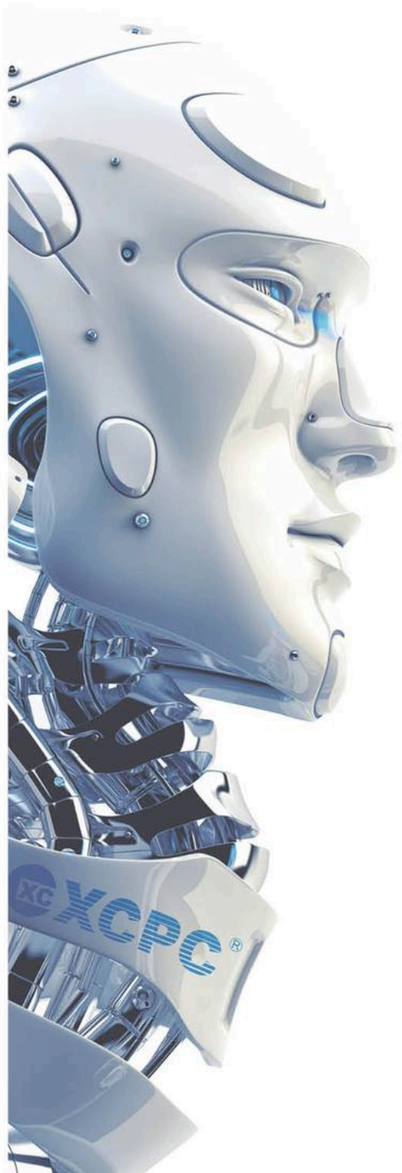
XCPC®

2024
Product Catalogues





PNEUMATIC

Ningbo Xinchao Automatization Component Co., Ltd.

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XCPC **Spirit**

Automation field manufacturing
and R & D experts

Enhance competitiveness of XCPC brand,
explore the world market with XCPC brand,
keep improving the product quality and
service to reach the best.

Image **Text**

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Company
Profile



33
Anniversary

310
On-the-job staff

158000000
Annual output value

Ningbo Xinchao Automatization Component Co.,Ltd was established in 1991, is a high-tech company specialized in pneumatic components manufacturing. At present, XCPC has become one of the biggest pneumatic components manufacturing and exporting company in China. Specialized in producing Pneumatic cylinder, solenoid valve, Air source treatment, Pneumatic fittings, PU/PE/NY tubes etc. XCPC has bought more first-class CNC machining center, from United States, Japan, Italy and other foreign countries like high-speed automatic lathe, CNC machining, precision EDM, injection molding, stamping, die-casting and other various equipments. XCPC not only have advanced processing equipments, but also equipped with a consummate testing facilities and strong technical support. Managed criterion in the production, quality, material management and so on, operates strictly according to the standards and process of international quality system.

The company has more than 300 employees, among them, 30% are professionals, the company has quality control Dept and R & D Dept. With the strong scientific and technological strength and rich professional experience. We can design, develop, and produce various kinds of pneumatic components and complete sets of equipment by ourselves. We Continue innovation, from product design to production, we improve better and better. The key seal kits and magnet of products are imported from Germany, Japan, Switzerland, Taiwan. Provide the customers with excellent performance products. Received recognition from customers come from more than 60 countries and regions with the excellent products and good service. In domestic and abroad enjoy high Visibility.

XCPC has passed the ISO9001: 2000 international quality system certification advance in the pneumatic line, use computer network management system, first-class employee training center. XCPC are moving to the the direction of modernization, Internationalization and Group.

Development History



XCPC
1991
Factory founded

1995
800+ m^2
28+ Staff
3+ NC Machinery

1997
"XCPC"
brand founded

2001
Approved by
ISO9001

2002
First year start
export

2005
3000+ m^2
R&D center founded
15+ NC Machinery

2009
6000+ m^2
176+ Staff

2012
Professor researching
center founded

2015
20000+ m^2
300+ Staff
100+ NC Machinery

2024
Exporting to 100+ Countries
XCPC agent in 48 countries

Corporate Culture

25%

Our location

To be the benchmark of automation industry

50%

Our philosophy

Focus: focus on automation control industry
Sharing: sharing the achievement and high quality service with customers

75%

Our values

Innovation creates value

100%

Our service

Pre-sales: fast reaction to customers' needs and long term following up
After-sales: collect and analyze customers' feedback
Technics: Strong technical support for customized products.

XCPC
Honor & Certificates

- China National High-tech Enterprise
- Famous Brand of Zhejiang Province
- Famous Branded Products of Ningbo
- Scientific & technological enterprise of Ningbo
- Ningbo enterprise R & D center
- Public Service Platform
- Famous Export Brand
- Professor researching center
- Top 10 Enterprise Comprehensive
- Switzerland SGS Certificate
- France Bureau Veritas Certificate
- CE、ISO9001





R & D Team

"Innovation creates future" is the motto of XCPC forever, no innovation, no market.

XCPC has a powerful R & D team which has independent design development and production of various.
types of pneumatic components & automation equipment, continuous innovation, keep improvi ng from product design to production operations, providing excellent products and services for customers.





R&D Team

XCPC cooperate with many famous universities,
have attracted many professional and technical persons to join us.
In 2012, automation engineer from Italy joined XCPC R & D team
In 2014, automation engineer from USA joined XCPC R & D team
In 2018, automation engineer from Canada joined XCPC R & D team

R&D Power

Powerful science and technology
Professional experience
Excellent production and processing equipment
A number of product invention and utility model patents



Technical Team



Providing a strong technical support, completing the formulation and implementation of product testing solutions
Responsible for technical exchanges with customers, understanding customer demand for testing products
Responsible for product promotion and market research
Help customers solve the problems when using products
To collect, process, feedback and track customer feedback on product usage
Writing technical documentation and training materials for test products

Production
Capacity & Team

XCPC'S rapid development in recent years, in order to meet higher demands from customers around the world, we bought more advanced automation equipment and management philosophy, the more advanced parts machining and assembly technology, imported premier multi-platform machining from different countries:
Full CNC machining center;
High-speed automatic lathes;
CNC machine tools machining;
High-precision EDM.
XCPC are fighting to stand on the same starting line with the advanced international standard every day. Provide customers with "high-precision, high efficiency, high-quality" product is the commitment we have promised.















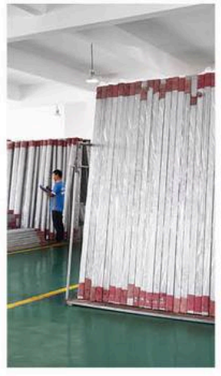




Assembly and **Warehouse**









As an important segment of the complete production, high precise assembling is the key segment to guarantee the stable performance in tough production line, for this reason, we have set up a high standard assembling instruction for all the components for our products like cylinder, solenoid valve, air source treating unit etc.

Clean and tidy storing and high efficiency accessory pick up program is our main solution to lowest the mistakes, it is a strong guarantee of the production and shipping.

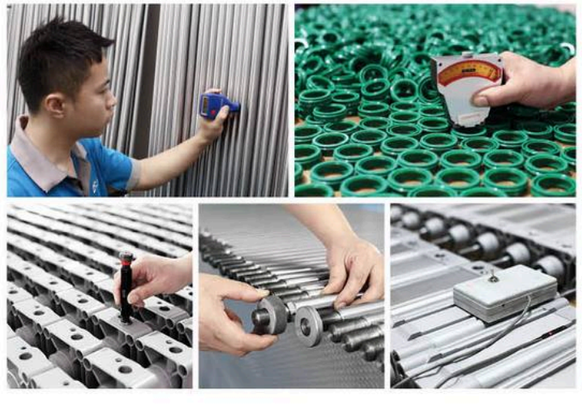




Provide customers with "high-precision, high efficiency, high-quality" product is the commitment XCPC have promised.

Product **Inspection**

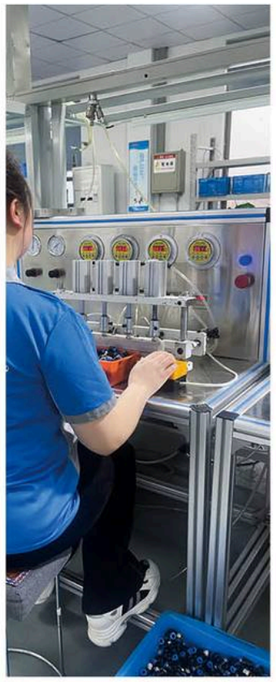
XCPC has established strict quality management system., With perfect testing facilities, from selection of raw materials to components testing, round after round of procedures are strictly checked, special examination, brief but an awareness in every aspect of production are fully reflected in the production, quality, materials, and other aspects of management standards, strictly process accordance with product design process, strictly manage accordance with the modern enterprise management philosophy to strengthen on-site management, strictly operate accordance with the provisions of international quality system and procedures.



Product **Testing**









The performance of air tightness is the key factor that decides the pneumatic component's lifespan, and finally determine the production cost in different industries, in order to guarantee all the components can endure the high strength task in production lines, XCPC uses seals and magnetic rings which are originally imported from Germany, Japan, Switzerland, the United States, Taiwan. At the same time XCPC has made up a strict air tightness testing standard, every cylinder, air source treating unit and solenoid valve are tested before they work for our customers.

Service Features

XCPC has first-class training centre and well-trained sales staff

Professional

We have a wealth of professional experience

Good

We have good communication skills and affinity

First-class

We provide first-class services for customers

Analyze

We help customers analyze problem of products

Technical

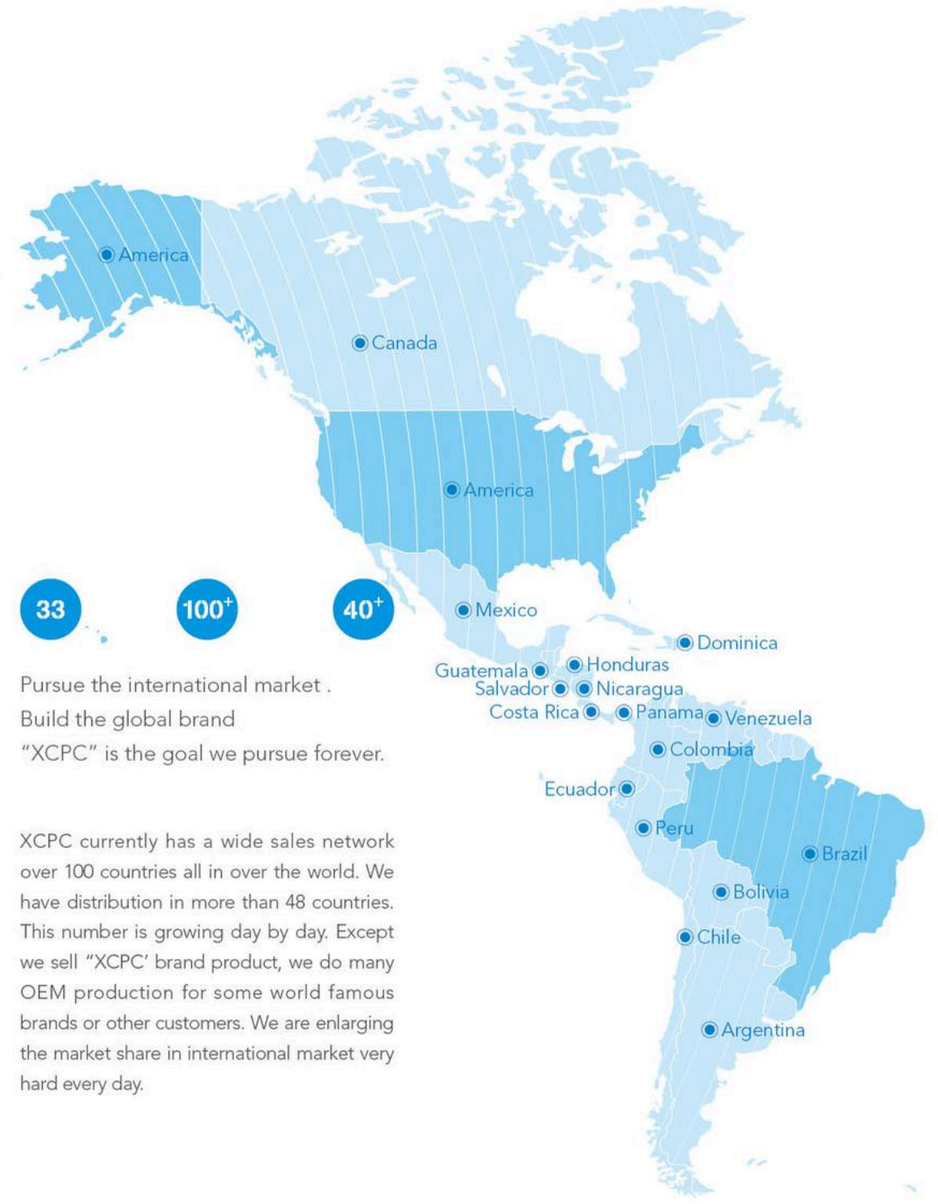
We provide customers with detailed technical information











33 100+ 40+

Pursue the international market .
Build the global brand
"XCPC" is the goal we pursue forever.

XCPC currently has a wide sales network over 100 countries all in over the world. We have distribution in more than 48 countries. This number is growing day by day. Except we sell "XCPC' brand product, we do many OEM production for some world famous brands or other customers. We are enlarging the market share in international market very hard every day.

Global Sales Network

America market

America	Peru	Honduras
Canada	Chile	Dominica
Costa Rica	Argentina	Ecuador
Mexico	Guatemala	Salvador
Brazil	Venezuela	Nicaragua
Colombia	Bolivia	Panama

Asia market

Korea	India	Qatar	Philippines	Emirates
Japan	Iran	Myanmar	Israel	Sri Lanka
Thailand	Turkey	Oman	Kuwait	Pakistan
Malaysia	Taiwan	Lebanon	Syria	Uzbekistan
Singapore	Vietnam	Yemen	Saudi Arabia	Kazakhstan
Indonesia	Jordan	Bangladesh	United Arab	Iraq

Europe market

Germany	Ukraine	Finland	Greece	Romania
Italy	Hungary	Portugal	Belarus	Armenia
Netherlands	Moldova	France	Russia	Georgia
Britain	Serbia	Slovenia	Malta	Latvia
Spain	Poland	Bulgaria	Czech Republic	Cyprus
Lithuania	Switzerland	Ireland	Bosnia and Herzegovina	Sweden

Africa market

Morocco	Egypt	Cote d'Ivoire
Sultan	Tunisia	Senegal
Mali	Nigeria	
Algeria	Zimbabwe	
Kenya	Mozambique	
South Africa	Libya	

Oceania market

Australia
New Zealand
Fiji

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XCPC

Standard Cylinders

Standard cylinder is composed of Front &End Cover, Barrel, Piston, Piston Rod and Seal Rings, which is most regular pneumatic cylinder. XCPC manufactured standard cylinder for over 20 years, it became to be the leader in this filed in China. The bore range is from 32mm to 320mm. Our standard cylinder include: DNC(IS06431, VDMA24562,)DNG(SO15552),SI(506431) SC/SU, MB,CA2(Japanese Standard). we can also produce specialized cylinder according to customer's requirement.



A

DNC Series ISO15552 Standard Cylinder



DNC 50 × 100



DNT 50 × 100



MDNC 50 × 100



TDNC 50 × 100

Ordering Code

□ — DNC — 50 × 100 — 25 — S — □

TubeType
Blank:Square Type
T:Tie-rod Type
M:Mickey Mouse Type

Series Code
DNC:ISO15552 Standard Double Action Type
DNT:ISO15552 Standard With Mickey Mouse(Groove) Tube
DNCD:ISO15552 Standard Two Axis Double Action Type
DNCJ:ISO15552 Two Axis Stroke Adjust Type

Cylinder Bore
32mm-125mm

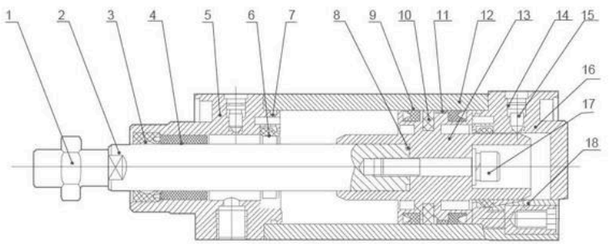
Stroke

Adjust Storke
25: 25mm
50: 50mm
75: 75mm

Magnet Code
Blank: Without Magnet
S: With Magnet

Fixed Type
Blank: Normal Type
LB: Front and back fixed type
FA: Front cover fixed type (Front flange type)
FB: Back cover fixed type (Back flange type)
CA: Back cover fixed type (Single earring)
CB: Back cover fixed type (Double earring)
SDB: Back cover fixed type

Internal structure



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	Pistion 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 Cover
17	Hex Socket Screw	18	Profile Bolt

Specifcation

Bore(mm)	32	40	50	63	80	100	125
Motion Pattern	Double Action						
Working Medium	Filtered Air						
Compression Pressure	1.5MPa						
Max. Operating Pressure	1.0MPa						
Min. Operating Pressure	0.1MPa						
Buffer	Air Buffer(Standard)						
Condition Temperature	-5~70℃						
Operating Speed	50~800mm/s						
Port Size	G1/8"	G1/4"		G3/8"		G1/2"	

Stroke

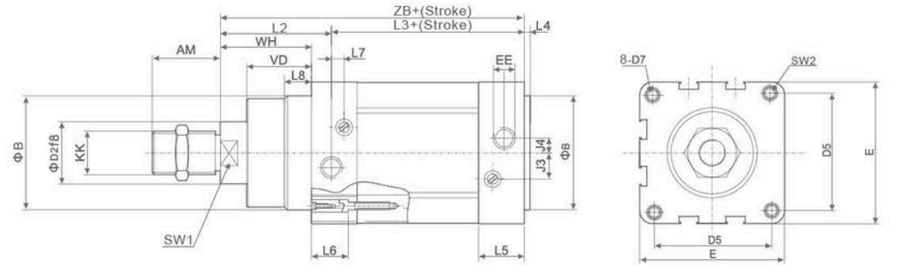
Bore	Standard Stroke	Buffer Stroke	Stroke Range
32	25 40 50 80 100 125 160 200 250 320 400 500	20	10~2000
40			
50		22	
63			
80		32	
100			
125		35	

A

DNC Series ISO15552 Standard Cylinder

Overall Dimensions

Normal Type
DNC-S

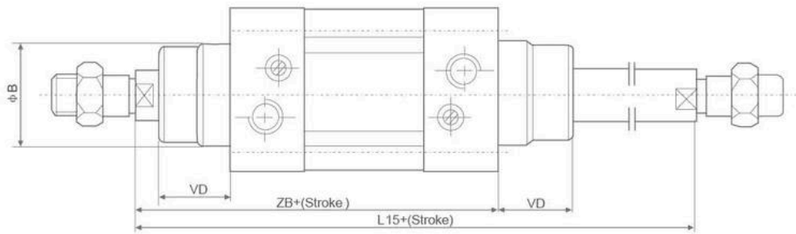


Dimension Sheet

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	40	80	4	26	22	3.3	8	10	6	16	26	120
40	24	35	16	38	M6	54	1/4	8	6	M12×1.25	46	89	4	29.6	22	3.6	10	13	6	20	30	135
50	32	40	20	46.5	M8	64	1/4	10	8.5	M16×1.5	54	90	4	30	22	5.1	10	17	8	27	37	144
63	32	45	20	56.5	M8	75	3/8	12.4	10	M16x1.5	57	101	4	35.5	22	6.6	10	17	8	27	37	158
80	40	45	25	72	M10	93	3/8	12.5	8	M20×1.5	65	109	4	36	25	10.5	10	22	10	34.5	46	174
100	40	55	25	89	M10	110	1/2	11.8	10	M20×1.5	71	118	4	39	25	8	12.5	22	10	38	51	189
125	54	60	32	110	M12	134	1/2	13	8	M27×2	95	128	6	44.7	30	14	12.5	28	12	46	65	223

Overall Dimensions

Double Piston Rod Type
DNC-D-S



Dimension Sheet

Bore	32	40	50	63	80	100	125
B	30	35	40	45	45	55	60
L15	146	165	182	194	220	240	298
VD	16	20	27	27	34.7	38.2	46
ZB	120	135	144	158	174	189	223

DNCB Series Booster Cylinder



DNCB-50 × 25 × 50

Specifcation

Working Medium	Filtered Air
Compression Pressure	1.5MPa
Max.Operating Pressure	1.0MPa
Min.Operating Pressure	0.1MPa
ConditionTemperature	-5~70℃

Product instruction

Booster cylinder combine 2 or more ISO15552 standard cylinder with the same bore and stroke, Create twice or multiple force as standard cylinder. The connection of 2 or more cylinders are linked with the same material Compact structure and easy for installation.

DNG Series ISO15552 Standard Cylinder



DNG 200×100-S



DNG 250×200-S

Ordering Code

DNG — 160 × 100 — 25 — S — □

Series Code
DNG:ISO15552 Standard Double Action Type
DNGD:ISO15552 Standard Two Axis Double Action Type
DNGJ:ISO15552 Two Axis Stroke Adjust Type

Cylinder Bore
160mm-320mm

Stroke

Adjust Storke
25: 25mm
50: 50mm
75: 75mm

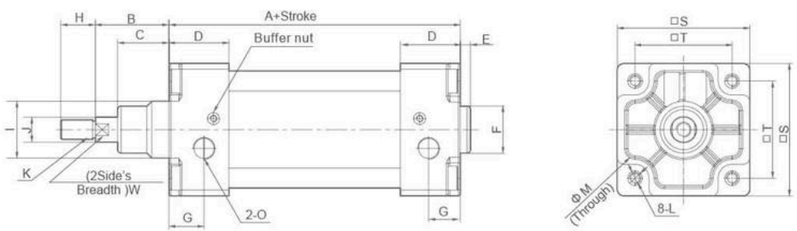
Magnet Code
Blank: Without Magnet
S: With Magnet

Fixed Type
Blank:Normal type
LB:Front and back fixed type
FA:Front cover fixed type(Front flange type)
FB:Back cover fixed type(Back flange type)
CA:Back cover fixed type (Single earring)
CB:Back cover fixed type(Double earring)

Specifcation

Bore(mm)	160	200	250	320
Motion Pattern	Double Action			
Working Medium	Air			
Fixed Type	Normal type FA type FB type CA type CB type LB type TC type			
Working Pressure Range	0.1~1.0MPa			
Ensured Pressure Resistance	1.5MPa			
Operating Temperature Range	-5~60℃			
Operating Speed Range	50~500mm/s			
Buffer Type	Adjustable Buffer			
Port Size	G3/4"		G1"	
Lubrication	Not required (Use Turbine oilISO Vg32 when necessary)			

Overall Dimensions



Dimension Sheet

Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M	S	T	O
160	180	80	60	50	6	Φ65	25	72	Φ65	40	M36×2	M16	Φ25 dp30	180	140	G3/4"
200	180	95	70	50	6	Φ75	25	72	Φ75	40	M36×2	M16	Φ25 dp30	220	175	G3/4"
250	200	105	67	52	10	Φ90	31	84	Φ90	50	M42×2	M20	Φ30	270	220	G1"
320	218	120	82	52	10	Φ110	31	96	Φ110	63	M48×2	M24	Φ34	340	270	G1"

SI Series ISO6431 Standard Cylinder



SI 50X100



SIJ 50X100-25

Ordering Code

SI — 50 × 50 — 25 — S — □

Series Code
SI:ISO6431 Standard Double Action Type
SID:ISO6431 Standard Two Axis Double Action Type
SIJ:ISO6431 Two Axis Stroke Adjust Type

Cylinder Bore
32mm-200mm

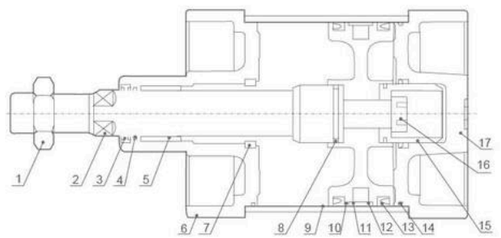
Stroke

Adjust Storke
25: 25mm
50: 50mm
75: 75mm

Magnet Code
Blank: Without Magnet
S: With Magnet

Fixed Type
Blank:Normal type
LB:Front and back fixed type
FA:Front cover fixed type(Front Flange Type)
FB:Back cover fixed type(Back Flange Type)
CA:Back cover fixed type (Single Earring)
CB:Back cover fixed type(Double Earring)
TC:Central trunnion type
TC-M:Central trunnion type attaching foot seat

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	Pistion 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		

Specifcation

Bore(mm)	32	40	50	63	80	100	125	160	200
Motion Pattern	Double Action								
Working Medium	Air								
Fixed Type	Normal type FA type FB type CA type CB type LB type TC type								
Working Pressure Range	0.1~0.9MPa								
Ensured Pressure Resistance	1.35MPa								
Operating Temperature Range	-5~70℃								
Operating Speed Range	50~800mm/s								
Buffer Type	Adjustable Buffer								
Buffer Stroke	24							32	
Port Size	G1/8"		G1/4"		G3/8"		G1/2"		G3/4"

A

SI Series ISO6431 Standard Cylinder

Cylinder theory output

Cylinder inside Diameter	External Diameter of Piston Rod	Motion Patterm		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	290.53
			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	150.70	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	428.82	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	1005.3	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

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

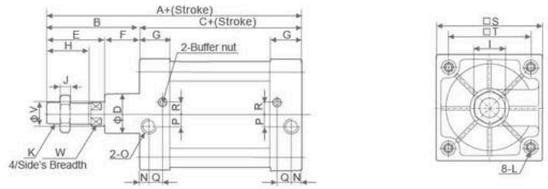
■ If you need special stroke,please Tell us, we can make according your require.

A

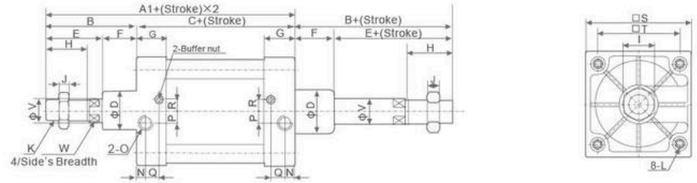
SI Series ISO6431 Standard Cylinder

Overall Dimensions

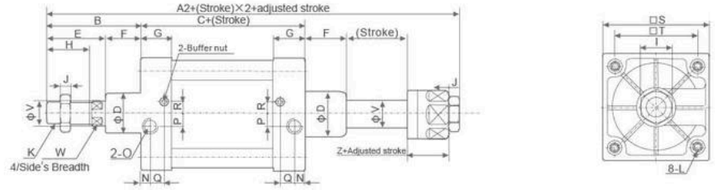
SI



SID



SIJ



Dimension Sheet

Bore/Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L
32	142	190	185	48	94	30	32	16	27.5	22	17	6	M10×1.25	M6
40	159	213	205	54	105	35	36	18	29	24	19	7	M12×1.25	M6
50	175	244	231	70	105	40	45	25	30	32	24	8	M16×1.5	M8
63	190	259	245	70	120	45	46	24	31	32	24	8	M16×1.5	M8
80	214	300	283	86	128	45	56	30	35	40	30	10	M20×1.5	M10
100	227	316	298	89	138	55	57	32	36	40	30	10	M20×1.5	M10
125	278	396	368	118	160	60	73	45	46	54	41	10	M27×2	M12
160	332	484	448	152	180	65	94	58	50	72	55	18	M36×2	M16
200	337	494	452	157	180	75	100	51	51	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	28	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

A

SC/SU Series Standard Cylinder



SC 50 × 100



SU 50 × 100



SCJ 50 × 100–25

Ordering Code

SC — 50 × 50 — 25 — S — □

Series Code
SC:Standard double Action(Tie-rod Type)
SCD:Double-shaft Double Action (Tie-rod Type)
SCJ:Double Axis Double Acting Adjustable Type(Tie-rod Type)
SU:Standard Double Acting (Micky Mouse Type)

Cylinder Bore
32mm-200mm

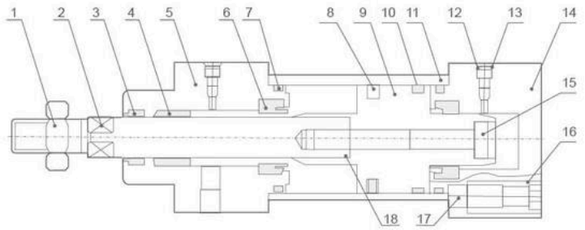
Stroke

Adjust Storke
25:25mm
50:50mm
75:75mm

Magnet Code
Blank:Without Magnet
S:With Magnet

Fixed Type
Blank:Normal type
LB:Front and fack fixed type
FA:Front cover Fixed type(Front flange type)
FB:Back cover Fixed type(Back flange type)
CA:Back cover Fixed type (Single earring)
CB:Back cover Fixed type(Double earring)
TC:Central trunnion Type
TC-M:Central trunnion type attaching foot seat

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 Barrel o-ring
4	Bearing	13	Damping adjustable screw
5	Front cover	14	Back cover
6	Buffering o-ring	15	Hex socket screw
7	Pipe wall o-ring	16	Tie Rod Nut
8	Piston o-ring	17	Tie rod
9	Piston	18	Piston rod o-ring

Specifcation

Bore(mm)	32	40	50	63	80	100	125	160	200
Motion Pattern	Double Action								
Working Medium	Air								
Fixed Type	Basic type FA type FB type CA type CB type LB type TC type TC-M type								
Operating Pressure Range	0.1~0.9kgf/cm²								
Ensured Pressure Resistance	1.35MPa								
Operating Temperature Range	-5~70℃								
Operating Speed Range	300~800mm/s								
Buffer Type	Adjustable Buffer								
Buffer Stroke	24						32		
Port Size	G1/8"	G1/4"		G3/8"		G1/2"		G3/4"	

■ SCD,SCJ Fixed Type:FA,FB,LB,TC & TC-M Type.

SC/SU Series Standard Cylinder

Cylinder theory output

Cylinder inside Diameter	External Diameter of Piston Rod	Motion Patterm		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	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	290.53
			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	150.70	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	428.82	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	1005.3	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

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

SCT Series Muti-Position/Booster Cylinder



SCT 100 × 60 × 100

Specifcation

Working Medium	Air
Operating Temperature Range	0.1~0.9kgf/cm²
Ensured Pressure Resistance	1.35Mpa
Operating Temperature Range	-5~70℃

Product instruction

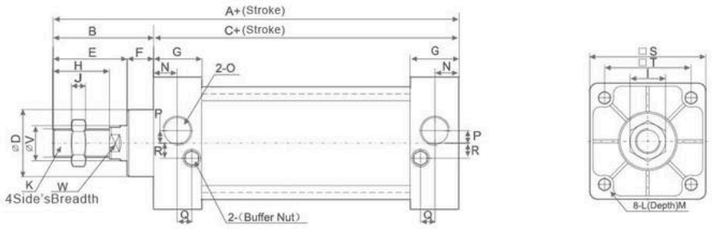
Booster cylinder combine 2 or more standard cylinder with the same bore and stroke, Create twice or multiple force as standard cylinder. The connection of 2 or more cylinders are linked with the same material Compact structure and easy for installation.

