cylinders can be mounted freely and easily.
- 2) Small size and light weight.
- 3) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 4) Needn't lubricate on piston rod by oil

3.Specification:

Bore(mm)		6mm	10mm	16mm	20mm	25mm	32mm
Working Medium		Air					
Motion Pattern		Double action/Single Action Extrusion type/Single Action Drawing-in Type					
Ensured Pressure Resistance		1.05Mpa(10.5kgf/cm ²)					
Max. Working-pressure		0.7Mpa(7.1kgf/cm ²)					
Min. operating pressure	Single	0.2MPa	0.15MPa			0.13MPa	
	Double	0.12MPa	0.06MPa			0.05MPa	
Ambient and Medium Temperature		Without auto switch:-10~70℃(No freezing) With auto switch:-10~60℃(No freezing)					
Lubrication		Non-lube					
Piston speed		50-500 mm/s					
Cushion		Rubber bumper ^(mm)					
Rod end thread		Male thread					
Thread tolerance		Class 2					
Cushion		Both ends buffer					
Margin of Stroke Error(mm)		±1.0 ^{mm}					
Precision of Piston rod with Non-rotating		±0.8°					
Port Size		M5×0.8					
							G1/8"

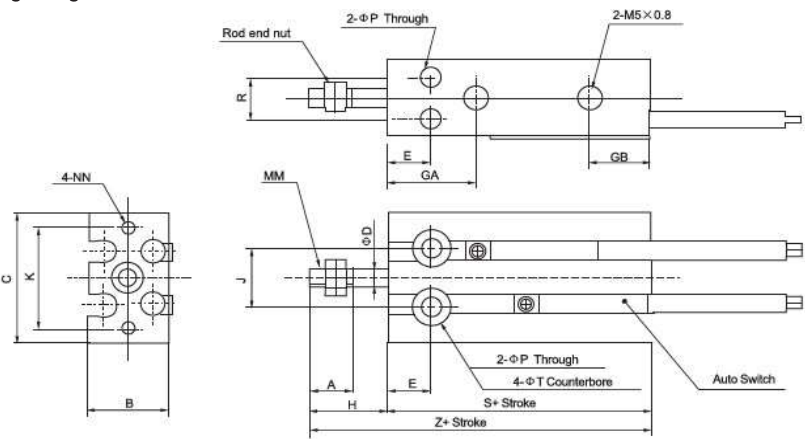
4. Stroke:

	Bore size (mm)	Standard stroke(mm)
Double Acting	6,10,16	5,10,15,20,25,30
	20,25,32	5,10,15,20,25,30,40,50
Single Acting	6,10,16,20,25,32	5,10,15

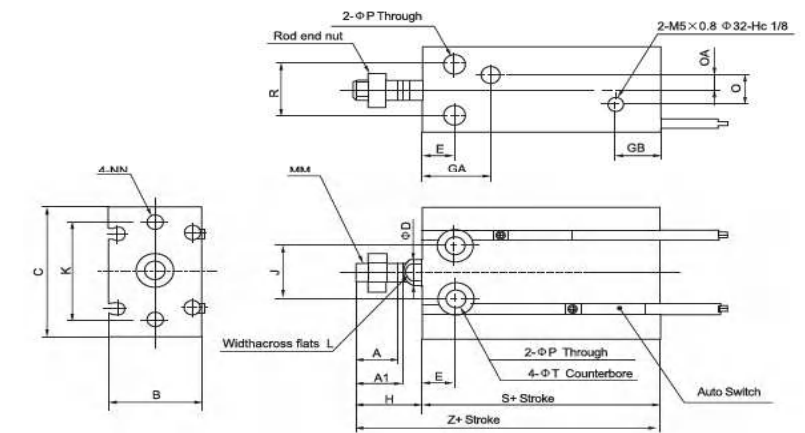
5. Overall and Dimension Sheet:

1) Double Acting, Single Rod:

Φ6~Φ10:



