

Theoretical force output form pressure mutual calculate form

● Cylinder force output :

$$F = P \times A - f$$

F: Cylinder force output(kgf) A: Piston area(cm²)
 P: Work pressure(kgf/cm²) f: Friction resistance(kgf)

● Cylinder theoretical force output form:

Bore(mm)		12	16	20	25	32	40	
Axes Bore(mm)		6	6	8	10	12	16	
Piston area(cm ²)	A1	1.1	2.0	3.1	4.9	8.0	12.6	
	A2	0.8	1.7	2.6	4.1	6.9	10.6	
Working pressure (kgf/cm ²)	1	A1	1.1	2.0	3.1	4.9	8.0	12.6
		A2	0.8	1.7	2.6	4.1	6.9	10.6
	2	A1	2.3	4.0	6.3	9.8	16.1	25.1
		A2	1.7	3.5	5.3	8.2	13.8	21.1
	3	A1	3.4	6.0	9.4	14.7	24.1	37.7
		A2	2.5	5.2	7.9	12.4	20.7	31.7
	4	A1	4.5	8.0	12.6	19.6	32.2	50.3
		A2	3.4	6.9	10.6	16.5	27.6	42.2
	5	A1	5.7	10.1	15.7	24.5	40.2	62.8
		A2	4.2	8.6	13.2	20.6	34.6	52.8
	6	A1	6.8	12.1	18.9	29.5	48.3	75.4
		A2	5.1	10.4	15.8	24.7	41.5	63.3
	7	A1	7.9	14.1	22.0	34.4	56.3	88.0
		A2	5.9	12.1	18.5	28.9	48.4	73.9
	8	A1	9.0	16.1	25.1	39.3	64.3	100.5
		A2	6.8	13.8	21.1	33.0	55.3	84.4
	9	A1	10.2	18.1	28.3	44.2	72.4	113.1
		A2	7.6	15.6	23.7	37.1	62.2	95.0

Bore(mm)		50	63	80	100	125	160	
Axes Bore(mm)		20	20	25	25	32	40	
Piston area(cm ²)	A1	19.6	31.2	50.3	78.5	122.7	201.1	
	A2	16.5	28.0	45.4	73.6	114.7	188.5	
Working pressure (kgf/cm ²)	1	A1	19.6	31.2	50.3	78.5	122.7	201.1
		A2	16.5	28.0	45.4	73.6	114.7	188.5
	2	A1	39.3	62.3	100.5	157.1	245.4	402.1
		A2	33.0	56.1	90.7	147.3	229.3	377.0
	3	A1	58.9	93.5	150.8	235.6	368.1	603.2
		A2	49.5	84.1	136.1	220.9	344.0	565.5
	4	A1	78.5	124.7	201.1	314.2	490.9	804.2
		A2	66.0	112.1	181.4	294.5	458.7	754.0
	5	A1	98.2	155.9	251.3	392.7	613.6	1005.3
		A2	82.5	140.2	226.8	368.1	573.4	942.5
	6	A1	117.8	187.0	301.6	471.2	736.3	1206.3
		A2	99.0	168.2	272.1	441.8	688.0	1130.9
	7	A1	137.4	218.2	351.8	549.8	859.0	1407.4
		A2	115.5	196.2	317.5	515.4	802.7	1319.4
	8	A1	157.1	249.4	402.1	628.3	981.7	1608.4
		A2	131.9	224.2	362.8	589.0	917.4	1507.9
	9	A1	176.7	280.5	452.4	706.8	1104.4	1809.5
		A2	148.4	252.3	408.2	662.7	1032.1	1696.4

Bore(mm)		200	200	250	250	320	400	
Axes Bore(mm)		40	50	50	55	63	80	
Piston area(cm²)	A1	314.2	314.2	490.9	490.9	804.2	1256.6	
	A2	301.6	294.5	471.2	471.2	773.1	1193.0	
Working pressure (kgf/cm²)	1	A1	314.2	314.2	490.9	490.9	804.2	1256.0
		A2	301.6	294.5	471.2	467.1	773.1	1193.0
	2	A1	628.3	628.3	981.7	981.7	1608.4	2513.2
		A2	603.2	589.0	942.5	934.2	1546.1	2386.0
	3	A1	942.5	942.5	1472.6	1472.6	2412.7	3769.8
		A2	904.8	883.5	1413.7	1401.3	2319.2	3579.0
	4	A1	1256.6	1256.6	1963.4	1963.4	3216.9	5026.4
		A2	1206.3	1178.1	1884.9	1868.4	3092.2	4771.9
	5	A1	1570.8	1570.8	2454.3	2454.3	4021.1	6283.0
		A2	1507.9	1472.6	2356.1	2335.5	3865.3	5964.9
	6	A1	1884.9	1884.9	2945.2	2945.2	4825.3	7539.6
		A2	1809.5	1767.1	2827.4	2802.6	4638.3	7157.9
	7	A1	2199.1	2199.1	3436.0	3436.0	5629.6	8796.2
		A2	2061.6	2061.6	3298.6	3269.7	5411.4	8350.9
	8	A1	2513.2	2513.2	3926.8	3926.9	6433.8	10052.8
		A2	2356.1	2356.1	3769.8	3736.8	6184.4	9543.9
	9	A1	2827.4	2827.4	4417.7	4417.7	7238.0	11309.4
		A2	2650.6	2650.6	4241.0	4203.9	6957.5	10736.9

Note: Above all are theory datas,so before operation,please pay attention to the friction force and the mechanical efficiency,and also calculate the actual figures.

- Please read the safely notice carefully before using and pay attention to the safety caution of this product
- Pay attention to the individual caution for various model series(read the cautions and safety notice in p1-2 for common cautions)

Caution for design, selection



Warning:

- Make thorough understanding to the characteristic of the compressed air and the application of this product while designing circuit
- Please use only the fluid stated on the catalog, don't use the fluid other than limited, in order to prevent damage of product and affect the operation safely
- The air used is compressed air, please note that expandable and unstable pressure will fly out, burst out, or leak.
- Please used as per specification and within the specified conditions ;use secede the specification may cause hazard. please used as per the specification stated on the catalog, exceeding the pressure beyond the specification, temperature and condition will cause poor action and affect the operation safely.
- Due to the mechanical design with the variation of wobbling movement of the cylinder, please pay attention flying objects and possible crash hazard of you limbs, resulting in body injury and mechanical damage and so on ;so ,take precaution upon designing.
- The movable range of cylinder may contact our body and cause injury, should be protected by safety guard to prevent direct contact body hazard.
- For larger mechanism or long stroke object, the selected cylinder must equip with buffer device and provide with deceleration circuit to reduce and sooth the rigid impact of the mechanism device.



Warning:

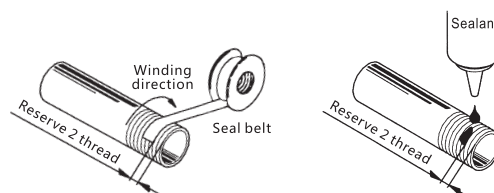
- Take the emergency or transient cut off power source .or power failure, air source circuit pressure drop causing holding force drop ,vertical movement slip and resulting in damage of mechanical device ,and human safety into account upon designing. so safety countermeasure should be taken in design.
- Take the driving mechanism and circuit control system combination into account upon design to avoid residue pressure in circuit .failure to completely positioning and lateral pressurized and other factors may cause high speed fly out of the object .these situations are very possible to cause body injury limbs crashed, and damage of mechanism. countermeasure of protective circuit is necessary.
- Emergency stop device for mechanism is essential in case of malfunction, in addition to protective device. emergency stop device should be provided in order to prevent body injury and damage of equipment
- Re-start after emergency stop should confirm safety position of all mechanism, avoid interference and impact due to error position, affect human body and damage the equipment ,there should have safety precaution countermeasure for restarting after emergency stop upon design.
- While applying three positions intermediate stop control in cylinder. Take the expansion property of air and low hydraulic operation ,the precise intermediate position difficulty into account for long period stop position ,consider the displacement cause by air leak ; please contact the sale unit of us in case of special application .
- Requirement of peripheral environment:
 1. avoid to be used in environment with chemical, inflammable, corrosive and seawater, high temperature;
 2. avoid to be used in the place with heating and irradiative heat.
 3. follow the requirement stated in the specification for ambient temperature;
 4. prevent poor action cause by frozen while use in cold climate;
 5. avoid the environment in outdoor with sun and dusty place, which cause unstable in quality;
 6. avoid to be used in oily, inflammable and explosion pool place.



Caution:

- Prevent debris and dust from entering the cylinder while laying .which may cause failure and poor movement
- The use of cylinder should follow the principle of not exceeding max , stroke prevent the momentum force impact the front and rear cap of the piston.
- The in/outlet of the cylinder should be equipped with governor for controlling the traveling speed of the cylinder . it is preferable to control the cylinder by check out .
- The cylinder with long stroke should design with intermediate support, arbor and cylinder tube, if support on one side will cause static load deflection . in case of shock and loaded may tend to damage.
- Plural cylinder device't imutaneous moving structure, should be designed with guide rod to prevent interference and poor action.
- The axis of the cylinder should move consistence with load , no lateral load is allowed and will cause surface worm and damage of the arbor, and make the shaft seal packing damage resulting in leakage and poor action.
- At the portion of external guide rod or shaft end connection object , the shaft end connection must avoid connection interference . it is preferable to connect to floating coupling or angular adjustable device. Prevent damage cause by imbalance action and single side rubbing .
- The inner wall of cylinder and arbor are precise machine, avoid scratch and knock to this portion , especially damage of the outer tube of the cylinder tube will lead to deformation of tube wall, this is the cause of malfunction and damage of cylinder.
- The cylinder is equipped with adjustment of buffer device , it should be adjusted according to the actual moving speed and max . load condition , the adjustment of the needle valve of the buffer device should be in full close , this will cause the damage of buffer packing .

- Prevent debris and leak proof tape residue from entering the pipe while pipe laying and assembling the connector reserve 1-1.5 thread not wound with tape while winging the tape.



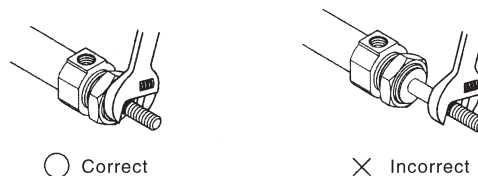
- If the connector is sealed by using anoxic glue , avoid excessive amount and fluid glue from flowing in the body . which may cause jammed and poor movement.
- Caution for installation and application of sensor
 1. confirm the specification and voltage value before usage;
 2. the fixation of tie band shouldn't be tilted and skew angled.
 3. when the sensor is connected to load with length of wire exceed 10m, equip one extra induction sensor nearby the sensor in order to prevent pulse and prevent contact tail to release .
 4. please don't exceed the specified voltage and current.
 5. add protective circuit when connected to induction load.
 6. if the lead wire of the solenoid switch is pulled by force. Twisted, wobbled or put heavy object on top . serious condition will cause short and damage of mechanism.
 7. there is 0.5m error between responses of solenoid switch .
- Please be careful and check all parts for securing before operation.

Caution for service and maintenance



Warning:

- Shut off the power switch and air source properly before service and maintenance, confirm that there is no residue pressure in the pipeline and start work after confirming the status is safe.
- The cylinder is coated with small amount of oil at initial using state; it will decrease after a period of usage. And should be added up with appropriate amount of oil according to actual application condition. Lubricant is essential in high speed moving , limit to use iso-vg32 lubricant, feed by oil applicator, may cause poor action it stop oiled when it is required.
- While removing the cylinder shaft end , it shall work at position with piston pushing in the cylinder (don't pull the cylinder shaft out to serve installing and removing turning), and apply the force evenly to tighten in balance, and push by hand to confirm there is no interference and then start to supply air.