A

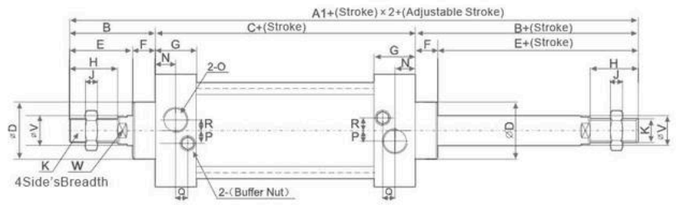
SC/SU Series Standard Cylinder

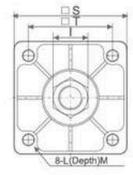
Overall Dimensions

SC

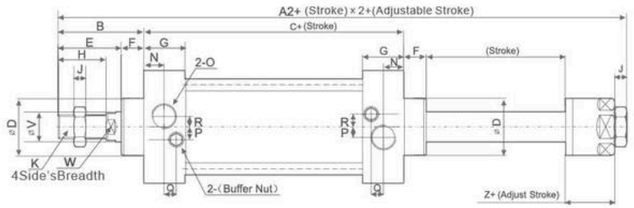


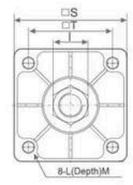
SCD





SCJ





Dimension Sheet

Bore/Symbol	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	M10×1.25
40	142	191	185	48	93	32	34	15	27.5	24	17	7	M12×1.25
50	150	207	196	57	93	36	42	15	27.5	32	23	8	M16×1.5
63	153	210	199	57	96	36	42	15	27.5	32	23	8	M16×1.5
80	183	258	242	75	108	47	54	21	33	40	26	10	M20×1.5
100	183	258	248	75	108	47	54	21	33	40	26	10	M20×1.5
125	239	342	363	104	136	56	71	32	40	54	36	10	M27×2
160	289	412	450	121	166	65	93	30	50	72	50	16	M36×2
200	337	494	451	132	180	75	100	57	50	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	M8×1	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	4110	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	42	42

MB Series Standard Cylinder(Japanese standard)



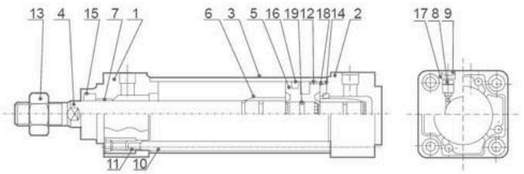
MB 50×100

Ordering Code

MB — 50 × 50 — S — □

Series Code	Cylinder Bore	Stroke	Magnet Code	Fixed Type
Japanese stsndard Double Action Type	32mm-100mm		Blank:Without Magnet S:With Magnet	Blank:Basic type LB:Front and back fixed type FA:Front cover fixed type(Front flange type) FB:Back cover fixed type(Rear flange type) CA:Back cover fixed type (Single earring) CB:Back cover fixed type(Double earring) TC:Central trunnion type TC-M:Central trunnion type attaching foot seat

Internal structure



NO	Designation	NO	Designation	NO	Designation
1	Front cover	6	Buffer ring	11	Tie rod nut
2	Back Cover	7	Bearing	12	Wear ring
3	Barrel	8	Cushion Screw	13	Piston rod nut
4	Piston rod	9	Cushion Seal	14	Buffer seal ring
5	Piston	10	Tie rod	15	Piston O-ring

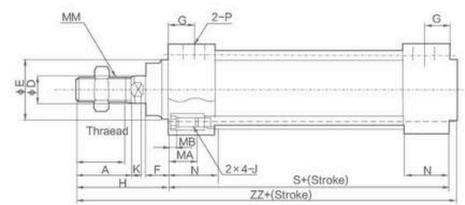
Specifcation

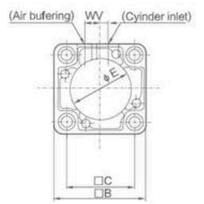
Cylinder Diameter	32	40	50	63	80	100
Working Medium	Air					
Action Type	Double acting					
Proof Pressure	15.3kgf/cm²(1.5Mpa)					
Max.Pressure	10.2kgf/cm²(1.0Mpa)					
Min.Pressure	0.5kgf/cm²(0.05Mpa)					
Environment and Fluid Temp	-10~+60℃					
Piston Veocity	50~1000mm/s					
Buffering	Air buffering					
Stroke Tolerance	0~250$^{+10}_{0}$, 251~1000$^{+14}_{0}$, 1001~1500$^{+18}_{0}$					
Rc(PT)Joint size	G1/8"	G1/4"		G3/8"		G1/2"

Stroke

Bore	Standard Stroke
32	25,50,75,100,125,150,175,200,250,300,350,400,450,500
40	25,50,75,100,125,150,175,200,250,300,350,400,450,500
50	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600
63	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600
80	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600,700,750
100	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600,700,750

Overall Dimensions





Dimension Sheet

Bore/ Symbol	Stroke range	Thread Length Available	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	M6×1.0	6	M10×1.25	27	1/8	84	4	6.5	47	135
40	~500	27	30	52	38	16	35	13	14	16	4	M6×1.0	6	M14×1.5	27	1/4	84	4	9	51	139
50	~600	32	35	65	46.5	20	40	14	15.5	16	5	M8×1.25	7	M18×1.5	31.5	1/4	94	5	10.5	58	156
63	~600	32	35	75	56.5	20	45	14	15.5	16	5	M8×1.25	7	M18×1.5	31.5	3/8	94	9	12	58	156
80	~750	37	40	95	72	25	45	20	19	16	5	M10×1.5	10	M22×1.5	38	3/8	114	11.5	14	72	190
100	~750	37	40	114	89	30	55	20	19	16	5	M10×1.5	10	M26×1.5	38	1/2	114	17	15	72	190

CA2 Series Standard Cylinder



CA2B 40 × 100

Ordering Code

CA2 — 40 × 100

Series Code
CA2B:Normal Type
CDA2B:Attach Magnet Type

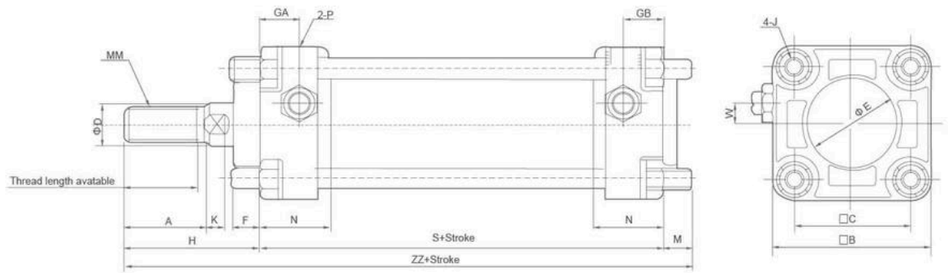
Cylinder Bore
40mm-100mm

Stroke

Specifcation

Bore(mm)	40	50	63	80	100
Working Medium	Air				
Motion Pattern	Double action Type				
Ensured Pressure Resistance	15.3kgf/cm²(1.5Mpa)				
Max.pressure	10.2kgf/cm²(1.0Mpa)				
Min.pressure	0.5kgf/cm²(0.05Mpa)				
Operating Temperature Range℃	5~+60℃				
Operating Speed Range	50~500mm/s				
Buffering	Air buffering				
Margin of Stroke Error(mm)		~0~250 $^{+10}_{0}$	251~1000 $^{+1.4}_{0}$	1001~1500 $^{+1.8}$	
Port size	G1/4"	G3/8"	G3/8"	G1/2"	G1/2"

Overall Dimensions



Dimension Sheet

Bore/ Symbol	Stroke range	Thread Length Available	A	□B	□C	ΦD	ΦE	F	GA	GB	J	K	M	MM	N	P	S	W	H	ZZ
40	~500	27	30	60	44	16	32	10	15	15	M8×1.25	6	11	M14×1.5	27	1/4	84	8	51	146
50	~600	32	35	70	52	20	40	10	17	17	M8×1.25	7	11	M18×1.5	27	3/8	90	0	58	159
63	~600	32	35	85	64	20	40	10	17	17	M10×1.25	7	14	M18×1.5	31	3/8	98	0	58	170
80	~750	37	40	102	78	25	52	14	21	21	M12×1.75	11	17	M22×1.5	37	1/2	116	0	71	204
100	~750	37	40	116	92	30	52	14	21	21	M12×1.75	11	17	M26×1.5	40	1/2	126	0	72	215

XEN/XENG Series Guide Units



XEN 25-100-GF



XENG 40-100-GF

Ordering Code

XENG — 50 — 100 — GF

Series Code
XEN: Guided Unit for ISO 6432
XENG: Guided Unit for ISO 15552

Bore
XEN: 8mm~25mm
XENG: 32mm~100mm

Stroke

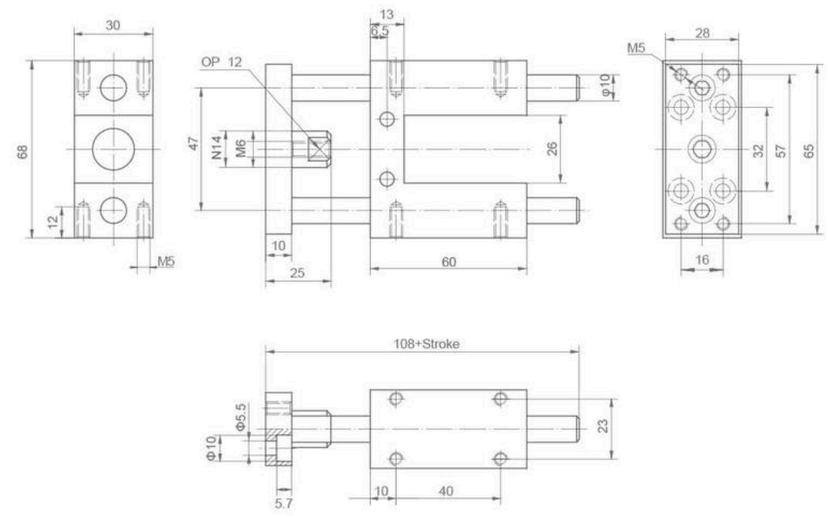
Guide
GF: Plain-bearing Guide
KF: Recirculating Ball Bearing Guide

Specifcation

Model	XEN-...				XENG-...					
Bore Φ	8/10	12/16	20	25	32	40	50	63	80	100
Stroke(mm)	1 ... 100	1 ... 200	1 ... 250		1 ... 500					
Guide	Plain-bearing Guide									
Installation	Recirculating Ball									
Installation position	Any									
Operating Range Temperature	-20~+80℃									

Overall Dimensions

XEN12~16

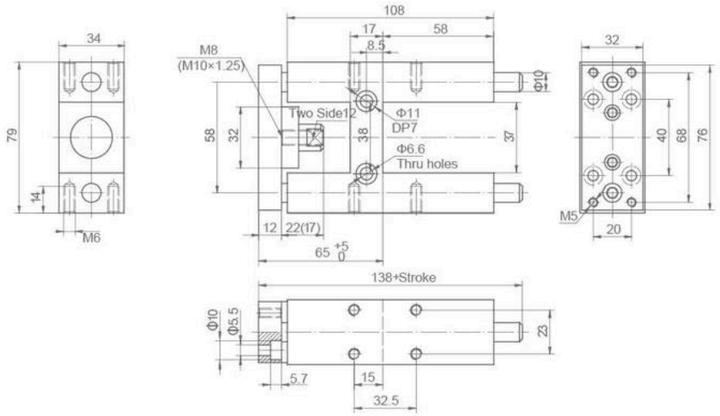


XEN/XENG Series Guide Units

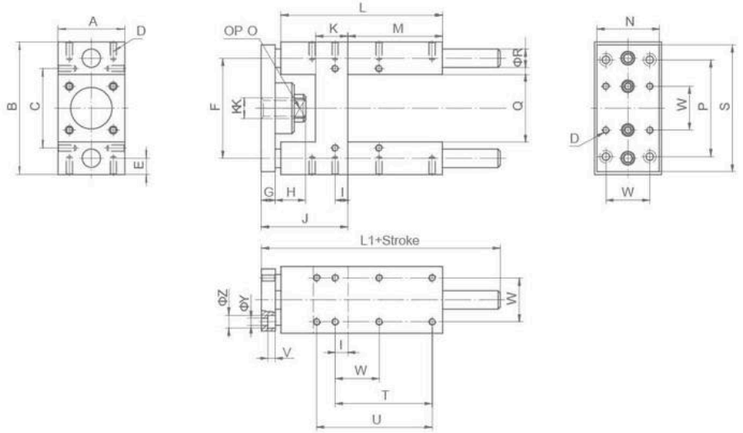
Overall Dimensions

XEN20~25

*In( )
is the size of 25



XENG32~100



Dimension Sheet

Bore(mm)	J	Q	W	P	S	T	U	ΦZ	ΦY	V	L1	O	D	E
32	$67^{+0.5}_{0}$	$50.5^{\pm0.3}$	$32.5^{\pm0.2}$	$78^{\pm0.2}$	90	$70.3^{\pm0.2}$	$78^{\pm0.2}$	11	6.6	6.5	155	14	M6	12
40	$75^{+0.5}_{0}$	$58.5^{\pm0.3}$	$38^{\pm0.2}$	$16^{\pm0.2}$	110	$84^{\pm0.2}$	-	11	6.6	6.5	170	17	M6	14
50	$89^{+1.0}_{0}$	$70.5^{\pm0.3}$	$46.5^{\pm0.2}$	$20^{\pm0.2}$	130	$81.8^{\pm0.2}$	$100^{\pm0.2}$	13	9	9	188	22	M8	16
63	$89^{+1.0}_{0}$	$85.5^{\pm0.3}$	$56.5^{\pm0.2}$	$20^{\pm0.2}$	145	$105^{\pm0.2}$	-	13	9	9	220	22	M8	16
80	$111^{+1.0}_{0}$	$106^{\pm0.6}$	$72^{\pm0.2}$	$25^{\pm0.2}$	180	-	-	18	11	11	258	27	M10	20
100	$111^{+1.0}_{0}$	$131^{\pm0.6}$	$89^{\pm0.2}$	$25^{\pm0.2}$	200	-	-	18	11	11	263	27	M10	20

Bore(mm)	A	B	C	ΦR	F	KK	L	K	M	G	H	I	N
32	$50^{-0.3}$	$97^{0}_{-0.4}$	$61^{\pm0.2}$	12	$74^{\pm0.2}$	M10×1.25	125	24	76	12	20	4.3	45
40	$58^{-0.3}$	$115^{0}_{-0.4}$	$69^{\pm0.2}$	16	$87^{\pm0.2}$	M12×1.25	140	28	81	12	22	11	54
50	$70^{-0.3}$	$137^{0}_{-0.5}$	$85^{\pm0.2}$	20	$104^{\pm0.2}$	M16×1.5	150	34	79	15	25	18.8	63
63	$85^{-0.3}$	$152^{0}_{-0.1}$	$100^{\pm0.2}$	20	$119^{\pm0.2}$	M16×1.5	182	34	111	15	25	15.3	80
80	$105^{-0.3}$	$189^{0}_{-0.5}$	$130^{\pm0.2}$	25	$147.5^{\pm0.2}$	M20×1.5	215	40	128	20	32	21	100
100	$130^{-0.3}$	$213^{0}_{-0.5}$	$150^{\pm0.2}$	25	$172^{\pm0.2}$	M20×1.5	220	40	128	20	32	24.5	120



MA6432 Series Stainless Steel Mini Cylinder(ISO6432)



MA6432 10×50



MA6432 25×50



MA6432-F 25×40

Ordering Code

MA6432 □ 20 × 50 — 25 S — □

Series Code
MA:Double Action Type
MSA:Single-Extrusion Type
MTA:Single Drawing-in Type
MAD:Double-shaft Double ActionType
MACD:Double-shaft Double Action Damping Type(Above Φ16)
MAJ:Double-shaft and adjustable stroke type
MAC:With Cushion Type(Above Φ16)

Back Cover Type
Blank:Fishtail Type
CM:Rounded Type
U:Horizontal Type
F: Copper Bush Type

Cylinder Bore
8mm-25mm

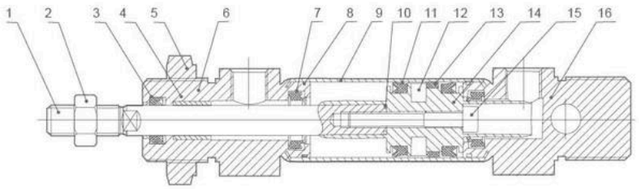
Stroke

Adjustable Stroke Type
0~100mm

Magnet Code
Blank:Without Magnet
S:With Magnet

Fixed Type
Blank:Normal type
LB:Front and back fixed type
FA:Front cover fixed type
SDB:Back cover swinging type
U:Back cover fixed type

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

Specifcation

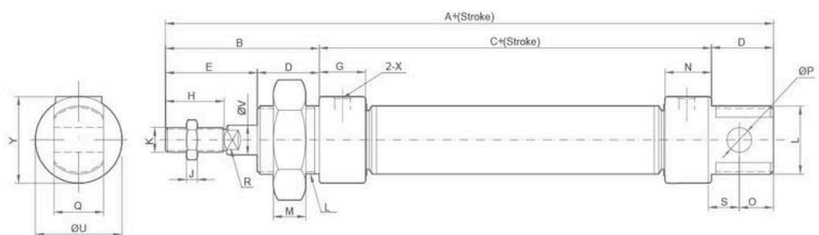
Bore(mm)	8	10	12	16	20	25
Fluid	Air					
Motion pattern	Double Action or single Action					
Ensured Pressure Resistance	15.3kgf/cm²(1.5Mpa)					
Max.pressure	10.2kgf/cm²(1.0Mpa)					
Min.pressure	0.5kgf/cm²(0.05Mpa) 1kgf/cm²(0.1Mpa)					
Environment and fluid temp	-10~+80℃ (Internal Magnetic Install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

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

MA6432 Series Stainless Steel Mini Cylinder(ISO 6432)

Overall Dimensions



Dimension Sheet

Bore/Symbol	A	B	C	D	E	G	H	M	J	O	K	N	P	S	R	U	V	Q	Y	L	X
8	86	28	46	12	16	9	12	7	3	10	M4×0.7	9	4	6	-	15	4	8	15	M12×1.5	M5
10	86	27	47	12	15	9	12	7	3	10	M4×0.7	9	4	6	-	15	4	8	15	M12×1.5	M5
12	105	37	51	17	20	9	16	6	4.5	14	M6×1	9	6	9	5	20	6	12	20	M16×1.5	M5
16	111	38	56	17	21	12.5	16	6	4.5	13	M6×1	10.5	6	9	5	20	6	12	20	M16×1.5	M5
20	128	45	63	20	25	15	20	8	6	11	M8×1.25	15	8	12	6	27	8	16	27	M22×1.5	G1/8"
25	137	50	65	22	28	15	22	8	6	11	M10×1.25	15	8	12	8	27	10	16	27	M22×1.5	G1/8"

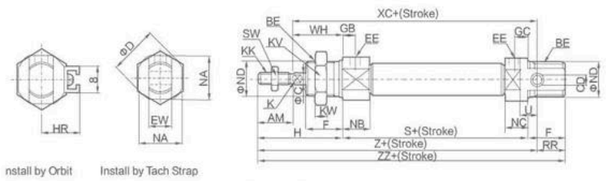
MA6432-N Series Stainless Steel Mini Cylinder (ISO 6432)



MA6432-N25×150

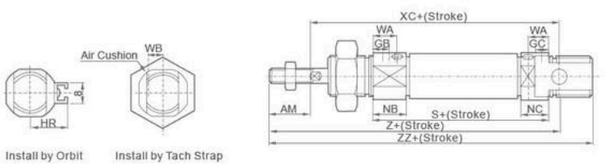
Overall Dimensions

Non Magnet Inside Magnet Rubber Buffer



nstall by Orbit Install by Tach Strap

Non Magnet Inside Magnet Rubber Buffer



Install by Orbit Install by Tach Strap

Dimension Sheet

Bore	AM	BE	ΦC	ΦCD	ΦD	EE	EW	F
8	12	M12×1.25	4	4	17	M5×0.8	8	12
10	12	M16×1.25	4	4	17	M5×0.8	8	12
12	16	M16×1.5	6	6	20	M5×0.8	12	17
16	16	M16×1.5	6	6	20	M5×0.8	12	17
20	20	M22×1.5	8	8	28	G1/8"	16	20
25	22	M22×1.5	10	8	33.5	G1/8"	16	22

Bore	GB	GC	WA	WB	H	HR	K	KK	KV	KW	NB	NC	NA	ΦND	RR	S	SW	U	WH	XC	Z	ZZ
8	7	5	-	-	28	10	-	M4×0.7	19	6	11.5	9.5	15	12	10	46	7	6	16	64	76	86
10	7(5.5)	7(5.5)	10.5	4.5	28	10.5	-	M4×0.7	19	6	11.5(13.5)	9.5(13.5)	15	12	10	46(53)	7	6	16	64(71)	76(83)	86(93)
12	8(5.5)	6(5.5)	9.5	5.5	38	14	5	M6×0.8	24	8	12.5(12.5)	10.5(12.5)	18	16	14	50(54)	10	9	22	75(79)	91(95)	105(109)
16	8(5.5)	6(5.5)	9.5	5.5	38	14	5	M6×0.8	24	8	12.5	10.5(12.5)	18	16	13	56	10	9	22	82	98	111
20	8	8	17	8.5	44	17	6	M8×1.25	32	11	15	15	24	22	11	62	13	12	24	95	95	126
25	8	8	20	10	50	20	8	M10×1.25	32	11	15	15	30	22	11	65	17	12	28	104	126	137

■ Our company can also provide SMC Type ISO6432 standard stainless steel mini cylinder, if you need this, pls add-N after normal ordering code.

MA6432 Series Stainless Steel Mini Cylinder(ISO 6432 Big Bore)



MAC6432 50×50-S



MAC6432 63×50-S

Ordering Code

MA6432 □ 50 × 50 — 25 — S — □

Series Code
MA:Double Action Type
MSA:Single-Extrusion Type
MTA:Single Drawing-in Type
MAD:Double-shaft Double Action Type
MACD:Double-shaft Double Action Damping Type
MAJ:Double-shaft and Adjustable Stroke Type
MAC:With Cushion Type

Back Cover Type
Blank:Fishtail type
CM:Rounded type
U:Horizontal type

Cylinder Bore
32mm-63mm

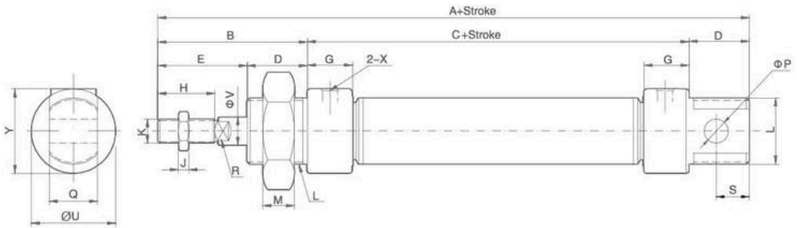
Stroke

Adjustable Stroke Type
0~100mm

Magnet Code
Blank:Without Magnet
S:With Magnet

Fixed Type
Blank:Normal type
LB:Front and back fixed type
FA:Front cover fixed type
SDB:Back cover swinging type

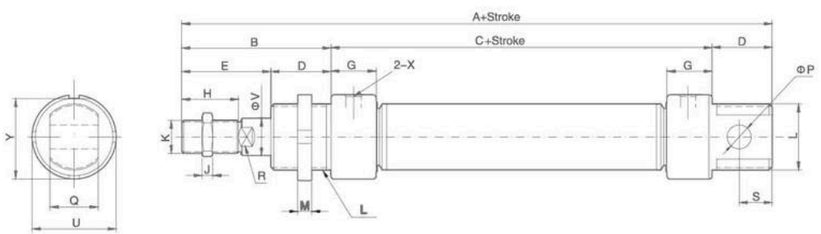
Overall Dimensions



Dimension Sheet

Bore/Symbol	A	B	C	D	E	G	H	M	J	K	P	S	R	U	V	Q	Y	L	X
32	160	57	76	27	30	16	22	8	6	M10×1.25	10	12	10	35	12	16	35	M24×2	G1/8
40	162	57	76	27	32	16.7	24	8	7	M12×1.25	12	12	14	41.6	16	16	41.6	M30×2	G1/8

Overall Dimensions



Dimension Sheet

Bore/Symbol	A	B	C	D	E	G	H	M	J	K	P	S	R	U	V	Q	Y	L	X
50	200	73	94	33	40	22	32	8	8	M16×1.5	16	15	17	57	20	21	55	M45×1.5	G1/4
63	203	73	97	33	40	22	32	8	8	M16×1.5	16	15	17	70	20	21	68	M45×1.5	G1/4

■ Our Company can also make FST type (ISO 6432) 32-63 bore cylinder . If you require this, it should be specified.

MA Series Stainless Steel Mini Cylinder



MA 25×50



MAJ 25×50-25

Ordering Code

MA □ 20 × 50 — 25 S □

Series Code
MA:Double Action Type
MSA:Single Extrusion Type
MTA:Single Drawing-in Type
MAD:Double-shaft Double Action Type
MACD:Double-shaft Double Action Damping Type
MAJ:Double-shaft and Adjustable Stroke Type
MAC:With Cushion Type

Back Cover Type
Blank:Fishtail type
CM:Rounded type
U:Horizontal type

Cylinder Bore
16mm~40mm

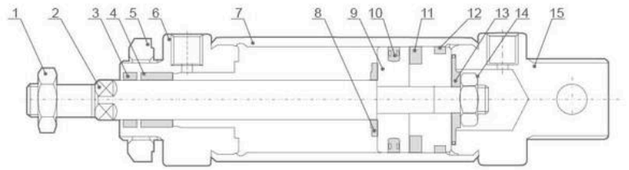
Stroke

Adjustable Stroke Type
0~100mm

Magnet Code
Blank:Without Magnet
S:With Magnet

Fixed Type
Blank:Normal type
LB:Front and back fixed type
FA:Front cover fixed type
SDB:Back cover swinging type
U:Back cover fixed type

Internal structure



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

Specifcation

Bore(mm)		16	20	25	32	40
Motion Pattern		Double Action or Single Action				
Working Medium		Air				
Fixed Type			Normal Type	LB Type	FA Type	SDB Type U Type
Operating Pressure 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			
Port Size		M5×0.8	G1/8"	G1/8"	G1/8"	G1/8"

■ Our Company can also make flat for cylinder covers inlet and outlet position. If you require this, it should be specified.

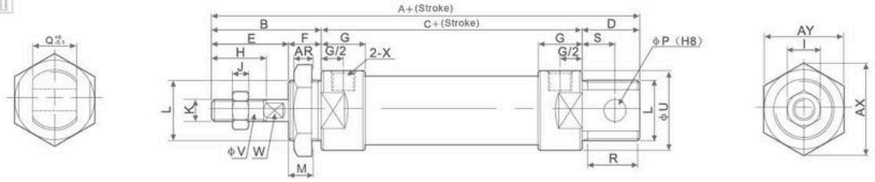
Stroke

Bore(mm)	Standard Stroke	Max.Stroke(mm)	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

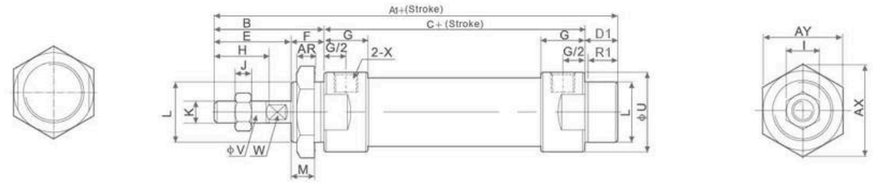
MA Series Stainless Steel Mini Cylinder

Overall Dimensions

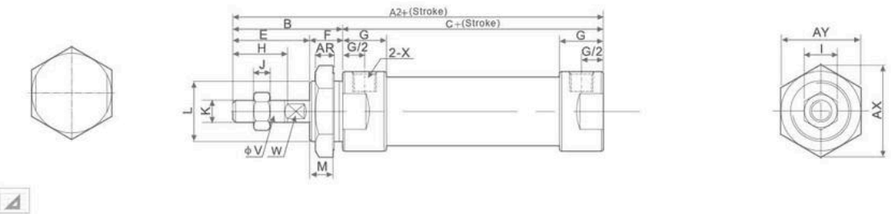
MA



MA–CM



MA–U



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	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

MAL6432 Series Aluminum alloy Mini Cylinder(ISO 6432)



MAL6432 20×75

Specifcation

Motion Pattern	Double Action or Single Action
Operating Pressure Range	0.1~0.9MPa
Ensured Pressure Resistance	1.35MPa
Operating Temperature Range	-5~70℃
Operating Speed Range	30~800mm/s

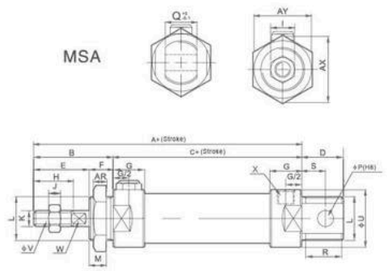
Product instruction

Our company can also provide MAL series ISO6432 standard aluminum alloy mini cylinder,if you need this,pls change ordering code MAL into MAL6432.

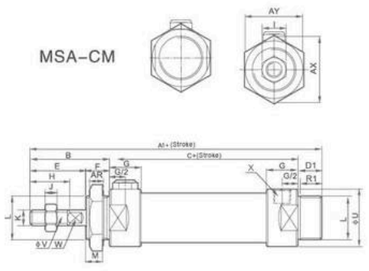
MA Series Stainless Steel Mini Cylinder

Overall Dimensions

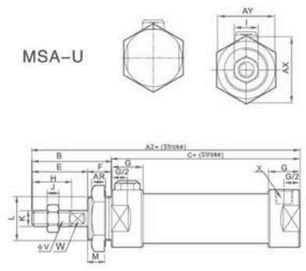
MSA



MSA–CM



MSA–U



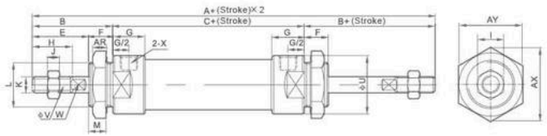
Dimension Sheet

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	16.7	24	17	7

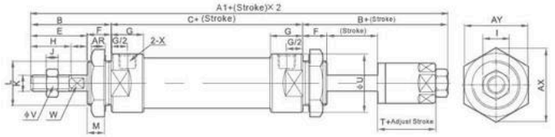
Bore/Symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M6×1	M16×1.5	14	6	12	14	14	9	21	6	5	M5	6	24	22
20	M8×1.25	M22×1.5	10	8	16	19	10	12	27	8	6	G1/8"	7	33	29
25	M10×1.25	M22×1.5	12	8	16	19	12	12	30	10	8	G1/8"	7	33	29
32	M10×1.25	M24×2.0	12	10	16	25	12	15	35	12	10	G1/8"	8	37	32
40	M12×1.25	M30×2.0	12	12	20	25	12	15	41.6	16	14	G1/8"	9	47	41

Overall Dimensions

MAD



MAJ



Dimension Sheet

Bore/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	76	28	12	16	20	12	6	M8×1.25
25	164	161	44	76	30	14	16	22	17	6	M10×1.25
32	164	161	44	76	30	14	16	22	17	6	M10×1.25
40	168	164	46	76	32	14	16.7	24	17	7	M12×1.25

Bore/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	M24×1.5	12	39.5	12	10	G1/8"	8	37	32	21
40	M30×2.0	12	41.6	16	12	G1/8"	9	47	41	21

A

MAL Series Aluminum alloy Mini Cylinder



MAL 25×50



MALJ 25×50-25

Ordering Code

MAL — □ 20 × 50 — 25 — S — □

Series Code
MAL: Double Action type
MSAL: Single Extrusion Type
MTAL:Single Drwing-in Type
MALD: Double-shaft Double Action Type
MALCD: Double-shaft Action Damping Type
MALJ:Double-shaft And Adjustable Stroke Type
MALC:With Cushion Type

Back Cover Type
Blank:Fishtail type
CM:Rounded type
U:Horizontal type

Cylinder Bore
16mm-40mm

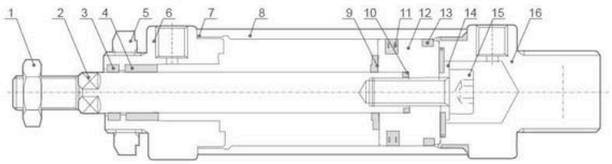
Stroke

Adjustable Stroke Type
0~100mm

Magnet Code
Blank:Without Magnet
S:With Magnet

Fixed Type
Blank:Normal type
LB:Front and back fixed type
FA:Front cover fixed type
SDB:Back cover swinging type

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	Back cushion
15	Hex socket screw	16	Back Cover

Specifcation

Bore(mm)		16	20	25	32·	40
Motion Pattern		Double Action or Single Action				
Working Medium		Air				
Fixed Type		Normal Type LB Type FA Type SDB Type				
Operating Pressure 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"	G1/8"	G1/8"	G1/4"

■ Our Company can also make flat for cylinder covers inlet and outlet position. If you require this, it should be specified.

A

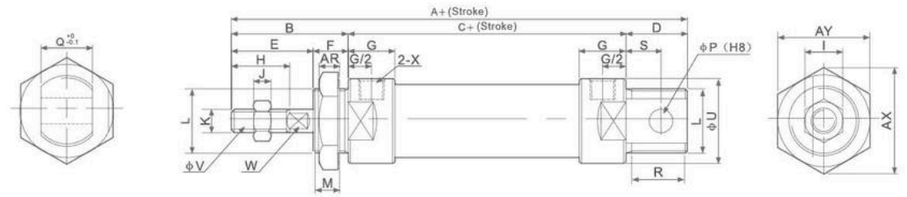
MAL Series Aluminum alloy Mini Cylinder

Stroke

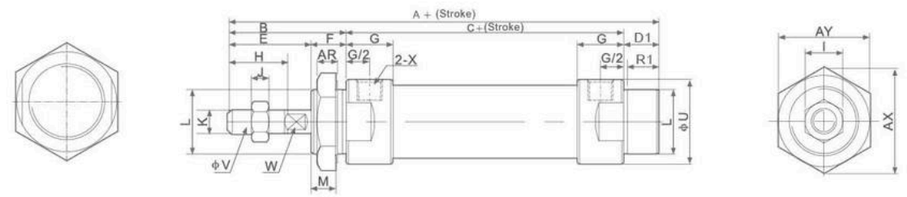
Bore(mm)	Standard Stroke	Max.Stroke(mm)	Max.Stroke(mm)
16	25 50 75 80 100 125 160 175 200	300	500
20	25 50 75 80 100 125 160 175 200 250 300	500	650
25	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500	500	650
32	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500	500	650
40	25 50 75 80 100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

Overall Dimensions

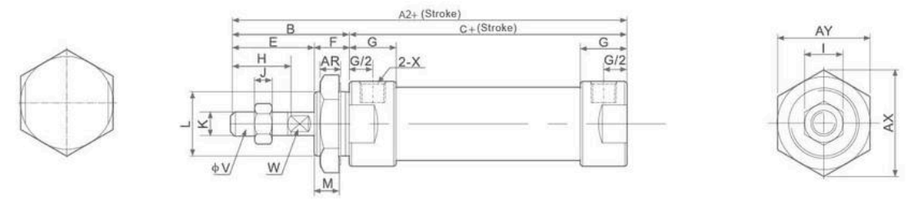
MAL



MAL-CM



MAL-U



Dimension Sheet

Bore/Symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	110	114	98	38	56	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	46	92	27	14	32	14	22	24	17	7	M12×1.25

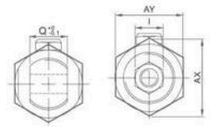
Bore/Symbol	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16×1.5	14	6	12	14	14	9	24	6	5	M5	6	25	22
20	M22×1.5	10	8	16	19	10	12	29	8	6	G1/8"	7	33	29
25	M22×1.5	12	8	16	19	12	12	34	10	8	G1/8"	7	33	29
32	M24×2.0	12	10	16	25	12	15	39.5	12	10	G1/8"	8	37	32
40	M30×2.0	12	12	20	25	12	15	49.5	16	14	G1/4"	9	37	41

A

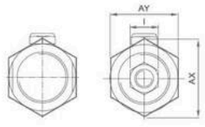
MAL Series Aluminum alloy Mini Cylinder

Overall Dimensions

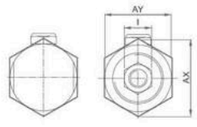
MSAL

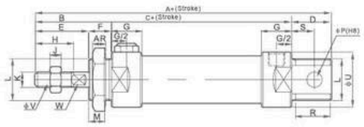


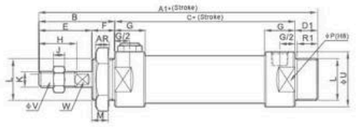
MSAL-CM

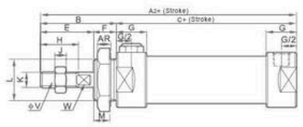


MSAL-U









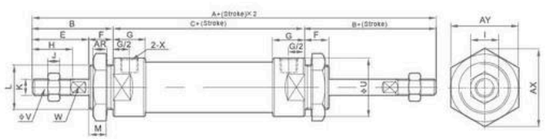
Dimension Sheet

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								
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

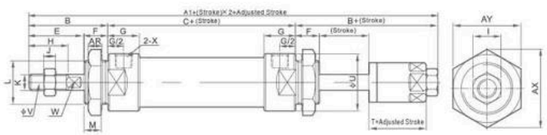
Bore/Symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8×1.25	M22×1.5	10	8	16	19	10	12	29	8	6	G1/8"	7	33	29
25	M10×1.25	M22×1.5	12	8	16	19	12	12	34	10	8	G1/8"	7	33	29
32	M10×1.25	M24×2.0	12	10	16	25	12	15	39.5	12	10	G1/8"	8	37	32
40	M12×1.25	M30×2.0	12	12	20	25	12	15	49.5	16	14	G1/8"	9	47	41

Overall Dimensions

MALD



MALJ



Dimension Sheet

Bore/Symbol	A	A1	B	C	E	F	G	H	I	L	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

Bore/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

CM2 Series Stainless Steel Mini Cylinder



CDM2B 32 × 50　　CDM2B 20 × 50

Ordering Code

CM2 | 32 × 150 – A

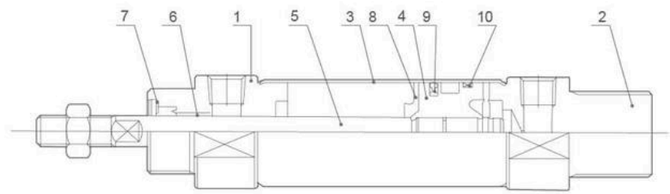
Series Code
CM2B:Normal Type
CDM2B:Attach magnet Type