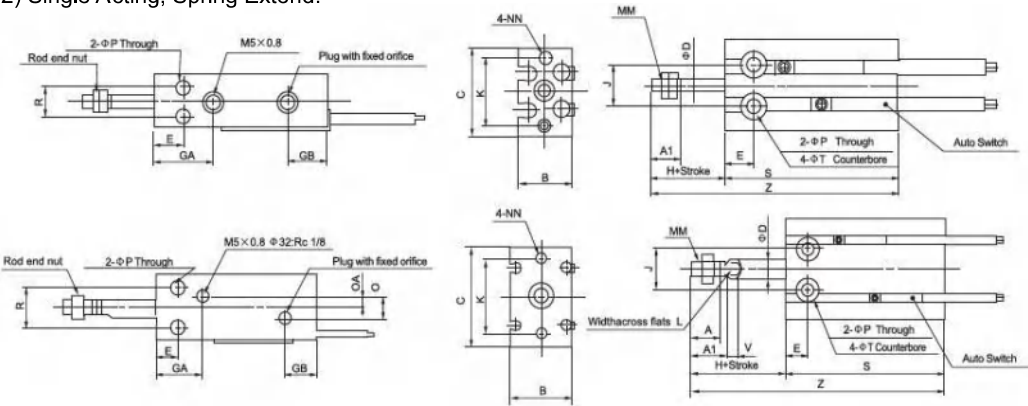
Φ16~Φ32:



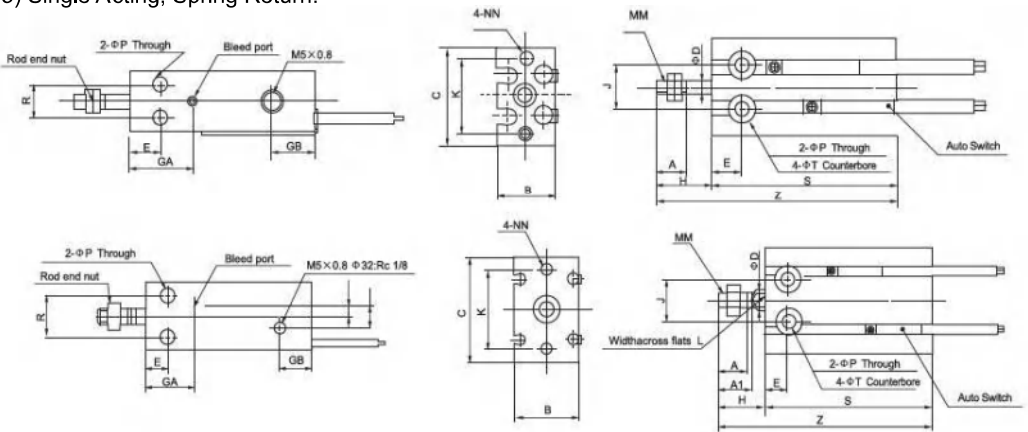
Bore size(mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	MM
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4×0.7
16	11	12.5	20	32	6	7	16.5 ^(Note)	11.5	16	25	14	5	M5×0.8
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25
32	19.5	22	40	62	12	11	23	12.5	27	48	24	10	M10×1.25

Bore size (mm)	NN	P	Q	QA	R	T	Without Auto Switch		With Auto Switch	
							S	Z	S	Z
6	M3×0.5 depth 5	3.2	-	-	7	6 depth 4.8	33	46	33	46
10	M3×0.5 depth 5	3.2	-	-	9	6 depth 5	36	52	36	52
16	M4×0.7 depth 6	4.5	4	2	12	7.6 depth 6.5	30	46	40	56
20	M5×0.8 depth 8	5.5	9	4.5	16	9.3 depth 8	36	55	46	65
25	M5×0.8 depth 8	5.5	9	4.5	20	9.3 depth 9	40	63	50	73
32	M6×1.0 depth 9	6.6	13.5	4.5	24	11 depth 11.5	42	69	52	79

2) Single Acting, Spring Extend:



3) Single Acting, Spring Return:



Bore size(mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	MM	NN	P		
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5	M3×0.5 (depth) 5	3.2		
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4×0.7	M3×0.5 (depth) 5	3.2		
16	11	12.5	20	32	6	7	16.5	11.5	16	25	14	5	M5×0.8	M4×0.7 (depth) 6	4.5		
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0	M5×0.8 (depth) 8	5.5		
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25	M5×0.8 (depth) 8	5.5		
32	19.5	22	40	62	12	11	23	12.5	27	48	24	10	M10×1.25	M6×1.0 (depth) 9	6.6		
Bore size (mm)	Q	QA	R	T	V (Note)	Without Auto Switch						With Auto Switch					
						S			Z			S			Z		
						5st	10st	15st	5st	10st	15st	5st	10st	15st	5st	10st	15st
6	-	-	7	6 (depth) 4.8	-	38	43	48	56	66	76	38	43	48	56	66	76
10	-	-	9	6 (depth) 5	-	41	46	56	62	72	87	41	46	56	62	72	87
16	4	2	12	7.6 (depth) 6.5	3.5	45	50	60	66	76	91	45	50	60	66	76	91
20	9	4.5	16	9.3 (depth) 8	5	41	46	56	65	75	90	51	56	66	75	85	100
25	9	4.5	20	9.3 (depth) 9	5	45	50	60	73	83	98	55	60	70	83	93	108
32	13.5	4.5	24	11 (depth) 11.5	5	47	52	62	79	89	104	57	62	72	89	99	114

Note) "V" Only for Single Acting, Spring Extend

CXS Series Dual Rod Cylinder



1.Ordering Code :

CXS	M	-	20	x	50
↑	↑		↑		↑
Model	Bearing Type		Bore		Stroke
CXS: With magnet inside	M: Slide Bearing Type L: Ball Guide Bearing		6mm 10mm 16mm 20mm 25mm 32mm		0~100mm

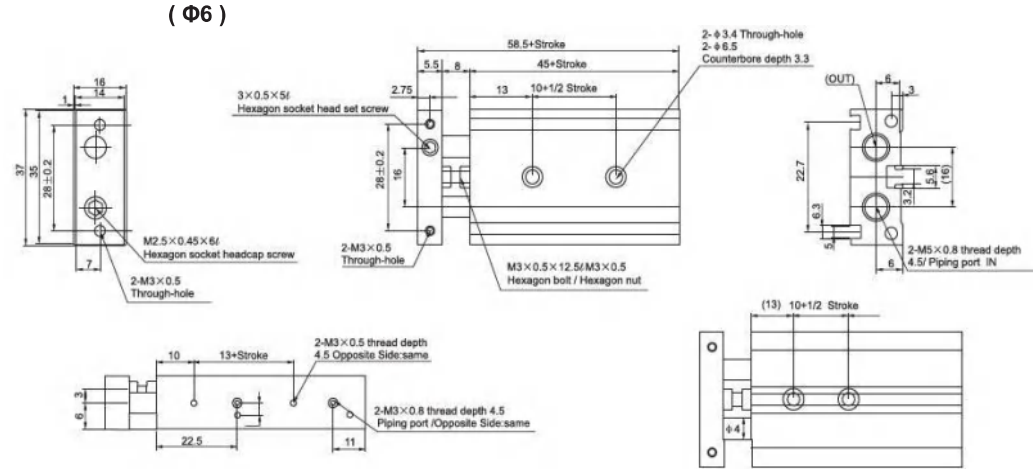
2.Characteristics:

- 1) Double cylinder structure with high precision and dual output force.
- 2) No rotation.
- 3) Better performance against side loads.
- 4) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