- Service and maintenance should be perform regularly as schedule, and confirm the normal operation of following:
 1. Is the compressed air supplied stably?
 2. Is the front filter and strainer normal?
 3. Is the connection portion or piping loosen accompany moving of object? Is the pipe connection portion normal?
 4. Is the action condition of the cylinder normal? Is there any delay phenomena and exhaust normal? Any strange noise?
 5. Whether the piping system connected to solenoid valve (governor) normal? Terminal start and stop movement normal? Is the load system normal?
 6. Is the lubricant feeding system normal? Is the oil amount adjusted properly?



DNC Series Cylinder



ISO15552、VDMA24562 Cylinder



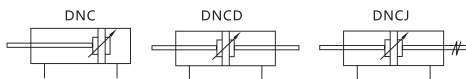
Specification:

Type	32	40	50	63	80	100	125
Motion	Double acting						
Series	DNC,DNCD,DNCJ						
Fluid	Compressed air						
Working pressure range (MPa)	0.1~1						
Operating speed (mm/sec)	50~500						
Ambient temperature (°C)	-10~70						
Cushion	Adjustable cushion at both ends						
Port size (G)	1/8"	1/4"	3/8"	1/2"			

How to order:

DNC 50 × 100 FA S

Symbol:



Product feature:

- 1.The front and rear covers are finished by aluminum die-casting and CNC mechanically processed, with high precision and international standard quality.
- 2.With aluminum tube used, it's friction and corrosion resistant and stainless forever.
- 3.Adopt imported non oil feeding and seal to have long time service and no lubricating maintenance.
- 4.Unique cushion design makes the machines work more smoothly.
- 5.Sensor equipment can be added to make the electrical wiring and control easily.
- 6.With no pull rod and good corrosion resistance.

Specification
DNC: Standard Cylinder
DNCD: Double axial Cylinder
DNCJ: Stroke adjustable Cylinder

Bore

Φ32	Φ80
Φ40	Φ100
Φ50	Φ125
Φ63	

Magnet code

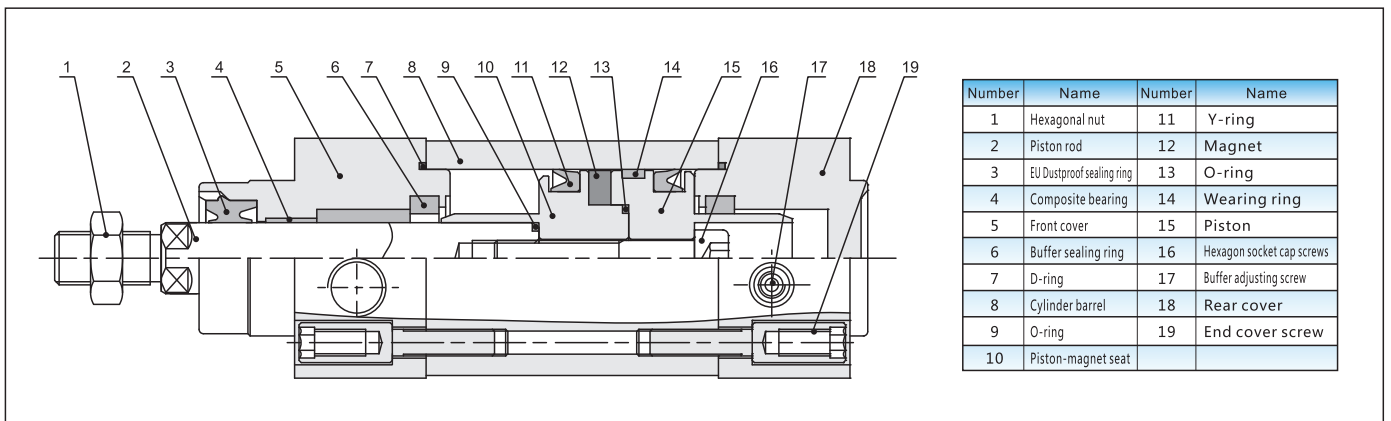
S1:with magnet + 1pc magnet switch
S2:with magnet + 2pc magnet switch
S3:heat resisting seal ring, max temp.150°C
S4:acid resisting piston rod

Mounting type

Blank(Standard)	
FA	
FB	
CA	
CB	
LB	
TC	

Stroke

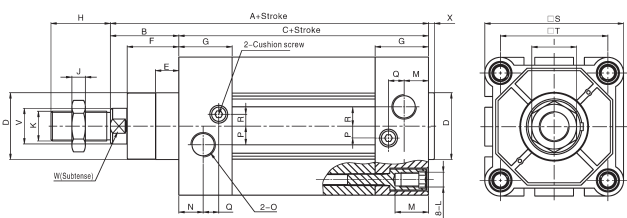
Inner structure drawing:



ISO15552、VDMA24562 Cylinder

Dimension(mm):

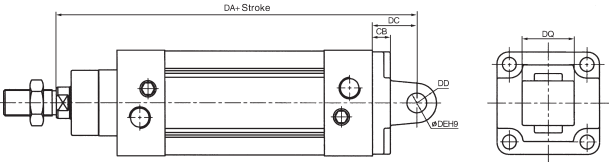
DNC Series
Φ32~Φ125



Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L
32	120	26	94	30	10	18	25	22	17	6	M10×1.25	M6
40	135	30	105	35	10	21.5	30	24	17	7	M12×1.25	M6
50	143	37	106	40	12	28	29.5	32	23	8	M16×1.5	M8
63	158	37	121	45	12	28.5	35.5	32	23	8	M16×1.5	M8
80	174	46	128	45	16	34.5	36	40	26	10	M20×1.5	M10
100	189	51	138	55	16	38	40	40	26	10	M20×1.5	M10
125	225	65	160	60	20	46	45.5	54	41	11	M27×2	M12

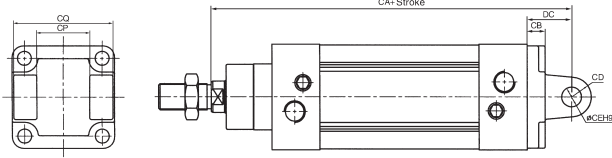
Bore/Symbol	M	N	O	P	Q	R	S	T	V	W	X
32	16	14	G1/8"	6	3	5	45	32.5	12	10	4
40	16	14	G1/4"	6	3	6	54	38	16	13	4
50	17	14	G1/4"	9	5	8	65	46.5	20	17	4
63	17	17	G3/8"	11	6	10	74	56.5	20	17	4
80	17	17	G3/8"	12	10	10	93	72	25	22	4
100	17	19	G1/2"	12	10	10	110	89	25	22	4
125	22	19	G1/2"	13	14	10	135	110	32	27	6

CA-Single-ear mounting type
Φ32~Φ125



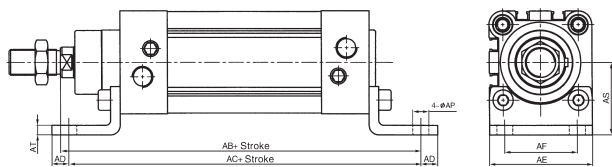
Bore/Symbol	DA	DC	CB	DD	ΦDE	DQ
32	142	22	9	10	10	26
40	160	25	9	12	12	28
50	170	27	11	12	12	32
63	190	32	11	16	16	40
80	210	36	14	16	16	50
100	230	41	14	20	20	60
125	275	50	20	30	25	70

CB-Double-ear mounting type
Φ32~Φ125



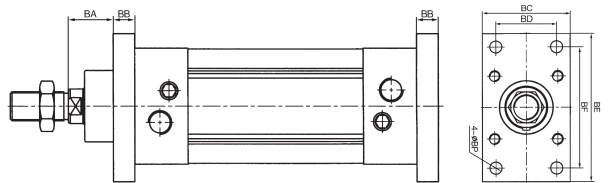
Bore/Symbol	CA	CC	CB	CD	ΦCE	CP	CQ
32	142	22	9	10	10	26	44.5
40	160	25	9	12	12	28	51.5
50	170	27	11	12	12	32	60
63	190	32	11	16	16	40	70
80	210	36	14	16	16	50	90
100	230	41	14	20	20	60	106
125	275	50	20	30	25	70	130

LB-Foot bracket mounting type
Φ32~Φ125



Bore/Symbol	AB	AC	AD	AE	AF	AP	AS	AT
32	144	142	6.5	45	32	7	32	5
40	163	161	9	54	36	10	36	5
50	175	170	10.5	64	45	10	45	6
63	190	185	12.5	75	50	10	50	6
80	215	210	15	93	63	12	63	6
100	230	220	17.5	110	75	14.5	71	6
125	270	250	22	131	90	16.5	90	8

FA、FB-Front&rear flange mounting type
Φ32~Φ125



Bore/Symbol	BA	BB	BC	BD	BE	BF	BP
32	16	10	50	32	80	64	7
40	20	10	55	36	90	72	9
50	25	12	65	45	110	90	9
63	25	12	75	50	125	100	9
80	30	16	100	63	154	126	12
100	35	16	120	75	186	150	14
125	45	20	150	90	220	180	16

ISO15552、VDMA24562 Cylinder



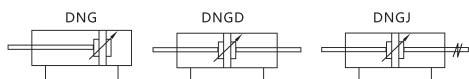
Specification:

Type	32	40	50	63	80	100	125	160	200
Motion	Double acting								
Series	DNG, DI, DNGD, DNGJ								
Fluid	Compressed air								
Working pressure range (MPa)	0.1~1								
Operating speed (mm/sec)	50~500								
Ambient temperature (°C)	-10~70								
Cushion	Adjustable cushion at both ends								
Port size (G)	1/8"	1/4"	3/8"	1/2"					

How to order:

DNG 50 × 100 FA S									
Specification					Magnet code				
DNG: Standard Cylinder					S1: with magnet + 1pc magnet switch				
DI Tie-rod hidden Cylinder					S2: with magnet + 2pc magnet switch				
DNGD: Double axial Cylinder					S3: heat resisting seal ring, max temp. 150°C				
DNGJ: Stroke adjustable Cylinder					S4: acid resisting piston rod				
Bore					Mounting type				
Φ32 Φ100					Blank (Standard)				
Φ40 Φ125					FA				
Φ50 Φ160					FB				
Φ63 Φ200					CA				
Φ80					CB				
Stroke					LB				
					TC				

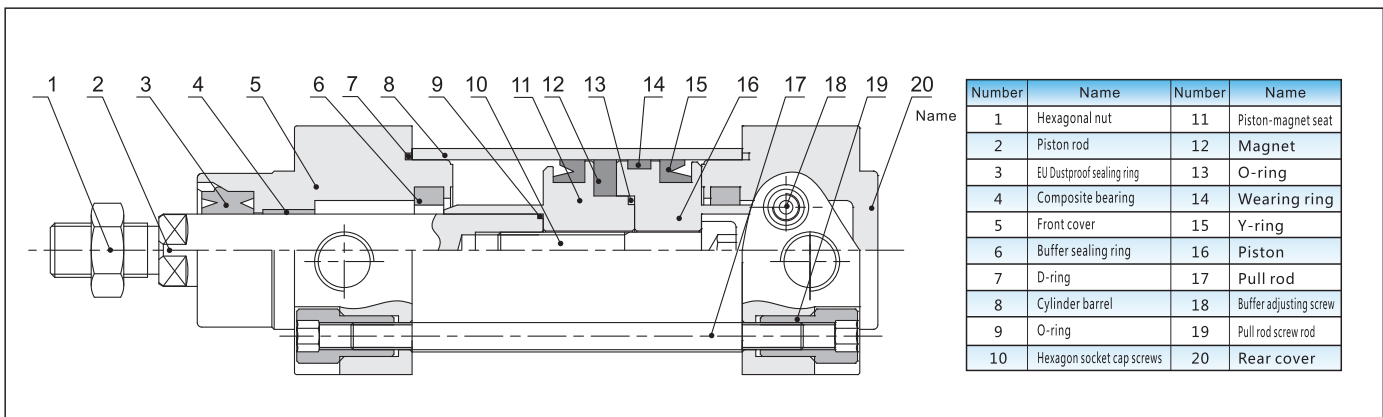
Symbol:



Product feature:

1. Front and rear caps are finished by aluminum die-casting, CNC mechanically processed with high precision.
2. Aluminum tube is imported, stainless forever with friction & corrosion resistance.
3. Adopt imported none lubrication, long time service and no need lubrication maintenance.
4. Unique cushion technique makes smooth action.
5. May add the sensor equipment to easily control.
6. In terms of DI series, pull-rod is hidden inside.