Cylinder Bore
20mm-40mm

Stroke
0~1000mm

Buffer
Blank:Rubber Buffer
A:Air Buffer

Internal structure

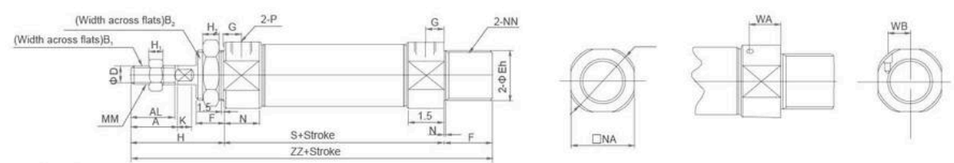


NO	Designation
1	Front Cover
2	Back Cover
3	Barrel
4	Piston
5	Piston rod
6	Oiled Bearing
7	Front Cover Seal Ring
8	Anti-crash cushion
9	Piston Seal
10	Wear Ring

Specifcation

Bore(mm)	20	25	32	40
Working Medium	Air			
Motion Pattern	Double action			
Ensured Pressure Resistance	15.3kgf/cm²(1.5Mpa)			
Max.pressure	10.2kgf/cm²(1.0Mpa)			
Min.pressure	0.5kgf/cm²(0.05Mpa)			
Operating Temperature Range	-10~+70℃			
Operating Speed Range	50~750mm/s			
Buffering	Rubber buffer(Standard),Air buffer(Optional)			
Margin of Stroke Error(mm)	+1.4 0mm			
Port size	G1/8"	G1/8"	G1/8"	G1/4"

Overall Dimensions



Dimension Sheet

Bore	Stroke range	A	AL	B1	B2	D	E	F	G	H	H1	H2	I	K	MM	N	NA	NN	P	S	ZZ	WA	WB
20	~300	18	15.5	13	26	8	$20^{\ 0}_{-0.033}$	13	8	41	5	8	28	5	M8×1.25	15	24	M20×1.5	1/8	62	116	11.5	8.5
25	~300	22	19.5	17	32	10	$20^{\ 0}_{-0.033}$	13	8	45	6	8	22.5	5.5	M10×1.25	15	30	M26×1.5	1/8	62	120	11.5	10
32	~300	22	19.5	17	32	12	$26^{\ 0}_{-0.033}$	13	8	45	6	8	37.5	5.5	M10×1.25	15	34.5	M26×1.5	1/8	64	122	11.5	11.5
40	~300	24	21	22	41	14	$32^{\ 0}_{-0.033}$	16	11	50	6	10	46.5	7	M14 ×1.5	21.5	42.5	M32 ×1.5	1/4	88	154	14	15

A

CJ2 Series Stainless Steel Type Cylinder



CJ2B 16×50



CJ2B 6×25

Ordering Code

CJ2 | 16 | × | 50 | – | S | – | □

Series Code
CJ2B:Normal Type
CDJ2B:Attach Magnet Type

Cylinder Bore
6mm-16mm

Stroke
0~200mm

Action
S: Single action (with spring return)
T: Single action (with spring extent)

The type of air hole on the head cover end

Mark / Bore	Φ6	Φ10	Φ16
BLANK	-	Vertical	
R	Horizontal		

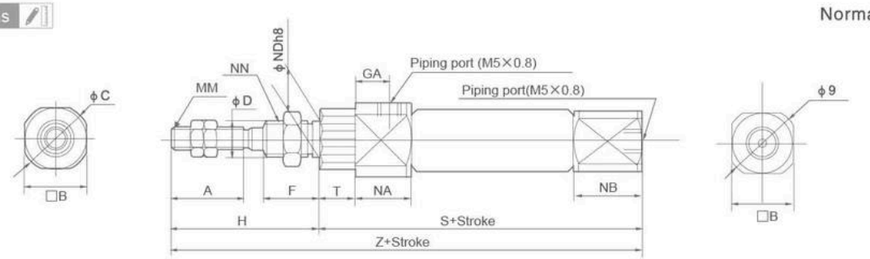
Specifcation

Bore(mm)	6	10	16
Working Medium	Air		
Motion Pattern	Double action/Single Action Extrusion type/Single Action Drawing-in Type		
Ensured Pressure Resistance	1.05Mpa(10.5kgf/cm²)		
Max.pressure	0.7Mpa(7.1kgf/cm²)		
Min.pressure	0.25Mpa(2.5kgf/cm²)	0.15Mpa(1.5kgf/cm²)	
Operating Temperature Range	-10~+70℃		
Operating Speed Range	50~750mm/s		
Buffering	Both side Rubber buffer(Standard)		
Margin of Stroke Error(mm)	$^{+1.0}_{0mm}$		
Port size	M5×0.8		

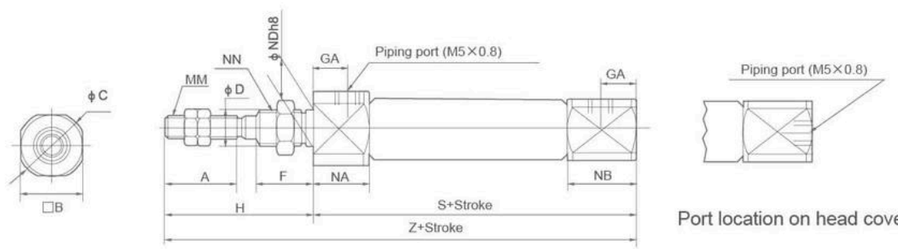
Overall Dimensions

Normal Type

CJ2B6



CJ2B10/16



Port location on head cover:

Dimension Sheet

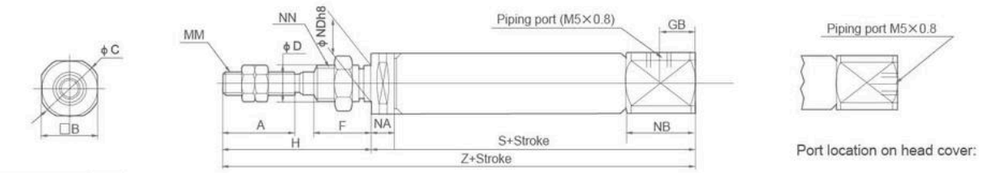
Bore(mm)	A	B	C	D	F	GA	GB	H	MM	NA	NB	NDh8	NN	S	T	Z
6	15	12	14	3	8	14.5	-	28	M3×0.5	16	7	6	M6×1.0	49	3	77
10	15	12	14	4	8	8	5	28	M4×0.7	12.5	9.5	8	M8×1.0	46	-	74
16	15	18	20	5	8	8	5	28	M5×0.8	12.5	9.5	10	M10×1.0	47	-	75

A

CJ2 Series Stainless Steel Type Cylinder

Overall Dimensions

Normal Type:Spring return CJ2B–CDJ2B



Port location on head cover:

Dimension Sheet

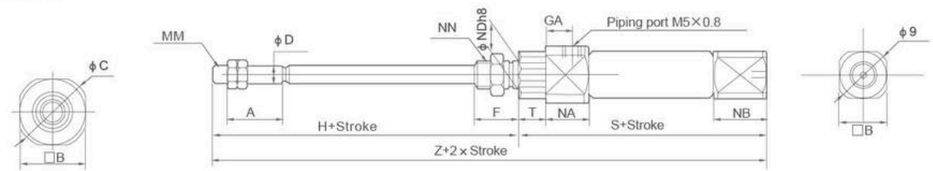
Bore (mm)	A	B	C	D	F	GB	H	MM	NA	NB	NB b8	*S 5~15	*S 16~30	*S 31~45	*S 46~60	*S 61~75	*S 76~100	*S 101~125	*S 126~150	*Z 5~15	*Z 16~30	*Z 31~45	*Z 46~60	*Z 61~75	*Z 76~100	*Z 101~125	*Z 126~150
6	15	8	19	3	8	-	28	M3×0.5	3	7	$6^{0}_{-0.018}$	34.5 (39.5)	43.5 (48.5)	47.5 (52.5)	61.5 (66.5)	-	-	-	-	62.5 (67.5)	71.5 (76.5)	75.5 (80.5)	89.5 (94.5)	-	-	-	-
10	15	12	14	4	8	5	28	M4×0.7	5.5	9.5	$8^{0}_{-0.022}$	45.5	53	65	77	-	-	-	-	73.5	81	93	105	-	-	-	-
16	15	18	20	5	8	5	28	M5×0.8	5.5	9.5	$10^{0}_{-0.022}$	45.5	54	66	78	84	108	126	138	73.5	82	94	106	112	136	154	166

■ Attach Magnet size

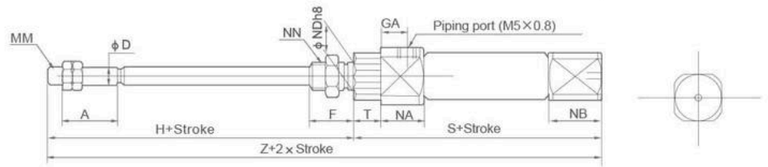
Overall Dimensions

Normal Type:Spring extent CJ2B–CDJ2B

CJ2B6



CJ2B10/16



Dimension Sheet

Bore (mm)	A	B	C	D	F	GA	H	MM	NN	NA	NB	NB b8	T	*S 5~15	*S 16~30	*S 31~45	*S 46~60	*S 61~75	*S 76~100	*S 101~125	*S 126~150	*Z 5~15	*Z 16~30	*Z 31~45	*Z 46~60	*Z 61~75	*Z 76~100	*Z 101~125	*Z 126~150
6	15	8	14	3	8	14.5	28	M3×0.5	M6×1	16	3	$6^{0}_{-0.018}$	3	46.5 (51.5)	55.5 (60.5)	59.5 (60.5)	73.5 (78.5)	-	-	-	-	74.5 (79.5)	83.5 (88.5)	87.5 (92.5)	101.5 (106.5)	-	-	-	-
10	15	12	14	4	8	8	28	M4×0.7	M8×1	12.5	5.5	$8^{0}_{-0.022}$	-	48.5	56	68	80	-	-	-	-	76.5	84	96	108	-	-	-	-
16	15	18	20	5	8	8	28	M5×0.8	M10×1	12.5	5.5	$10^{0}_{-0.022}$	-	48.5	57	69	81	87	111	129	141	76.5	85	97	109	115	139	157	169

■ Attach Magnet size

Special Cylinder



MARU 20X50 | TMAL-AC-40X25 | TMAL-50X30-T | MALC-50X100 | MAB-20X100X50

Product instruction

■ Our company has R&D department,can research,develop and produce all kinds of cylinders with advanced technology and sufficient professional experience. We can research and develop new products according to customer's drawing, and strive all products for excellence. If you have new product to develop,pls don't hesitate to contact us,we will try our best to help you.

ADVU Series Compact Cylinder(ISO6431)



ADVU 40×50-S

Ordering Code

ADVU 50 × 80 — S — B

Series Code
ADVU:Double Action Type
AEVUZ:Single-Action type
ADVUD:Double-shaft Double Action Type
ADVUJ:Double-Shaft And Adjustable Stroke Type

Cylinder Bore
16mm-100mm

Stroke
Normal Type:
16-25:1-200mm
32-63:1-300mm
80-100:1-400mm
Single Action:
16-100:1-25mm

Magnet Code
Blank:Without Magnet
S:With Magnet

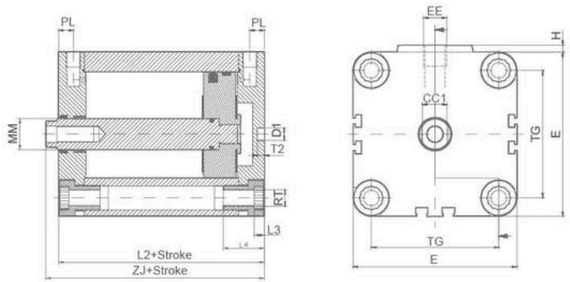
Cog Type
Blank:Inner Thread
B:Outer Thread

Specifcation

Bore(mm)		16	20	25	32	40	50	63	80	100
Action		Double Acting, single rod/double rod								
Working Medium		Air								
Ensured Pressure Resistance		1.5MPa								
Operating pressure range	ADVU-S	0.12~1.0MPa	0.1~1.0MPa		0.08~1.0MPa			0.06~1.0MPa		
	ADVUD-S	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								

Overall Dimensions

ADVU ADVUS /Type



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

Dimension Sheet

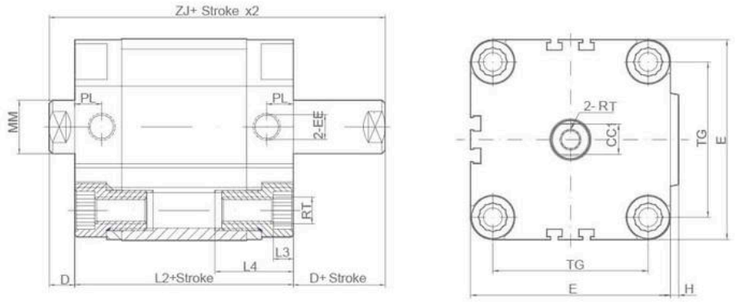
Bore(mm)	D1	E	EE	H	L2	L3	L4	MM	PL	RT	T2	TG	ZJ	CC1
16	6	29	M5	1	38	4	18.5	8	8	M4	4	18	44	6
20	6	36	M5	1.5	38	4	18.5	10	8	M5	4	22	43.5	8
25	6	40	M5	1.5	39.5	4	18.5	10	8	M5	4	26	46	8
32	6	50	G1/8	2	44.5	5	22	12	8	M6	4	32	51.5	10
40	6	60	G1/8	2.5	45.5	5	22	12	8	M6	4	42	52	10
50	6	68	G1/8	2.8	46.5	5	22	16	8	M8	4	50	54.5	14
63	8	88	G1/8	4	50	6	26	16	8	M10	4	62	56	14
80	8	107	G1/8	4	56	6	26	20	8.5	M10	4	82	62	17
100	8	128	G1/4	5	66.5	8	26	20	10.5	M10	4	103	76.5	22

■ Note:ADVU Series Cylinder With 100mm Bore Is Being Developed, Not Available At The Moment.

ADVU Series Compact Cylinder(ISO6431)

Overall Dimensions

ADVUD

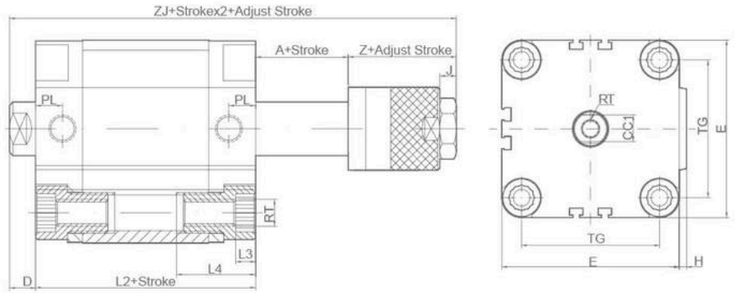


Dimension Sheet

Bore(mm)	E	EE	H	L2	L3	L4	MM	PL	RT	TG	ZJ	CC1	D
16	29	M5	1	38	4	18.5	8	8	M4	18	44	6	6
20	36	M5	1.5	38	4	18.5	10	8	M5	22	43.5	8	5.5
25	40	M5	1.5	39.5	4	18.5	10	8	M5	26	46	8	6.5
32	50	G1/8	2	44.5	5	22	12	8	M6	32	51.5	10	7
40	60	G1/8	2.5	45.5	5	22	12	8	M6	42	52	10	6.5
50	68	G1/8	2.8	46.5	5	22	16	8	M8	50	54.5	14	8
63	88	G1/8	4	50	6	26	16	8	M10	62	58	14	8
80	107	G1/8	4	56	6	26	20	8.5	M10	82	64	17	8

Overall Dimensions

ADVUJ



Dimension Sheet

Bore(mm)	Z	E	EE	H	L2	L3	L4	MM	PL	RT	J	TG	ZJ	CC1	D	A
16	13	29	M5	1	38	4	18.5	8	8	M4	6	18	63	6	6	6
20	15	36	M5	1.5	38	4	18.5	10	8	M5	6	22	64.5	8	5.5	6
25	15	40	M5	1.5	39.5	4	18.5	10	8	M5	6	26	67	8	6.5	6
32	18	50	G1/8	2	44.5	5	22	12	8	M6	6	32	75.5	10	7	6
40	18	60	G1/8	2.5	45.5	5	22	12	8	M6	6	42	76	10	6.5	6
50	20	68	G1/8	2.8	46.5	5	22	16	8	M8	7	50	80.5	14	8	6
63	20	88	G1/8	4	50	6	26	16	8	M10	7	62	84	14	8	6
80	25	107	G1/8	4	56	6	26	20	8.5	M10	8	82	95	17	8	6

A

ADN Series Compact Cylinder(ISO21287)



ADN 32×30-S

Ordering Code

ADN	50	×	50	—	S	—	B

Series Code
ADN: Double Action Type
AEN: Single Action Type
ADND: Double-shaft Double Action Type
ADNJ: Double-shaft and Adjustable Stroke Type

Cylinder Bore
12mm~63mm

Stroke
Normal Type:
12-25: 1-300mm
32-63: 1-400mm
Single Action:
12: 1-10mm
16-63: 1-25mm

Magnet Code
Blank: Without Magnet
S: With Magnet

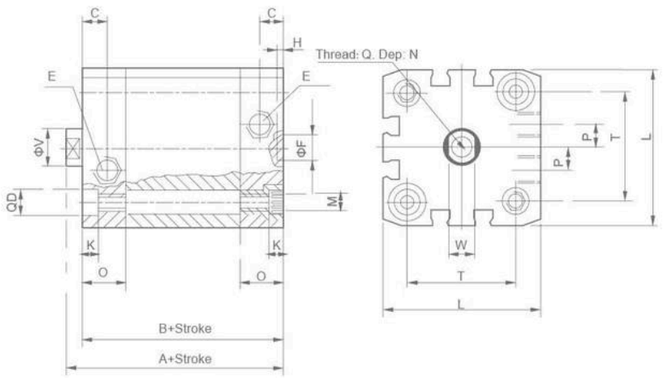
Cog Type
Blank: Inner Thread
B: Outer Thread

Specifcation

Bore(mm)	12	16	20	25	32	40	50	63
Operation	Double Acting							
Workinh Medium	Air							
Operating Pressure Range	0.1~1.0MPa							
Proof Pressure	1.5MPa							
Operating Temperature Range	-20~70℃							
Operating Speed Range	30~500mm/s							
Port Size	M5×0.8				G1/8"			

Overall Dimensions

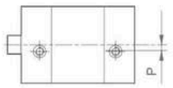
Φ32~63



Φ12~25



Φ12



Dimension Sheet

Bore(mm)	A	B	V	O	C	E	M	D	K	H	F	N	Q	L	T	W	P
12	39.2	35	6	10.5	6	M5	M4	6	3.5	2.1	9	10	M4	27.5	16	5	2
16	39.7	35	8	11	6	M5	M4	6	3.5	2.1	9	10	M4	29	18	7	2.6
20	42.5	37	10	12	6	M5	M5	9	5	2.1	9	12	M6	35.5	22	9	2.6
25	44.5	39	10	12	6	M5	M5	9	5	2.1	9	12	M6	39.5	26	9	2.6
32	50	44	12	15	8.2	G1/8	M6	9	5	2.1	9	15	M8	47	32.5	10	6
40	51.1	45	12	15	8.2	G1/8	M6	9	5	2.1	9	15	M8	54.5	38	10	8
50	52.7	45	16	15	8.2	G1/8	M8	12	5	2.6	12	20	M10	65.5	46.5	13	8
63	56.5	49	16	15	8.2	G1/8	M8	12	5	2.6	12	20	M10	75.5	56.5	13	11.5

A

SDA Series Thin Type(Compact) Cylinder



SDA 32×25



SDAJ 32×25-10

Ordering Code

SDA	20	×	30	—	5	—	S	—	B

Series Code
SDA: Double Action Type
SSA: Single Action Extrusion Type
STA: Single Action Drawing-in Type
SDAD: Double-shalf Double Action Type
SDAJ:Double-shalf and Adjustable Stroke Type

Cylinder Bore
12mm~100mm

Stroke

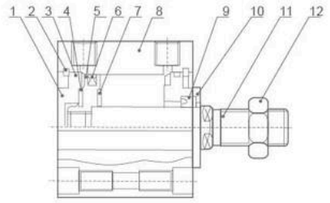
Adjust Stroke
5mm
15mm
25mm

Magnet Code
Blank:Without Magnet
S:With Magnet

Cog Type
Blank:Inner Thread
B:Outer Thread
N:No Thread

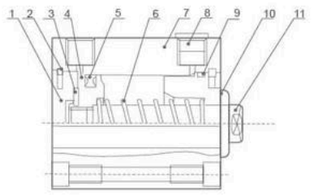
Internal structure

SDA Type



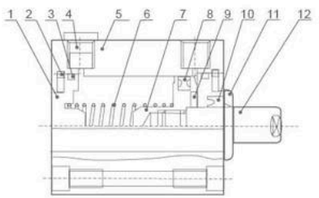
NO	Designation	NO	Designation
1	Back cover	2	Type C buckle ring
3	O-ring	4	Anti-crash cushion
5	Piston	6	Piston O-ring
7	Anti-crash cushion	8	Barrel
9	Front cover seal ring	10	Front cover
11	Piston rod	12	Piston Rod Nut

SSA Type



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		

STA Type



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	Frount cover sealring
11	Front cover	12	Piston rod

A

SDA Series Thin Type(Compact) Cylinder

Specifcation

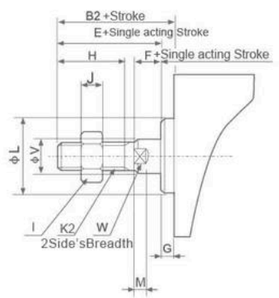
Bore(mm)		12	16	20	25	32	40	50	63	80	100
Motion Pattern		Double Action									
		Single Acting Extrusion type Single Acting Drawing-in Type						-			
Working Medium		Air									
Operating Pressure Range	Double Action	0.1~0.9MPa									
	Single Action	0.2~0.9MPa							-		
Ensured Pressure Resistance		1.35MPa									
Operating Temperature Range		-5~70℃									
Operating Speed Range	Double Action	30~500mm/s						30~350mm/s		30~250mm/s	
	Single Action	100~500mm/s						-			
Buffer Type		Fixed Type Buffer									
Port Size		M5×0.8				G1/8"		G1/4"		G3/8"	

Stroke

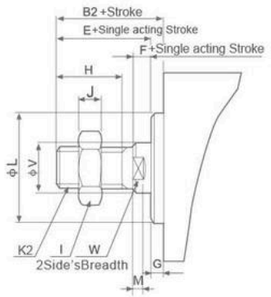
Bore(mm)		12	16	20	25		32	40	50	63	80	100
Double Action	Not attach magnet	5~60 mm Every 5mm is grouped as one grade		5~85 mm Every 5mm is grouped as one grade	5~90 mm Every 5mm is grouped as one grade	100~110 mm Every 5mm is grouped as one grade	5~90 mm Every 5mm is grouped as one grade			100~130 mm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

Outer Thread Dimension

ϕ12~ϕ16



ϕ20~ϕ100



Dimension Sheet

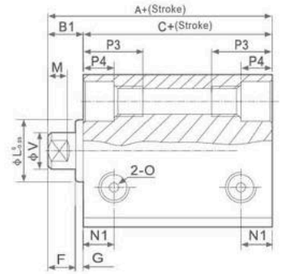
Bore/Symbol	B2	E	F	G	H	I	J	K2	L	M	V	W
12	17	16	4	1	10	8	4	M5×0.8	10.2	2.8	6	5
16	17.5	16	4	1.5	10	8	4	M5×0.8	11	2.8	6	5
20	20.5	19	4	1.5	13	10	5	M6×1.0	16	2.8	8	6
25	23	21	4	2	15	12	6	M10×1.25	17	2.8	10	8
32	25	22	4	3	15	17	6	M10×1.25	22	2.8	12	10
40	35	32	4	3	25	19	8	M14×1.5	28	2.8	16	14
50	37	33	5	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

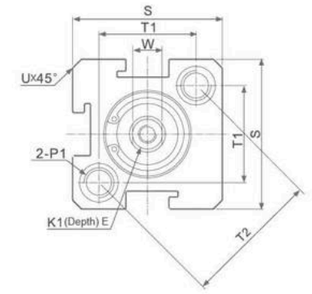
A

SDA Series Thin Type(Compact) Cylinder

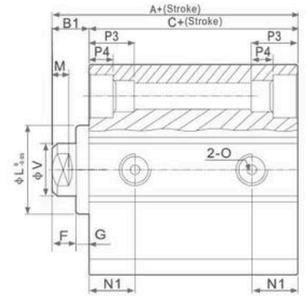
Overall Dimensions

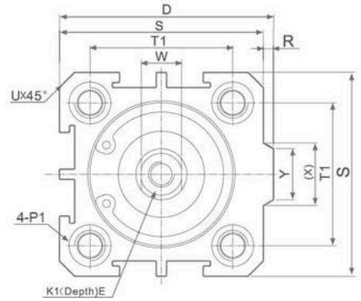
SDA.SDAS Type
Φ12-Φ16





SDA.SDAS Type
Φ20-Φ100





Dimension Sheet

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

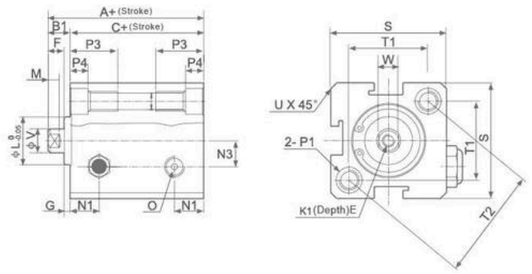
Bore Size/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	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	28.7	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

A

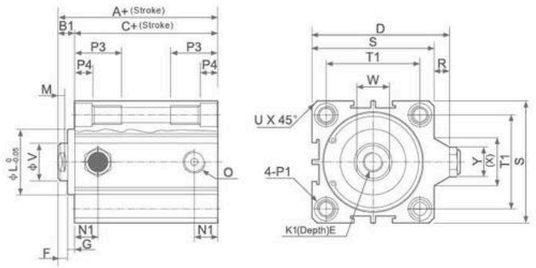
SDA Series Thin Type(Compact) Cylinder

Overall Dimensions

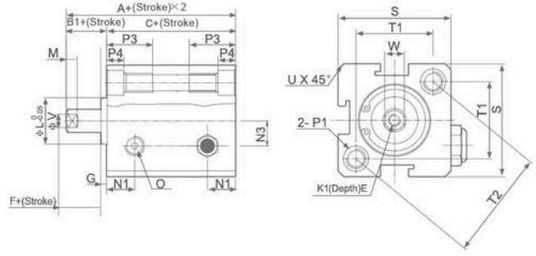
SSA.SSAS Type ϕ12– ϕ16



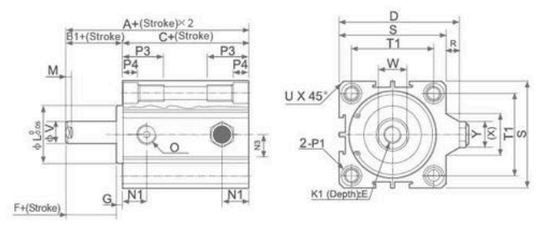
SSA.SSAS Type ϕ20– ϕ40



STA.STAS Type ϕ12– ϕ16



STA.STAS Type ϕ20– ϕ40



Dimension Sheet

Type	Standard Type						Attach Magnet				D	E	F	G	K1	L	M	N1
Bore Stroke/ Symbol	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	54.4	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

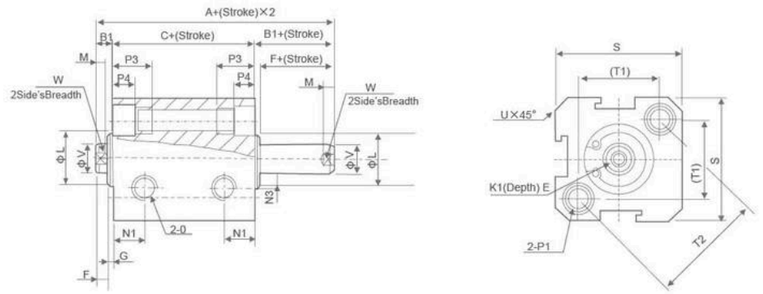
Bore Stroke/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	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

A

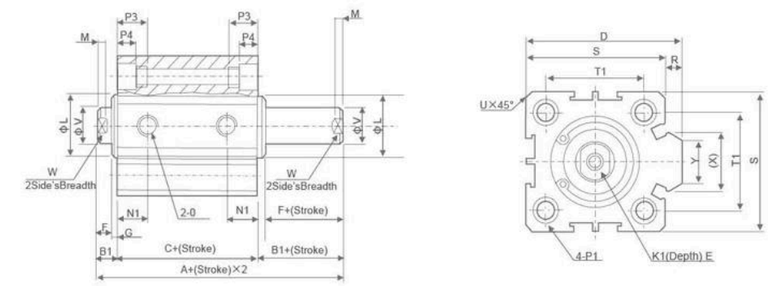
SDA Series Thin Type(Compact) Cylinder

Overall Dimensions

SDAD.SDADS Type
Φ12~Φ16



SDAD.SDADS Type
Φ20~Φ100



Dimension Sheet

Type	Standart 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/itis6.5)		4	1.5	M4×0.7	16	2.8	7.5
25	33	6	21	43	6	31	42	10(Stroke=5/itis7)		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

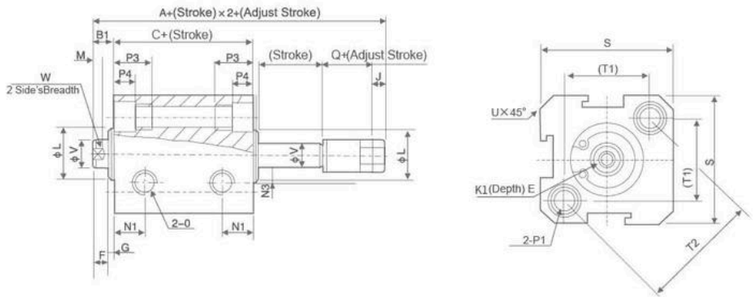
Bore Size/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	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

A

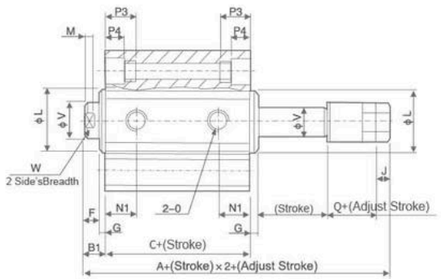
SDA Series Thin Type(Compact) Cylinder

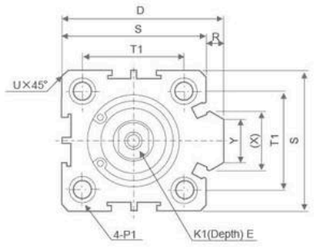
Overall Dimensions

SDAJ.SDAJS Type
Φ12~Φ16



SDAJ.SDAJS Type
Φ20~Φ100





Dimension Sheet

Type	Standart 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	43	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	2	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: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

ACQ Series Thin Type(Compact) Cylinder

NEW!