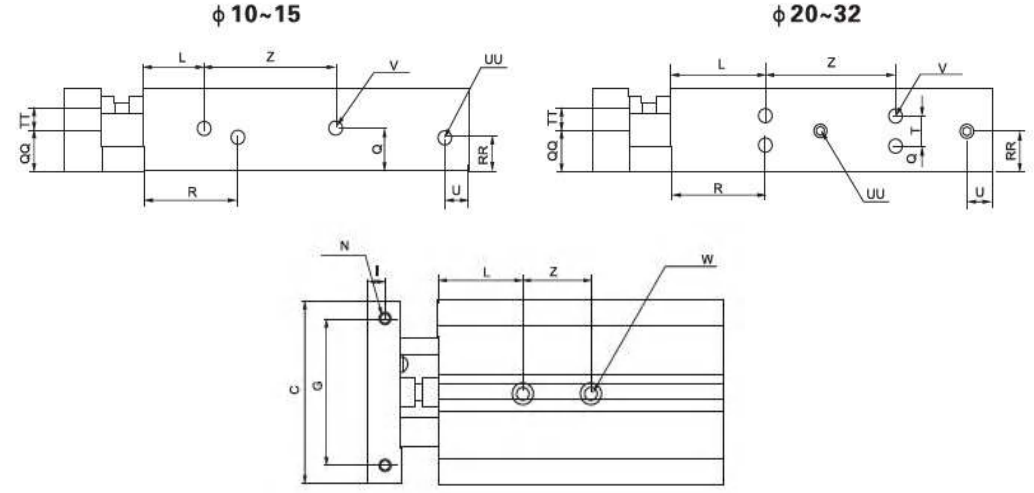
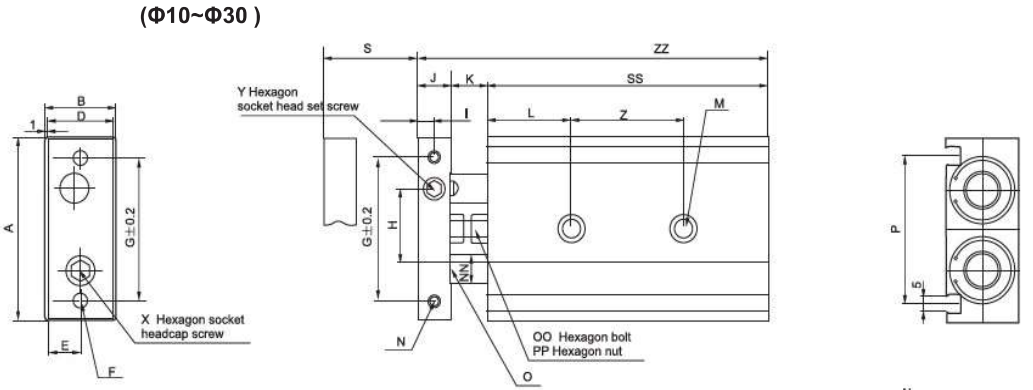
3.Specification:

Bore(mm)	6	10	15	20	25	32
Working Medium	Air					
Motion Pattern	Double action					
Ensured Pressure Resistance	1.05Mpa(10.7kgf/cm ²)					
Max.pressure	0.7Mpa(7.1kgf/cm ²)					
Min.pressure	0.15Mpa(1.5kgf/cm ²)	0.1Mpa(1.0kgf/cm ²)		0.05Mpa(0.51kgf/cm ²)		
Operating Temperature Range	5~60℃					
Buffering	Both ends buffer					
Structure	Double Power					
Stroke Adjustable Range	Return Stroke: 0~5mm					
Bearing	Slide Bearing/Ball Guide Bearing					
Precision of Piston rod Non-rotating	Slide Bearing	±0.1	±0.15	±0.13	±0.11	±0.1
	Ball Guide Bearing	±0.1	±0.1	±0.07	±0.06	±0.05
Port size	M5×0.8					

4. Overall and Dimension Sheet:



Model	Stroke	10+1/2 Stroke	13+Stroke	45+Stroke	58.5+Stroke
CXS□6-10	10	15	23	55	68.5
CXS□6-20	20	20	33	65	78.5
CXS□6-30	30	25	43	75	88.5
CXS□6-40	40	30	53	85	95.5
CXS□6-50	50	35	63	95	108.5