Inner structure drawing:

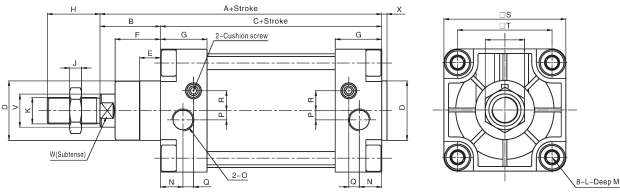


ISO15552、VDMA24562 Cylinder

Dimension(mm):

DNG Series

Φ32~Φ200

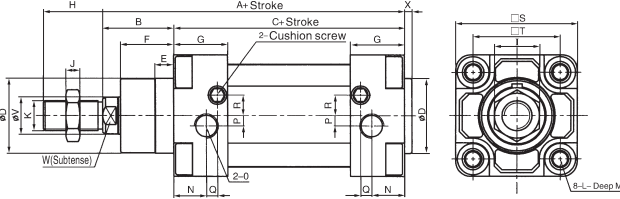


Bore/Symbol	A	B	C	D	E	F	G	H	I	I	K	L
32	120	26	94	30	10	19	26	22	17	6	M10×1.25	M6
40	135	30	105	35	10	21.5	26	24	17	7	M12×1.25	M6
50	142	37	104	40	12	28.5	29	32	23	8	M16×1.5	M8
63	158	37	121	45	12	28.5	35.5	32	23	8	M16×1.5	M8
80	174	46	128	45	16	34.5	35.5	40	26	10	M20×1.5	M10
100	189	51	138	55	16	37.5	38.5	40	26	10	M20×1.5	M10
125	225	65	160	60	20	44.5	46.5	54	41	11	M27×2	M12
160	260	80	180	65	20	48	50	72	55	13	M36×2	M16
200	275	95	180	75	20	65	50	72	55	13	M36×2	M16

Bore/Symbol	M	N	O	P	Q	R	S	T	V	W	X
32	12	9	G1/8"	2	7	7	50	32.5	12	10	4
40	12	11	G1/4"	2	5	9	55	38	16	13	4
50	18	17	G1/4"	5	2	11	65	46.5	20	17	4
63	18	18	G3/8"	6	5	14	75	56.5	20	17	4
80	19	18	G3/8"	7	8	15	93	72	25	22	4
100	19	18	G1/2"	8	11	14	110	89	25	22	4
125	25	18	G1/2"	8	14	13	138	110	32	27	6
160	30	24	G3/4"	12	14	22	180	140	40	36	6
200	25	25	G3/4"	16	14	20	230	175	40	36	6

DI Series

Φ32~Φ160

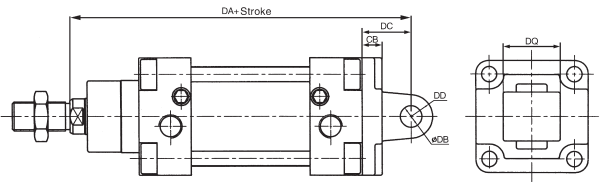


Bore/Symbol	A	B	C	D	E	F	G	H	I	I	K	L
32	20	26	94	30	10	19	26	22	17	6	M10×1.25	M6
40	135	30	105	35	10	21.5	26	24	17	7	M12×1.25	M6
50	142	38	104	40	12	28.5	29	32	23	8	M16×1.5	M6
63	158	37	121	45	12	28.5	35.5	32	23	8	M16×1.5	M8
80	174	46	128	45	16	34.5	35.5	40	26	10	M20×1.5	M10
100	189	51	138	55	16	37.5	38.5	40	26	10	M20×1.5	M10
125	225	65	160	60	20	44.5	46.5	54	38	11	M27×2	M12
160	260	80	160	65	20	48	50	72	50	13	M36×2	M16

Bore/Symbol	M	N	O	P	Q	R	S	T	V	W	X
32	16	9	G1/8"	2	7	7	50	32.5	12	10	4
40	16	11	G1/4"	2	5	9	55	38	16	13	4
50	20	17	G1/4"	5	2	11	65	46.5	20	17	4
63	20	18	G3/8"	6	5	14	75	56.5	20	17	4
80	25	18	G3/8"	7	8	15	93	72	25	22	4
100	28	18	G1/2"	8	11	14	110	89	25	22	4
125	30	18	G1/2"	8	14	13	138	110	32	27	6
160	35	24	G3/4"	12	14	22	180	140	40	36	6

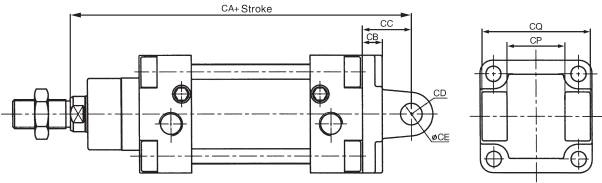
CA-Single-ear mounting type

Φ32~Φ160



CB-Double-ear mounting type

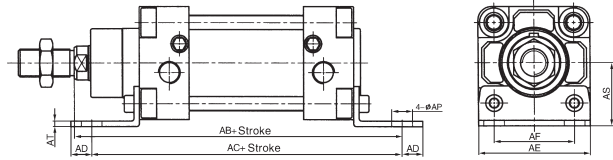
Φ32~Φ160



Bore/Symbol	DA	DC	CB	DD	ΦDE	DQ	CA	CC	CB	CD	ΦCE	CP	CQ
32	142	22	9	10	10	26	142	22	9	10	10	26	44.5
40	160	25	9	12	12	28	160	25	9	12	12	28	51.5
50	169	27	11	12	12	32	169	27	11	12	12	32	60
63	190	32	11	16	16	40	190	32	11	16	16	40	70
80	210	36	14	16	16	50	210	36	14	16	16	50	90
100	230	41	14	20	20	60	230	41	14	20	20	60	110
125	275	50	20	25	25	70	275	50	20	25	25	70	130
160	315	55	20	25	30	90	315	55	20	25	30	90	175

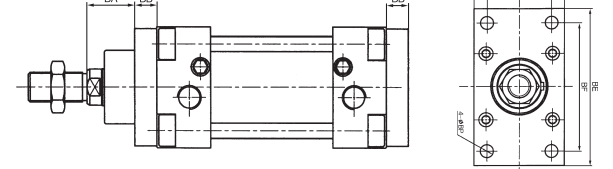
LB-Foot bracket mounting type

Φ32~Φ160



FA、FB-Front&rear flange mounting type

Φ32~Φ160



Bore/Symbol	AB	AC	AD	AE	AF	AP	AS	AT	BA	BB	BC	BD	BE	BF	BP
32	144	142	8	48	32	7	32	5	16	10	50	32	80	64	7
40	163	161	12	53	36	10	36	5	20	10	55	36	90	72	9
50	175	170	13	63	45	10	45	6	26	12	65	45	110	90	9
63	190	185	13	73	50	10	50	6	25	12	75	50	125	100	9
80	215	210	19	93	63	12	63	6	30	16	93	63	154	126	12
100	230	220	19	110	75	14.5	71	6	35	16	110	75	186	150	14
125	270	250	20	138	90	16.5	90	8	45	20	138	90	220	180	16
160	320	300	15	184	115	18.5	115	9	60	20	180	115	280	230	18

ISO15552、VDMA24562 Cylinder



Specification:

Type	32	40	50	63	80	100
Motion	Double acting					
Series	SI, SID, SIJ					
Fluid	Compressed air					
Working pressure range (MPa)	0.1~1					
Operating speed(mm/sec)	50~500					
Ambient temperature(°C)	-10~70					
Cushion	Adjustable cushion at both ends					
Port size (G)	1/8"	1/4"		3/8"		

How to order:

SI 50 × 100 FA S

Specification

SI: Standard Cylinder
SID: Double axial Cylinder
SIJ: Storke adjustable Cylinder

Bore

Φ32	Φ63
Φ40	Φ80
Φ50	Φ100

Stroke

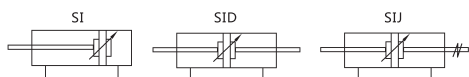
Magnet code

S1:with magnet + 1pc magnet switch
S2:with magnet + 2pc magnet switch
S3:heat resisting seal ring, max temp.150°C
S4:acid resisting piston rod

Mounting type

Blank(Standard)	
FA	
FB	
CA	
CB	
LB	
TC	

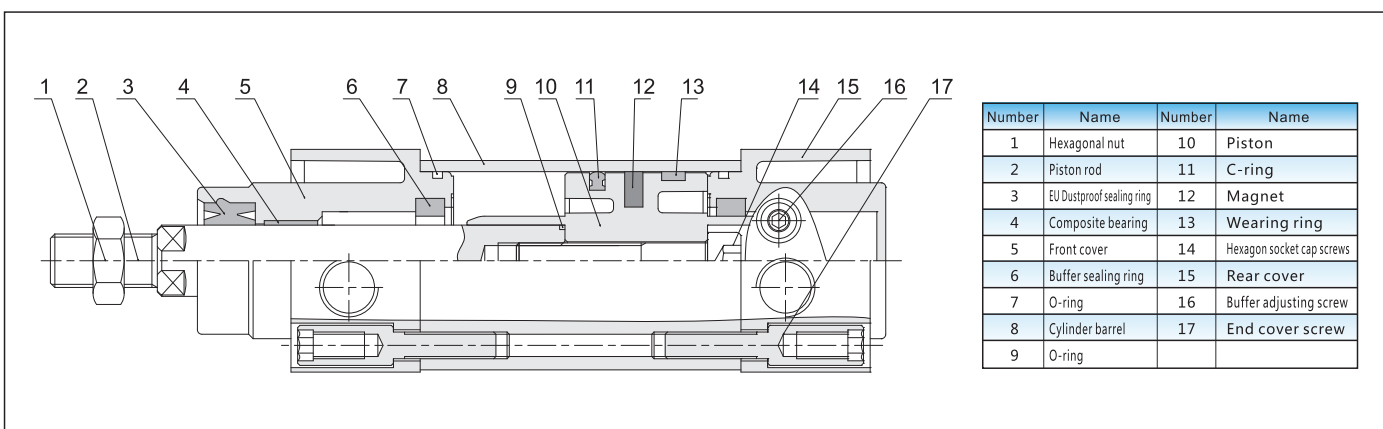
Symbol:



Product feature:

- 1.The front and rear covers are finished by aluminum die-casting and CNC mechanically processed, with high precision and international standard quality.
- 2.With aluminum tube used, it's friction and corrosion resistant and stainless forever.
- 3.Adopt imported non oil feeding and seal to have long time service and no lubricating maintenance.
- 4.Unique cushion design makes the machines work more smoothly.
- 5.Sensor equipment can be added to make the electrical wiring and control easily.
- 6.The cylinder barrel is M type with no pull rod and good corrosion resistance

Inner structure drawing:



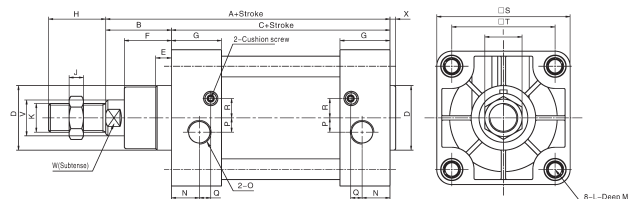
Number	Name	Number	Name
1	Hexagonal nut	10	Piston
2	Piston rod	11	C-ring
3	EU Dustproof sealing ring	12	Magnet
4	Composite bearing	13	Wearing ring
5	Front cover	14	Hexagon socket cap screws
6	Buffer sealing ring	15	Rear cover
7	O-ring	16	Buffer adjusting screw
8	Cylinder barrel	17	End cover screw
9	O-ring		

ISO15552、VDMA24562 Cylinder

Dimension(mm):

SI Series

■ $\Phi 32 \sim \Phi 100$

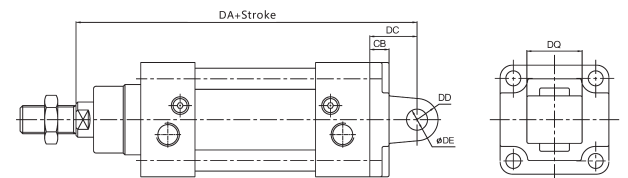


Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L
32	120	26	94	30	10	18	27.5	22	17	6	M10×1.25	M6
40	135	30	105	35	10	21.5	32	24	17	7	M12×1.25	M6
50	143	37	106	40	12	28	31	32	23	8	M16×1.5	M8
63	158	37	121	45	12	28.5	33	32	23	8	M16×1.5	M8
80	174	46	128	45	16	34.5	33	40	26	10	M20×1.5	M10
100	189	51	138	55	16	38	37	40	26	10	M20×1.5	M10

Bore/Symbol	M	N	O	P	Q	R	S	T	V	W	X
32	13	13	G1/8"	5.5	6	6	47	32.5	12	10	4
40	17	17	G1/4"	6	7.5	8.5	53	38	16	13	4
50	15.5	15.5	G1/4"	7.5	6.5	9.5	65	46.5	20	17	4
63	16.5	16.5	G3/8"	7.5	7.5	11.5	75	56.5	20	17	4
80	16.5	16.5	G3/8"	9	7.5	13.5	95	72	25	22	4
100	18.5	18.5	G1/2"	9.5	8.5	13.5	115	89	25	22	4

CA-Single-ear mounting type

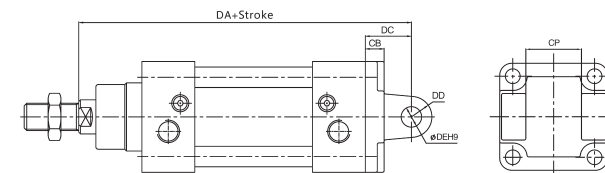
■ $\Phi 32 \sim \Phi 100$



Bore/Symbol	DA	DC	CB	DD	ΦDE	DQ
32	142	22	9	10	10	26
40	160	25	9	12	12	28
50	170	27	11	12	12	32
63	190	32	11	16	16	40
80	200	36	14	16	16	50
100	230	41	14	20	20	60

CB-Double-ear mounting type

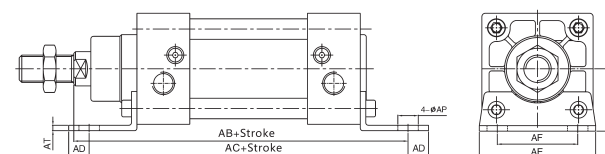
■ $\Phi 32 \sim \Phi 100$



Bore/Symbol	DA	DC	DB	DD	ΦDE	CP
32	142	22	9	10	10	26
40	160	25	9	12	12	28
50	170	27	11	12	12	32
63	190	32	11	16	16	40
80	200	36	14	16	16	50
100	230	41	14	20	20	60

LB-Foot bracket mounting type

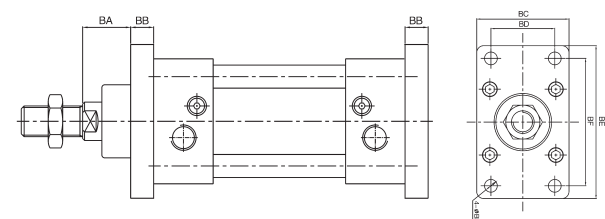
■ $\Phi 32 \sim \Phi 160$



Bore/Symbol	AB	AC	AD	AE	AF	AP	AS	AT
32	160	142	8	47	32	7	32	3
40	182	161	9	53	36	9	36	3
50	197	170	10	65	45	9	45	3
63	210	185	12	75	50	9	50	3
80	227	210	19	95	63	12.5	63	4
100	260	228	19	115	75	14.5	71	4

FA、FB-Front&rear flange mounting type

■ $\Phi 32 \sim \Phi 160$



Bore/Symbol	BA	BB	BC	BD	BE	BF	BP
32	16	10	47	32	80	64	7
40	20	10	53	36	90	72	9
50	25	12	65	45	108	90	9
63	25	12	75	50	118	100	9
80	30	16	95	63	150	126	12.5
100	40	16	115	75	176	150	14.5

The image displays two Festo air cylinders. The top cylinder is a compact model, labeled 'Festo Model SC320D0', with a blue air line fitting on the left. The bottom cylinder is a standard model, labeled 'Festo Model DC10', with a blue air line fitting on the left and a multi-port manifold on the right. Both cylinders have a grey body and gold-colored pistons.

Type	32	40	50	63	80	100	125	160	200
Motion	Double acting								
Series	SC, SCD, SCJ, SU								
Fluid	Compressed air								
Working pressure range(MPa)	0.1~1								
Operating speed(mm/sec)	50~500								
Ambient temperature(°C)	-10~70								
Cushion	Adjustable cushion at both ends								
Port size (G)	1/8"	1/4"		3/8"		1/2"			

SC 50 x 100 FA S

The figure shows three schematic diagrams of joint types: SC (Standard Coupling), SCD (Standard Coupling with Duct), and SCJ (Standard Coupling with Joint). Each diagram illustrates a horizontal pipe section with a vertical duct or joint connection. The SC diagram shows a simple coupling. The SCD diagram shows a coupling with a duct. The SCJ diagram shows a coupling with a joint, indicated by a break symbol (//) on the right side of the pipe.

1. Front and rear caps are finished by aluminum die-casting, CNC mechanically processed with high precision.
2. Aluminum tube is imported, stainless forever with friction & corrosion resistance.
3. Adopt imported none lubrication, long time service and no need lubrication maintenance.
4. Unique cushion technique makes smooth action.
5. May add the sensor equipment to easily control.
6. In terms of SU series, pull-rod is hidden inside.

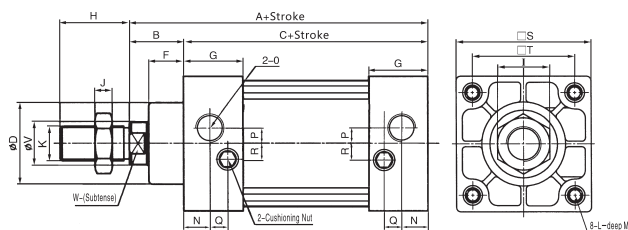
Number	Name	Number	Name
1	Hexagonal nut	11	C-ring
2	Piston rod	12	Magnet
3	Dustproof sealing ring	13	Wearing ring
4	Composite bearing	14	Spring washer
5	Front cover	15	Hexagon socket cap screws
6	Buffer sealing ring	16	Rear cover
7	D-ring	17	Buffer adjusting screw
8	Cylinder barrel	18	Pull rod
9	Piston	19	Pull rod nut
10	O-ring		

Standard Cylinder

Dimension(mm):

Standard Dimension

■ $\Phi 32 \sim \Phi 200$

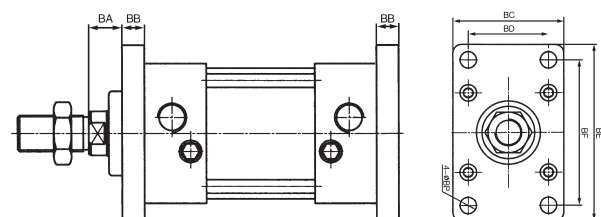


Bore/Symbol	A	B	C	D	F	G	H	I	J	K	L
32	118	25	93	28	15	27.5	22	17	6	M10×1.25	M6
40	118	25	93	32	15	27.5	24	17	7	M12×1.25	M6
50	118	25	93	38	16	27.5	32	23	8	M16×1.5	M6
63	121	26	95	38	16	27.5	32	23	8	M16×1.5	M8
80	143.5	36.5	107	43	21	33	40	26	10	M20×1.5	M10
100	148	35	113	43	21	33	40	26	10	M20×1.5	M10
125	171	47	124	56	32	32	45	41	11	M27×2	M12
160	195	50	145	64	32	40	50	55	13	M36×2	M16
200	201	54	147	66	35	41	60	55	13	M36×2	M16

Bore/Symbol	M	N	O	P	Q	R	S	T	V	W
32	13	12	G1/8"	6	8	6	45.5	33	12	10
40	13	12	G1/4"	6	8	7	50	37	16	13
50	13	12	G1/4"	7	8	8	62	47	20	17
63	13	14	G3/8"	7	8	8	75	56	20	17
80	14	16	G3/8"	10	10	14	94	70	25	22
100	16	16	G1/2"	10	10	11	112	84	25	22
125	15	17	G1/2"	11	6	11	140	110	32	27
160	18	24	G1/2"	11	5	12	178	140	40	36
200	18	24	G1/2"	12	6	11	220	175	40	36

FA, FB Dimension

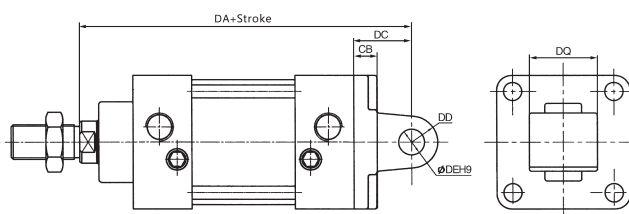
■ $\Phi 32 \sim \Phi 200$



Bore/Symbol	BA	BB	BC	BD	BE	BF	BP
32	15	10	47	33	80	58	7
40	15	10	53	36	90	70	7
50	15	10	65	47	104	86	9
63	14	12	75	56	118	98	9
80	19	16	95	70	140	119	11
100	19	16	115	84	160	138	11
125	27	20	139	90	218	180	16.5
160	30	20	180	115	280	230	18.5
200	29	25	220	135	320	270	22

CA Dimension

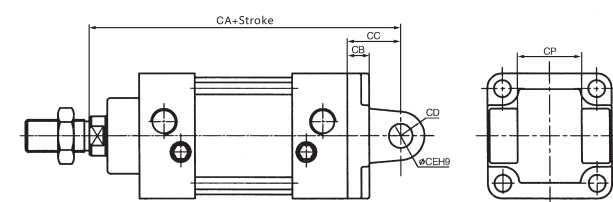
■ $\Phi 32 \sim \Phi 200$



Bore/Symbol	DA	DC	CB	DD	ΦDE	DQ
32	152	34	9	10.5	12	16
40	152	34	9	11.5	14	20
50	152	34	10	12	14	20
63	155	34	10	12.5	14	20
80	191.5	48	14	16.5	20	32
100	196	48	14	17	20	32
125	221	50	15	22	25	70
160	250	55	20	30	30	90
200	261	60	25	30	30	90