ACQ 32×25



ACQJ 32×25-10

Ordering Code

ACQ | 20 | × | 30 | — | 30 | S | — | B

Series Code
ACQ: Double Action Type
ASQ:Single Action Extrusion Type
ATQ:Single Action Drawing-in Type
ACQD:: Double-shalf Double Action Type
ACQJ:Double-shalf and Adjustable Stroke Type

Cylinder Bore
12~100mm

Stroke

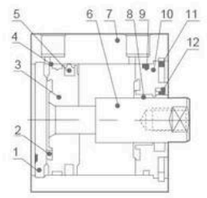
Adjust Stroke
10mm
20mm
30mm
40mm
50mm

Magnet Code
Blank:Without Magnet
S:With Magnet

Cog Type
Blank:Inner Thread
B:Outer Thread
N:No Thread

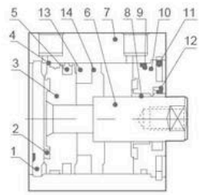
Internal structure

ACQ Type



NO	Designation	NO	Designation
1	Back Cover	2	Anti-Crash Cushion
3	Piston	4	Wear Proof Cushion
5	O-Ring	6	Piston Rod
7	Barrel	8	Bush
9	O-Ring	10	Front Cover
11	Type C Buckle Ring	12	Front Cover O-Ring

ACQS Type



NO	Designation	NO	Designation
1	Back Cover	2	Anti-Crash Cushion
3	Piston	4	Wear Proof Cushion
5	O-Ring	6	Piston Rod
7	Barrel	8	Bush
9	O-Ring	10	Front Cover
11	Type C Buckle Ring	12	Front Cover O-Ring
13	Magnet	14	Magnet Holder

Specifcation

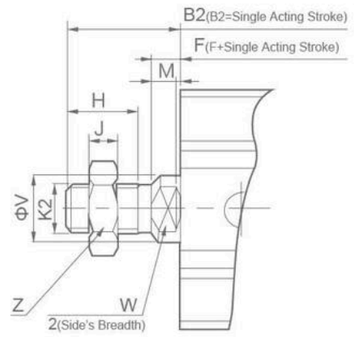
Bore(mm)		12	16	20	25	32	40	50	63	80	100
Motion Pattern		Double Action									
		Single Acting Extrusion type Single Acting Drawing-in Type									
Working Medium		Air									
Operating Pressure Range	Double Action	0.1~1.0MPa									
	Single Action	0.2~1.0MPa									
Ensured Pressure Resistance		1.5MPa									
Operating Temperature Range		-20~80℃									
Operating Speed Range	Double Action	30~500mm/s									
	Single Action	50~500mm/s									
Stroke Tolerance Range		Stroke≤150 $^{+1.0}_{0}$,Stroke ＞ 150 $^{+1.4}_{0}$									
Buffer Type		Anti-Crash Cushion									
Port Size		M5×0.8				G1/8"		G1/4"		G3/8"	

ACQ Series Thin Type(Compact) Cylinder

Stroke

Bore(mm)		Standard Stroke	Max. Stroke	Allow Stroke	
				Not Attech Magnet	Attech Magnet
12	Double Aaction	5 10 15 20 25 30 35 40 45 50	50	80	70
	Single Aaction	5 10 15 20	20	-	-
16	Double Aaction	5 10 15 20 25 30 35 40 45 50 55 60	60	80	70
	Single Aaction	5 10 15 20	20	-	-
20 25	Double Aaction	5 10 15 20 25 30 35 40 45 50 55 60 70 75 80 90 100	100	130	130
	Single Aaction	5 10 15 20 25 30	30	-	-
32 40 50	Double Aaction	5 10 15 20 25 30 35 40 45 50 55 60 70 75 80 90 100	100	150	150
63 80 100	Single Aaction	5 10 15 20 25 30	30	-	-

Overall Dimensions



Φ20-100
Stroke≤100

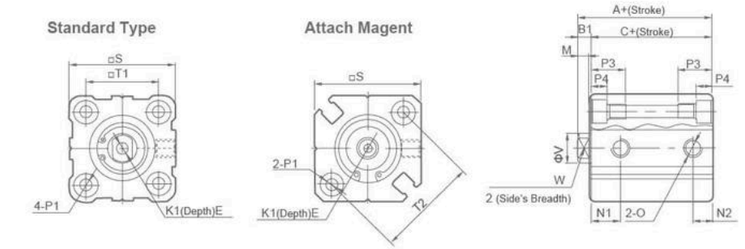
Dimension Sheet

Bore(mm)/Symbol	B2	F	H	I	J	K2	M	V	W
12	14	3.5	9	8	4	M5×0.8	3.5	6	5
16	15.5	3.5	10	10	5	M6×1.0	3	8	6
20	18.5	4.5	12	12	6	M8×1.25	4	10	8
25	22.5	5	15	17	6	M10×1.25	4.5	12	10
32	28.5	5	20.5	19	8	M14×1.5	4	16	14
40	28.5	5	20.5	19	8	M14×1.5	4	16	14
50	33.5	5	26	27	11	M18×1.5	4	20	17
63	33.5	5	26	27	11	M18×1.5	4	20	17
80	43.5	8	32.5	32	13	M22×1.5	6	25	22
100	43.5	8	32.5	36	13	M26×1.5	5.5	32	27

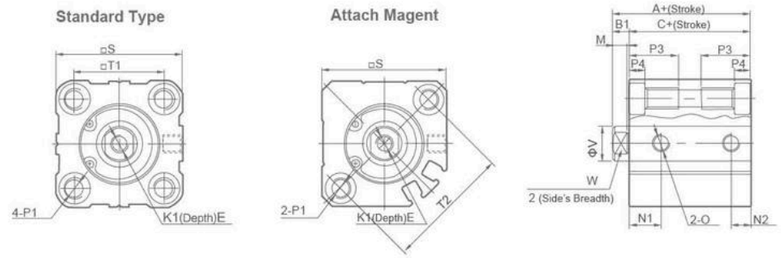
ACQ Series Thin Type(Compact) Cylinder

Overall Dimensions

ACQ，ACQS Type:
Φ12~Φ16



ACQ，ACQS Type:
Φ20,Φ25



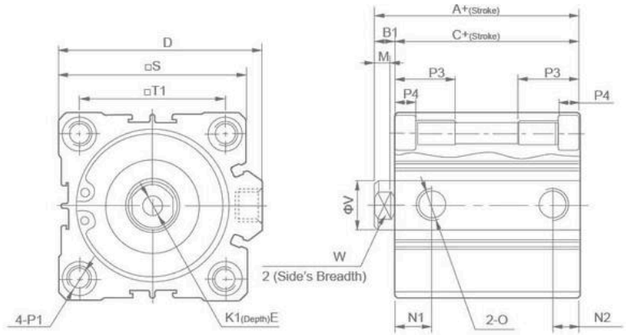
Dimension Sheet

Type	Standard Type				Attach Magnet		B1	D	E	K1	M	N1		N2	
Symbol / Bore(mm)	A		C		A	C						Standard Type	Attach Magnet	Standard Type	Attach Magnet
	Stroke≤50	Stroke≥60	Stroke≤50	Stroke≥60											
12	20.5	-	17	-	31.5	28	3.5	-	6	M3×0.5	3.5	7.5	9	5	7
16	22	-	18.5	-	34	30.5	3.5	-	8	M4×0.7	3	8	9.5	5.5	
20	24	34	19.5	29.5	36	31.5	4.5	-	7	M5×0.8	4	9	9.5	5.5	
25	27.5	37.5	22.5	32.5	37.5	32.5	5	-	12	M6×1.0	4.5	11		5.5	

Bore(mm)/Symbol	O	P1	P3	P4	S	T1	T2	V	W
12	M5×0.8	Double Sides:Φ6.5/Thread:M4×0.7/Through ports:Φ3.4	11	3.5	25	15.5	22	6	5
16	M5×0.8	Double Sides:Φ6.5/Thread:M4×0.7/Through ports:Φ3.4	11	3.5	29	20	28	8	6
20	M5×0.8	Double Sides:Φ9/Thread:M6×1.0/Through ports:Φ5.2	17	7	36	25.5	36	10	8
25	M5×0.8	Double Sides:Φ9/Thread:M6×1.0/Through ports:Φ5.2	17	7	40	28	40	12	10

Overall Dimensions

ACQ Φ32-Φ100
Stroke≤100



A

ACQ Series Thin Type(Compact) Cylinder

Dimension Sheet

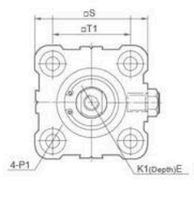
Type		Standard Type				Attach Magnet		B1	D	E	K1	M	Standard Type	Attach Magnet	Standard Type	Attach Magnet
Symbol		A		C		A	C						N1		N2	
Bore(mm)		Stroke≤50	Stroke≥60	Stroke≤50	Stroke≥60											
32	Stroke=5	30	40	23	33	40	33	7	49.5	13	M8×1.25	6	7.5	10.5	6.5	7.5
	Stroke > 5												10.5		7.5	
40		36.5	46.5	29.5	39.5	46.5	39.5	7	57	13	M8×1.25	6	11		8	
50	Stroke=5	38.5	48.5	30.5	40.5	48.5	40.5	8	71	15	M10×1.5	6.5	9	10.5	9	10.5
	Stroke > 5												10.5		10.5	
63	Stroke=5	44	54	36	46	54	46	8	84	15	M10×1.5	6.5	14	15	9.5	10.5
	Stroke > 5												15		10.5	
80		53.5	63.5	43.5	53.5	63.5	53.5	10	104	20	M16×2.0	8.5	16		14	
100		65	75	53	63	75	63	12	123.5	26	M20×2.5	9.5	20		17.5	

Bore (mm)/ Symbol	O	P1	P3	P4	S	T1	T2	V	W
32	G1/8"	Double Sides:Φ9/Thread:M6×1.0/Through ports:Φ5.2	17	7	45	34	-	16	14
40	G1/8"	Double Sides:Φ9/Thread:M6×1.0/Through ports:Φ5.2	17	7	53	40	-	16	14
50	G1/4"	Double Sides:Φ11/Thread:M8×1.25/Through ports:Φ6.5	22	8	64	50	-	20	17
63	G1/4"	Double Sides:Φ14/Thread:M10×1.5/Through ports:Φ8.7	28.5	10.5	77	60	-	20	17
80	G3/8"	Double Sides:Φ17.5/Thread:M12×1.75/Through ports:Φ10.7	35.5	13.5	98	77	-	25	22
100	G3/8"	Double Sides:Φ17.5/Thread:M12×1.75/Through ports:Φ10.7	35.5	13.5	117	94	-	32	27

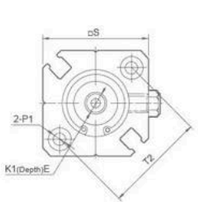
Overall Dimensions

Φ12-Φ16

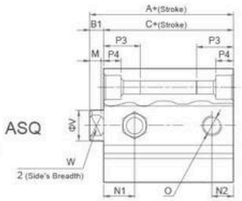
Standard Type



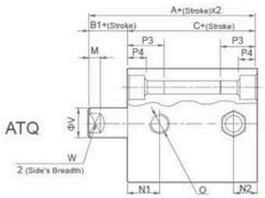
Attach Magent



ASQ

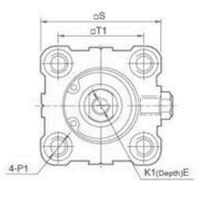


ATQ

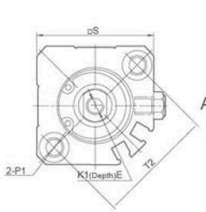


Φ20-Φ25

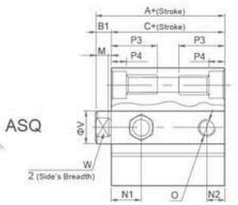
Standard Type



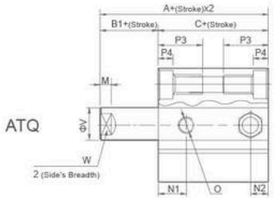
Attach Magent



ASQ



ATQ

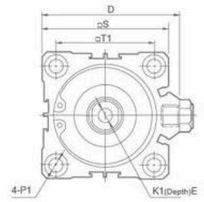


A

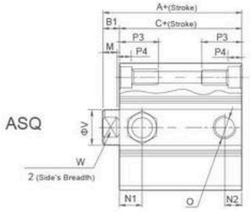
ACQ Series Thin Type(Compact) Cylinder

Overall Dimensions

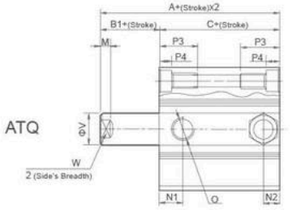
Φ32-Φ63



ASQ



ATQ



Dimension Sheet

Type	Without Magent						Attach Magent					
Bore(mm)/Symbol	A			C			A			C		
Stroke	5/10	15/20	25/30	5/10	15/20	25/30	5/10	15/20	25/30	5/10	15/20	25/30
12	25.5	30.5	-	22	27	-	36.5	41.5	-	33	38	-
16	27	32	-	23.5	28.5	-	39	44	-	35.5	40.5	-
20	29	34	39	24.5	29.5	34.5	41	46	51	36.5	41.5	46.5
25	32.5	37.5	42.5	27.5	32.5	37.5	42.5	47.5	52.5	37.5	42.5	47.5
32	35	40	45	28	33	38	45	50	55	38	43	48
40	41.5	46.5	51.5	34.5	39.5	44.5	51.5	56.5	61.5	44.5	49.5	54.5
50	48.5	53.5	58.5	40.5	45.5	50.5	58.5	63.5	68.5	50.5	55.5	60.5
63	54	59	64	46	51	56	64	69	74	56	61	66

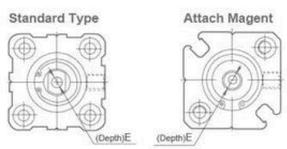
Type	B1	D	E	K1	M	Standard Type	Attach Magent	Standard Type	Attach Magent
Bore(mm)/Symbol						N1		N2	
12	3.5	-	6	M3×0.5	3.5	7.5	9	5	7
16	3.5	-	8	M4×0.7	3	8	9.5	5.5	
20	4.5	-	7	M5×0.8	4	9	9.5	5.5	
25	5	-	12	M6×1.0	4.5	11		5.5	
32	7	49.5	13	M8×1.25	6	10.5		7.5	
40	7	57	13	M8×1.25	6	11		8	
50	8	71	15	M10×1.5	6.5	10.5		10.5	
63	8	84	15	M10×1.5	6.5	15		10.5	

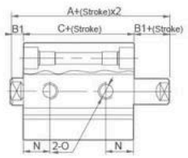
Bore(mm)/Symbol	O	P1	P3	P4	S	T1	T2	V	W
12	M5×0.8	Double Sides:Φ6.5/Thread:M4x0.7/Through ports:Φ3.4	11	3.5	25	15.5	22	6	5
16	M5×0.8	Double Sides:Φ6.5/Thread:M4x0.7/Through ports:Φ3.4	11	3.5	29	20	28	8	6
20	M5×0.8	Double Sides:Φ9/Thread:M6x1.0/Through ports:Φ5.2	17	7	36	25.5	36	10	8
25	M5×0.8	Double Sides:Φ9/Thread:M6x1.0/Through ports:Φ5.2	17	7	40	28	40	12	10
32	G1/8"	Double Sides:Φ9/Thread:M6x1.0/Through ports:Φ5.2	17	7	45	34	-	16	14
40	G1/8"	Double Sides:Φ9/Thread:M6x1.0/Through ports:Φ5.2	17	7	53	40	-	16	14
50	G1/4"	Double Sides:Φ11/Thread:M10x1.25/Through ports:Φ6.5	22	8	64	50	-	20	17
63	G1/4"	Double Sides:Φ14/Thread:M10x1.5/Through ports:Φ8.7	28.5	10.5	77	60	-	20	17

ACQ Series Thin Type(Compact) Cylinder

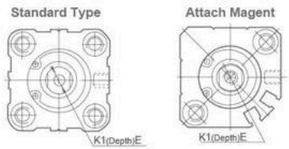
Overall Dimensions

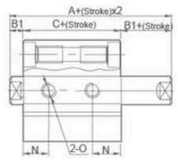
ACQD Type Φ12-Φ16



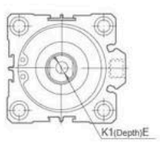


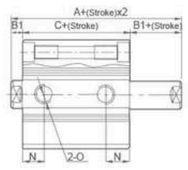
ACQD Type Φ20-Φ25





ACQD Type Φ32-Φ100





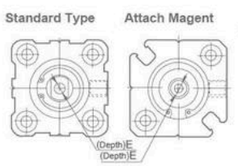
Dimension Sheet

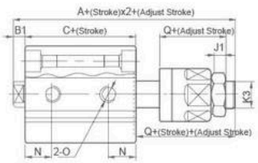
Type	Standard Type		Attach Magent		B1	E	N
Bore(mm)/ Symbol	A	C	A	C			
12	32.2	25.2	39.4	32.4	3.5	6	9
16	33	26	43	36	3.5	8	9.5
20	35	26	47	38	4.5	7	9.5
25	39	29	49	39	5	9.5(S=5)12(S>5)	11
32	44.5	30.5	54.5	40.5	7	9(S≤10) 13(S>10)	10
40	54	40	64	50	7	11(S≤10) 13(S>10)	13
50	56.5	40.5	66.5	50.5	8	12(S≤10) 15(S>10)	13.5
63	58	42	68	52	8	12(S≤10) 15(S>10)	14.5(S=5) 16(S>5)
80	71	51	81	61	10	14(S≤15) 20(S>15)	16
100	84.5	60.5	94.5	70.5	12	20(S≤25) 26(其他)	21

Note:If dimension not remarked, it is same as satandard.

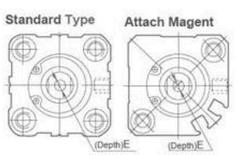
Overall Dimensions

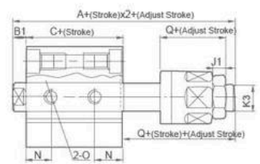
ACQJ Φ12-Φ16



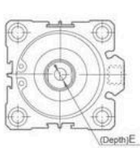


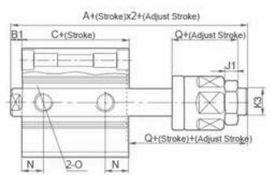
ACQJ Φ20-Φ25





ACQJ Φ32-Φ100





Dimension Sheet

Type	Standard Type		Attach Magent		B1	E	N	Q	J1	K3
Bore(mm)/ Symbol	A	C	A	C						
12	45.2	25.2	52.4	32.4	3.5	6	9	17	4	M5×0.8
16	50	26	60	36	3.5	8	9.5	21	5	M6×1.0
20	55	26	67	38	4.5	7	9.5	25	6	M8×1.25
25	60.5	29	70.5	39	5	9.5(S=5) 12(S>5)	11	27	6	M10×1.25
32	64.9	30.5	74.9	40.5	7	9(S≤10) 13(S>10)	10	28	7	M12×1.25
40	74.5	40	84.5	50	7	11(S≤10) 13(S>10)	13	28	7	M12×1.25
50	77	40.5	87	50.5	8	12(S≤10) 15(S>10)	13.5	29	8	M16×1.5
63	78.4	42	88.4	52	8	12(S≤10) 15(S>10)	14.5(S=5) 16((S>5)	29	8	M16×1.5
80	95.8	51	105.8	61	10	14(S≤15) 20(S>15)	16	35.5	10	M20×1.5
100	114.3	60.5	124.3	70.5	12	20(S≤25) 26(S 其它)	21	42.5	13.5	M27×2.0

CQ2 Series Compact Cylinder



CDQ2B 20×25D



CDQ2B 40×25



CQ2B 32×30-M

Ordering Code

CQ2 □ 12 × 10 D □

Series Code
CQ2:Normal Type
CDQ2:Attach magnet Type

Mounting Style
B:With through bore
A:With female thread on both ends

Cylinder Bore
Single action:12mm-50mm
Double action:12mm-100mm

Stroke
0~100mm

Action
D:Double action
S:Single action(with spring return)
T:Single action(with spring extent)

Cylinder body (optional)
Blank:Inner Thread
M:Outer Thread
C:With Cushion

Specifcation

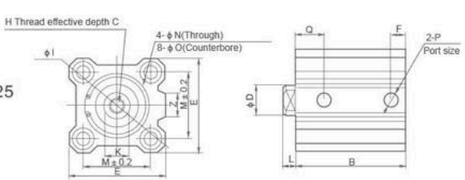
Bore(mm)	12	16	20	25	32	40	50	63	80	100
Working Medium	Air									
Motion Pattern	Double action/Single Action Extrusion type/Single Action Drawing-in Type									
Ensured Pressure Resistance	15.3kgf/cm²(1.5Mpa)									
Max.pressure	10.2kgf/cm²(1.0Mpa)									
Environment And Fluid Temp	5~+60℃									
Thread Type	Inner Thread(Standard)/Outer Thread(Optional)									
Buffering	NO									
Margin of Stroke Error(mm)	$^{+1}_{0}$									
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.

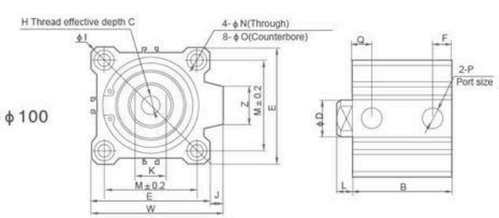
Overall Dimensions

Through Hole Type/CQ2B Series

Φ12~Φ25



Φ32~Φ100



CQ2 Series Compact Cylinder

Dimension Sheet(Double Action)

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	M6×0.8	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	M8×1.0	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 2) Long Stroke

Model	Stroke (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

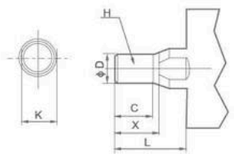
Note 1)The standard stroke is at a distance of each 5 mm.
Note 2)The stroke between 55mm-100mm(55,60,65,70,80,85,90,95,)need to be added thickness of 5,10,15 or 20mm pad.
Note 3)External dimensions with bumper are same as standard type as shown above.

Dimension Sheet(Single Action)

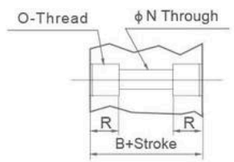
Model	B			ΦD	E	F		H	C	ΦI	J	K	L	M	ΦN	ΦO	P			Q		W	Z
	5st	10st	20st			5st	10st										5st	10st	20st	5st	10st		
CQ2B12-□S	22	27	-	6	25	5	5	M3×0.5	6	32	-	5	3.5	15.5	3.5	6.5 depth 3.5	M5×0.8		-	7.5	7.5	-	-
CQ2B16-□S	23.5	28.5	-	8	29	5.5	5.5	M4×0.7	8	38	-	6	3.5	20	3.5	6.5 depth 3.5	M5×0.8		-	8	8	-	10
CQ2B20-□S	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

St=Stroke

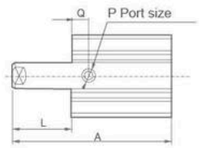
Outer Thread Type



(Inner Thread Type)/CQ2A



Single Action (with Spring extent) ϕ12~ϕ50



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	10.5	13.5	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

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

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

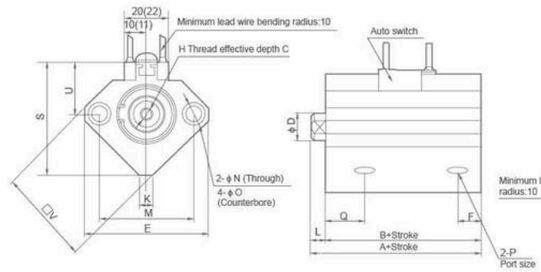
■ External dimensions with bumper are same as stsndard type as shown above.

CQ2 Series Compact Cylinder

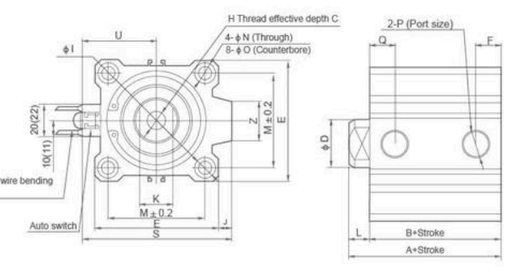
Overall Dimensions

CDQ2B Series

ϕ12~ϕ25



ϕ32~ϕ100



Dimension Sheet(Double Action)

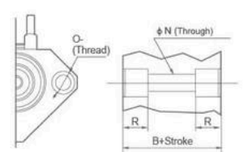
Model	Stroke range (mm)	A	B	ΦD	E	F	H	C	ΦI	J	K	L	M	ΦN	ΦO	P	Q	S	U	V	Z
CDQ2B12	5~30	31.5	28	6	32	6.5	M3×0.5	6	-	-	5	3.5	22	3.5	6.5 depth 3.5	M5×0.8	11	35.5	19.5	25	-
CDQ2B16	5~30	34	30.5	8	38	5.5	M4×0.7	8	-	-	6	3.5	28	3.5	6.5 depth 3.5	M5×0.8	10	41.5	22.5	29	-
CDQ2B20	5~50	36	31.5	10	46.8	5.5	M5×0.8	7	-	-	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

Note2) (Long Stroke)

Model	Stroke (mm)	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 rumper are same as standard type as shown above.
Note 4)The stroke of cylinder in 5 mm can be fixed only one magnetism switch

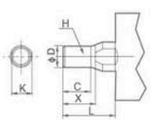
Inner Thread Type
CDQ2A



Note3)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

Outer 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

A

CJP Series Needle Cylinder



CJPB 10×15

Ordering Code

CJP — 10 × 5 — B

Series Code
CJPB:Panel Mount Type
CJPS:Invisible Type
CJPD:Double Action Type

Cylinder Bore
6mm
10mm
15mm

Stroke
0~30mm

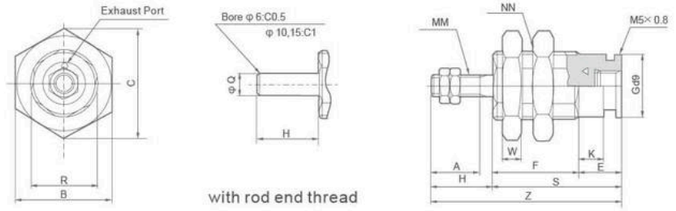
Thread Type
Blank:With Thread
B:No. Thread

Specifcation

Bore(mm)	6	10	15
Working Medium	Air		
Motion Pattern	Double action / Single Action(Drawing-in Type)		
Ensured Pressure Resistance	10.5kgf/cm²(1.05Mpa)		
Max.pressure	7kgf/cm²(0.7Mpa)		
Min.pressure	2kgf/cm²(0.2Mpa)		1.5kgf/cm²(0.15Mpa)
Operating Temperature Range	5~+60℃		
Buffering	NO		
Margin of Stroke Error(mm)	+1.0 0		
Port size	M5×0.8 Panel mount Type		

Overall Dimensions

Panel Mounting Style
CJPB



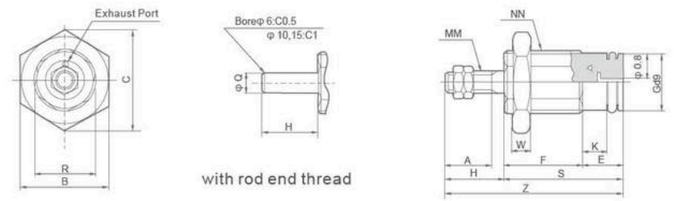
Dimension Sheet

St=(Stroke) mm

Bore(mm)	A	B	C	E	F			ΦG	H	K	MM	NN	R	S			W	Z			Q
					5st	10st	20st							5st	10st	20st		5st	10st	20st	
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3×0.5	M10×1.0	9	18.5	22.5	32.5	3	27.5	34.5	41.5	3
10	10	19	22	6	14.5	21	28	12	12	3.5	M4×0.7	M15×1.5	13	20.5	27	34	4	32.5	39	46	5
15	12	27	31	7	16.5	22.5	29	19	14	4.2	M5×0.8	M22×1.5	20	23.5	29.5	36	5	37.5	43.5	50	6

Overall Dimensions

(Plug Mounting Style)
CJPS



Dimension Sheet

Bore(mm)	A	B	C	E	F			ΦG	H	K	MM	NN	R	S			W	Z			Q
					5st	10st	20st							5st	10st	20st		5st	10st	20st	
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3×0.5	M10×1.0	9	18.5	22.5	32.5	3	27.5	34.5	41.5	3
10	10	19	22	6	14.5	21	28	12	12	3.5	M4×0.7	M15×1.5	13	20.5	27	34	4	32.5	39	46	5
15	12	27	31	7	16.5	22.5	29	19	14	4.2	M5×0.8	M22×1.5	20	23.5	29.5	36	5	37.5	43.5	50	6

XCPC

Rotary table/Air gripper/Rodless Cylinders

Cylinders for special industries and requirement. XCPC provide the highest quality products of these cylinders in China. It is the high cost effective product you can find in our company. They are include: TN/CXS(Double-Shaft),MGP(Three-Shaft),MSQ/CRQ2/CRA1(Rotary table), XHZ/XHC/XHY(Clamp Gripper), XHL(Parallel style), XHT(Angle Gripper),XHS(Round Body) and CY3(Rodless).etc.



A

TN Series Double-Shaft Cylinder



TN 20×25

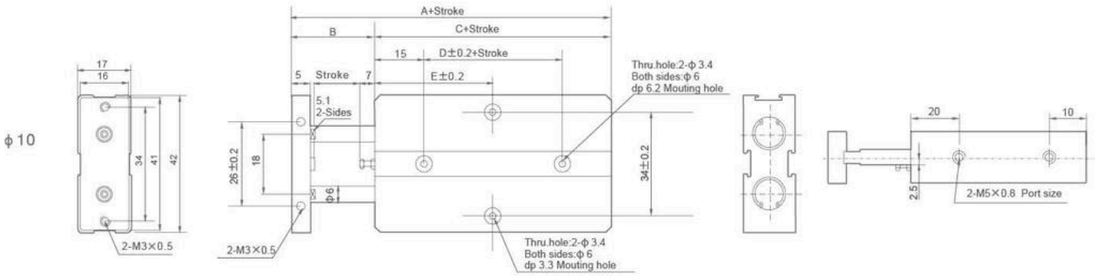
Ordering Code

TN	20	×	50	—	S
Series Code	**Cylinder Bore**		**Stroke**		**Magnet Code**
Double-Shaft Double Action Type	10mm 16mm 20mm 25mm 32mm				Blank:Without Magnet S:Attach Magnet

Specifcation

Bore(mm)	10	16	20	25	32
Motion Pattern	Double action				
Working Medium	Air				
Operating Pressure Range	1~9kgf/cm²				
Ensured Pressure Resistance	10.5kgf/cm²				
Operating Temperature Range	-5~+70℃				
Operating Speed Range	100~500mm/s				
Adjustable Stroke	-10~0mm				
Cushion Type	Adjustable Cushion				
Non-rotating Precision	0.4°	0.3°			
Port Size	M5×0.8				G1/8"

Overall Dimensions



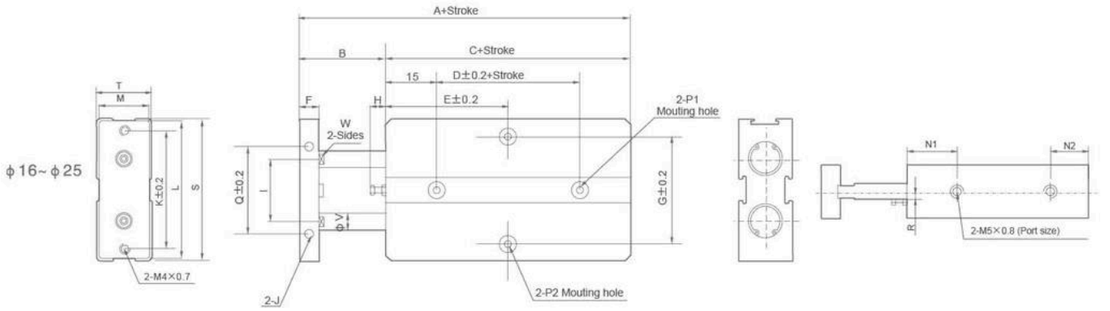
Dimension Sheet

Bore size / Item	A	B	C	D	E						
					10	20	30	40	50	60	70
10	63	12	51	10	30	30	35	40	45	50	55

A

TN Series Double-Shaft Cylinder

Overall Dimensions

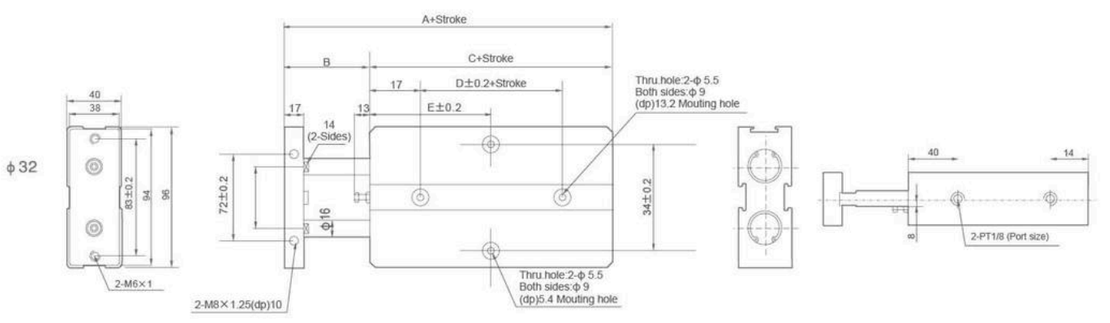


Dimension Sheet

Bore size / Item	A	B	C	D	E												F	G	H	I
					10	20	30	40	50	60	70	80	90	100	125	150				
16	68	15	53	20	30	35	40	45	50	55	60	65	70	75	87.5	100	8	47	6	24
20	78	20	58	20	35	35	40	45	50	55	60	65	70	75	87.5	100	10	55	9	28
25	81	19	62	30	40	40	45	50	55	60	65	70	75	80	92.5	105	10	66	8	34

Bore size/Item	J	K	L	M	N1	N2	P1	P2	Q	R	S	T	V	M
16	M4×0.7/dp 5	47	53	20	22	11	Both sides :Φ7.5(dp) 7.2mm Thru.hole: Φ4.5	Both sides :Φ8(dp) 4.4mm Thru.hole: Φ4.5	34	3	54	21	8	6.1
20	M4×0.7/dp 5	55	61	24	25	12	Both sides:Φ7.5(dp) 7.2mm Thru.hole: Φ4.5	Both sides:Φ8(dp) 4.4mm Thru.hole: Φ4.5	44	3.5	62	25	10	8.1
25	M4×0.7/dp 6	66	72	29	27	12	Both sides:Φ7.5(dp) 7.2mm Thru.hole: Φ4.5	Both sides:Φ8(dp) 4.4mm Thru.hole: Φ4.5	56	7	73	30	12	10.2

Overall Dimensions



Dimension Sheet

Bore size / Item	A	B	C	D	E											
					10	20	30	40	50	60	70	80	90	100	125	150
32	108	30	78	35	45	50	55	60	65	70	75	80	85	90	102.5	115

A

CXS Series Double-Shaft Cylinder



CXS 20×50

Ordering Code

CXS — M 20 × 50

Series Code
CXS:Attach Magnet Type

Type Of Bearing
M:Slide Bearing Type
L:Ball Guide Bearing Type

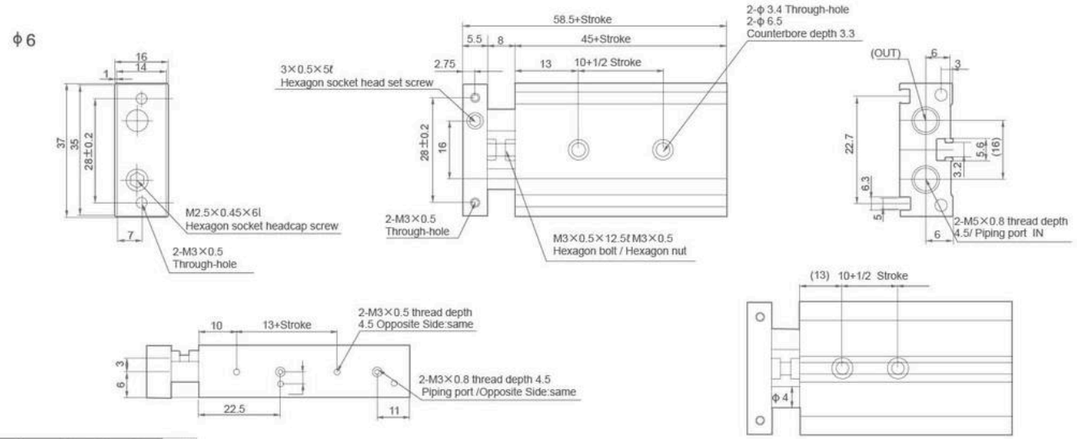
Cylinder Bore
6mm
10mm
15mm
20mm
25mm
32mm

Stroke
Φ6: 0~50mm
Φ10~32: 0~100mm

Specifcation

Bore(mm)		6	10	15	20	25	32
Working Medium		Air					
Motion Pattern		Double action					
Ensured Pressure Resistance		1.05Mpa(10.7kgf/cm²)					
Max.pressure		0.7Mpa(7.1kgf/cm²)					
Min.pressure		0.15Mpa(1.5kgf/cm²)	0.1Mpa(1.0kgf/cm²)			0.05Mpa(0.51kgf/cm²)	
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	±0.08
	Ball Guide Bearing	±0.1	±0.1	±0.07	±0.06	±0.05	±0.04
Port size		M5×0.8					G1/8"

Overall Dimensions



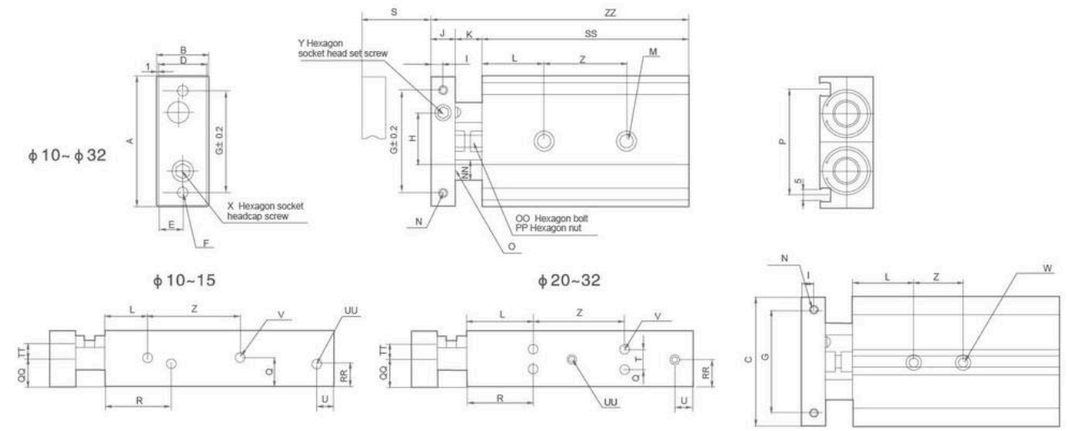
Dimension Sheet

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

A

CXS Series Double-Shaft Cylinder

Overall Dimensions



Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	NN	O	OO	P
CXS□10-10 /20/30/40/50	46	17	44	15	7.5	2-M4×0.7	35	20	4	8	9	20	2-Φ3.4/through 2-Φ6.5 Counterbore depth3.3	2-M3×0.5 thread depth 5	Φ6	5	M4×0.7×14.5L	33.6
CXS□15-10 /20/30/40/50	58	20	56	18	9	2-M5×0.8	45	25	5	10	9	30	2-Φ4.3/through 2-Φ8 Counterbore depth4.4	2-M4×0.7 thread depth 6	Φ8	6	M4×0.7×14.5L	48
CXS□20-10/20/ 30/40/50/75/100	64	25	62	23	11.5	2-M5×0.8	50	28	6	12	12	30	2-Φ5.5/through 2-Φ9.5 Counterbore depth5.3	2-M4×0.7 thread depth 6	Φ10	8	M6×1.0×18.5L	53
CXS□25-10/20/ 30/40/50/75/100	80	30	78	28	14	2-M6×1.0	60	35	6	12	12	30	2-Φ6.9/through 2-Φ11 Counterbore depth6.3	2-M5×0.8 thread depth 7.5	Φ12	10	M6×1.0×18.5L	64
CXS□32-10/20/ 30/40/50/75/100	98	38	96	35	18	2-M6×1.0	75	44	8	16	14	30	2-Φ6.9/through 2-Φ11 Counterbore depth6.3	2-M5×0.8 thread depth 8	Φ16	13	M8×12.5×23L	76

Model	PP	Q	QQ	R	RR	T	TT	U	UU	V	W	X	Y
CXS□10-10 /20/30/40/50	M4×0.7	8.5	7	30	7	-	5	8	4-M5×0.8 thread depth 4.5	4-M3×0.5 thread depth 4.5	4-M3×0.5 thread depth 4.5	M3×0.5×10L	M3×0.5×5L
CXS□15-10 /20/30/40/50	M4×0.7	10	10	38.5	10	-	5	8	4-M5×0.8 thread depth 4.5	4-M4×0.7 thread depth 5	2-M5×0.8 thread depth 8	M5×0.8×10L	M4×0.7×4L
CXS□20-10/20/ 30/40/50/75/100	M6×1.0	7.75	12.5	45	7.75	9.5	6.5	8	4-M5×0.8 thread depth 4.5	8-M4×0.7 thread depth 6	2-M6×1.0 thread depth 10	M6×1.0×12L	M5×0.8×5L
CXS□25-10/20/ 30/40/50/75/100	M6×1.0	8.5	15	46	15	13	9	9	4-1/8 thread depth 6.5	8-M5×0.8 thread depth 7.5	2-M8×1.25 thread depth 12	M6×1.0×14L	M6×1.0×5L
CXS□32-10/20/ 30/40/50/75/100	M8×1.25	9	19	56	19	20	11.5	10	4-1/8 thread depth 6.5	8-M5×0.8 thread depth 7.5	2-M8×1.25 thread depth 12	M8×1.25×16L	M8×1.25×8L

Model	S	SS	Z	ZZ	Model	S	SS	Z	ZZ	Model	S	SS	Z	ZZ	Model	S	SS	Z	ZZ	Model	S	SS	Z	ZZ
CXS□10-10	10	65	30	82	CXS□15-10	10	70	25	89	CXS□20-10	10	80	30	104	CXS□25-10	10	82	30	106	CXS□32-10	10	92	40	122
CXS□10-20	20	75		92	CXS□15-20	20	80		99	CXS□20-20	20	90		114	CXS□25-20	20	95		116	CXS□32-20	20	102		132
CXS□10-30	30	85		102	CXS□15-30	30	90		109	CXS□20-30	30	100		124	CXS□25-30	30	102		126	CXS□32-30	30	112		142
CXS□10-40	40	95	40	112	CXS□15-40	40	100	35	119	CXS□20-40	40	110	40	134	CXS□25-40	40	112	40	136	CXS□32-40	40	122	50	152
CXS□10-50	50	105		122	CXS□15-50	50	110		129	CXS□20-50	50	120		144	CXS□25-50	50	122		146	CXS□32-50	50	132		162
										CXS□20-75	75	145	60	169	CXS□25-75	75	147	60	171	CXS□32-75	75	157	70	187
										CXS□20-100	100	170		194	CXS□25-100	100	172		196	CXS□32-100	100	182		212

A

CU Series Free Installation Cylinder



CDU 25×30



CDUK 16×30

Ordering Code

CU □ 10 × 30 — □

Series Code
CU:Normal Type
CDU:Attach Magnet Type

Kinds
Blank:Normal Type
K:Non-Rotating Piston Rod Type

Cylinder Bore
6mm
10mm
16mm
20mm
25mm
32mm

Stroke
0~50mm

Action
D:Double Action
S:Single Action Spring Drawing-in Type
T:Single Action Spring Extrusion Type

Specifcation

Bore(mm)		6	10	16	20	25	32
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 Note)					
Rod end thread		Male thread					
Thread tolerance		Class 2					
Cushion		Both ends buffer					
Margin of Stroke Error(mm)		$^{+1.0}_{0}$ mm					
Precision of Piston rod with Non-rotating		±0.8°			±0.5°		
Port Size		M5×0.8					G1/8"

■ Note) Φ6 single acting with auto switch type: One side rubber bumper.