5. Overall and Dimension Sheet:

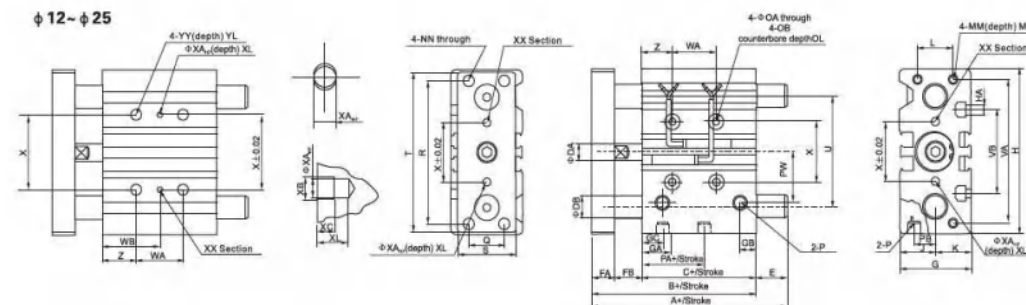


MGP	M	-	25	x	50
↑	↑		↑		↑
Model	Bearing Type		Bore		Stroke
MGP: With magnet inside	M: Slide Bearing Type L: Ball Guide Bearing		12~100mm		10~200mm

- 1) Double cylinder structure with high precision and dual output force.
- 2) Three shaft can bear higher side loads and no rotation.
- 3) Better performance against side loads.
- 4) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

Bore(mm)		12	16	20	25	32	40	50	63	80	100
Working Medium		Air									
Motion Pattern		Double-action									
Ensured Pressure Resistance		1.5Mpa(15.3kgf/cm ²)									
Max.Operating pressure		1.0Mpa(10.2kgf/cm ²)									
Min. Operating pressure		0.12Mpa(1.2kgf/cm ²)									
Ambient and Medium Temperature		-10~+60℃									
Piston Speed		50~500mm/s								50~400mm/s	
Buffer		Rubber Cushion									
Tolerance of Stroke		+1.5 0 mm									
Bearing		Slide bearing/ball guide bearing									
Precision of Piston rod Non-rotating	Slide Bearing	±0.08*		±0.07*		±0.06*		±0.05*		±0.04*	
	Ball Guide Bearing	±0.10*		±0.09*		±0.08*		±0.06*		±0.05*	
Port size		M5×0.8		G1/8"		G1/4"		G1/4"		G3/8"	

Bore size (mm)	Standard stroke (mm)
12,16	10,20,30,40,50,75,100,125,150,175,200,250
20,25	20,30,40,50,75,100,125,150,175,200,250,300,350,400
32 to 100	25,50,75,100,125,150,175,200,250,300,350,400



Bore size	Standard stroke (mm)	B	C	DA	FA	FB	G	GA	GB	H	HA	J	K	L	MM	ML	NN	OA
12	10,20,30,40, 50,75,100	42	29	6	8	5	26	11	7.5	58	M4	13	13	18	M4×0.7	10	M4×0.7	4.3
16		46	33	8	8	5	30	11	8	64	M4	15	15	22	M5×0.8	12	M5×0.8	4.6
20	20,30,40,50,75, 100,125,150,175,200	53	37	10	10	6	36	10.5	8.5	83	M5	18	18	24	M5×0.8	13	M5×0.8	5.0
25		53.5	37.5	12	10	6	42	11.5	9	93	M5	21	21	30	M6×1.0	15	M6×1.0	5.6

Bore size	Standard stroke (mm)	OB	OL	P	PA	PB	PW	Q	R	S	T	U	VA	VB	X	XA	XB	XC	YL	Z
12	10,20,30,40, 50,75,100	8	4.5	M5×0.8	13	8	18	14	48	22	56	41	50	37	23	3	3.5	3	10	5
16		8	4.5	M5×0.8	15	10	19	16	54	25	62	46	56	38	24	3	3.5	3	10	5
20	20,30,40,50,75, 100,125,150,175,200	9.5	5.5	RC1/8	12.5	10.5	25	18	70	30	81	54	72	44	28	3	3.5	3	12	17
25		9.5	5.5	RC1/8	12.5	13.5	28.5	26	78	38	91	64	82	50	34	4	4.5	3	12	17