CB Dimension

■ $\Phi 32 \sim \Phi 200$



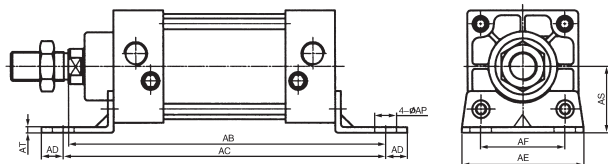
Bore/Symbol	CA	CC	CB	CD	ΦCE	CP
32	137	19	9	10.5	12	16
40	137	19	9	11.5	14	20
50	137	19	10	12	14	20
63	140	19	10	12.5	14	20
80	175.5	32	14	16.5	20	32
100	180	32	14	17	20	32
125	221	50	15	25	25	70
160	250	55	20	30	30	90
200	261	60	25	30	30	90

Standard Cylinder

■ Dimension(mm):

LB Dimension

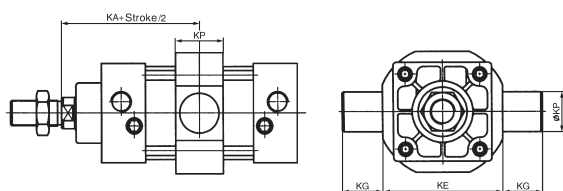
■ $\Phi 32 \sim \Phi 200$



Bore/Symbol	AB	AC	AD	AE	AF	AS	AT	AP
32	138.5	134	9.5	50	33	28	3	9
40	141.5	140	14.5	57	36	30	3	12
50	146	149	12	68	47	36.5	3	12
63	153	158	13	80	56	41	3	12
80	172.5	167	16	97	70	49	4	14
100	178	173	18	112	84	57	4	14
125	216	214	15	140	90	90	5	16
160	230.5	216	35	178	115	115	5	18
200	265.5	275	26.5	220	175	135	6	22

TC Dimension

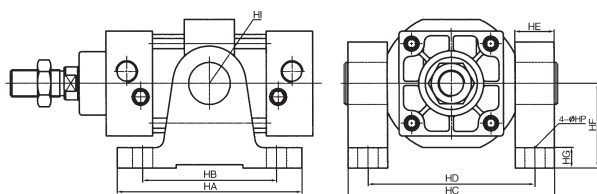
■ $\Phi 32 \sim \Phi 200$



Bore/Symbol	KE	KG	KP	KA	KB
32	55	16	16	71.5	30
40	63	25	25	71.5	30
50	76	25	25	71.5	29
63	88	25	25	73	30
80	114	25	25	89	35
100	132	25	25	92	40
125	158	25	30	109	39
160	205	32	32	120	38
200	248	35	36	130	50

TC Foot mounting typeDimension

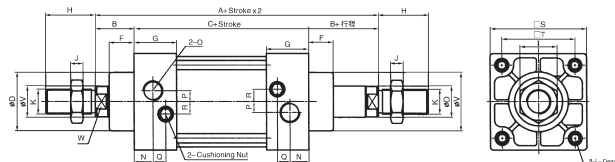
■ $\Phi 40 \sim \Phi 100$



Bore/Symbol	HA	HB	HC	HD	HE	HF	HG	HP
40	103	80	109	86	23	50	12	11
50	103	80	122	99	23	50	12	11
63	103	80	134	111	23	70	12	13
80	110	85	160	137	23	70	12	13
100	110	85	178	155	23	70	12	13

SCD Standard Dimension

■ $\Phi 32 \sim \Phi 200$

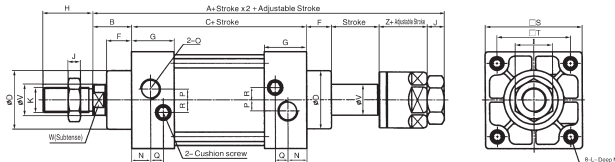


Bore/Symbol	A	B	C	D	F	G	H	I	J	K	L
32	143	25	93	28	15	27.5	22	17	6	M10×1.25	M6
40	143	25	93	32	15	27.5	24	17	7	M12×1.25	M6
50	143	25	93	38	16	27.5	32	23	8	M16×1.5	M6
63	147	26	96	38	16	27.5	32	23	8	M16×1.5	M8
80	178	35	108	43	21	33	40	26	10	M20×1.5	M10
100	183	35	113	43	21	33	40	26	10	M20×1.5	M10
125	218	47	124	56	32	32	45	41	11	M27×2	M12
160	245	50	145	64	32	40	50	55	13	M36×2	M16
200	256	54	148	66	35	41	60	55	13	M36×2	M16

Bore/Symbol	M	N	O	P	Q	R	S	T	V	W
32	13	12	G1/8"	6	8	6	45.5	33	12	10
40	13	12	G1/4"	6	8	7	50	37	16	13
50	13	12	G1/4"	7	8	8	62	47	20	17
63	13	14	G3/8"	7	8	8	75	56	20	17
80	14	16	G3/8"	10	10	14	94	70	25	22
100	16	16	G1/2"	10	10	11	112	84	25	22
125	15	17	G1/2"	11	6	11	140	110	32	27
160	18	24	G1/2"	11	5	12	178	140	40	36
200	18	24	G1/2"	12	6	11	220	175	40	36

SCJ Standard Dimension

■ Φ32~Φ200



Bore/Symbol	A	B	C	D	F	G	H	I	J	K	L
32	160	25	93	28	15	27.5	22	17	6	M10×1.25	M6
40	161	25	93	32	15	27.5	24	17	7	M12×1.25	M6
50	165	25	93	38	16	27.5	32	23	8	M16×1.5	M6
63	168	26	96	38	16	27.5	32	23	8	M16×1.5	M8
80	203	35	108	43	21	33	40	26	10	M20×1.5	M10
100	208	35	113	43	21	33	40	26	10	M20×1.5	M10
125	249	47	124	56	32	32	45	41	11	M27×2	M12
160	280	50	145	64	32	40	50	55	13	M36×2	M16
200	290	54	148	66	35	41	60	55	13	M36×2	M16

Bore/Symbol	M	N	O	P	Q	R	S	T	V	W	Z
32	13	12	G1/8"	6	8	6	45.5	33	12	10	2
40	13	12	G1/4"	6	8	7	50	37	16	13	21
50	13	12	G1/4"	7	8	8	62	47	20	17	23
63	13	14	G3/8"	7	8	8	75	56	20	17	23
80	14	16	G3/8"	10	10	14	94	70	25	22	29
100	16	16	G1/2"	10	10	11	112	84	25	22	29
125	15	17	G1/2"	11	6	11	140	110	32	27	35
160	18	24	G1/2"	11	5	12	178	140	40	36	40
200	18	24	G1/2"	12	6	11	220	175	40	36	40

Lockable Cylinder



Specification:

Type	40	50	63	80	100	125	160	200
Motion	Double acting							
Series	SZA, SZB							
Fluid	Compressed air							
Working pressure range (MPa)	0.1~1							
Operating speed (mm/sec)	50~500							
Ambient temperature (°C)	-10~70							
Cushion	Adjustable cushion at both ends							
Port size (G)	1/4"		3/8"		1/2"			

How to order:

SZA 50 × 100 FA S

Specification

- SZA: Front cover with lock Cylinder
- SZB: Back cover with lock Cylinder

Bore

Φ40	Φ100
Φ50	Φ125
Φ63	Φ160
Φ80	Φ200

Stroke

10	20	30	40	50	60	70	80	90	100	125	150	175	200	250	300	350	400	450	500
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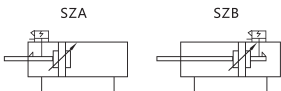
Magnet code

- S1: with magnet + 1pc magnet switch
- S2: with magnet + 2pc magnet switch
- S3: heat resisting seal ring, max temp. 150°C
- S4: acid resisting piston rod

Mounting type

Blank(Standard)

Symbol:



Product feature:

- 1. Front and rear caps are finished by aluminum die-casting, CNC mechanically processed with high precision.
- 2. Aluminum tube is imported, stainless forever with friction & corrosion resistance.
- 3. Adopt imported none lubrication, long time service and no need lubrication maintenance.
- 4. Unique cushion technique makes smooth action.
- 5. May add the sensor equipment to easily control.

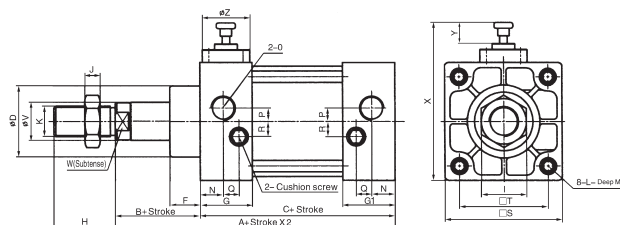
Inner structure drawing:

SZA type

Number	Name	Number	Name
1	Hexagonal nut	16	Gasket
2	Piston rod	17	O-ring
3	Dustproof sealing ring	18	Piston
4	Composite bearing	19	Cylinder barrel
5	Front cover	20	C-ring
6	Composite bearing	21	Magnet
7	Y-ring	22	Wearing ring
8	Pressure ring	23	Hexagon socket cap screws
9	Hexagon socket cap screws	24	Elastic washer
10	Lock cover	25	D-ring
11	Handle	26	Buffer sealing ring
12	Spring	27	Rear cover
13	Fenders	28	Buffer adjusting screw
14	Steel wire retaining ring for shaft	29	Pull rod
15	Lock shaft	30	Pull rod nut

■ Dimension(mm):

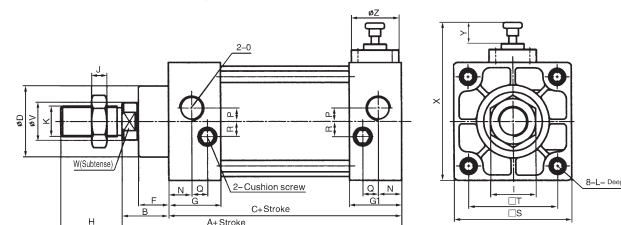
■ $\Phi 40 \sim \Phi 200$



Bore/Symbol	A	B	C	D	F	G	G1	H	I	I	K	L
40	120.5	25	95.5	32	15	30	27.5	24	17	7	M12×1.25	M6
50	122	25	97	38	16	31.5	27.5	32	23	8	M16×1.5	M6
63	125	26	99	38	16	31.5	27.5	32	23	8	M16×1.5	M8
80	148	35	113	43	21	39	33	40	26	10	M20×1.5	M10
100	154	35	119	43	21	39	33	40	26	10	M20×1.5	M10
125	181	47	134	56	32	42	32	45	41	11	M27×2	M12
160	197	50	147	64	32	42	40	50	55	13	M36×2	M16
200	211	54	157	66	35	50	42	60	55	13	M36×2	M16

Bore/Symbol	M	N	O	P	Q	R	S	T	V	W	X	Y	Z
40	16	12	G1/4"	6	8	7	50	37	16	13	71	10	25
50	16	12	G1/4"	7	8	8	62	47	20	17	83	10	30
63	16	14	G3/8"	7	8	8	75	56	20	17	96	8	30
80	18	16	G3/8"	10	10	14	94	70	25	22	116	8	33
100	18	16	G1/2"	10	10	11	112	84	25	22	134	8	33
125	15	17	G1/2"	11	6	11	140	110	32	27	165	10	40
160	18	24	G1/2"	11	5	12	178	140	40	36	205	10	40
200	18	24	G1/2"	12	6	11	220	175	40	36	247	10	47

■ Φ40~Φ200



Bore/Symbol	A	B	C	D	F	G	G1	H	I	I	K	L
40	120.5	25	95.5	32	15	27.5	30	24	17	7	M12×1.25	M6
50	122	25	97	38	16	27.5	31.5	32	23	8	M16×1.5	M6
63	125	26	99	38	16	27.5	31.5	32	23	8	M16×1.5	M8
80	148	35	113	43	21	33	39	40	26	10	M20×1.5	M10
100	154	35	119	43	21	33	39	40	26	10	M20×1.5	M10
125	181	47	134	56	32	32	42	45	41	11	M27×2	M12
160	197	50	147	64	32	40	42	50	55	13	M36×2	M16
200	211	54	157	66	35	42	50	60	55	13	M36×2	M16