Standard Stroke

Action Type	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

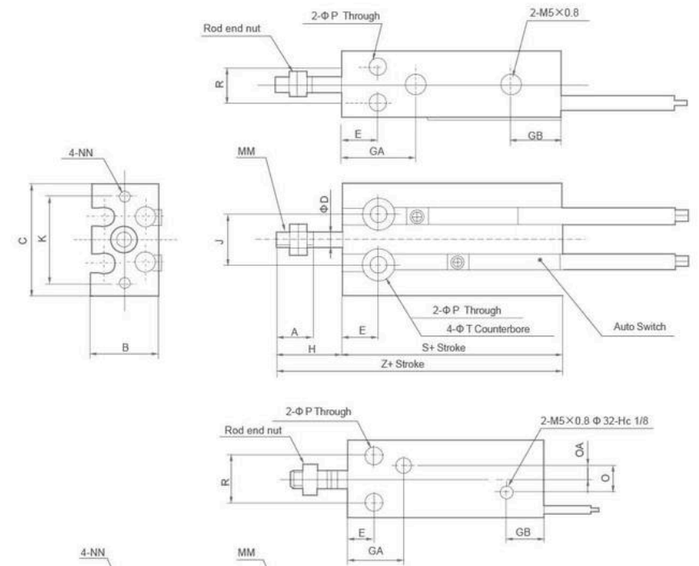
A

CU Series Free Installation Cylinder

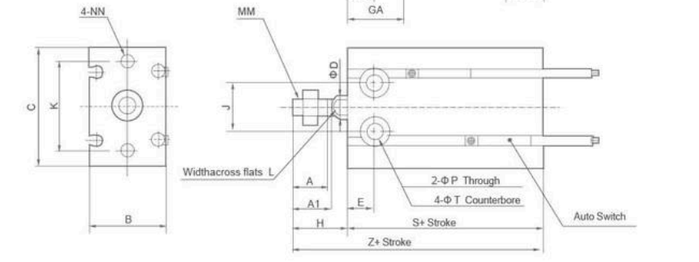
Overall Dimensions

Double Acting, Single Rod

ϕ6~ϕ10



ϕ16~ϕ32



Dimension Sheet

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

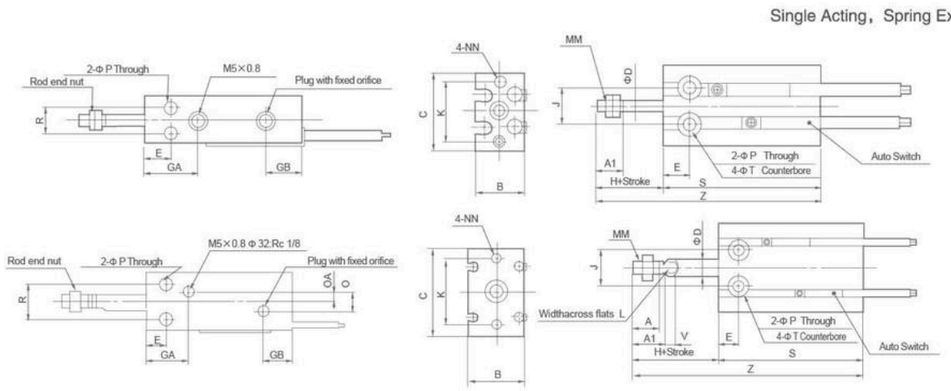
Bore size (mm)	NN	P	Q	QA	R	T	Without Auto Switch		With Auto Switch	
							S	Z	S	Z
6	M3×0.5 depth 5	3.2	-	-	7	6 depth 4.8	33	46	33	46
10	M3×0.5 depth 5	3.2	-	-	9	6 depth 5	36	52	36	52
16	M4×0.7 depth 6	4.5	4	2	12	7.6 depth 6.5	30	46	40	56
20	M5×0.8 depth 8	5.5	9	4.5	16	9.3 depth 8	36	55	46	65
25	M5×0.8 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

■ Note)5 Stroke(CU16-5D):14.5mm

CU Series Free Installation Cylinder

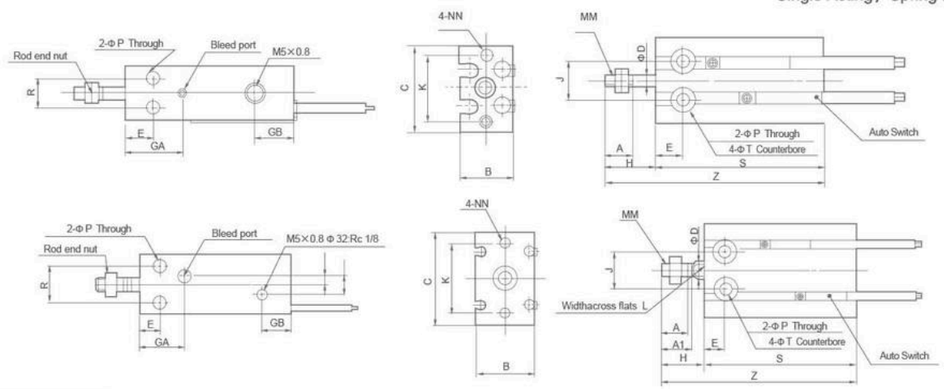
Overall Dimensions

Single Acting，Spring Extend



Overall Dimensions

Single Acting，Spring Return



Dimension Sheet

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

STM Series Slide Bearing Cylinder



STMB 16 × 50



STMS 16 × 125

Ordering Code

STM	B	16	×	50
Series Code	**Mounting type**	**Cylinder Bore**		**Stroke**
Silding Type	B:Body fixed Type S:Sliding Block Fixed Type	10mm 16mm 20mm 25mm		0~250mm

Specifcation

Bore(mm)	10	16	20	25
Motion Pattern	Double action			
Working Medium	Air			
Operating Temperature Range	-5~+70℃			
Operating Pressure Range	1.0~9.0kgf/cm^2			
Ensured Pressure Resistance	13.5kgf/cm^2			
Operating Speed Range	50~200mm/s			
Buffer Type	Shock Absorter			
Lubrication	NO			
Non-rotating Precision	±0.1°	±0.05°		
Port size	M5×0.8			G1/8"

Standard Stroke

Bore size(mm)	Standard stroke(mm)
10	25 50 75 100
16	25 50 75 100 125 150 175 200
20	25 50 75 100 125 150 175 200 250
25	25 50 75 100 125 150 175 200 250

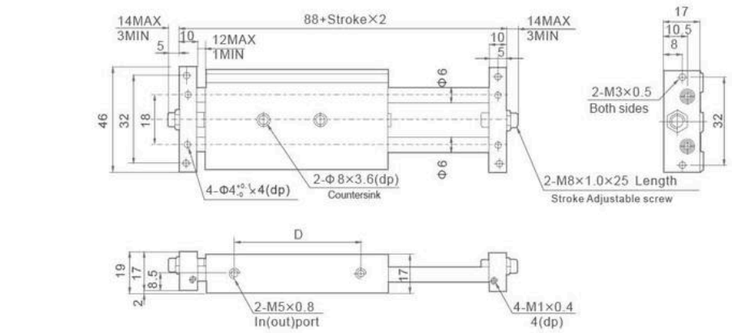
Throretical thrust

Bore size(mm)	Rod size (mm)	Pressure area (cm^2)	Operating pressure(Kgf/cm^2)								
			1	2	3	4	5	6	7	8	9
10	6	0.50	0.48	0.95	1.43	1.9	2.38	2.85	3.43	3.8	4.28
16	8	1.51	1.43	2.87	4.30	5.74	7.17	8.61	10.04	11.48	12.91
20	10	2.36	2.24	4.48	6.73	8.97	11.21	13.45	15.69	17.94	20.18
25	12	3.78	3.51	7.18	10.77	14.36	17.96	21.55	25.14	28.73	32.32

A

STM Series Slide Bearing Cylinder

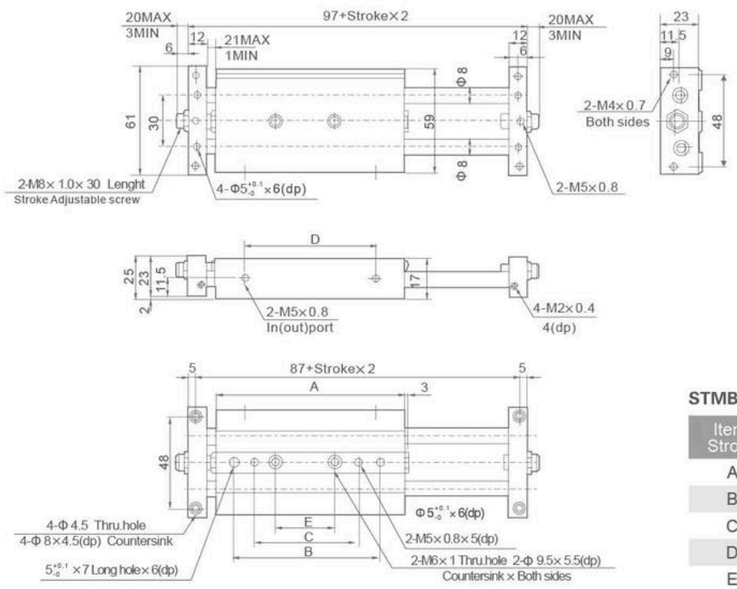
Overall Dimensions



STMB–10

Item/Stroke	25	50	75	100
A	81	106	131	156
B	65	85	85	85
C	35	60	60	60
D	46	71	96	121
E	15	40	40	40

Overall Dimensions



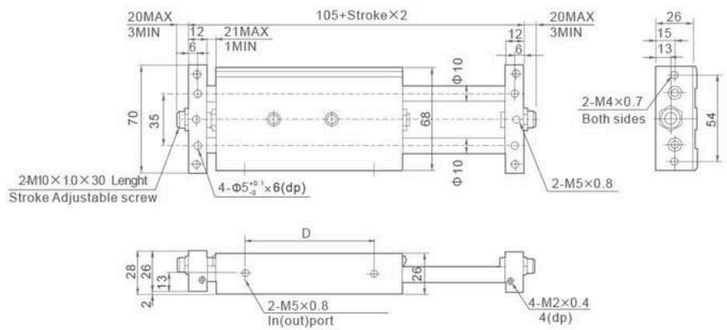
STMB–16

Item/ Stroke	25	50	75	100	125	150	175	200
A	86	111	136	161	186	211	236	261
B	55	70	105	130	150	150	150	150
C	-	-	75	100	120	120	120	120
D	48	73	98	123	148	173	198	223
E	25	50	45	70	90	90	90	90

A

STM Series Slide Bearing Cylinder

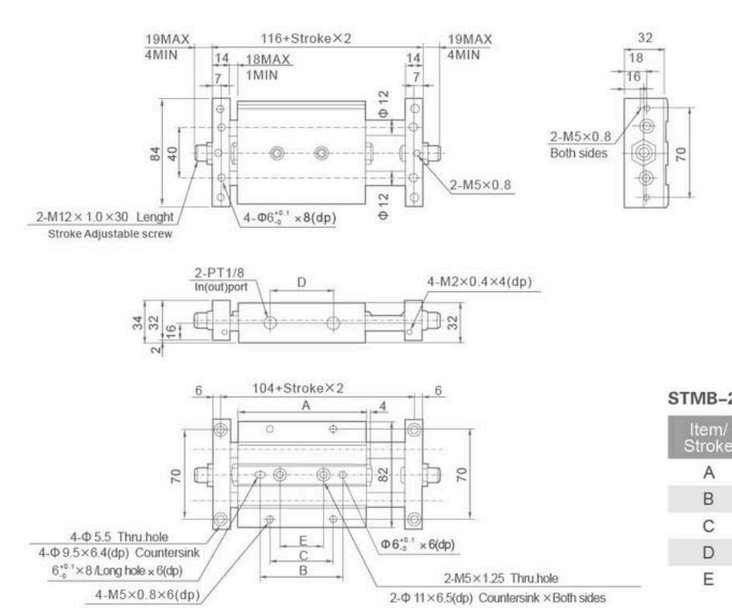
Overall Dimensions



STMB–20

Item/ Stroke	25	50	75	100	125	150	175	200	250
A	94	119	144	169	194	219	244	269	319
B	60	85	110	135	150	150	150	150	150
C	50	50	75	100	120	120	120	120	120
D	53	78	103	128	153	178	203	228	278
E	35	45	45	70	90	90	90	90	90

Overall Dimensions



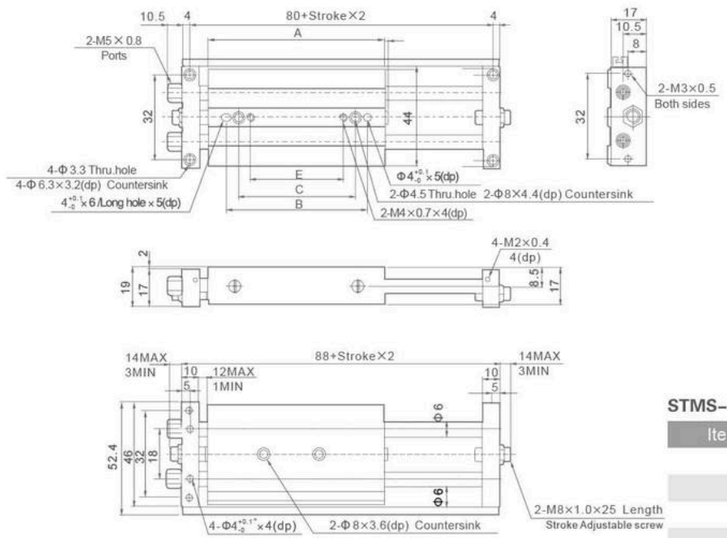
STMB–25

Item/ Stroke	25	50	75	100	125	150	175	200	250
A	101	126	151	176	201	226	251	276	326
B	65	90	115	140	140	140	140	140	140
C	50	50	75	100	100	100	100	100	100
D	50	75	100	125	150	175	200	225	175
E	35	45	45	70	95	100	100	100	100

A

STM Series Slide Bearing Cylinder

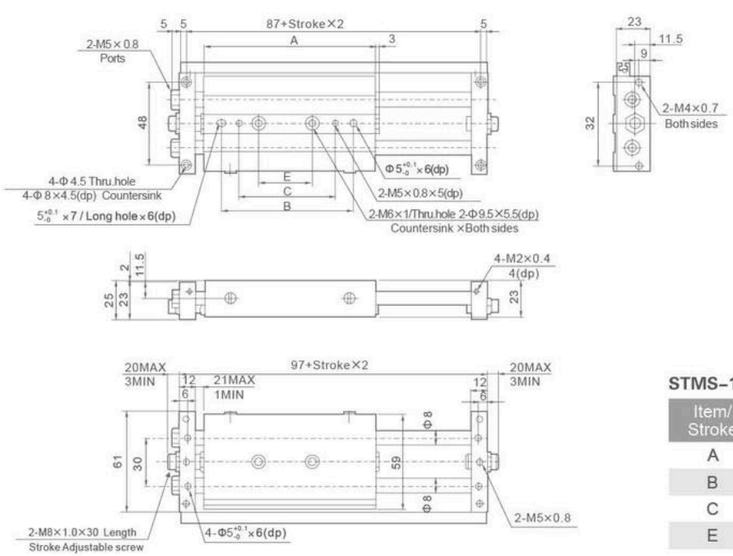
Overall Dimensions



STMS–10

Item/Stroke	25	50	75	100
A	81	106	131	156
B	65	85	85	85
C	35	60	60	121
E	15	40	40	40

Overall Dimensions

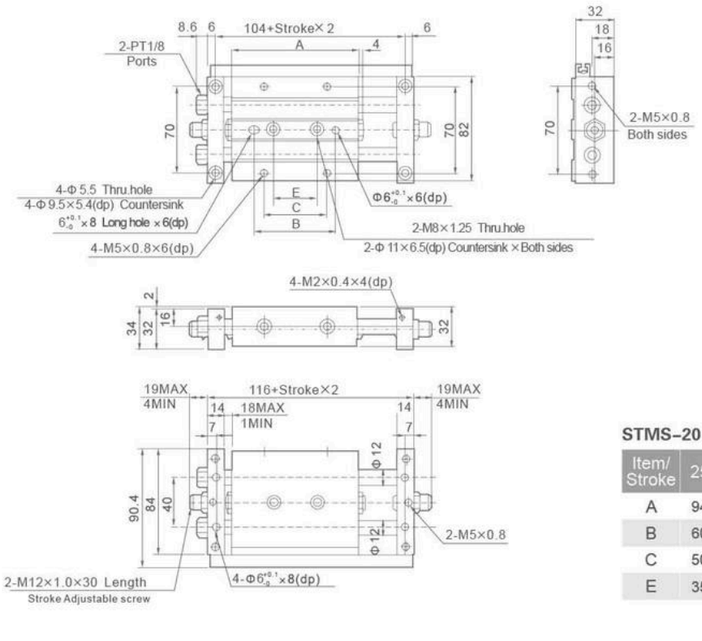


STMS–16

Item/Stroke	25	50	75	100	125	150	175	200
A	86	111	136	161	186	211	236	261
B	55	70	105	130	150	150	150	150
C	-	-	75	100	120	120	120	120
E	25	50	45	70	90	90	90	90

STM Series Slide Bearing Cylinder

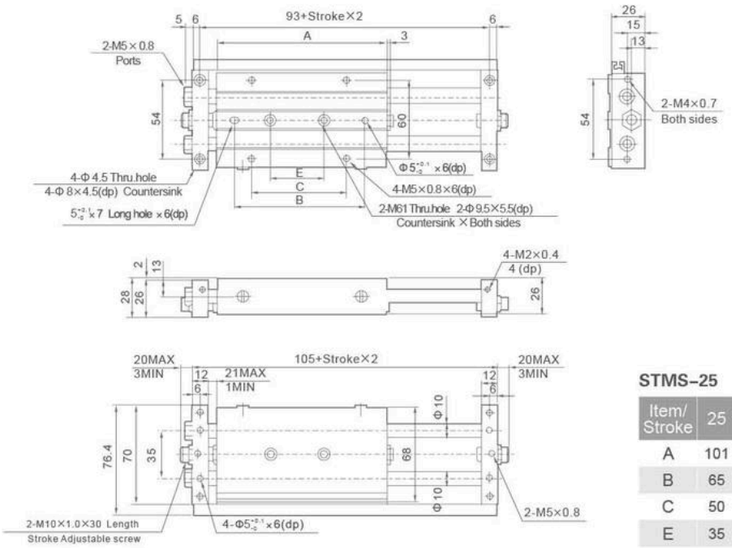
Overall Dimensions



STMS–20

Item/Stroke	25	50	75	100	125	150	175	200	250
A	94	119	144	169	194	219	244	269	319
B	60	85	110	135	150	150	150	150	150
C	50	50	75	100	120	120	120	120	120
E	35	45	45	70	90	90	90	90	90

Overall Dimensions



STMS–25

Item/Stroke	25	50	75	100	125	150	175	200	250
A	101	126	151	176	201	226	251	276	326
B	65	90	115	140	140	140	140	140	140
C	50	50	75	100	100	100	100	100	100
E	35	45	45	70	95	100	100	100	100

A

MGP Series Three-Shaft Cylinder



MGPM 20×30



MGPM 25×50

Ordering Code

MGP	M	25	×	40
Series Code MGP:Attach magnet Type	**Type of Bearing** M:Slide Bearing L:Ball Guide Bearing	**Cylinder Bore** 12mm-100mm		**Stroke** 10~200mm Note:Non-standard stroke like (5,10,15,20,35.....) we are add subplate of 5,10,15, 20mm on standard stroke.

Specifcation

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"		G3/8"	

Standard Stroke

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

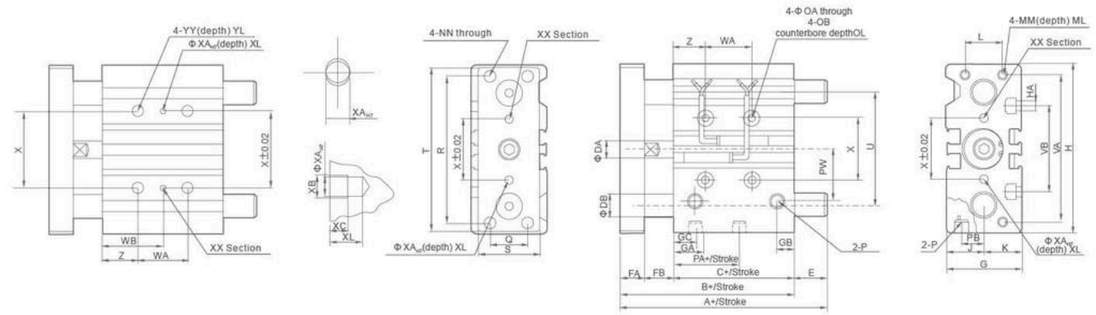
■ Note: MGP Series cylinder with 100mm Bore is Being Developed. Not Availoble At the moment.

A

MGP Series Three-Shaft Cylinder

Overall Dimensions

ϕ12~ϕ25



MGPM、MGPL Common Dimension Sheet

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	4.3
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	5.6
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

MGPG Slide bearing

Bore size	A			DB	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

MGPL Ball bushing bearing

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

MGPM Slide bearing

Bore size	A			DB	E		
	50st≥	50st< 200st≥	200st<		50st≥	50st< 200st≥	200st<
20	53	53	122	16	0	31.5	69
25	53.5	53.5	122	20	0	31.5	68.5

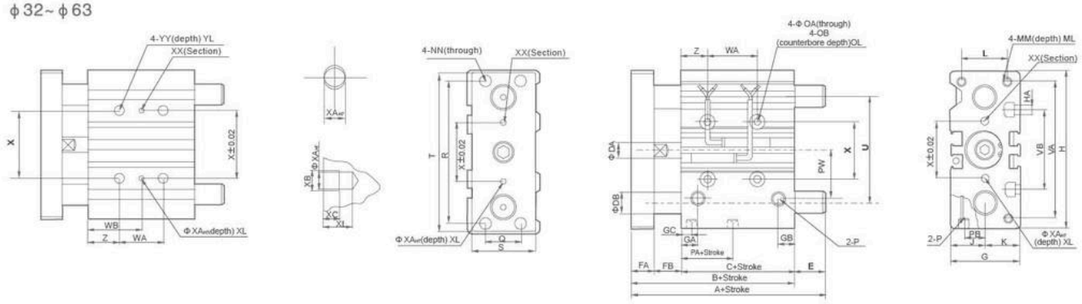
MGPL Ball bushing bearing

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

MGP Series Three-Shaft Cylinder

Overall Dimensions

ϕ32~ϕ63



MGPM、MGPL Common Dimensions Sheet

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

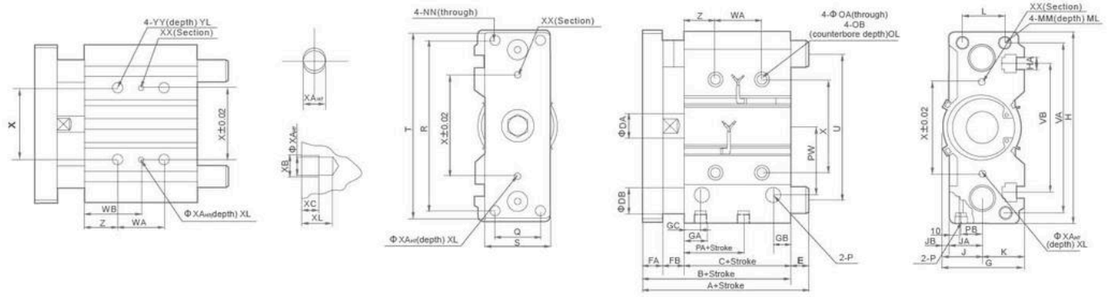
MGPL Ball bushing bearing

Bore size	A				DB	E			
	30st≥	30st<100st≥	100st<200st≥	200st<		30st≥	30st<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

MGP Series Three-Shaft Cylinder

Overall Dimensions

ϕ80~ϕ100



Dimension Sheet

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	YL	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			
	30st≥	30st<100st≥	100st<200st≥	200st<		30st≥	30st<100st≥	100st<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

A

RSQ Series Stopper Cylinder



RSQA 50 × 75R

Ordering Code

RSQ	□	□	20	×	15	—	S	□

Series Code
RSQ Series

Mounting Type
Blank:Though Hole (Standard)
A:Both Ends Tapped Style

Acting Type
Blank:Basic Type
B:Basic type (with spring)
SA:Single acting Spring extend

Cylinder Bore
20mm
32mm
40mm
50mm

Stroke

Magnet Code
Blank:Without Magnet
S:With Magnet

Rod end Type
Blank:Round bar type
K:Chamfored type
R:Roller type
L:Level roller type (with shock absorber)

Specifcation

Bore(mm)	20	32	40	50
Motion Pattern	Double acting,Double acting with spring loaded,Single acting(Spring extend)			
Fluid	Air			
Ensured Pressure Resistance	1.5Mpa(15.3kgf/cm^2)			
Max.pressure	1.0Mpa(10.2kgf/cm^2)			
Ambient and fluid temperature	-10~+70℃ With auto switch:No freezing +60℃			
Buffering	Rubber bumper			
Tolerance of stroke	+1.4(mm) 0			
*Lubrication	Not required			
Mounting	Through-hole,Both ends tapped common			
Port Size	RC(PT1/8)			

Model

Bore(mm)		20	32	40	50
Mounting	Through-hole	●	●	●	●
	Both ends tapped style	●	●	●	●
Built-in magnet		●	●	●	●
Piping	Screw-in type	Rc 1/8			
	Built-in One-touch fitings	Φ6/4	Φ8/6		
Action		Double acting Single acting(Single extend),Double acting with spring loaded			
Rod end configuration	Round bar	●	●		
	Chamfered	●	●		
	Roller type	●	●		
	Lever type	-	●		

Φ12 tubes can have both through-hole and tap mountings in the same tube.

Standard Stroke

Bore size(mm)	Rod end configuration		
	Round bar,Chamfered type	Roller type	Lever type with shock absorber
20	10,15,20	10,15,20	-
32			10,15,20
40	20,25,30	20,25,30	20,25,30
50			

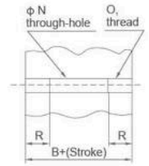
A

RSQ Series Stopper Cylinder

Overall Dimensions

Basic style:Through-hole mounting,Screw mounting
These 5 figures show the piston rod extended.

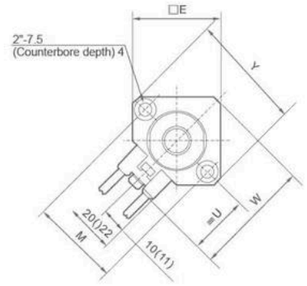
RSQA

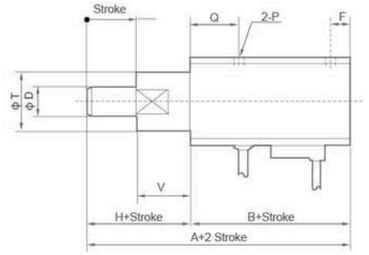


Screw mounting style:Both ends tapped style （mm）

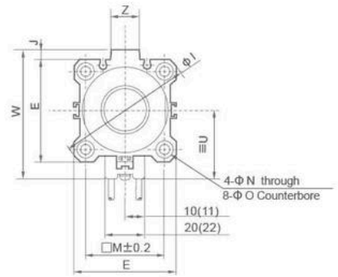
Model	B	N	Q1	R
RSQA20	45	5.5	M6×1	10
RSQA32	48	5.5	M6×1	10
RSQA40	52.5	5.5	M6×1	10
RSQA50	54	6.6	M8×1.25	14

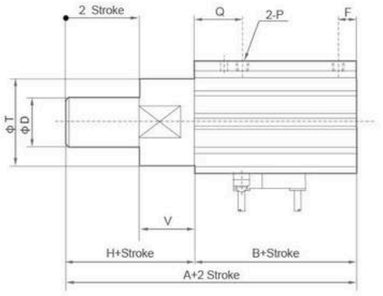
ϕ20





ϕ32~ϕ50





Dimension Sheet

Bore size (mm)	A	B	D	E	F	G	H	I	J	M	N	O Counerbore	P	Q	T	U	V	W	Y	Z
20	67	45	12	36	8	4	22	-	-	36	5.5	9 depth 7	Rc 1/8	20	24	24.5	22	48	47	-
32	68	48	20	45	7.5	8	20	60	4.5	34	5.5	9 depth 7	Rc 1/8	20	36	31.5	20	58.5	-	14
40	80.5	52.5	25	52	8	10	28	69	5	40	5.5	9 depth 7	Rc 1/8	24.5	44	35	28	66	-	14
50	82	54	25	64	8	10	28	86	7	50	6.6	11 depth 8	Rc 1/8	24.5	56	41	28	80	-	19

Note1)Dimensions without auto switch are the same as drawing above.
Note2)These figures show the dimensions when equipped with D-A 73 or D-A 80 auto switches.
Note3)These figures show the piston rod extened.