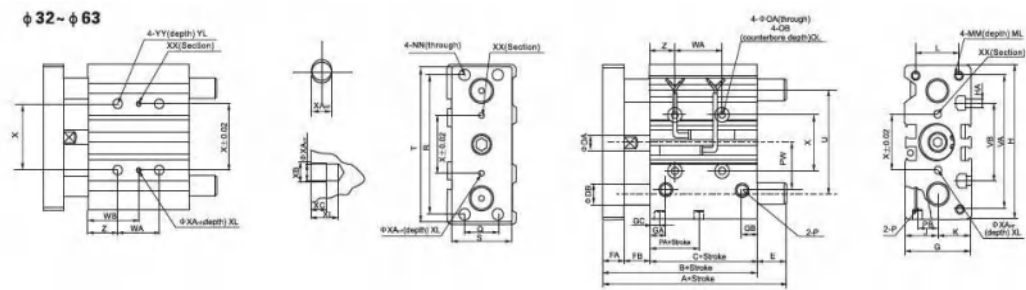
Bore size	Standard stroke (mm)	WA			WB			XL	YY
		30 st or less	Over 40 st to 100 st	125 st or less	30 st or less	Over 40 st to 100 st	125 st or less		
12	10,20,30,40, 50,75,100	20	40	-	15	25	-	6	M5×0.8
16		24	44	-	17	27	-	6	M5×0.8
20	20,30,40,50, 75, 100,125,150,175,200	24	44	120	29	39	77	6	M6×1.0
25		24	44	120	29	39	77	6	M6×1.0

Bore size	A			D _B	E		
	50st≥	50st< 100st≥	100st<		50st≥	50st< 100st≥	100st<
12	42	60.5	85	8	0	18.5	43
16	46	64.5	95	10	0	18.5	49

A			DB	E		
30st \geq	30st< 100st \geq	100st<		30st \geq	30st< 100st \geq	100st<
43	55	85	6	1	13	43
49	65	95	8	3	19	49

Bore size	A			DB	E		
	50st \geq	50st< 200st \leq	200st<		50st \geq	50st< 200st \leq	200st
20	53	84.5	122	16	0	31.5	69
25	53.5	85	122	20	0	31.5	68.5

A				DB	E			
30st \geq	30st< 100st \geq	100st< 200st \geq	200st<		30st \geq	30st< 100st \geq	100st< 200st \geq	200st<
63	80	104	122	10	10	27	51	69
69.5	80.5	104.5	122	13	16	32	51	68.5



Bore size	Standard stroke(mm)	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	K	L	MM	ML	NN	OA
32	25,50,70,100,125,150,175,200	59.5	37.5	16	12	10	48	12.5	9	12.5	112	M6	24	24	34	M8×1.25	20	M8×1.25	6.6
40		66	44	16	12	10	54	14	10	14	120	M6	27	27	40	M8×1.25	20	M8×1.25	6.6
50		72	44	20	16	12	64	14	11	12	148	M8	32	32	46	M10×1.5	22	M10×1.5	8.6
63		77	49	20	16	12	78	16.5	13.5	16.5	162	M10	39	39	58	M10×1.5	22	M10×1.5	8.6

Bore size	Standard stroke(mm)	OB	OL	P	PA	PB	PW	Q	R	S	T	U	VA	VB	X	XA	XB	XC	XL	Z
32	25,50,70,100,125,150,175,200	11	7.5	RC1/8	7	15	34	30	96	44	110	78	98	63	42	4	4.5	3	6	21
40		11	7.5	RC1/8	13	18	38	30	104	44	118	86	106	72	50	4	4.5	3	6	22
50		14	9	RC1/4	9	21.5	47	40	130	60	146	110	130	92	66	5	6	4	8	24
63		14	9	RC1/4	14	28	55	50	130	70	158	124	142	110	80	5	6	4	8	24