Bore/Symbol	M	N	O	P	Q	R	S	T	V	W	X	Y	Z
40	16	12	G1/4"	6	8	7	50	37	16	13	71	10	25
50	16	12	G1/4"	7	8	8	62	47	20	17	83	10	30
63	16	14	G3/8"	7	8	8	75	56	20	17	96	8	30
80	18	16	G3/8"	10	10	14	94	70	25	22	116	8	33
100	18	16	G1/2"	10	10	11	112	84	25	22	134	8	33
125	15	17	G1/2"	11	6	11	140	110	32	27	165	10	40
160	18	24	G1/2"	11	5	12	178	140	40	36	205	10	40
200	18	24	G1/2"	12	6	11	220	175	40	36	247	10	47

Standard Cylinder



Specification:

Type	32	40	50	63	80	100
Motion	Double acting					
Series	GPM					
Fluid	Compressed air					
Working pressure range (MPa)	0.1~1					
Operating speed (mm/sec)	50~500					
Ambient temperature (°C)	-10~70					
Cushion	Adjustable cushion at both ends					
Port size (G)	1/8"	1/4"	3/8"	1/2"		

How to order:

GPM 50 × 100 FA S

Specification

GPM: Standard Cylinder

Bore

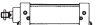
Φ40	Φ100
Φ50	Φ125
Φ63	Φ160

Stroke

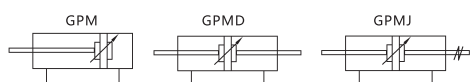
Magnet code

S1:with magnet + 1pc magnet switch
S2:with magnet + 2pc magnet switch
S3:heat resisting seal ring, max temp.150°C
S4:acid resisting piston rod

Mounting type

Blank(Standard)	
FA	
FB	
CA	
CB	
LB	
TC	

Symbol:



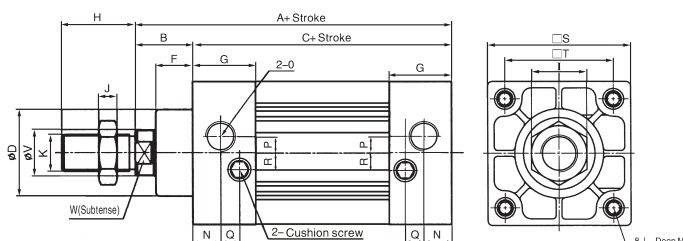
Product feature:

1. The front and rear covers are finished by aluminum die-casting and CNC mechanically processed, with high precision and international standard quality.
2. With aluminum tube used, it's friction and corrosion resistant and stainless forever.
3. Adopt imported non oil feeding and seal to have long time service and no lubricating maintenance.
4. Unique cushion design makes the machines work more smoothly.
5. Sensor equipment can be added to make the electrical wiring and control easily.
6. With no pull rod and good corrosion resistance.

Inner structure drawing:

Standard Cylinder

Φ32~Φ100



Bore/Symbol	A	B	C	D	F	G	H	I	J	K	L
32	118	25	93	28	15	27.5	22	17	6	M10×1.25	M6
40	118	25	93	32	15	27.5	24	17	7	M12×1.25	M6
50	118	25	93	38	16	27.5	32	23	8	M16×1.5	M6
63	121	26	96	38	16	27.5	32	23	8	M16×1.5	M8
80	143	35	108	43	21	33	40	26	10	M20×1.5	M10
100	148	35	113	43	21	33	40	26	10	M20×1.5	M10

Bore/Symbol	M	N	O	P	Q	R	S	T	V	W
32	13	12	G1/8"	6	8	6	45.5	33	12	10
40	13	12	G1/4"	6	8	7	50	37	16	13
50	13	12	G1/4"	7	8	8	62	47	20	17
63	13	14	G3/8"	7	8	8	75	56	20	17
80	14	16	G3/8"	10	10	14	94	70	25	22
100	16	16	G1/2"	10	10	11	112	84	25	22

Note: The sizes of accessories are same as SC's

QGB Series Cylinder



Standard Cylinder



Specification:

Type	32	40	50	63	80	100	125	160
Motion	Double acting							
Series	QGB							
Fluid	Compressed air							
Working pressure range (MPa)	0.1~1							
Operating speed(mm/sec)	50~500							
Ambient temperature(°C)	-10~70							
Cushion	Adjustable cushion at both ends							
Port size (G)	1/8"	1/4"	3/8"	1/2"		3/4"		

How to order:

QGB 50 × 100 FA S

Specification
QGB: Standard Cylinder

Bore

Φ32	Φ80
Φ40	Φ100
Φ50	Φ125
Φ63	Φ160

Stroke

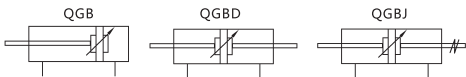
Magnet code

S1:with magnet + 1pc magnet switch
S2:with magnet + 2pc magnet switch
S3:heat resisting seal ring, max temp.150°C
S4:acid resisting piston rod

Mounting type

Blank(Standard)	
FA	
CA	
LB	
CB	

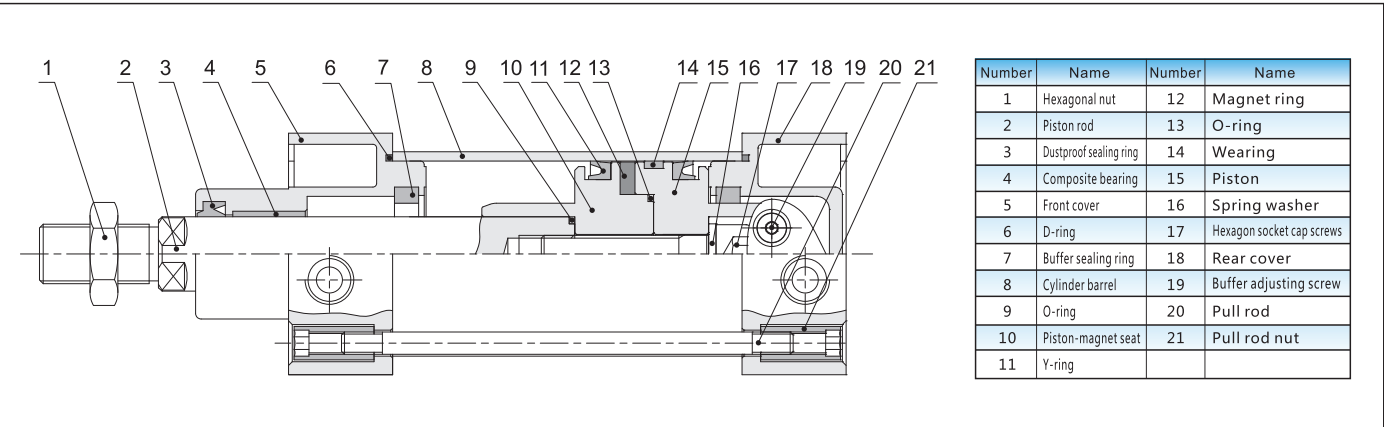
Symbol:



Product feature:

1. Front and rear caps are finished by aluminum die-casting, CNC mechanically processed with high precision.
2. Adopt imported none lubrication, long time service and no need lubrication maintenance.
3. Unique cushion technique makes smooth action.
4. May add the sensor equipment to easily control.

Inner structure drawing:

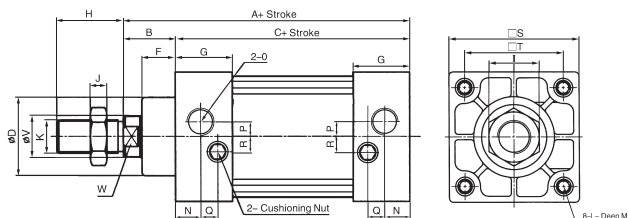


Standard Cylinder

Dimension(mm):

Standard Dimension

■ $\Phi 32 \sim \Phi 160$

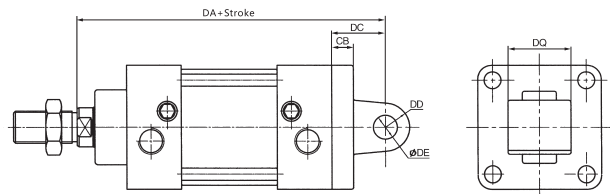


Bore/Symbol	A	B	C	D	F	G	H	I	J	K	L
32	118	25	93	28	15	27.5	22	17	6	M10×1.25	M6
40	135	30	105	30	23	28	24	17	7	M12×1.25	M6
50	145	35	110	35	25	28	32	23	8	M16×1.5	M6
63	162	37	125	40	25	32	32	23	8	M16×1.5	M8
80	174	46	128	50	30	32	40	26	10	M20×1.5	M10
100	189	51	138	50	35	37.5	40	26	10	M20×1.5	M10
125	225	65	160	60	44.5	46.5	54	41	11	M27×2	M12
160	260	80	180	65	48	50	72	55	13	M36×2	M16

Bore/Symbol	M	N	O	P	Q	R	S	T	V	W
32	14	11	G1/8"	6	9	6	45.5	35	12	10
40	14	11	G1/4"	7	9	7	53	42	16	13
50	14	11	G1/4"	7	9	7	65	48	20	17
63	14	14	G3/8"	8	10	8	80	58	20	17
80	16	14	G3/8"	12	10	10	100	75	25	22
100	17	16	G1/2"	12	13	10	120	90	25	22
125	18	23	G1/2"	12	13	18	136	110	32	27
160	18	24	G3/4"	12	13	22	180	145	40	36

CA Dimension

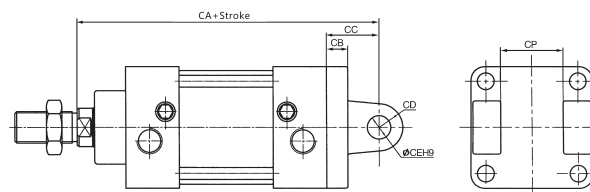
■ $\Phi 32 \sim \Phi 160$



Bore/Symbol	DA	DC	CB	DD	ΦDE	DQ
32	140	22	10	10	10	26
40	160	25	10	12	12	28
50	170	25	10	12	12	32
63	190	32	12	15	16	40
80	210	36	16	15	16	50
100	230	41	16	20	20	60
125	275	53	20	25	25	70
160	315	57	20	30	30	90

CB Dimension

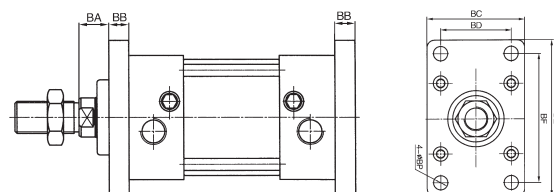
■ $\Phi 32 \sim \Phi 160$



Bore/Symbol	CA	CC	CB	CD	ΦCE	CP
32	140	22	10	10	10	26
40	160	25	10	12	12	28
50	170	25	10	12	12	32
63	190	32	12	15	16	40
80	210	36	16	15	16	50
100	230	41	16	20	20	60
125	275	53	20	25	25	70
160	315	57	20	30	30	90

FA Dimension

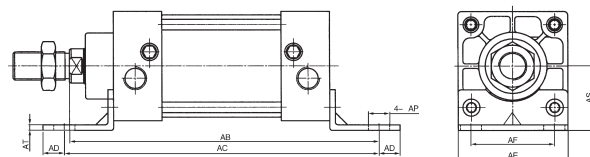
■ $\Phi 32 \sim \Phi 160$



Bore/Symbol	BA	BB	BC	BD	BE	BF	BP
32	15	10	48	33	80	64	7
40	20	10	55	36	90	72	9
50	25	10	65	45	110	90	9
63	25	12	80	50	25	100	9
80	30	16	100	63	155	126	12
100	35	16	115	75	180	150	14
125	45	20	145	90	215	180	16
160	60	20	190	115	270	230	18