XCK Series Clamping Cylinder



XCKA 50×50-S-Y



XCKB 63×75-S-Y

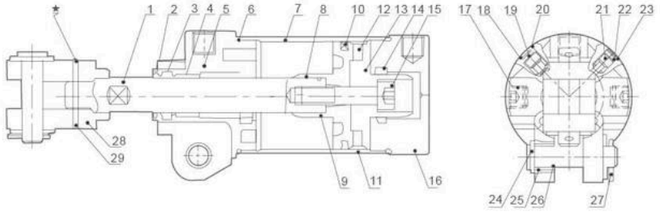
Welding equipment for automative use

1. Disassemble
2. Light weight and Compact
3. No Lubrication
4. Build-in speed control
5. No need dust cover
6. Can be used for welding equipment which used to generate the electromgnetice

Ordering Code

XCK	A	50	×	100	—	S	—	Y
Series Code	**Split Pin Type** A:A Type B:B Type (Only available for 40-63mm)	**Cylinder Bore** 40mm-80mm		**Stroke** 0-150mm		**Magnet Code** Blank:Without Magnet S:With Magnet HS:With Powerful Magnet		**Width of earring** Blank:No Accessary B: With Y Joint

Internal structure



NO	Designation	NO	Designation
1	Piston rod	16	Rear cover
2	Dust ring	17	Limit screw
3	Front cover O-ring	18	O-ring
4	Slide bush	19	Speed control screw
5	Front cover	20	External reainer ring
6	O-ring	21	Cushion control screw
7	Aluminum tube	22	O-ring
8	Piston	23	External retainer ring
9	Piston rod O-ring	24	Gasket
10	Piston O-ring	25	Brass bush
11	Wear ring	26	PIN
12	Magnet	27	Split pin
13	Magnet base	28	Y
14	Cushion O-ring	29	Spring pin
15	Hexagon screw		

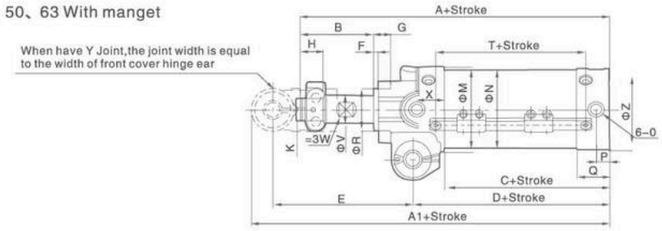
Specifcation

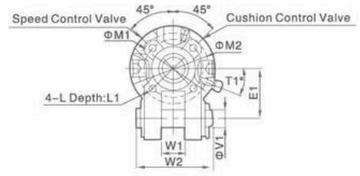
Bore(mm)	40	50	63	80
Working Medium	Air			
Ensured Pressure Resistance	1.5Mpa(15kgf/cm²)			
Max.Working pressure	1.0Mpa(10kgf/cm²)			
Min.Working pressure	0.1Mpa(1kgf/cm²)			
Temperature Range	-5~60℃			
Piston Speed	50~500mm/s			
Air Buffer	Yes			
Lubrication	No Need			
Thread Tolerance	6H			
Stroke Tolerance	$^{+1.5}_{0}$ (mm)			
Speed Controller	Yes			
Mounting Type	Double Ear Ring			
Rc(PT)Port size	1/4"		3/8"	

XCK Series Clamping Cylinder

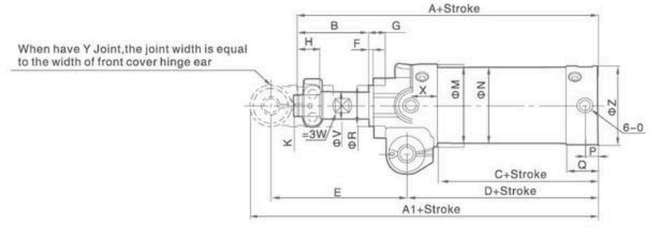
Overall Dimensions

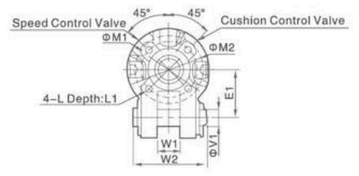
Φ40、50、63 With manget





Φ40、50、63

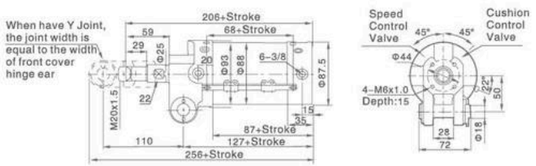




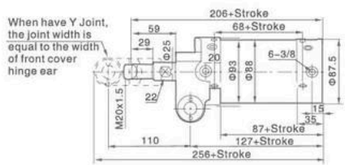
Dimension Sheet

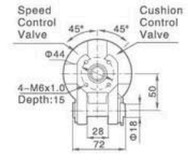
Bore size	A	A1	B	C	D	E	E1	F	G	H	K	L	L1	M	M1	M2	N	O	P	Q	R	V	V1	W	W1 XCKA	W1 XCKB	W2	X	Z	T	T1
40	162	196	51	59	84	97	35	3	11.5	16	M16x1.5	M6x1	13	52	40	50	45	1/4	9	21	30	20	12	17	16.5	19.5	54	20	47	54	24
50	165	199	51	65	87	97	35	3	11.5	16	M16x1.5	M6x1	12	60	40	50	55	1/4	9.5	23	30	20	12	17	16.5	19.5	54	19	57	54	22
63	167	201	51	67	87	97	35	3	11.5	16	M16x1.5	M6x1	12	74	40	50	68	1/4	9.5	23	30	20	12	17	16.5	19.5	54	19	70	54	22

Φ80 With manget



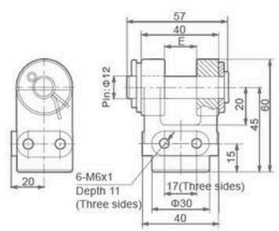
Φ80





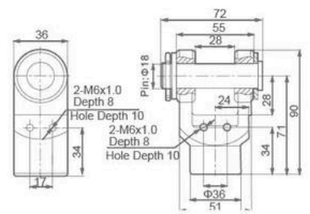
Y Joint Overall Dimensions and Ordering Code

Φ40、50、63



Model	Fit for Bore Size	E
XCKA50-Y	40、50、63	16.5
XCKB50-Y	40、50、63	16.5

Φ80



A

MSQ Series Rotary Table,Rack & Pinion Cylinder



MSQB 20-A



MSQB 30-A

Ordering Code

MSQ	B	×	10	—	A	—	S
Series Code	Basic Type B:Basic Type A:High Precision Type		Size Code 10mm~200mm		Type A:With Adjustable Angle Screw R:With Shock Absorber		AlWays With Magnet

Specifcation

Bore(mm)		10	20	30	50	70	100	200
Fluid		Air(non-lube)						
Max. pressure	With adjustment bole	1Mpa(10.2kgf/cm^2)						
	R:With Shock Absorber	0.6 MPa (6.1kgf/cm^2)/Note						
Min. pressure	Basic type	0.1 Mpa(1.0kgf/cm^2)						
	High precision type	0.2 Mpa			0.1 Mpa		-	
Ambient and fluid temperature		0~60℃ (No freezing)						
Cushion	With adjustment bole	Rubber bumper						
	R:With Shock Absorber	Shock absorber						
Angle adjustment range		0~190°						
Maximum rotation		190°						
Piston bore		Φ15	Φ18	Φ21	Φ25	Φ28	Φ32	Φ40
Port size	End ports	M5×0.8			RC1/8"			
	Side ports	M5×0.8						

■ Note:The maximum operating pressure of the actuator is restricted by the maximun allowable thrust of the shock absorber.

Allowable Kinectic Energy and Rotation Time Adjustment Range

Bore Size(mm)	Allowable Kinectic Energy(mJ)		Rotation Time Adjustment Range For Stable Operation(S/90°)	
	With adjustment bolt	With internal shock absorber	With adjustment bolt	With internal shock absorber(note)
10	7	39	0.2 to 1.0	0.2 to 0.7
20	25	116		
30	48	116		
50	81	294		
70	240	1100	0.2 to 1.5	0.2 to 1.0
100	320	1600	0.2 to 2.0	
200	560	2900	0.2 to 2.5	

■ Note:Be careful if a type with internal absorber is used below the minimum speed,the energy absorption ability will decrease drastiacally.

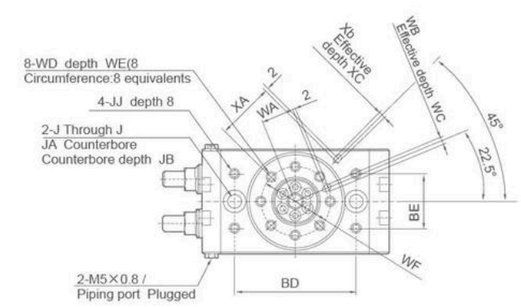
A

MSQ Series Rotary Table,Rack & Pinion Cylinder

Overall Dimensions

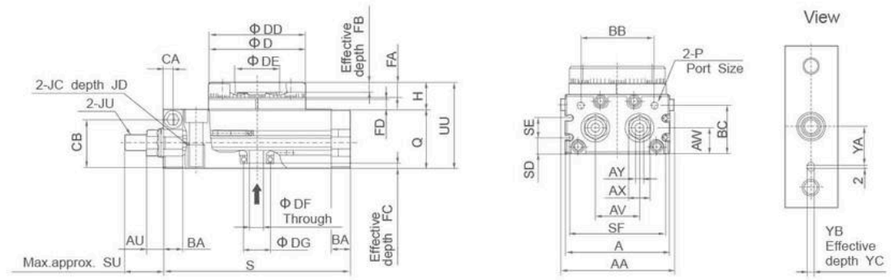
Basic style:MAQB□A

ϕ10, ϕ20, ϕ30, ϕ50



Bore Size (mm)	FU
10	31.5
20	34.7
30	34.7
50	51.7

With internal shock absorber MAQB□R



Dimension Sheet

Bore size(mm)	AA	A	AU	AV	AW	AX	AY	BA	BB	BC	BD	BE	CA	CB	D	DD	DE	DF
10	55.4	50	8.6	20	15.5	12	4	9.5	34.5	27.8	60	27	4.5	28.5	46h9	46h9	20H9	5
20	70.8	65	10.6	27.5	16	14	5	12	46	30	67	34	6	30.5	60h9	61h9	28H9	9
30	75.4	70	10.6	29	18.5	14	5	12	50	32	84	37	6.5	33.5	65h9	67h9	32H9	9
50	85.4	80	14	38	22	19	6	15.5	63	37.5	100	50	10	37.5	75h9	77h9	35H9	10

Bore size(mm)	DG	FA	FB	FC	FD	H	J	JA	JB	JC	JD	JJ	JU	P
10	15H9	8	4	3	4.5	13	6.8	11	6.6	M8×1.25	12	M5×0.8	M8×1	M5×0.8
20	17H9	10	6	2.5	6.5	17	8.6	14	8.5	M10×1.5	15	M6×1	M10×1	M5×0.8
30	22H9	10	4.5	3	6.5	17	8.6	14	8.5	M10×1.5	15	M6×1	M10×1	Rc 1/8
50	26H9	12	5	3	7.5	20	10.5	18	10.5	M12×1.75	18	M8×1.25	M14×1.5	Rc 1/8

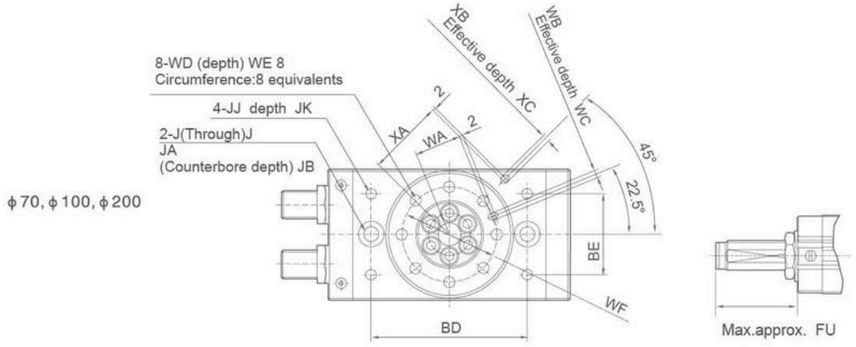
Bore size(mm)	Q	S	SD	SE	SF	SU	UU	WA	WB	WC	WD	WE	WF	XA	XB	XC	YA	YB	YC
10	34	92	9	13	45	17.7	47	15	3H9	3.5	M5×0.8	8	32	27	3H9	3.5	19	3H9	3.5
20	37	117	10	12	60	25	54	20.5	4H9	4.5	M6×1	10	43	36	4H9	4.5	24	4H9	4.5
30	40	127	11.5	14	65	25	57	23	4H9	4.5	M6×1	10	48	39	4H9	4.5	28	4H9	4.5
50	46	152	14.5	15	75	31.4	66	26.5	5H9	5.5	M8×1.25	12	55	45	5H9	5.5	33	5H9	5.5

A

MSQ Series Rotary Table,Rack & Pinion Cylinder

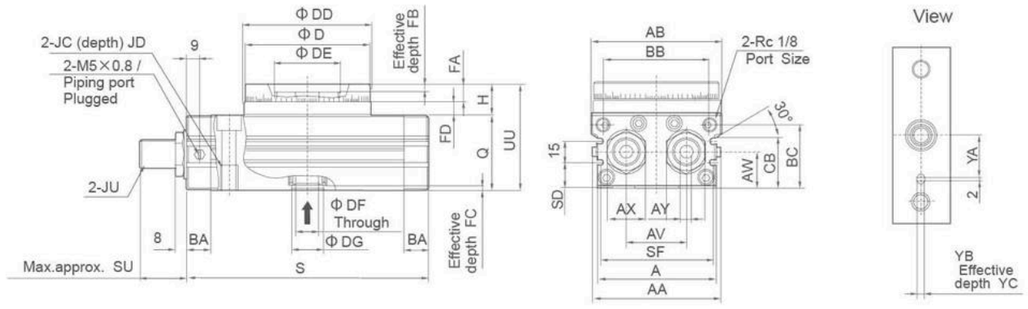
Overall Dimensions

Basic style:MAQB□A



Bore Size (mm)	FU
70	55.4
100	55.5
200	74.7

With shock absorber MAQB□R



Dimension Sheet

Bore size(mm)	AA	AB	A	AV	AW	AX	AY	BA	BB	BC	BD	BE	CB	D	DD	DE
70	90	92	84	42	25.5	27	8	17	75	44.5	110	57	36	88h9	90h9	46H9
100	101	102	95	50	29.5	27	8	17	85	50.5	130	66	42	98h9	100h9	56H9
200	119	120	113	60	36.5	36	10	24	103	65.5	150	80	57	116h9	118h9	64H9

Bore size(mm)	DF	DG	FA	FB	FC	FD	H	J	JA	JB	JC	JD	JJ	JK	JU
70	16	22H9	12.5	5	3.5	6	22	10.4	17.5	10.5	M12×1.75	18	M8×1.25	10	M20×1.5
100	19	24H9	14.5	6	3.5	12	27	10.4	17.5	10.5	M12×1.75	18	M8×1.25	10	M20×1.5
200	24	32H9	16.5	9	5.5	15	32	14.2	20	12.5	M16×2	25	M12×1.75	13	M27×1.5

Bore size(mm)	Q	S	SD	SF	SU	UU	WA	WB	WC	WD	WE	WF	XA	XB	XC	YA	YB	YC
70	53	170	18	79	34.2	75	32.5	5H9	5.5	M8×1.25	12.5	67	54	5H9	3.5	39	5H9	3.5
100	59	189	22	90	34.3	86	37.5	6H9	6.5	M10×1.55	14.5	77	59	6H9	4.5	49	6H9	4.5
200	74	240	29	108	40.2	106	44	8H9	8.5	M12×1.75	16.5	90	69	8H9	4.5	54	8H9	6.5

CRQ2 Series Rotary Actuator (Pin Type)



CRQ2BS20-180

Ordering Code

CRQ2B	S	20	□	—	90	□
Series Code	Shaft Type	Cylinder Bore	Port Type		Rotating Angle	Cushion
CRQ2B: Normal Type CDRQ2B: Attach Magnet Type	S: Single Shaft D: Double Shaft	10mm-40mm	Blank: M5X0.8 (Φ10, Φ15) Blank: Rc1/8 (Φ20-Φ40) G: G1/8 (Φ20-Φ40) N: NPT1/8 (Φ20-Φ40) NF: NPTF1/8 (Φ20-Φ40)		90: 80°-100° 180: 170°-190°	Blank: Without (Φ20-Φ40) Blank: Rubber (Φ10,Φ15) C: Air Cushion (Φ20-Φ40)

Specifcation

Bore(mm)		10	15	20	30	40
Working Medium		Air(to be filtered bu 40μm filter element)				
Action Type		Double-acting				
Operating Pressure Range(Mpa)		0.15~0.7		0.1~1.0		
Environment and Fliud Temperature		0~60℃				
Cushion Type		Rubber cushion		None/air cushion(optional)		
Rotating Angle		80°~100°, 170°~190°				
Adjustable Angle Range		±5°				
Output Torque N		0.3	0.75	1.8	3.1	5.3
Allowable Kinetic Energy	No Cushion	-	-	0.025	0.048	0.081
	Rubber Cushion	0.25×10^3	0.39×10^3	-	-	-
	Air Cushion	-	-	0.12	0.25	0.40
Rotating Time Range(Sec/90°)		0.2~0.7		0.2~1.0		

CRA1 Series Rotary Actuator(Rack &pinion type)



CDRA1BS30-90

Ordering Code

CRA1	B	W	□	50	—	90	□
Series Code	Mounting Type	Shaft Type	Type	Cylinder Bore		Rotation Angle	Cushion
CRA1: Normal Type CDRA1: Attach Magnet Type	B: Basic Type L: Foot Type F: Flange Type (Not available for Φ30)	S: Single Shaft(Not available for Φ30) W: Double Shaft (Customized available)	Blank: Pneumatic H: Air-hydro(Not available for Φ30)	30mm-100mm		90: 90° 180: 180° (100° and 190° available)	Blank: Without C: Air Cushion (Not available for Φ30)

Specifcation

Bore(mm)		30	50	63	80	100
Working Medium		Air(to be filtered by 40μm filter element)				
Action Type		Double-acting				
Max.operating Pressure		1.0MPa				
Min.operating Pressure		0.1MPa				
Environment and Fluid Temperature		0~60℃ (No frezzing)				
Backlash		Within 1°(For Φ30, no backlash due to the installed stopper under pressure)				
Tolerance in Rotating Angle		+4° 0				
Lubrication		Not required(Not-lube)				
Output Torque(N·m)		1.9	9.3	17	32	74
Allowable Kinetic Energy	No Air Cushion	0.01	0.05	0.12	0.16	0.54
	Air Cushion	-	0.98	1.2	2.0	2.9
Rotation Time Range(Sec/90°)		0.2~1	0.2~2	0.2~3	0.2~4	0.2~5
Port Size Rc		M5×0.8	Rc1/8	Rc1/8	Rc1/4	Rc3/8

A

XHZ Series Style Air Gripper



XHZ2-25D

Ordering Code

XHZ — 2 — 16 — D — 1

Model
XHZ:Parallel fingers
XHZL:Long stroke finger

Finger Quantity
2PCS

Bore Size
6mm~40mm

Action Type
D:Double Action
S:Single Action (Normally open)
C:Single-Action (Normally closed)

Claw Form
Blank: Standard Basic Type
1: Side screw installation
2: Opening and closing direction through-hole installation
N:Narrow basic type
N1:Side screw hole installation
N2:Opening and closing direction through hole installation

Graphic Symbol



Double-acting·internal grip | Double-acting·External grip | Single acting normally closed·Internal grip | Single acting normally closed·External grip

Specifcation

Bore(mm)		6	10	16	20	25	32	40
Working Medium		Air (to be filtered by 40 μm filter element)						
Operating pressure	Double-action	0.15~0.7	0.2~0.7	0.1~0.7			0.1~0.7	
	Single-action	0.3~0.7	0.35~0.7	0.25~0.7			0.25~0.7	
Ambient fluid temperature		-10~60℃						
Repeatability(mm)		±0.01					±0.02	
The highest frequency of use		180(XHZL Series 120)(c.p.m)					60(c.p.m)	
Lubrication		Not required						
Action type		Double acting·Single acting						
Auto switch(optional)		Solid state auto switch						
Port size		M3×0.5		M5×0.8				

Gripping force

Model	Gripping force N RMS each finger gripping force				Opening/Closing (Both sides)mm
	Double-acting		Single acting	Single acting	
	External	Internal	External	Internal	
XHZ-6□	3.3	6.1	1.9	3.7	4
XHZ-10□	11	17	7.1	13	4
XHZ-16□	34	45	27	38	6
XHZ-20□	42	66	33	57	10
XHZ-25□	65	104	45	83	14
XHZ-32□	158	193	131	161	22
XHZ-40□	254	318	217	267	30

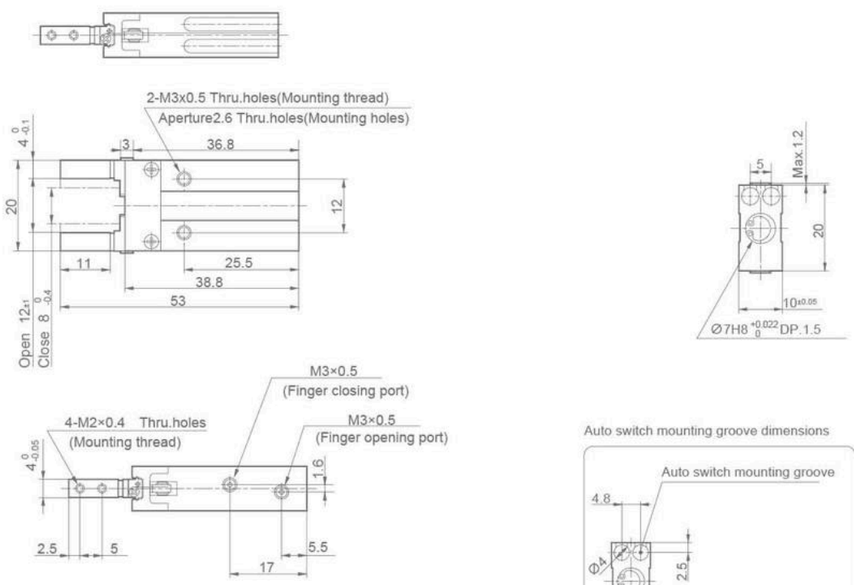
Model	Gripping force N RMS each finger gripping force				Opening/ Closing (Both sides)mm
	Double-acting		Single acting	Single acting	
	External	Internal	External	Internal	
XHZL-10□	11	17	7.1	13	8
XHZL-16□	34	45	27	38	12
XHZL-20□	42	66	33	57	18
XHZL-25□	65	104	50	85	22

□ =Express D=Double-acting S=Single acting(normally closed) C=Single acting(normally open)

XHZ Series Style Air Gripper

Overall Dimensions

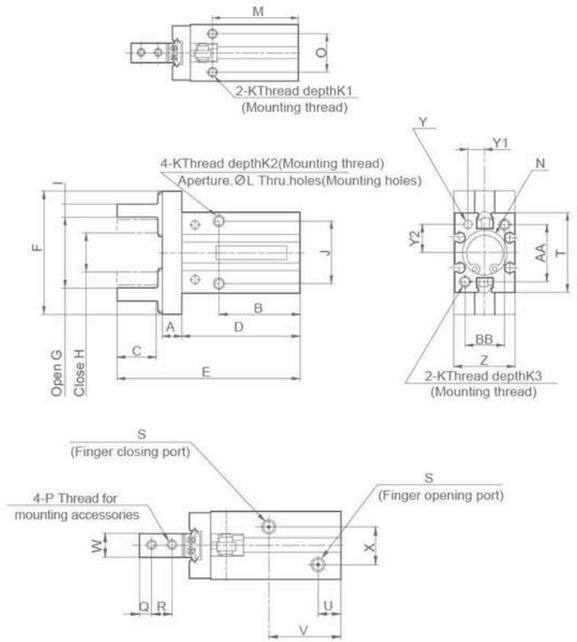
XHZ-6 □ (Φ6)
Double acting
Single acting



For single acting, the port on one side will turn into breathing hole.

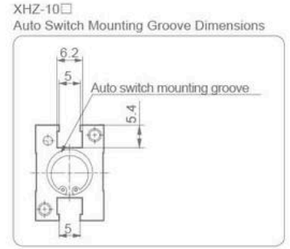
Auto switch mounting groove dimensions

XHZ-□□ (Φ10~Φ40)
Double acting
Single acting



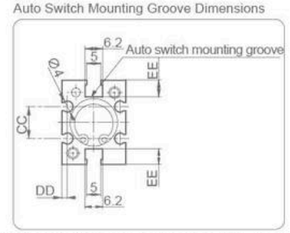
For single acting, the port on one side will turn into breathing hole.

XHZ-10□
Auto Switch Mounting Groove Dimensions



Note) Through-hole mounting is not possible when using the auti switch at the square groove.

XHZ-□□
Auto Switch Mounting Groove Dimensions



Note) Through-hole mounting is not possible when using the auti switch at the square groove.

A

XHZ Series Style Air Gripper

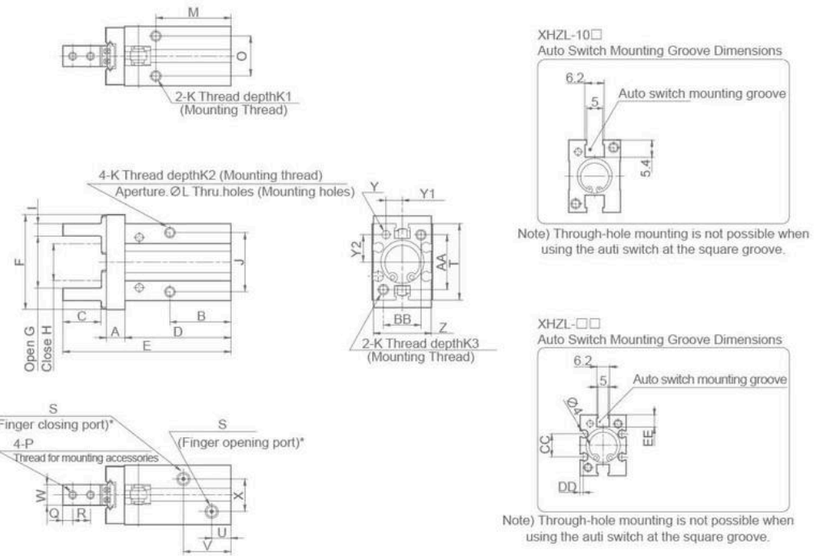
Dimension Sheet

Bore(mm)	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ΦL	M	N	O	P	Q
10	6	23	12	37.8	57	29	$15.2^{+2.2}_{0}$	$11.2^{0}_{-0.7}$	$4^{0}_{-0.1}$	16	M3×0.5	6	5.5	6	2.6	27	$\Phi11H9^{+0.043}_{0}$ Dp:2	11.4	M2.5×0.45	3
16	7.5	24.5	15	42.5	67.3	38	$20.9^{+2.2}_{0.2}$	$14.9^{0}_{-0.7}$	$5^{0}_{-0.1}$	24	M4×0.7	4.5	8	8	3.4	30	$\Phi17H9^{+0.043}_{0}$ Dp:2	16	M3×0.5	4
20	9.5	29	20	52.8	84.8	50	$26.3^{+2.2}_{0.2}$	$16.3^{0}_{-0.7}$	$8^{0}_{-0.1}$	30	M5×0.8	8	10	10	4.3	35	$\Phi21H9^{+0.052}_{0}$ Dp:3	18.6	M4×0.7	5
25	11	30	25	63.6	102.7	63	$33.3^{+2.5}_{0.2}$	$19.3^{0}_{-0.8}$	$10^{0}_{-0.1}$	36	M6×1	10	12	12	5.1	36.5	$\Phi26H9^{+0.052}_{0}$ Dp:3.5	22	M5×0.8	6
32	12	40(49)	29	67(76)	113(122)	97	$48^{+2.5}_{0}$	$26^{0}_{-0.5}$	$12^{0}_{-0.1}$	46	M6×1	10	13	13	5.1	48(57)	$\Phi34H9^{+0.062}_{0}$ Dp:4	26	M6×1	7
40	15	49(62)	36	83(96)	139(152)	119	$60^{+2.7}_{0}$	$30^{0}_{-0.5}$	$14^{0}_{-0.1}$	56	M8×1.25	13	16	17	6.6	58(71)	$\Phi42H9^{+0.062}_{0}$ Dp:4	32	M8×1.25	9

Bore(mm)	R	S	T	U	V	W	X	Y	Z	Y1	Y2	AA	BB	CC	DD	EE
10	5.7	M3×0.5	23	9	19	$5^{0}_{-0.05}$	11	$\Phi2H9^{+0.025}_{0}$ Dp:3	16.4±0.05	5.2±0.02	7.6±0.02	18	12	-	-	-
16	7	M5×0.8	30.6	7.5	19	$8^{0}_{-0.05}$	13	$\Phi3H9^{+0.025}_{0}$ Dp:3	23.6±0.05	6.5±0.02	11±0.02	22	15	11.6	2.1	5.8
20	9	M5×0.8	42	10	23	$10^{0}_{-0.05}$	15	$\Phi4H9^{+0.03}_{0}$ Dp:4	27.6±0.05	7.5±0.02	16.8±0.02	32	18	14	2.1	9
25	12	M5×0.8	52	10.7	23.5	$12^{0}_{-0.05}$	20	$\Phi4H9^{+0.03}_{0}$ Dp:4	33.6±0.05	10±0.02	21.8±0.02	40	22	19	3.5	11.5
32	14	M5×0.8	60	11	31(37)	$15^{0}_{-0.05}$	24	$\Phi5H9^{+0.03}_{0}$ Dp:5	40±0.1	12±0.02	23±0.02	46	26	24	3.3	11.5
40	17	M5×0.8	72	12	38(45)	$18^{0}_{-0.05}$	28	$\Phi5H9^{+0.03}_{0}$ Dp:5	48±0.1	14±0.02	29±0.02	56	32	29.4	3.7	13

Overall Dimensions

XHZL-□□(Φ10~Φ25)
Double acting
Single acting



XHZL-10□
Auto Switch Mounting Groove Dimensions

Note) Through-hole mounting is not possible when using the auti switch at the square groove.

XHZL-□□
Auto Switch Mounting Groove Dimensions

Note) Through-hole mounting is not possible when using the auti switch at the square groove.

Dimension Sheet

Bore(mm)	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ΦL	M	N	O	P	Q
10	6	25(35)	12	37.8(47.8)	57(67)	35	$19.2^{+2.2}_{0}$	$11.2^{0}_{-0.7}$	$4^{0}_{-0.1}$	16	M3×0.5	6	5.5	6	2.6	29(39)	$\Phi11H9^{+0.043}_{0}$ Dp:2	11.4	M2.5×0.45	3
16	7.5	31(36)	15	45.2(50.2)	70(75)	47	$26.9^{+2.2}_{0.2}$	$14.9^{0}_{-0.7}$	$5^{0}_{-0.1}$	24	M4×0.7	4.5	8	8	3.4	36(41)	$\Phi17H9^{+0.043}_{0}$ Dp:2	16	M3×0.5	4
20	9.5	36(42)	20	58(64)	90(96)	62	$34.3^{+2.2}_{0.2}$	$16.3^{0}_{-0.7}$	$8^{0}_{-0.1}$	30	M5×0.8	8	10	10	4.3	43(49)	$\Phi21H9^{+0.052}_{0}$ Dp:3	18.6	M4×0.7	5
25	11	40(50)	25	66.9(76.9)	106(116)	75	$41.3^{+2.5}_{0.2}$	$19.3^{0}_{-0.8}$	$10^{0}_{-0.1}$	36	M6×1	10	12	12	5.1	48(58)	$\Phi26H9^{+0.052}_{0}$ Dp:3.5	22	M5×0.8	6

Bore(mm)	R	S	T	U	V	W	X	Y	Z	Y1	Y2	AA	BB	CC	DD	EE
10	5.7	M3×0.5	23	8	21(31)	$5^{0}_{-0.05}$	11	$\Phi2H9^{+0.025}_{0}$ Dp:3	16.4±0.05	5.2±0.02	7.6±0.02	18	12	-	-	-
16	7	M5×0.8	30.6	8	25(30)	$8^{0}_{-0.05}$	13	$\Phi3H9^{+0.025}_{0}$ Dp:3	23.6±0.05	6.5±0.02	11±0.02	22	15	11.6	2.1	5.8
20	9	M5×0.8	42	10	30(36)	$10^{0}_{-0.05}$	15	$\Phi4H9^{+0.03}_{0}$ Dp:4	27.6±0.05	7.5±0.02	16.8±0.02	32	18	14	2.1	9
25	12	M5×0.8	52	10	33(43)	$12^{0}_{-0.05}$	20	$\Phi4H9^{+0.03}_{0}$ Dp:4	33.6±0.05	10±0.02	21.8±0.02	40	22	19	3.5	11.5

XHY Series Style Air Gripper



XHY2-25D

Ordering Code

XHY — 2 — 16 — D — 2

Series Code
XHY:180° open and close your fingers

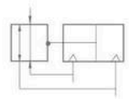
Finger Quantity
2PCS

Bore size
10mm~25mm

Action Type
D:Double Action

Claw form
Blank:Standard thread installation
2:Opening and closing direction through-hole installation

Graphic Symbol



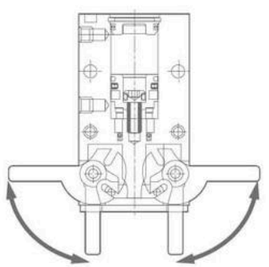
- Auto switch is attachable.
- 180°Retractable simplify pick and place operation.
- May be suitable for use under special circumstances,the finger opening and closing part specifically designed to prevent small items from entering.
- Easy to install, with positioning holes.

Specifcation

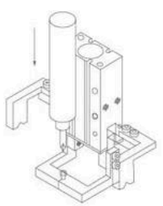
Bore(mm)	10	16	20	25
Working Medium	Air(to be filtered by 40μm filter element)			
Action Type	Double-acting			
Max.operating Pressure(Mpa)	0.6			
Min.operating Pressure(Mpa)	0.1			
Ambient Fluid Temperature	-10~+60℃			
Max.operating Frequency	60c.p.m			
Repeatability(Mm)	±0.2mm			
Holding Torque N·m Note1)	0.16	0.54	1.10	2.28
Lubrication Note2)	Not required			
Port Size	M5×0.8			

Note 1) At the pressure of 0.5 Mpa
Note 2)If you need lubrication,use turbine No.1 oil ISO VG32.