Bore size	Standard stroke(mm)	WA			WB			YY	YL
		25 st	50,75,100 st	100 st or above	25 st	50,75,100 st	100 st or above		
32	25,50,70,100,125,150,175,200	24	48	124	33	45	83	M8×1.25	16
40		24	48	124	34	46	84	M8×1.25	16
50		24	48	124	36	48	86	M10×1.5	20
63		28	52	128	38	50	88	M10×1.5	20

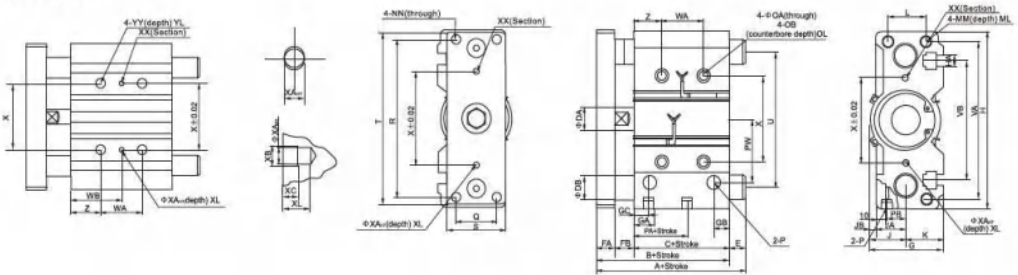
MGPM Slide bearing

Bore size	A			DB	E		
	50st≥	50st<200st≥	200st<		50st≥	50st<200st≥	200st<
32	97	102	140	20	37.5	42.5	80.5
40	97	102	140	20	31	36	74
50	106.5	118	161	25	34.5	46	89
63	106.5	118	161	25	29.5	41	84

MGPL Ball bushing bearing

Bore size	A				DB	E			
	50st≥	50st<100st≥	100st<200st≥	200st<		50st≥	50st<100st≥	100st<200st≥	200st<
32	81	98	118	140	16	21.5	38.5	58.5	80
40	81	98	118	140	16	15	32	52	74
50	93	114	134	161	20	21	42	62	89
63	93	114	134	161	20	16	37	57	84

φ 80~φ 100



Bore size	Standard stroke (mm)	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	LA	JB	K	L	MM	ML	NN	OA
80	20,50,75,100,125,150,175,200	95.5	56.5	25	22	18	91.5	19	15.5	14.5	202	M12	45.5	38	7.5	46	54	M12×1.75	30	M12×1.75	10.6
100		116	66	30	25	25	111.5	23	19	18	240	M14	55.5	45	10.5	56	62	M14×2.0	32	M14×2.0	12.5

Bore size	Standard stroke (mm)	OB	OL	P	PA	PB	PW	Q	R	S	T	U	VA	VB	X	XA	XB	XC	XL	Z
80	20,50,75,100,125,150,175,200	17.5	8	RC3/8	14.5	25.5	74	52	174	75	198	156	180	140	100	6	7	5	10	28
100		20	8	RC3/8	17.5	32.5	89	64	210	90	236	188	210	166	124	6	7	5	10	11

Bore size	Standard stroke (mm)	WA			WB			YY	YL
		25 st	50,75,100 st	100 st or above	25 st	50,75,100 st	100 st or above		
80	20,50,75,100,125,150,175,200	28	52	128	42	54	92	M12×1.75	24
100		48	72	148	35	47	85	M14×2.0	28

MGPM Slide bearing

Bore size	A			DB	E		
	50st≥	50st<200st≥	200st<		50st≥	50st<200st≥	200st<
80	115	142	193	30	18.5	45.5	96.5
100	137	162	203	36	21	46	87

MGPL Ball bushing bearing

Bore size	A				DB	E			
	50st≥	25st<50st≥	50st<200st≥	200st<		50st≥	25st<50st≥	50st<200st≥	200st<
80	109.5	130	160	193	25	13	33.5	63.5	96.5
100	121	147	180	203	30	5	31	64	87