LB Dimension

■ $\Phi 32 \sim \Phi 160$



Bore/Symbol	AB	AC	AD	AE	AF	AP	AS	AT
32	142.5	142	11	48	32	7	32	4
40	163	161	12	55	36	9	36	5
50	175	170	15	65	45	9	45	6
63	190	185	13	80	50	9	50	6
80	215	210	19	100	63	12	63	8
100	230	220	19	115	75	14	75	8
125	270	250	25	145	90	16	90	8
160	320	300	30	190	115	18	115	10



Standard Cylinder

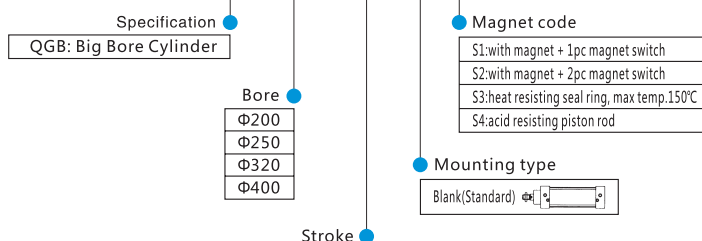


Specification:

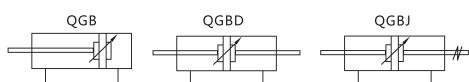
Type	200	250	320	400
Motion	Double acting			
Series	QGB			
Fluid	Compressed air			
Working pressure range (MPa)	0.1~1			
Operating speed(mm/sec)	50~500			
Ambient temperature(°C)	-10~70			
Cushion	Adjustable cushion at both ends		—	
Port size (G)	3/4"		1"	

How to order:

QGB 200 × 320 FA S



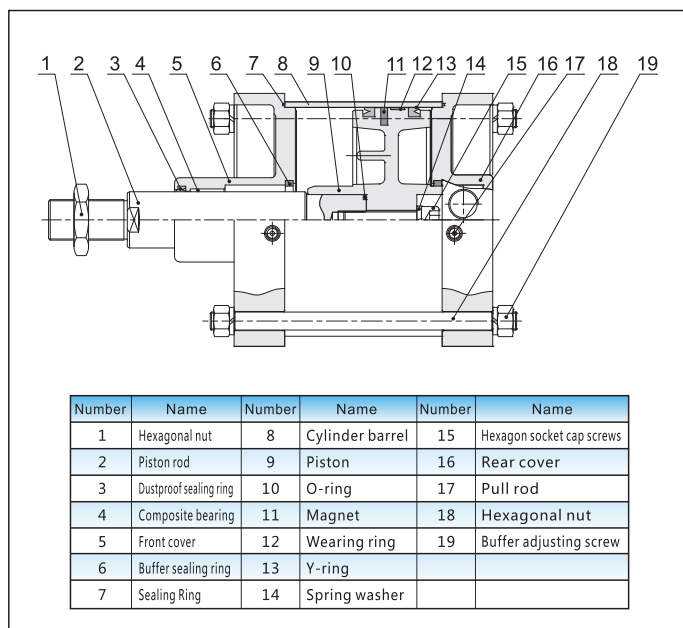
Symbol:



Product feature:

- 1.CNC mechanically processed with high precision. Quality meet international standard.
- 2.Adopt imported none lubrication,long time service and no need lubrication maintenance.
- 3.Unique cushion technique makes smooth action.

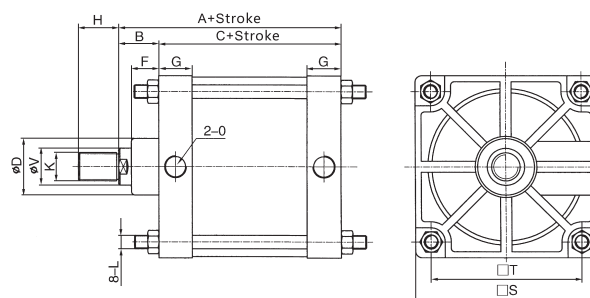
Inner structure drawing:



Dimension(mm):

Standard Dimension

Φ200~Φ400



Bore/Symbol	A	B	C	D	F	G	H	K	L	O	S	T	V
200	275	95	180	75	53	45	70	M36×2	M16	G3/4"	225	180	50
250	230	60	170	84	40	50	60	M42×2	M20	G1"	270	225	50
320	325	110	215	105	75	60	75	M48×2	M24	G1"	350	280	63
400	351	115	236	120	75	63	100	M60×2	M30	G1"	430	350	80

Note: QGB320 and QGB400 are without magnet.

Standard Cylinder



Specification:

Type	32	40	50	63	80	100	125	160
Motion	Double acting							
Series	QGBQ							
Fluid	Compressed air							
Working pressure range(MPa)	0.1~1							
Operating speed(mm/sec)	50~500							
Ambient temperature(°C)	-10~70							
Cushion	Adjustable cushion at both ends							
Port size (G)	1/8"	1/4"	3/8"	1/2"				

How to order:

QGBQ 50 × 100 FA S AB

Specification
QGBQ: Standard Cylinder

Bore	Φ32	Φ63
	Φ40	Φ80
	Φ50	Φ100

Stroke

Mounting type

Blank(Standard)	
FA	
FB	
CA	
CB	
LB	
TC	

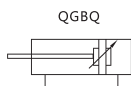
Position of port and cushion
Blank

Port A and Cushion B
Port B and Cushion C
Port B and Cushion A
Port C and Cushion B

Magnet code

S1:with magnet + 1pc magnet switch
S2:with magnet + 2pc magnet switch
S3:heat resisting seal ring, max temp.150°C
S4:acid resisting piston rod

Symbol:



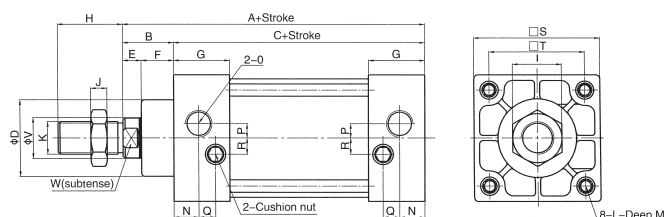
Product feature:

- 1.Front and rear caps are finished by aluminum die-casting,CNC mechanically processed with high precision.
- 2.Aluminum tube is imported, stainless forever with friction& corrosion resistance .
- 3.Adopt imported none lubrication, long time service and no need lubrication maintenance.
- 4.Unique cushion technique makes smooth action.
- 5.May add the sensor equipment to easily control.

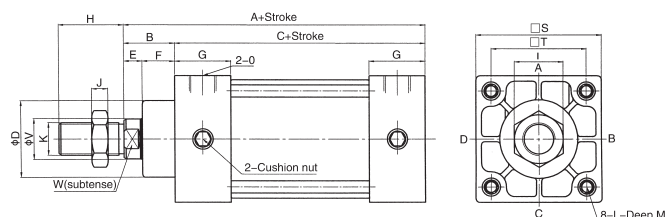
Inner structure drawing:

Standard Dimension

Φ32~Φ100



Φ125~Φ160



Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L
32	118	25	93	28	10	15	27.5	22	17	6	M10×1.25	M6
40	118	25	93	32	10	15	27.5	24	17	7	M12×1.25	M6
50	118	25	93	37.5	9	16	27.5	32	23	8	M16×1.5	M6
63	121	26	95	38	10	16	27.5	32	23	8	M16×1.5	M8
80	143	35	107	43	15.5	21	33	40	26	10	M20×1.5	M10
100	143	35	108	43	15.5	21	33	40	26	10	M20×1.5	M10
125	149	35	114	52	14	21	38	54	38	11	M27×2	M12
160	157	41	116	62	16	25	38	72	50	13	M36×2	M16

Bore/Symbol	M	N	O	P	Q	R	S	T	V	W
32	13	12	G1/8"	6	8	6	45.5	33	12	10
40	13	12	G1/4"	6	8	7	50	37	16	13
50	13	12	G1/4"	7	8	8	62	47	20	17
63	13	14	G3/8"	7	8	8	75	56	20	17
80	14	16	G3/8"	10	10	14	94	70	25	22
100	16	16	G1/2"	10	10	11	112	84	25	22
125	15	-	G1/2"	-	-	-	138	104	32	27
160	18	-	G1/2"	-	-	-	178	134	40	36

ISO15552 Standard Cylinder



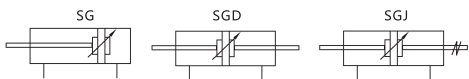
Specification:

Type	125	160	200	250
Motion	Double acting			
Series	SG, SGD, SGJ			
Fluid	Compressed air			
Working pressure range (MPa)	0.1~1			
Operating speed(mm/sec)	50~500			
Ambient temperature(°C)	-10~70			
Cushion	Adjustable cushion at both ends			
Port size (G)	1/2"	3/4"	1"	

How to order:

SG 125 × 50 FA S			
Specification	Bore	Stroke	Magnet code
			S1:with magnet + 1pc magnet switch
			S2:with magnet + 2pc magnet switch
			S3:heat resisting seal ring, max temp.150°C
SG: Standard Cylinder SGD: Double axial Cylinder SGJ: Double adjustable Cylinder	Φ125 Φ160 Φ200 Φ250		S4:acid resisting piston rod
			Mounting type
			Blank(Standard)
			FA
			FB
			CA
			CB
			LB
			TC

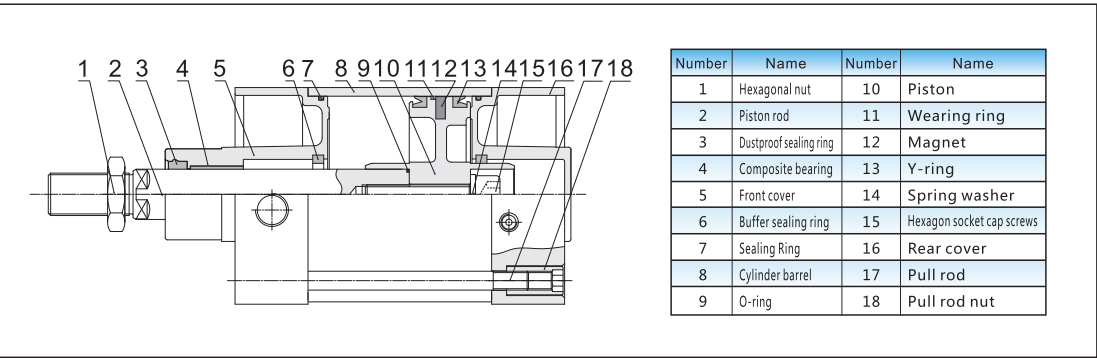
Symbol:



Product feature:

- 1.ISO 15552 (original ISO6431) standard cylinder.
- 2.The piston seal adopts two Y type one-way seal structure with compensation function, long service life and low starting pressure.
- 3.Cushion adjustment of cylinder is stable.
- 4.Various standard cylinders and installing accessories are optional for customers.
- 5.Choosing high temperature resistant seal materials to ensure cylinders can work normally under the temperature of 150°C.
- 6.SG series cylinder is aluminum tube type. Steel pipe type cylinder is also optional.