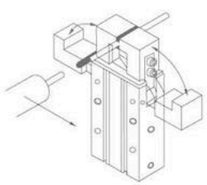
Chart



Function Example



Fixing screws

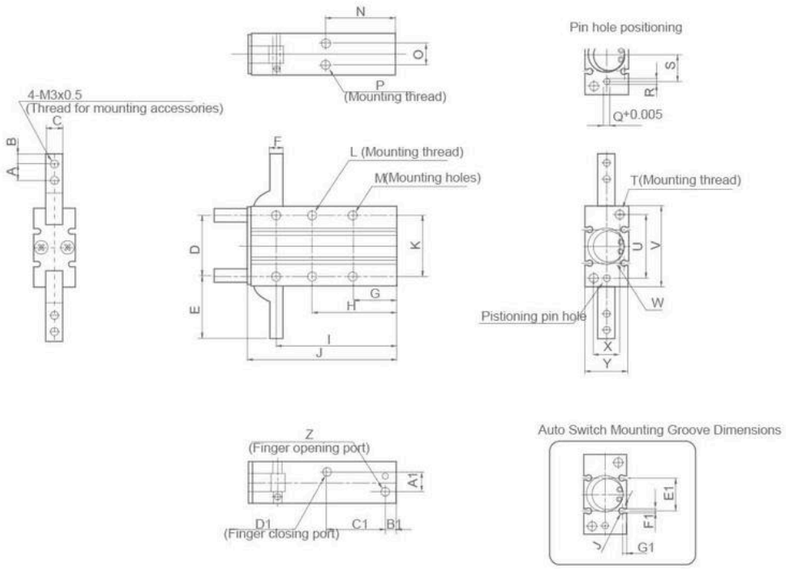


Clamping wire

A

XHY Series Style Air Gripper

Overall Dimensions



Dimension Sheet

Bore(mm)	A	B	C	D	E	F	G	H
10	6	3	$6^{-0.05}_{-0.025}$	22	23.5	4	18	35
16	7	4	$8^{-0.05}_{-0.025}$	28	28.5	10	20	41
20	9	5	$10^{-0.05}_{-0.025}$	36	37	8	25	50
25	12	6	$12^{-0.05}_{-0.025}$	45	45	10	30	60

Bore(mm)	I	J	K	L	M	N	O	P
10	47.5	58	24	4-M3x0.5/Thread dep 6	2-Φ3.4	30	19	2-M3x0.5/Thread dep 6
16	55.5	69	30	4-M3x0.7/Thread dep 8	2-Φ4.5	33	12	2-M4x0.7/Thread dep 5
20	69	86	36	4-M5x0.8/Thread dep 10	2-Φ5.5	42	14	2-M5x0.8/Thread dep 10
25	86	107	30	4-M6x1/Thread dep 12	2-Φ6.6	52	12	2-M6x1/Thread dep 10

Bore(mm)	Q	R	S	T	U	V	W	X
10	$3H9^{+0.05}_{0}$	4	9	2-M3x0.5/Thread dep 6	24	30	$Φ11h9^{+0.043}_{0}$	9
16	$3H9^{+0.025}_{0}$	4	19	2-M3x0.7/Thread dep 8	30	38	$Φ17h9^{+0.043}_{0}$	12
20	$4h9^{+0.030}_{0}$	5	19	2-M5x0.8/Thread dep 10	38	48	$Φ21h9^{+0.052}_{0}$	16
25	$4h9^{+0.052}_{0}$	5	23	2-M6x1/Thread dep 12	46	58	$Φ26h9^{+0.052}_{0}$	18

Bore(mm)	Y	Z	A1	B1	C1	D1	E1	F1	G1
10	15	M5x0.8	3	7	23	M5x0.8	13	3	2
16	20	M5x0.8	8	7	25	M5x0.8	18	3	2.5
20	26	M5x0.8	12	8	32	M5x0.8	20	3	3
25	30	M5x0.8	14	8	42	M5x0.8	24	3	3

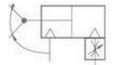
XHC Series Style Air Gripper



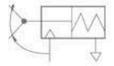
XHC2-25D

Graphic Symbol

Double Action



Single Action



Ordering Code

XHC	2	—	16	D
Series Code	Finger Quantity		Bore Size	Action Type
XHC:fulcrum opening and closing fingers	2PCS		10mm~25mm	D:Double Action S:Single Action

Specifcation

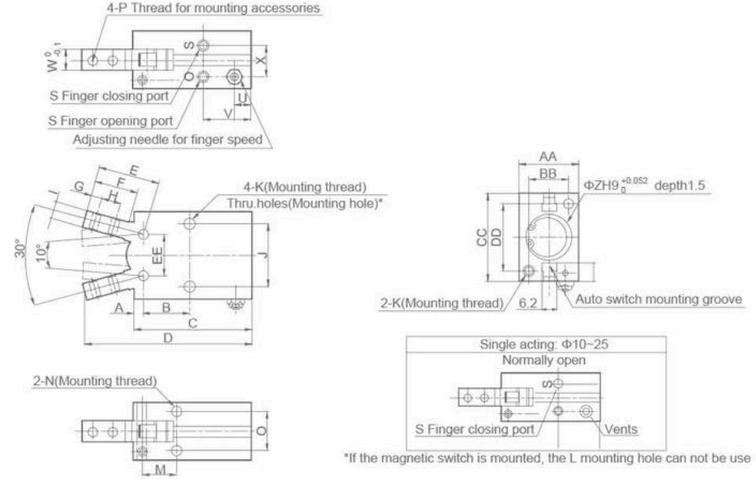
Bore(mm)		10	16	20	25
Working Medium		Air(to be filtered by 40μm filter element)			
Operating pressure MPa	Double-acting	0.25~0.6MPa			
	Single acting	0.1~0.6MPa			
Ambient fluid temperature		-10~60℃			
The highest frequency of use(c.p.m)		180c.p.m			
Repeatability Precision(mm)		±0.01			
Lubrication		Not required			
Port Size		M3×0.5		M5×0.8	

Holding torque

Action	Model	Bore size	Gripping momeng	Opening/Closing angle (Both sides)
Double-acting	XHC -10D -16D -20D -25D	10	0.1	30°~-10°
		16	0.39	
		20	0.70	
		25	1.36	
Single acting	XHC -10S -16S -20D -25D	10	0.07	30°~-10°
		16	0.31	
		20	0.54	
		25	1.08	

Overall Dimensions

Double acting



*If the magnetic switch is mounted, the L mounting hole can not be use

Dimension Sheet

Bore (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Port size S	Port size T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE
10	2.8	12.8	38.6	52.4	17.2	12	3	5.7	4	16	M3×0.5 Dp.5	2.6	8.8	M3×0.5 Dp.6	11.4	M2.5×0.45	M3×0.25		7.2	18.8	6.4	10.4	5.4	11	16.4	12	23	18	10
16	3.9	16.2	44.6	62.5	22.6	16	4	7	7	24	M4×0.7 Dp.8	3.4	10.7	M4×0.7 Dp.8	16	M3×0.5	M5×0.8		7	18.3	8	13	5.8	17	23.6	15	30.6	22	16
20	4.5	21.7	55.2	78.7	28	20	5.2	9	8	30	M5×0.8 Dp.10	4.3	15.7	M5×0.7 Dp.8	18.6	M4×0.7	M5×0.8		7.5	22.2	10	15	9	21	27.6	18	42	32	20
25	4.6	25.8	60.2	92	37.5	27	8	12	10	36	M6 Dp.12	5.1	19.3	M6 Dp.10	22	M5 Dp.0.8	M5×0.8		7.7	23.5	12	20	11.5	26	33.6	22	52	40	25

A

XHT Series Angle Style Air Gripper (ToggleType)



XHT2-32D

Ordering Code

XHT	2	—	32	D
Series Code	Finger Quantity		Cylinder Bore	Action Type
XHT:Toggle Type Air Gripper	2PCS		32mm~63mm	D: Double Action

Specifcation

Bore(mm)	32	40	50	63
Motion Pattern	Double acting			
Fluid	Air			
Operating Voltage Range	0.1~0.6 MPa			
Ambient and fluid temperature	5~60℃			
Lubrication	Not required			
Finger opening angle (Total)	-3°~28°	-3°~27°	-2°~23°	-2°~23°
Effective gripping force (N-m) at 0.5 Mpa	12.4	36.0	63.0	106

Magnetism Switch Model

Bore Size	Track Mouth	
32		
40	D-A72L D-A73L D-A76L	D-A80L D-F79L D-J79L
50		
63		

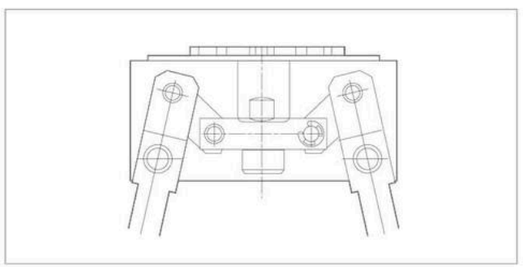
① Fit for grip heavy equipment

② Toggle structure unless lost the pressure suddenly the gripper still can work

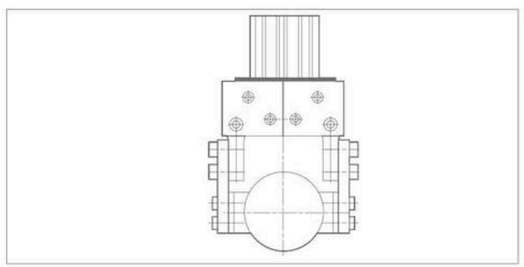
③ Magnet inside, can install magnetism switch

Note:Magnetism switch model can refer to magnetism switch series

Lever Structure

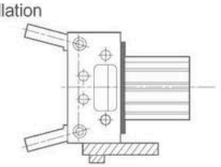


Example

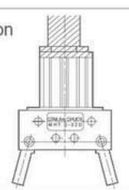


Installation pattern

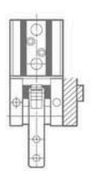
Vertical Installation



Axial Installation



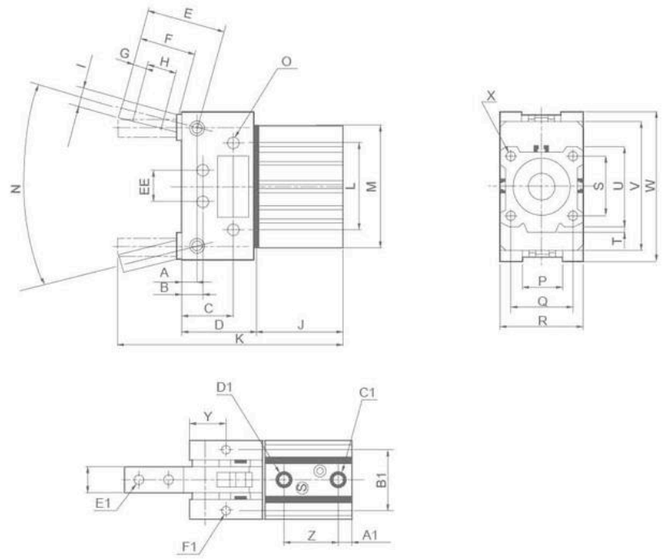
Side Installation



A

XHT Series Angle Style Air Gripper (ToggleType)

Overall Dimensions



Dimension Sheet

Bore(mm)	A	B	C	D	E	F	G	H	I
32	8	12	28	41.6	42	32	8	16	5.5
40	8	12	28	42	48	37	10	18	7
50	10	16	35	52.5	54	40	10	22	8
63	10	17	35	53.2	60	45	11	24	10

Bore(mm)	J	K	L	M	N	O	EE	P
32	48	123.6	50	68	Open: 28°, Closed: -3°	Double Sides:4-M6/Thread:Dep 10	18	22
40	54.5	136.5	60	74	Open: 27°, Closed: -3°	Double Sides:4-M8/Thread:Dep 10	24	29
50	60.5	157	80	100	Open: 23°, Closed: -2°	Double Sides:4-M10/Thread:Dep 12	30	36
63	66	169.2	90	104	Open: 23°, Closed: -2°	Double Sides:4-M12/Thread:Dep 17	36	40

Bore(mm)	Q	R	S	T	U	V	W	X
32	34±0.2	46	34±0.2	4.5	45	72	86	4-M6/Thread:Dep 10
40	40±0.2	53	40±0.2	5	52	82	96	4-M8/Thread:Dep 10
50	50±0.2	66	50±0.2	7	64	110	124	4-M8/Thread:Dep 14
63	60±0.2	80	60±0.2	7	77	116	132	4-M10/Thread:Dep 18

Bore(mm)	Y	Z	A1	B1	C1	D1	E1	F1
32	20	30	7.5	34	Finger Open: Rc(PT)1/8	Finger Closed: Rc(PT)1/8	4-M6/Thread:Dep 5.1	4-M6/Thread:Dep 15
40	20	35.5	8	40	Finger Open: Rc(PT)1/8	Finger Closed: Rc(PT)1/8	4-M8/Thread:Dep 6.8	4-M8/Thread:Dep 12
50	25	39.5	10.5	52	Finger Open: Rc(PT)1/4	Finger Closed: Rc(PT)1/4	4-M10/Thread:Dep 8.6	4-M10/Thread:Dep 12
63	25	40.5	10.5	50	Finger Open: Rc(PT)1/4	Finger Closed: Rc(PT)1/4	4-M12/Thread:Dep 10.4	4-M12/Thread:Dep 10

A

XHL Series Parallel Style Wide Opening Air Gripper



XHL 2-20D

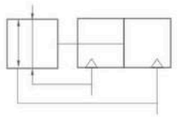
Ordering Code

XHL	2	×	16	D	□
Series Code	Finger Quantity		Cylinder Bore	Action Type	Finger Open/Close Stroke
XHL: Wide Opening Air Gripper	2PCS		10mm~40mm	D: Double Action	

Bore	10	16	20	25	32	40
Blank	20	30	40	50	70	100
1	40	60	80	100	120	160
2	60	80	100	120	160	200

- Long finger stroke,suitable for large volume workpiece.
- Dual piston design can increae retention
- Fingers synchronized by rack and pinion mechanism.
- Dust-protection design adopt special sealing.

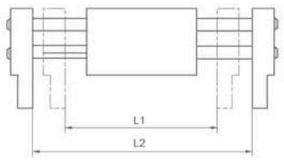
Graphic Symbol

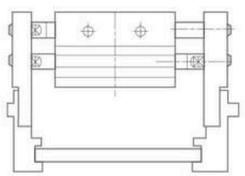


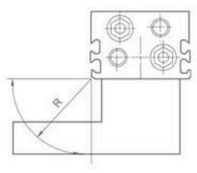
Specifcation

Bore(mm)	10	16	20	25	32	40
Fluid	Air					
Motion Pattern	Double Acting					
Max.pressure Mpa	0.6(6.1)					
Max.pressure Mpa	0.15	0.1				
Ambient and Fluid Temperature	-10~60℃					
Auto Switch(optional)	±0.1mm					
Effective Gripping Force (N) at 0.5 Mpa	14	45	74	131	228	396
Port Size	M5×0.8				G1/8"	

Stroke







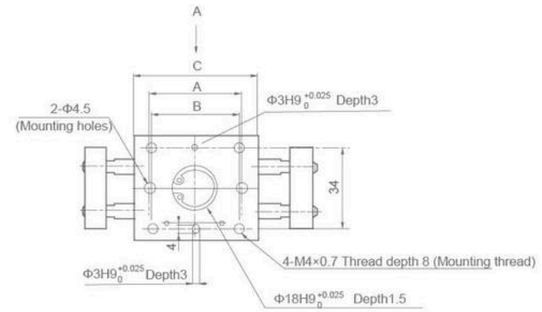
R: gripping point distance(mm)

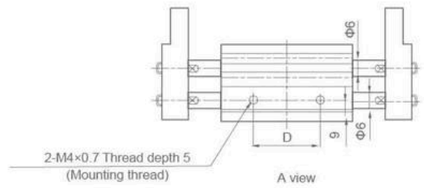
Model	Bore size (mm)	Max. operating frequency c.p.m	Opening/ Closing stroke (L1-L2)mm	Width at closing(mm) L1	Width at the opening (mm) L2
XHL-10D	10	60	20	56	76
XHL-10D1		40	40	78	118
XHL-10D2			60	96	156
XHL-16D	16	60	30	68	98
XHL16D1		40	60	110	170
XHL-16D2			80	130	210
XHL-20D	20	60	40	82	122
XHL-20D1		40	80	142	222
XHL-20D2			100	162	262
XHL-25D	25	60	50	100	150
XHL-25D1		40	100	182	282
XHL-25D2			120	200	320
XHL-32D	32	30	70	150	220
XHL-32D1		20	120	198	318
XHL-32D2			160	242	402
XHL-40D	40	30	100	188	288
XHL-40D1		20	160	246	406
XHL-40D2			200	286	486

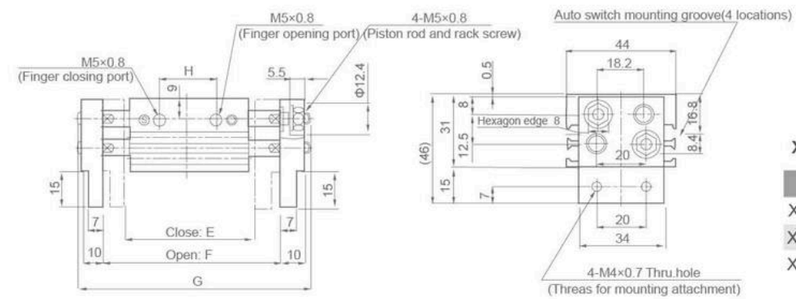
A

XHL Series Parallel Style Wide Opening Air Gripper

Overall Dimensions



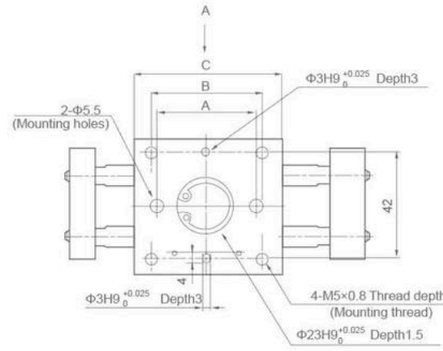


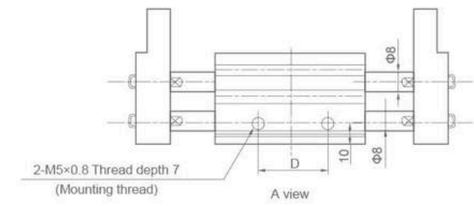


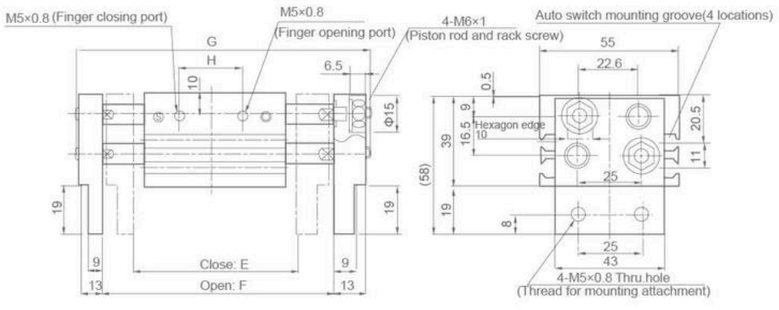
XHL–10D □

Model	A	B	C	D	E	F	G	H
XHL-10D	38	36	51	26	56	76	100	24
XHL-10D1	54	52	67	42	78	118	142	39
XHL-10D2	72	70	85	60	96	156	180	57

Overall Dimensions





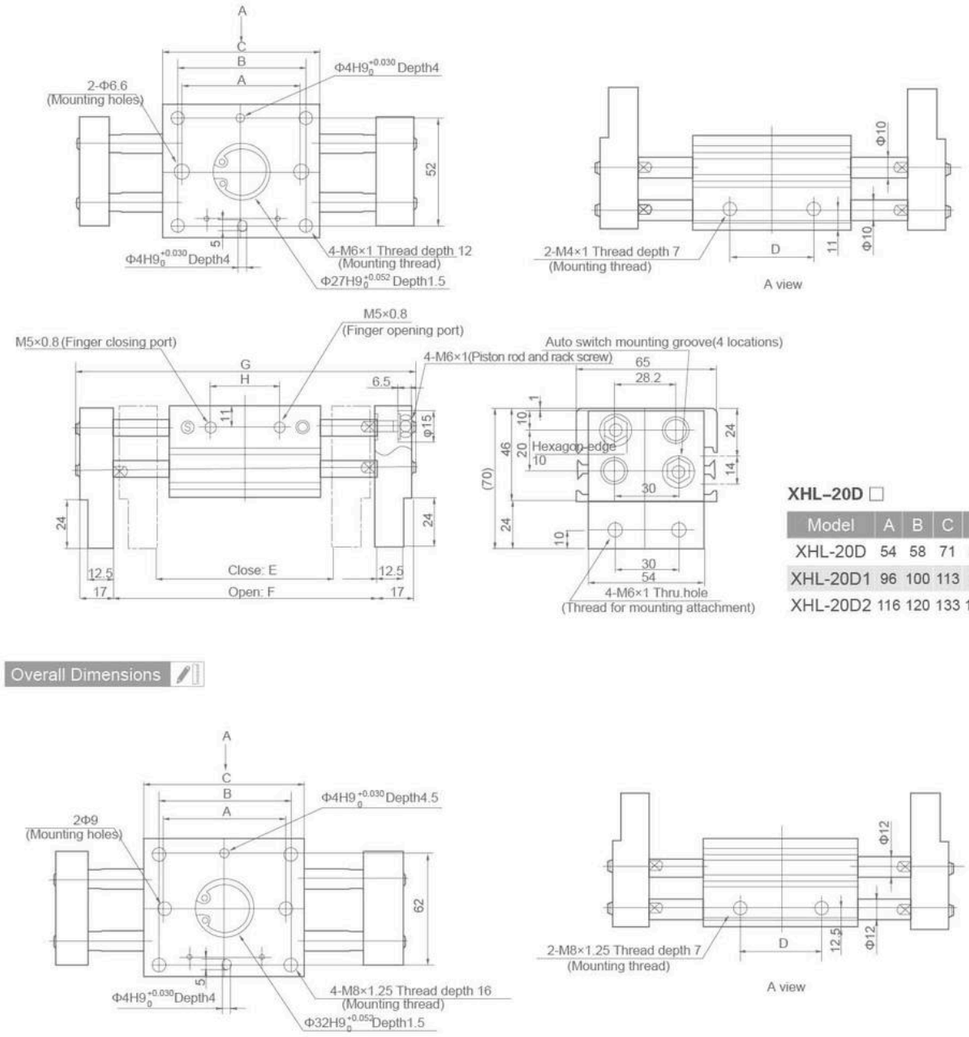


XHL–16D □

Model	A	B	C	D	E	F	G	H
XHL-16D	40	45	60	28	68	98	128	26
XHL-16D1	70	75	90	58	110	170	200	50
XHL-16D2	90	95	110	78	130	210	240	70

XHL Series Parallel Style Wide Opening Air Gripper

Overall Dimensions



XHL–20D □

Model	A	B	C	D	E	F	G	H
XHL-20D	54	58	71	38	82	122	160	32
XHL-20D1	96	100	113	80	142	222	260	68
XHL-20D2	116	120	133	100	162	262	300	88

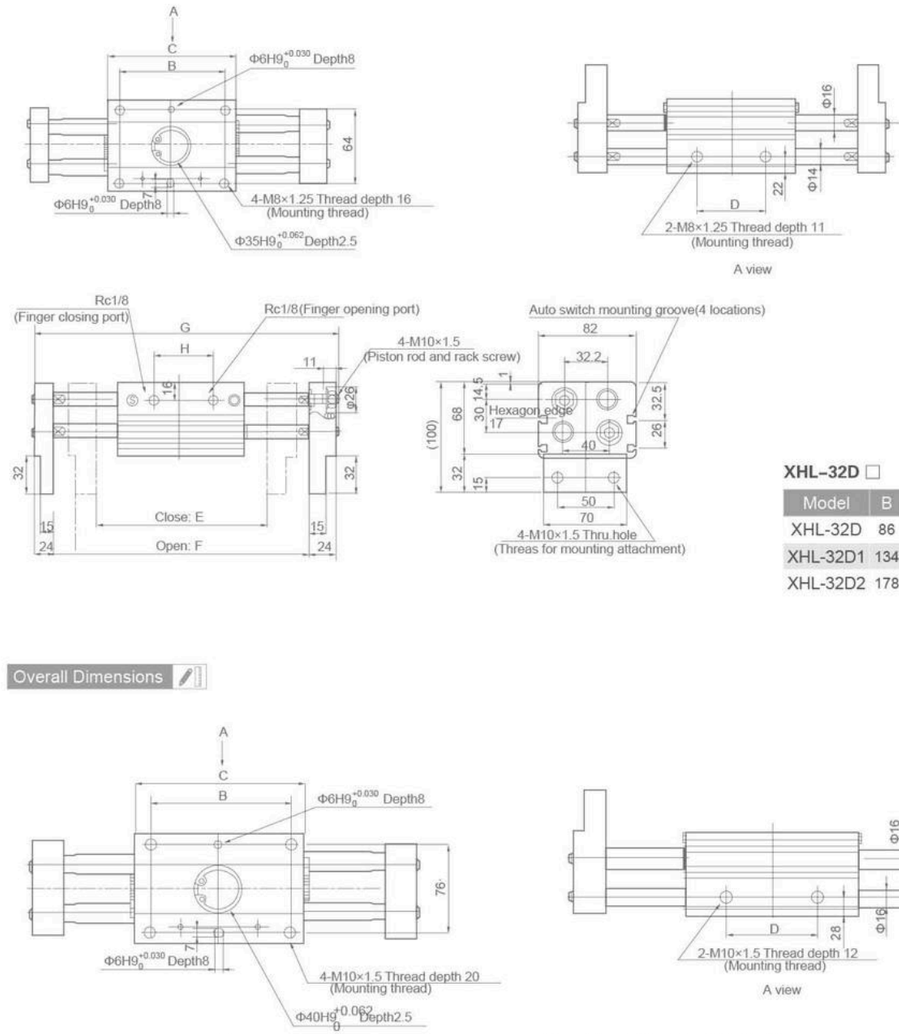
Overall Dimensions

XHL–20D □

Model	A	B	C	D	E	F	G	H
XHL-25D	66	70	88	48	100	150	196	38
XHL-25D1	120	124	142	102	182	282	328	86
XHL-25D2	138	142	160	120	200	320	366	104

XHL Series Parallel Style Wide Opening Air Gripper

Overall Dimensions



XHL–32D □

Model	B	C	D	E	F	G	H
XHL-32D	86	110	60	150	220	272	56
XHL-32D1	134	158	108	198	318	370	104
XHL-32D2	178	202	152	242	402	454	148

Overall Dimensions

XHL–40D □

Model	B	C	D	E	F	G	H
XHL-40D	116	148	80	188	288	348	72
XHL-40D1	174	206	138	246	406	466	130
XHL-40D2	214	246	178	286	486	546	170

XHF Series Low Profile Air Gripper(Parallel Type)



XHF2-20D

Ordering Code

XHF	2	—	12	D	□	□
Series Code	**Finger Quantity**		**Cylinder Bore**	**Action**	**Stroke**	**Body Type**
XHF: Parallel Type Low profile Air Gripper	2: 2PCS		8mm~20mm	D: Double Action	Blank: Short Stroke 1: Middle Stroke 2: Long Stroke	Blank: Axial Porting Type R: Side Porting Type

Specifcation

Bore(mm)	8	12	16	20
Working Medium	Air(No Lubrication)			
Operating Pressure Range(Mpa)	0.15~0.7	0.1~0.7		
Ambient And Fluid	-10~+60°C (Not frezzing)			
Repeatability Precision(mm)	±0.05*			
Max.motion Frequency (c.p.m)	Short stroke,Middle stroke:120 Long stroke:60			
Motion Pattern	Double acting			
Each Gripper Effective Grip Power	19	48	90	141
Open Close Stroke (Both Side)	8,16,32	12,24,48	16,32,64	20,40,80

① If gripper have unbalance loading,for the gear distance,the max,is ±0.15mm
② When plessure is 0.5 mpa,grip power distance is 20mm

XHW Series Angular Air Grippers (Rack & Pinion Type)



XHW2-32D

Ordering Code

XHW	2	—	20	D	□
Series Code	**Finger Quantity**		**Cylinder Bore**	**Action**	**Finger Type**
XHW: Rack&Pinion Type Air Angular Gripper	2: 2PCS		20mm~50mm	D: Double Action	Blank: Flat Type (Standard) 1: Right Angle Type (Tapped Mounting)

Specifcation

Bore(mm)	20	25	32	40	50
Working Medium	Air				
Motion Pattern	Double acting				
Max.operating Pressure Range(Mpa)	0.7				
Min.operating Pressure Range(Mpa)	0.15				
Ambient And Fluid	-10~+60°C (Not frezzing)				
Max.motion Frequency	60c.p.m		30c.p.m		
Repeatability Precision	±0.2mm				
Note1) Grip Moment	0.30	0.73	1.61	3.70	8.27
Note2) Lubrication	Not required				
Port Size	M5×0.8		$Rc^1/_8$		$Rc^1/_4$

Note 1) At 0.5MPa pressure amnient
Note 2) If need lubrication please use ISOVG32

XHS2 Series Slide Guide Air Gripper(Round Body)

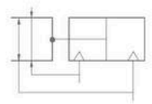


XHS2-32D

Ordering Code

XHS	2	—	32	D
Series Code	**Finger Quantity**		**Cylinder Bore**	**Action**
XHS: Round Body Type	2: 2PCS		16mm~63mm	D: Double Action

Graphic Symbol



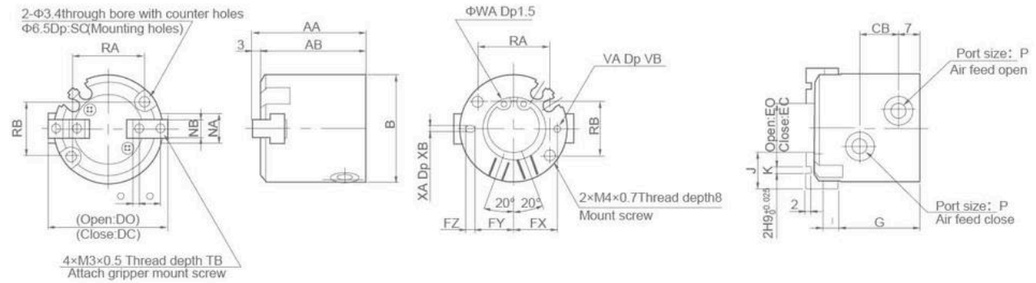
Specifcation

Bore(mm)		16	20	25	32	40	50	63
Working Medium		Air						
Operating Pressure Range		0.2~0.6MPa			0.1~0.6MPa			
Ambient And Fluid		-10~+60°C						
Repeatability Precision		±0.01mm						
Max.motion Frequency		120c.p.m.			60 c.p.m.			
Lubrication		Not required						
Motion Pattern		Double acting						
Note:Grip power pressure 0.5Mpa	Outer diameter grip	21	37	63	111	177	280	502
	Inner diameter grip	23	42	71	123	195	306	537
Gripper Stroke		4	4	6	8	8	12	16
Port Size		M3×0.5	M5×0.8					
Magnetism Switch		With magnet						

① Grip outer diameter power,Φ16-Φ25 grip distance L=30mm

Overall Dimensions

XHS2-16D~25D



Dimension Sheet

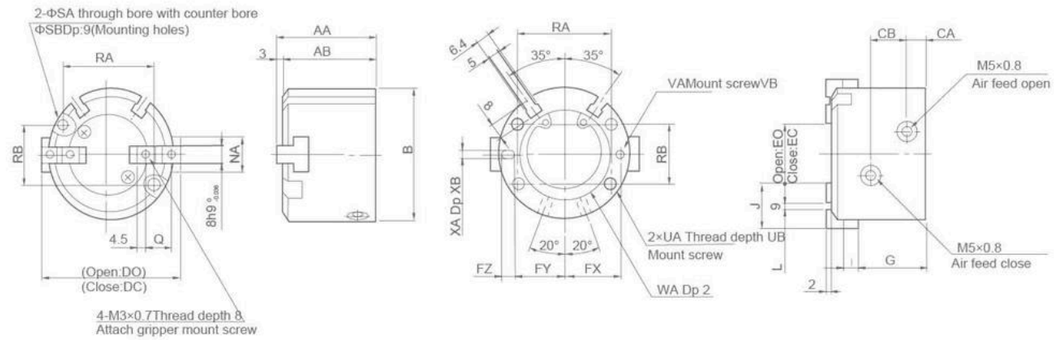
Bore(mm)	AA	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	O	P	Q
16	35	32	30	11	30	34	10	14	12.5	11	3	25	4	10	4	8	$5h9\ ^{0}_{-0.030}$	2	M3x0.5	6
20	38	35	25	13	36	40	12	16	14.5	13	3	27	5	12	5	10	$6h9\ ^{0}_{-0.030}$	2.5	M5x0.8	7
25	40	37	42	15	42	48	14	20	17	14.5	5	28	5	14	6	12	$6h9\ ^{0}_{-0.030}$	3	M5x0.8	8

Bore(mm)	RA	RB	SC	TB	VA	VB	WA	XA	XB
16	18	16	8	5	$2H9\ ^{+0.025}_{0}$	2	$17H9\ ^{+0.043}_{0}$	$2H9\ ^{+0.025}_{0}$	2
20	24	18	9.5	6	$2H9\ ^{+0.025}_{0}$	2	$21H9\ ^{+0.052}_{0}$	$2H9\ ^{+0.025}_{0}$	2
25	26	22	10	6	$3H9\ ^{+0.025}_{0}$	3	$3H9\ ^{+0.052}_{0}$	$3H9\ ^{+0.025}_{0}$	3

XHS2 Series Slide Guide Air Gripper(Round Body)

Overall Dimensions

XHS2-32D~40D

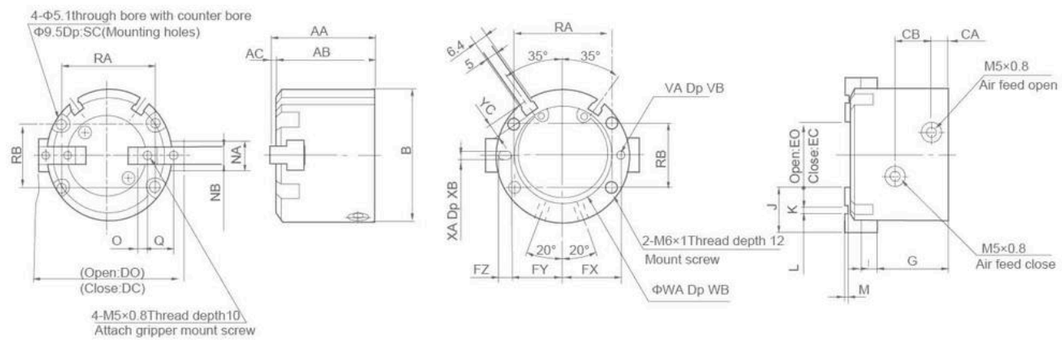


Bore(mm)	AA	AB	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	L	NA
32	44	41	56	8	16	56	64	16	24	23	20.5	5	30.5	6	20	2H9 $^{+0.025}_{0}$	14
40	47	44	62	9	17	62	70	20	28	26.5	23.5	6	32	7	21	3H9 $^{+0.025}_{0}$	16

Bore(mm)	Q	RA	RB	SA	SB	UA	UB	VA	VB	WA	XA	XB
32	11	38	25	4.5	8	M5x0.8	10	3H9 $^{+0.025}_{0}$	3	34H9 $^{+0.025}_{0}$	3H9 $^{+0.025}_{0}$	3
40	12	44	28	5.5	9.5	M6x1	12	4H9 $^{+0.030}_{0}$	4	42H9 $^{+0.062}_{0}$	4H9 $^{+0.030}_{0}$	4

Overall Dimensions

XHS2-50D~63D



Dimension Sheet

Bore(mm)	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K
50	55	52	3	70	9	20	70	82	22	34	31	28	6	37.5	9	24	10
63	66	62	4	86	12	22	86	102	30	46	38	34.5	7	44	11	28	11

Bore(mm)	L	M	NA	NB	O	Q	RA	RB	SC	VA	VB	WA	WB	XA	XB	YC
50	4H9 $^{+0.030}_{0}$	2	18	10H9 $^{0}_{-0.036}$	5	14	52	34	12	4H9 $^{+0.030}_{0}$	4	52H9 $^{+0.074}_{0}$	2	4H9 $^{+0.030}_{0}$	4	7
63	6H9 $^{+0.030}_{0}$	3	24	12H9 $^{0}_{-0.043}$	5.5	17	66	38	14	5H9 $^{+0.030}_{0}$	5	65H9 $^{+0.074}_{0}$	2.5	5H9 $^{+0.030}_{0}$	5	7.5

XHS3 Series Slide Guide Air Gripper(Round Body)



XHS3-20D

Ordering Code

XHS	3	—	□	—	32	D

Series Code
XHS: Round Body Type

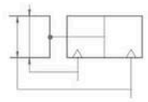
Finger uantity
3: 3PCS

Type
Blank: Standard
J: With Cover
L: Long Stroke

Cylinder Bore
J:16mm~80mm
L:16mm~125mm

Action
D: Double Action

Graphic Symbol



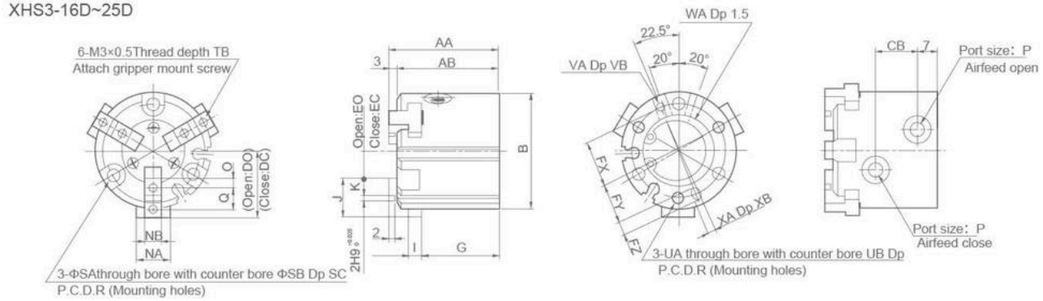
Specifcation

Bore(mm)		16	20	25	32	40	50	63	80	100	125
Working Medium		Air									
Operating Pressure Range		0.2~0.6MPa			0.1~0.6MPa						
Ambient And Fluid		-10~60℃									
Repeatability Precision		±0.01									
Max.motion Frequency		120c.p.m			60c.p.m				30c.p.m		
Lubrication		Not required									
Motion Pattern		Double acting									
Note:Grip Power Pressure 0.5Mpa	Outer Diameter Grip	14	25	42	74	118	187	335	500	750	1270
	Inner Diameter Grip	16	28	47	82	130	204	359	525	780	1320
	With Dustpreient Cover Outter Diameter Grip	9	21	36	62	97	155	280	400	-	-
With Cover·standard Gripper Stroke		4	4	6	8	8	12	16	20	24	32
Long Stroke Gripper Stroke		10	10	12	16	20	28	32	40	48	64
Port Size		M3×0.5	M5×0.8						1/8	1/4	3/8
Magnetism switch		With magnet									

Note: Grip outer diameter power,Φ16-Φ25grip distance L=20mm,、Φ32-Φ63，grip distance L=30mm,Φ80-Φ125,grip distance L=50mm

Overall Dimensions

XHS3-16D~25D



Dimension Sheet

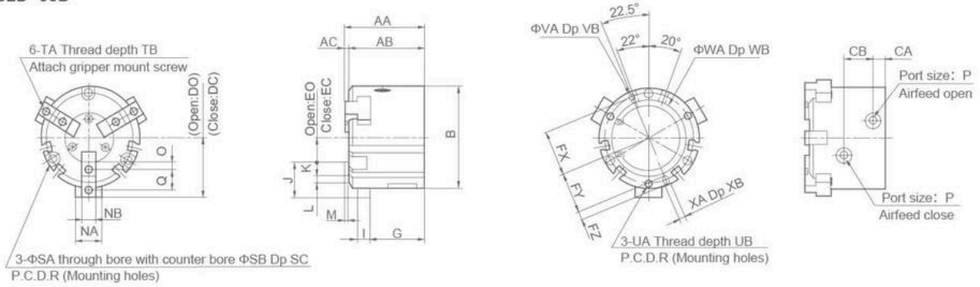
Bore(mm)	AA	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	O	P	Q	R
16	35	32	30	11	15	17	5	7	12.5	11	3	25	4	10	4	8	5h9 $^{0}_{-0.030}$	2	M3x0.5	6	25
20	38	35	36	13	18	20	6	8	14.5	13	3	27	5	12	5	10	6h9 $^{0}_{-0.030}$	2.5	M5x0.8	7	29
25	40	37	42	15	21	24	7	10	17	14.5	5	28	5	14	6	12	6h9 $^{0}_{-0.030}$	3	M5x0.8	8	34

Bore(mm)	SA	SB	SC	TB	UA	UB	VA	VB	WA	XA	XB
16	3.4	6.5	8	5	M3x0.5	4.5	2H9 $^{+0.025}_{0}$	2	17H9 $^{+0.043}_{0}$	2H9 $^{+0.025}_{0}$	2
20	3.4	6.5	9.5	6	M3x0.5	6	2H9 $^{+0.025}_{0}$	2	21H9 $^{+0.052}_{0}$	2H9 $^{+0.025}_{0}$	2
25	4.5	8	10	6	M4x0.7	6	3H9 $^{+0.025}_{0}$	3	26H9 $^{+0.052}_{0}$	3H9 $^{+0.025}_{0}$	3

XHS3 Series Slide Guide Air Gripper(Round Body)

Overall Dimensions

XHS3-32D~80D



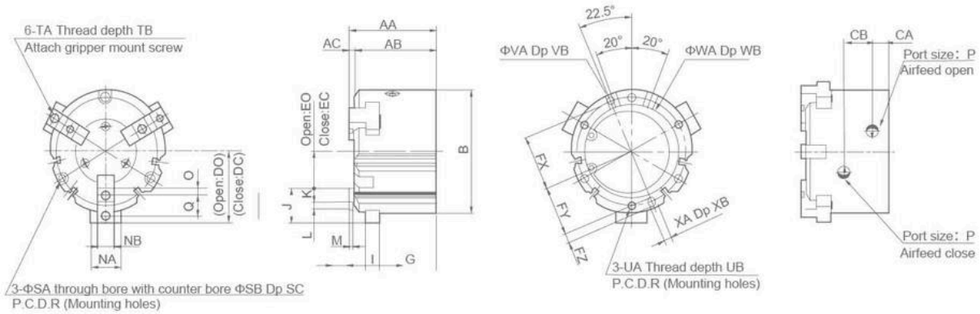
Overall Dimensions

Bore(mm)	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L	M	NA	NB
32	44	41	3	52	8	16	28	32	8	12	22	19.5	5	30.5	6	20	9	2H9 $^{+0.025}_{0}$	2	14	8H9 $^{0}_{-0.036}$
40	47	44	3	62	9	17	31	35	10	14	26.5	23.5	6	32	7	21	9	3H9 $^{+0.025}_{0}$	2	16	8H9 $^{0}_{-0.036}$
50	55	52	3	70	9	20	35	41	11	17	31	28	6	37.5	9	24	10	4H9 $^{+0.030}_{0}$	2	18	10H9 $^{0}_{-0.036}$
63	66	62	4	86	12	22	43	51	15	23	38	34.5	7	44	11	28	11	6H9 $^{+0.030}_{0}$	3	24	12H9 $^{0}_{-0.043}$
80	82	77	5	106	13.5	27	53.5	63.5	21.5	31.5	47.5	43.5	8	56	12	32	12	8H9 $^{+0.036}_{0}$	4	28	14H9 $^{0}_{-0.043}$

Bore(mm)	O	P	Q	R	SA	SB	SC	TA	TB	UA	UB	VA	VB	WA	WB	XA	XB	YC
32	4.5	M5×0.8	11	44	4.5	8	9	M4×0.7	8	M4×0.7	6	3H9 $^{+0.025}_{0}$	3	34H9 $^{+0.062}_{0}$	2	3H9 $^{+0.025}_{0}$	3	6
40	4.5	M5×0.8	12	53	5.5	9.5	9	M5×0.8	8	M5×0.8	7.5	5H9 $^{+0.025}_{0}$	4	42H9 $^{+0.062}_{0}$	2	4H9 $^{+0.030}_{0}$	4	8
50	5	M5×0.8	14	62	5.5	9.5	12	M5×0.8	10	M5×0.8	10	4H9 $^{+0.030}_{0}$	4	52H9 $^{+0.074}_{0}$	2	4H9 $^{+0.030}_{0}$	4	7
63	5.5	M5×0.8	17	76	6.6	11	14	M5×0.8	10	M6×1	9	5H9 $^{+0.030}_{0}$	5	65H9 $^{+0.074}_{0}$	2.5	5H9 $^{+0.030}_{0}$	5	7.5
80	6	Rc$^{1}/_{8}$	20	95	6.6	11	19	M6×1	12	M6×1	12	6H9 $^{+0.030}_{0}$	6	82H9 $^{+0.087}_{0}$	3	6H9 $^{+0.030}_{0}$	6	8

Overall Dimensions

XHS3-100D~125D



Dimension Sheet

Bore(mm)	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L	M	NA	NB
100	96	90	6	134	18	30.6	66	78	28	40	59	54	10	63	15	38	15	8H9 $^{+0.036}_{0}$	4	34	18H9 $^{0}_{-0.043}$
125	122	114	8	166	23.5	38	82	98	30	46	74	68	12	84	18	52	21	10H9 $^{+0.036}_{0}$	6	40	22H9 $^{0}_{-0.052}$

Bore(mm)	O	P	Q	R	SA	SB	SC	TA	TB	UA	UB	VA	VB	WA	WB	XA	XB
100	7.5	Rc$^{1}/_{4}$	23	118	9	14	21	M8×1.25	16	M8×1.25	16	8H9 $^{+0.036}_{0}$	6	102H9 $^{+0.087}_{0}$	4	8H9 $^{+0.036}_{0}$	6
125	10.5	Rc$^{3}/_{8}$	31	148	11	17.5	34	M10×1.5	20	M10×1.5	20	10H9 $^{+0.036}_{0}$	8	130H9 $^{+0.100}_{0}$	6	10H9 $^{+0.036}_{0}$	8

XHS4 Series Slide Guide Air Gripper(Round Body)

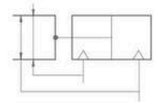


XHS4-32D

Ordering Code

XHS	4	—	32	D
Series Code	**Finger uantity**		**Cylinder Bore**	**Action**
XHS: Round Body Type	4: 4PCS		16mm~63mm	D: Double Action

Graphic Symbol

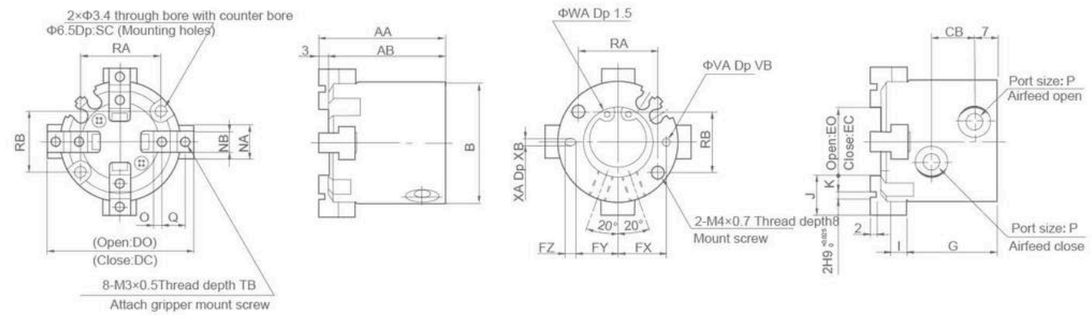


Specifcation

Bore(mm)		16	20	25	32	40	50	63
Working Medium		Air						
Operating Pressure Range		0.2~0.6MPa			0.1~0.6MPa			
Ambient And Fluid		-10~60°C						
Repeatability Precision		±0.01						
Max.motion Frequency		120c.p.m			60c.p.m			
Lubrication		Not required						
Motion Pattern		Double acting						
Note:grip Power Pressure 0.5Mpa	Outer Diametter Grip	10	19	31	55	88	140	251
	Inner Diametter Grip	12	21	35	61	97	153	268
Gripper Stroke		4	4	6	8	8	12	16
Port Size		M3×0.5			M5×0.8			
Magnetism Switch		With magnet						

Note: Grip outer diameter power,Φ16-Φ25 grip distance 20mm,Φ32-Φ63 grip diatance 30mm

Overall Dimensions



Dimension Sheet

Bore(mm)	AA	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	O	P	Q
16	35	32	30	11	33	37	13	17	12.5	11	3	25	4	10	4	8	5h9 $^{0}_{-0.030}$	2	M3x0.5	6
20	38	35	36	13	39	43	15	19	14.5	13	3	27	5	12	5	10	6h9 $^{0}_{-0.030}$	2.5	M5x0.8	7
25	40	37	42	15	48	54	20	26	17	14.5	5	28	5	14	6	12	6h9 $^{0}_{-0.030}$	3	M5x0.8	8

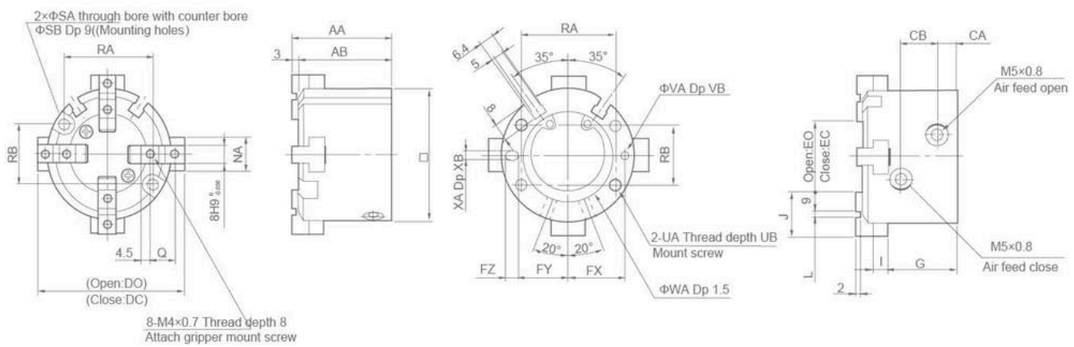
Bore(mm)	RA	RB	SC	TB	VA	VB	WA	XA	XB
16	18	16	8	5	2H9 $^{+0.025}_{0}$	2	17H9 $^{+0.043}_{0}$	2H9 $^{+0.025}_{0}$	2
20	24	18	9.5	6	2H9 $^{+0.025}_{0}$	2	21H9 $^{+0.052}_{0}$	2H9 $^{+0.025}_{0}$	2
25	26	22	10	6	3H9 $^{+0.025}_{0}$	3	26H9 $^{+0.052}_{0}$	3H9 $^{+0.025}_{0}$	3

A

XHS4 SeriesSlide Guide Air Gripper(Round Body)

Overall Dimensions

XHS4-32D~40D

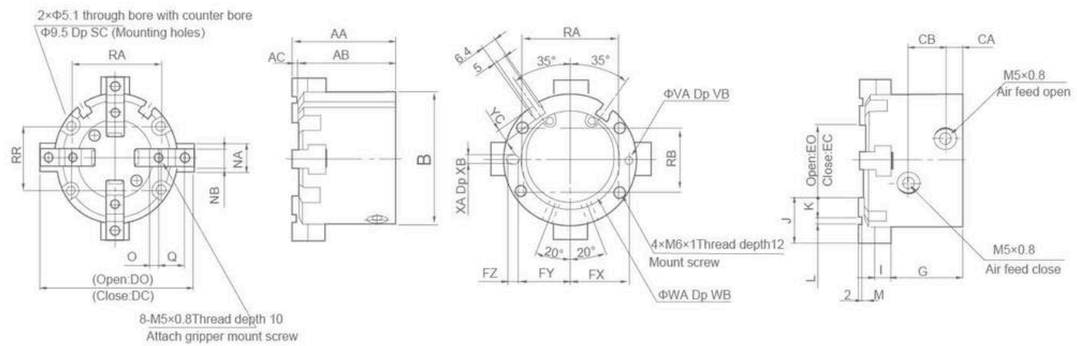


Bore(mm)	AA	AB	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	L	NA	Q	RA	RB	SA
32	44	41	56	8	16	60	68	20	28	23	20.5	5	30.5	6	20	2H9 $^{+0.025}_{0}$	14	11	38	25	4.5
40	47	44	62	9	17	66	74	24	32	26.5	23.5	6	32	7	21	3H9 $^{+0.025}_{0}$	16	12	44	28	5.5

Bore(mm)	SB	UA	UB	VA	VB	WA	XA	XB
32	8	M5×0.8	10	3H9 $^{+0.025}_{0}$	3	34H9 $^{+0.062}_{0}$	3H9 $^{+0.025}_{0}$	3
40	9.5	M6×1	12	4H9 $^{+0.030}_{0}$	4	42H9 $^{+0.062}_{0}$	4H9 $^{+0.030}_{0}$	4

Overall Dimensions

XHS4-50D~63D



Dimension Sheet

Bore(mm)	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L	M	NA	NB
50	55	52	3	70	9	20	74	86	26	38	31	28	6	37.5	9	24	10	4H9 $^{+0.030}_{0}$	2	18	10H9 $^{0}_{-0.036}$
63	66	62	4	86	12	22	91	107	35	51	38	34.5	7	44	11	28	11	6H9 $^{+0.030}_{0}$	3	24	12H9 $^{0}_{-0.043}$

Bore(mm)	O	Q	RA	RB	SC	VA	VB	WA	WB	XA	XB	YC
50	5	14	52	34	12	4H9 $^{+0.030}_{0}$	4	52H9 $^{+0.074}_{0}$	2	4H9 $^{+0.030}_{0}$	4	7
63	5.5	17	66	38	14	5H9 $^{+0.030}_{0}$	5	65H9 $^{+0.074}_{0}$	2.5	5H9 $^{+0.030}_{0}$	5	7.5

CY3B Series Rodless Cylinder



CY3B 20 × 400

Ordering Code

CY3	B	25	×	50
Series code	**Piping Form**	**Bore Size**		**Stroke**
CY3: Standard	B: Normal Type	15mm~40mm		See Stroke List

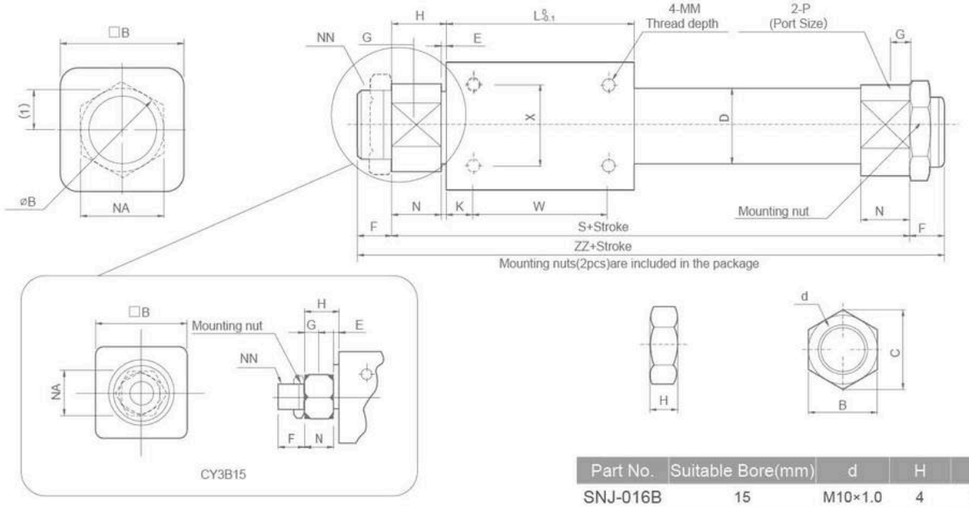
Specifcation

Bore(mm)	15	20	25	32	40
Working Medium	Air(to be filtered by 40μm filter element)				
Max.operating Pressure	0.7Mpa				
Min.operating Pressure	0.16Mpa		0.15Mpa	0.14Mpa	0.12Mpa
Environment And Fluid Temperature	-10~60℃ (No freezing)				
Piston Speed Mm/S	50~400				
Cushion Type	Rubber cushion on both ends				
Stroke Tolerance(mm)	0~250 $^{+1.0}_{0}$, 251~1000 $^{+1.4}_{0}$, 1001~ $^{+1.8}_{0}$				
Magnet Holding Force N	137	231	363	588	922
Size Port	M5×0.8			Rc1/8	

Stroke

Bore (mm)	Standard stoke(mm)	Max.stroke(mm) Without switch	Max.stroke(mm) With switch
15	50,100,150,200,250,300,350,400,450,500	1000	750
20	100,150,200,250,300,350,400,450,500,600,700,800	1500	1000
25		3000	1200
32			1500
40	100,150,200,250,300,350,400,450,500,600,700,800,900,1000		

Overall Dimensions



Part No.	Suitable Bore(mm)	d	H	B	C
SNJ-016B	15	M10×1.0	4	14	16.2
SN-020B	20	M20×1.5	8	26	30
SN-032B	25,32	M26×1.5	8	32	37
SN-040B	40	M32×2.0	10	41	47.3

Dimension Sheet

Bore(mm)	B	D	E	F	G	H	I	J	K	L	MM	N	NA	NN	R	S	W	X	ZZ
15	35	16.6	3	10	5.5	13	-	6	11	57	M4×0.7	11	17	M10×1	-	83	35	19	103
20	36	21.6	2	13	7.5	20	12	6	8	66	M4×0.7	18	24	M20×1.5	28	106	50	25	132
25	46	26.4	2	13	7.5	20.5	15	8	10	70	M5×0.8	18.5	30	M26×1.5	34	111	50	30	137
32	60	33.6	2	16	8	22	18	8	15	80	M6×1	20	36	M26×1.5	40	124	50	40	156
40	70	41.6	3	16	11	29	23	10	16	92	M6×1	26	46	M32×2	50	150	60	40	182

A

CY3R Series Rodless Cylinder



CY3R 25×300

Ordering Code

CY3R — G — 25 × 50

Series code
CY3R: Magnetically Coupled-Diect mount Type

Piping Form
Blank: Both sides of the pipe
G: Centralized piping

Bore size
15mm~40mm

Stroke
See Stroke List

Specifcation

Bore(mm)	15	20	25	32	40
Fluid	Air(Non Lub)				
Max.operating pressure	0.7				
Min.operating pressure	0.16		0.15	0.14	0.12
Environment and fluid temperature	-10~60℃ (No freezing)				
Piston speed mm/s	50~500				
Cushion type	Rubber cushion on both ends				
Stroke tolerance	$0\sim250^{+1.0}_{0}$, $251\sim1000^{+1.4}_{0}$, $1001\sim1500^{+1.8}_{0}$				
Magnet holding force N	137	231	363	588	922
Port Size	M5×0.8			Rc1/8	

70% longer wear ring length achieving an improvement in bearing performance compared to CY3B.
A special resin Lub-retainer is installed on the dust seal to achieve idea lubrication on the external surface of the cylinder tube.
By using a Lub-retainer,the minimum operationg pressure is reduced by 30%.
The mounting dimensions are the same as CY3B series.

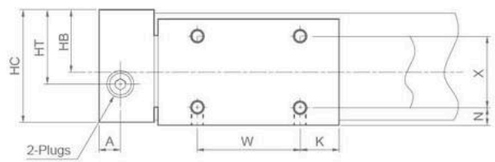
Stroke

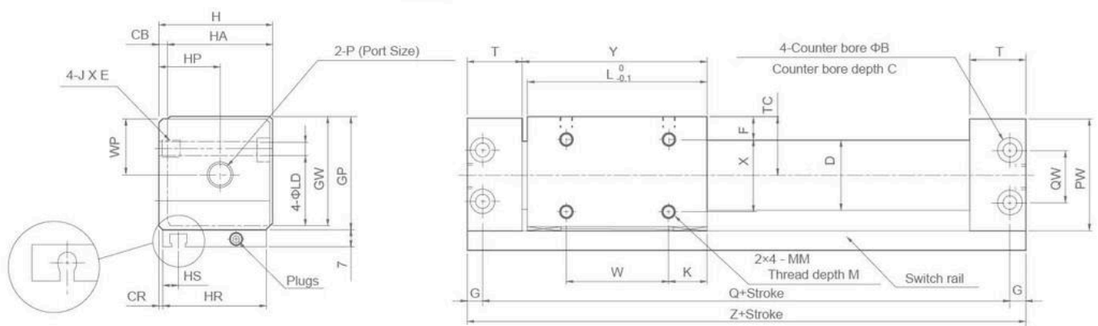
Bore(mm)	Standard Stoke(mm)
15	50,100,150,200,250,300,350,400,450,500
20	
25	100,150,200,250,300,350,400,450,500,600,700,800
32	
40	100,150,200,250,300,350,400,450,500,600,700,800,900,1000

Overall Dimensions

CY3R15~40

Note) The Figure Shows Types With Switch Yai(blank)





CY3R15,20 CY3R25,32,40

A

CY3R Series Rodless Cylinder

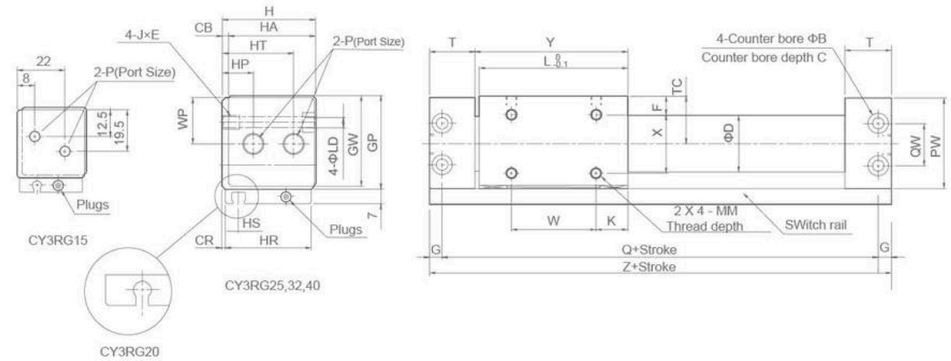
Dimension Sheet

Bore(mm)	A	B	C	CB	CR	D	F	G	GP	GW	H	HA	HB	HC	HP	HR	HS	HT	J×E	K
15	10.5	8	4.2	2	0.5	16.6	8	5	33	31.5	32	30	17	31	17	30	8.5	17	M5×0.8×7	14
20	9	9.5	5.2	3	1	21.6	9	6	39	37.5	39	36	21	38	24	36	7.5	24	M6×1×8	11
25	8.5	9.5	5.2	3	1	26.4	8.5	6	44	42.5	44	41	23.5	43	23.5	41	6.5	23.5	M6×1×8	15
32	10.5	11	6.5	3	1.5	33.6	10.5	7	55	53.5	55	52	29	54	29	51	7	29	M8×1.25×10	13
40	10	11	6.5	5	2	41.6	13	7	65	63.5	67	62	36	66	36	62	8	36	M8×1.25×10	15

Bore(mm)	L	LD	M	MM	N	PW	Q	QW	T	TC	W	WP	X	Y	Z
15	53	4.3	5	M4×0.7	6	32	84	18	19	17	25	16	18	54.5	94
20	62	5.6	5	M4×0.7	7	38	95	17	20.5	20	40	19	22	64	107
25	70	5.6	6	M5×0.8	6.5	43	105	20	21.5	22.5	40	21.5	28	72	117
32	76	7	7	M6×1	8.5	54	116	26	24	28	50	27	35	79	130
40	90	7	8	M6×1	11	64	134	34	26	33	60	32	40	93	148

Overall Dimensions

CY3RG15~40



Dimension Sheet

Bore(mm)	A	B	C	CB	CR	D	F	G	GP	GW	H	HA	HB	HC	HP	HR	HS	HT	J×E	K
15	10.5	8	4.2	2	0.5	16.6	8	5	33	31.5	32	30	17	31	17	30	8.5	17	M5×0.8×7	14
20	9	9.5	5.2	3	1	21.6	9	6	39	37.5	39	36	21	38	24	36	7.5	24	M6×1×8	11
25	8.5	9.5	5.2	3	1	26.4	8.5	6	44	42.5	44	41	23.5	43	23.5	41	6.5	23.5	M6×1×8	15
32	10.5	11	6.5	3	1.5	33.6	10.5	7	55	53.5	55	52	29	54	29	51	7	29	M8×1.25×10	13
40	10	11	6.5	5	2	41.6	13	7	65	63.5	67	62	36	66	36	62	8	36	M8×1.25×10	15

Bore(mm)	L	LD	M	MM	N	PW	Q	QW	T	TC	W	WP	X	Y	Z	HP	HT
15	53	4.3	5	M4×0.7	6	32	84	18	19	17	25	16	18	54.5	94	-	-
20	62	5.6	5	M4×0.7	7	38	95	17	20.5	20	40	19	22	64	107	11	28
25	70	5.6	6	M5×0.8	6.5	43	105	20	21.5	22.5	40	21.5	28	72	117	14.5	33.5
32	76	7	7	M6×1	8.5	54	116	26	24	28	50	27	35	79	130	20	41
40	90	7	8	M6×1	11	64	134	34	26	33	60	32	40	93	148	25	50

Note: The unmarked sizes are the same as both sides piping type.

CY3S Series Rodless Cylinder



CY3S 25×300

Ordering Code

CY3S	—	20	H	×	50	BS

Series code
CY3S: Sliding Type
CDY3S: With Switch Rail

Bore size
6mm~40mm

Manget Holding Foece Type
H: High
L: Lower(Φ6-Φ10. No.L)

Stroke
See Stroke List

Stopper Form
Blank:With adjusting screw
B: 2 hydraulic shock absorbers
BS: 1 pcs hydraulic shock absorber

Graphic Symbol



Specifcation

Bore size(mm)	6	10	15	20	25	32	40	50	63
Working medium	Air(to be filtered by 40μm filter element)								
Action type	Double-acting								
Max.operating pressure	0.7MPa								
Min.operating pressure	0.18MPa								
Environment and fluid temperature	-10~60℃ (No freezing)								
Piston speed	50~400mm/s								
Cushion type	Rubber cushion on both ends								
Stroke tolerance	0~250 $^{+1.0}_{0}$, 251~1000 $^{+1.4}_{0}$, 1001~ $^{+1.8}_{0}$								
Lubrication	Not required (Non-lube)								
Port size	M5×0.8		Rc1/8			Rc1/4			
Mounting method	Unlimited								

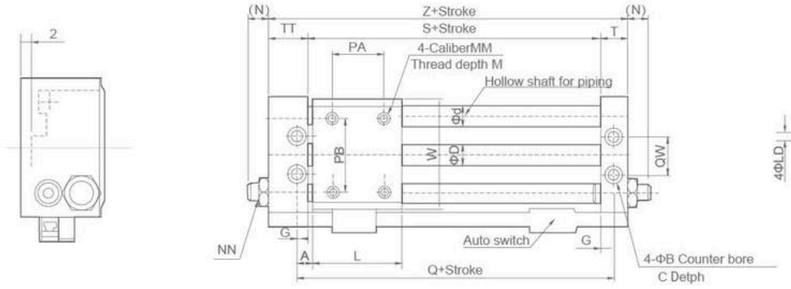
Stroke

Bore(mm)	Standard storke(mm)	longeststroke(mm)	
		Basic	Slider type
6	50,100,150,200	300	300
10	50,100,150,200,250,300	500	500
15	50,100,150,200,250,350,400,450,500	——	750
20	100,150,200,250,300,350,400,450,500,600,700,800	——	1000
25		——	1500
32		——	
40	100,150,200,250,300,350,400,450,500,600,700,800,900,1000	——	

CY3S Series Rodless Cylinder

Overall Dimensions

CY3S6~10



Dimension Sheet

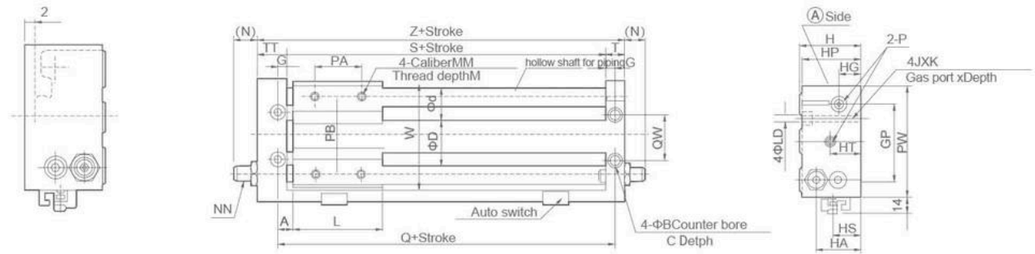
Bore(mm)	Travel range	ΦD	Φd	A	ΦB	C	HT	G	GP	H	HA	HG	HP	HS	T	J×K	L	LD	M
6	~300	7.6	8	6	6.5	3	17	5	32	27	19	8	26	8	10	M4×0.7×6.5	40	3.5	6
10	~300	12	10	7.5	8	4	18	6.5	40	34	25.5	12	33	14	12.5	M4×0.8×9.5	45	4.3	6

Bore(mm)	MM	NN	(N)	P	*PA	PB	PW	QW	Q	S	TT	Z	W
6	M4×0.7	M8×1.0	10	M5×0.8	25	25	50	16	52	42	16	68	46
10	M4×0.7	M8×1.0	9.5	M5×0.8	25	38	60	24	60	47	20.5	80	58

Note) Auto switch can also be mounted on Ⓐ side
Equle about center for PA and L

Overall Dimensions

CY3S15~40



Dimension Sheet

Bore(mm)	Travel range	ΦD	Φd	A	ΦB	C	HT	G	GP	H	HA	HG	HP	HS	T	J×K	L	LD	M
15	~750	16.6	12	7.5	9.5	5	21	6.5	52	40	29	13	39	15	12.5	M6×1.0×9.5	60	5.6	8
20	~1500	21.6	16	10	9.5	5.2	20	8.5	62	46	36	17	45	25.5	16.5	M6×1.0×9.5	70	5.6	10
25	~1500	26.4	16	10	11	6.5	20	8.5	70	54	40	20	53	53	16.5	M8×1.25×10	70	7	10
32	~1500	33.6	20	12.5	14	8	24	9.5	86	66	46	24	64	27	18.5	M10×1.5×15	85	8.7	12
40	~1500	41.6	25	12.5	14	8	25	10.5	104	76	57	25	74	30	20.5	M10×1.5×15	95	8.7	12

Bore(mm)	MM	NN	(N)	P	*PA	PB	PW	QW	Q	S	TT	Z	W
15	M5×0.8	M8×1.0	7.5	M5×0.8	30	50	75	30	75	62	22.5	97	72
20	M6×1.0	M10×1.0	9.5	1/8	40	70	90	38	90	73	25.5	115	87
25	M6×1.0	M14×1.5	11	1/8	40	70	100	42	90	73	25.5	115	97
32	M8×1.25	M20×1.5	11.5	1/8	40	75	122	50	110	91	28.5	138	119
40	M8×1.25	M20×1.5	10.5	1/8	65	105	145	64	120	99	35.5	155	142

Note) Auto switch can also be mounted on Ⓐ side
Equle about center for PA and L