Inner structure drawing:

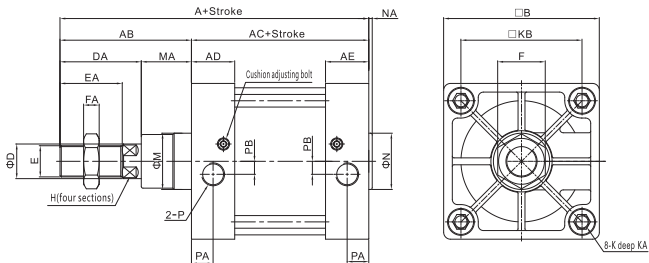


ISO15552 Standard Cylinder

Dimension(mm):

SG Standard Dimension

Φ125~Φ250



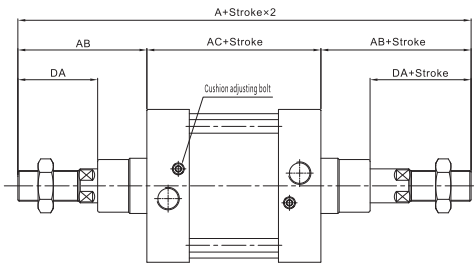
Bore/Symbol	A	AB	AC	AD	AE	B	D	DA	E	EA	F
125	279	119	160	46	46	140	32	74	M27×2	54	41
160	332	152	180	50	50	180	40	94	M36×2	72	55
200	347	167	180	50	50	220	40	100	M36×2	72	55
250	389	189	200	58	58	282	50	111	M42×2	84	65

Bore/Symbol	FA	H	K	KA	KB	M	MA	N	NA	P	PA	PB
125	13.5	27	M12	20	110	60	45	60	4	G1/2"	23	14
160	18	36	M16	24	140	65	58	65	4	G3/4"	25	15
200	18	36	M16	24	175	75	67	75	5	G3/4"	25	15
250	21	46	M20	25	220	90	78	90	8	G1"	31	22

Notes:With or without magnet, the dimensions are the same..

SGD Standard Dimension

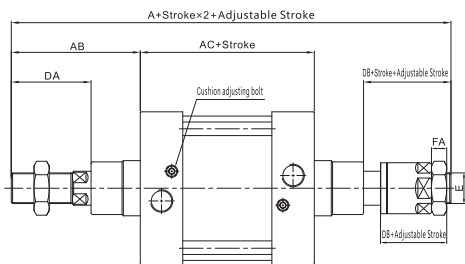
Φ125~Φ250



Bore/Symbol	A	AB	AC	DA
125	398	119	160	74
160	484	152	180	94
200	514	167	180	100
250	578	189	200	111

SGD Standard Dimension

Φ125~Φ250



Bore/Symbol	A	AB	AC	DA	DB	E	FA
125	366.5	119	160	74	42.5	M27×2	13.5
160	458	152	180	94	68	M36×2	18
200	482	167	180	100	68	M36×2	18
250	547	189	200	111	80	M42×2	21

Notes:1. With or without magnet, the dimensions are the same.
2. The unmarked dimension is the same as SG Standard type.



SG

JSI Series Cylinder

Standard Cylinder



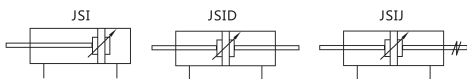
Specification:

Type	32	40	50	63	80	100	125
Motion	Double acting						
Series	JSI, JSID, JSIJ						
Fluid	Compressed air						
Working pressure range (MPa)	0.1~1						
Operating speed(mm/sec)	50~800						
Ambient temperature(°C)	-20~80						
Cushion	Adjustable cushion at both ends						
Port size (G)	1/8"	1/4"	3/8"	1/2"			

How to order:

JSI 80 × 50 FA S									
Specification			Bore			Magnet code			
JSI: Standard Cylinder			Φ32			S1:with magnet + 1pc magnet switch			
JSID: Double axial Cylinder			Φ40			S2:with magnet + 2pc magnet switch			
JSIJ: Double adjustable Cylinder			Φ50			S3:heat resisting seal ring, max temp.150°C			
			Φ63			S4:acid resisting piston rod			
						Mounting type			
						Blank(Standard)			
						FA			
						FB			
						CA			
						CB			
						LB			
						TC			

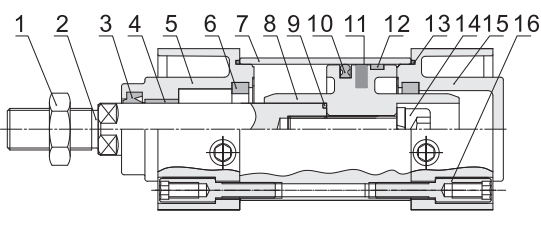
Symbol:



Product feature:

- 1.JIS standard cylinder.
- 2.The piston seal adopts special two-way sealing structure with compact size and oil storing function.
- 3.JSI series cylinder is aluminum tube M type, with no pull rod and good corrosion resistance.
- 4.Cushion adjustment of cylinder is stable.
- 5.Various standard cylinders and installing accessories are optional for customers.
- 6.Choosing high temperature resistant seal materials to ensure cylinders can work normally under the temperature of 150°C.

Inner structure drawing:



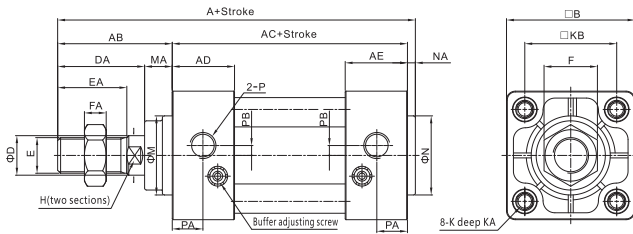
Number	Name	Number	Name
1	Hexagonal nut	9	O-ring
2	Piston rod	10	Sealing Ring
3	Dustproof sealing ring	11	Magnet
4	Composite bearing	12	Wearing ring
5	Front cover	13	O-ring
6	Buffer sealing ring	14	Hexagon socket cap screws
7	Cylinder barrel	15	Rear cover
8	Piston	16	End cover screw

Standard Cylinder

Dimension(mm):

JSI Standard Dimension

■ $\Phi 32 \sim \Phi 125$



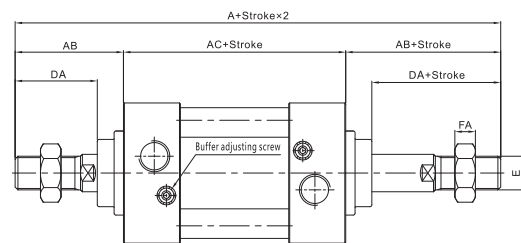
Bore/Symbol	A	AB	AC	AD	AE	B	D	DA	E	EA	F	FA	H	M	MA
32	135	47	84	27	27	46	12	34	M10×1.25	22	17	6	10	30	13
40	139	51	84	27	27	52	16	38	M14×1.5	30	19	8	14	35	13
50	156	58	94	31.5	31.5	65	20	44	M18×1.5	35	27	11	18	40	14
63	156	58	94	30.5	30.5	75	20	44	M18×1.5	35	27	11	18	45	14
80	190	72	114	38	38	95	25	52	M22×1.5	40	32	13	22	45	20
100	190	72	114	38	38	114	30	52	M26×1.5	40	36	13	26	55	20
125	223	97	120	38	38	137	32	70	M27×2	54	41	13.5	27	60	27

Bore/Symbol	K(Without TC)	K(With TC)	KA(Without TC)	KA(With TC)	KB	N	NA	P	PA	PB
32	M6	M5	16	14	32.5	30	4	G1/8"	13	4
40	M6	M5	16	14	38	35	4	G1/4"	14	4
50	M8	M6	16	16	46.5	40	4	G1/4"	15.5	5
63	M8	M6	16	16	56.5	45	4	G3/8"	16.5	9
80	M10	M8	16	16	72	45	4	G3/8"	19	11.5
100	M10	M8	16	16	89	55	4	G1/2"	19	17
125	M12	M12	20	18	110	60	6	G1/2"	19	17

Notes: With or without magnet, the dimensions are the same..

JSID Standard Dimension

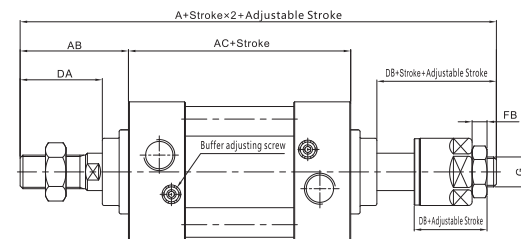
■ $\Phi 32 \sim \Phi 125$



Bore/Symbol	A	AB	AC	DA	E	FA
32	178	47	84	34	M10×1.25	6
40	186	51	84	38	M14×1.5	8
50	210	58	94	44	M18×1.5	11
63	210	58	94	44	M18×1.5	11
80	258	72	114	52	M22×1.5	13
100	258	72	114	52	M26×1.5	13
125	314	97	120	70	M27×2	13.5

JSIJ Standard Dimension

■ $\Phi 32 \sim \Phi 125$



Bore/Symbol	A	AB	AC	DA	DB	FB	G
32	171	47	84	34	27	6	M10×1.25
40	176	51	84	38	28	7	M12×1.25
50	195	58	94	44	29	8	M16×1.5
63	195	58	94	44	29	8	M16×1.5
80	241.5	72	114	52	35.5	10	M20×1.5
100	248.5	72	114	52	42.5	13.5	M27×2
125	286.5	97	120	70	42.5	13.5	M27×2

Notes: 1. With or without magnet, the dimensions are the same.

2. The unmarked dimension is the same as SG Standard type.

QGBH Series Big Bore Cylinder



Clamp Cylinder



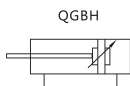
Specification:

Type	40	50	63	80
Port size	1/4"			3/8"
Fluid	Compressed air			
Working pressure range (MPa)	0.1~1			
Operating speed(mm/sec)	50~500			
Ambient temperature(°C)	5~60			
Cushion	Attach two sides			
Oil	Luicbration Needless(Oil spray luicbration)			
Mounting	Two Ears			

How to order:

QGBH A 50 × 75			
Specification QGBH: Clamp Cylinder	Clamp Cylinder	Bore	Stroke
			Φ50
			Φ50
A Series: 16.5	B Series: 19.5	Φ63	Φ80

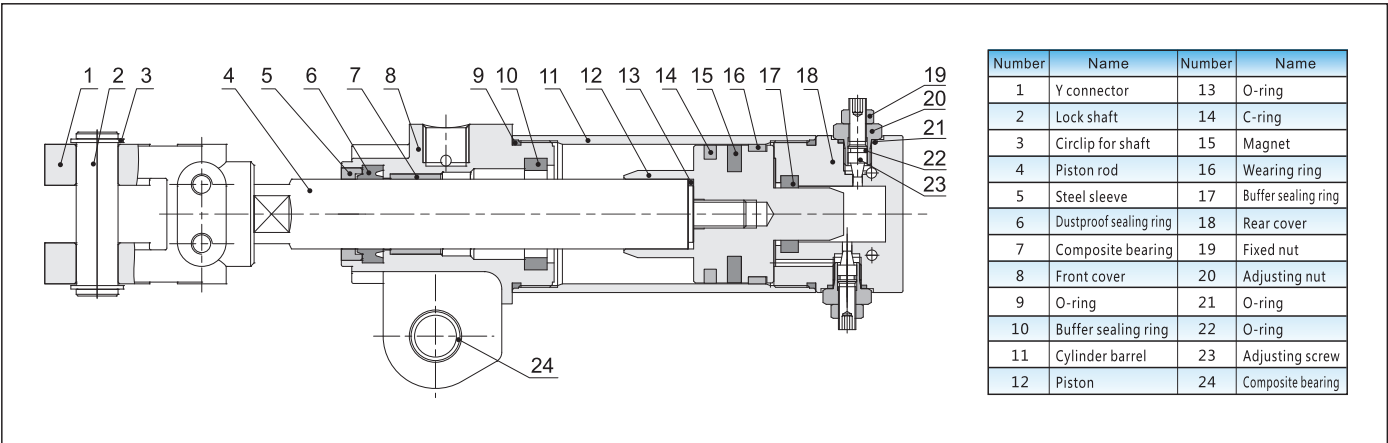
Symbol:



Product feature:

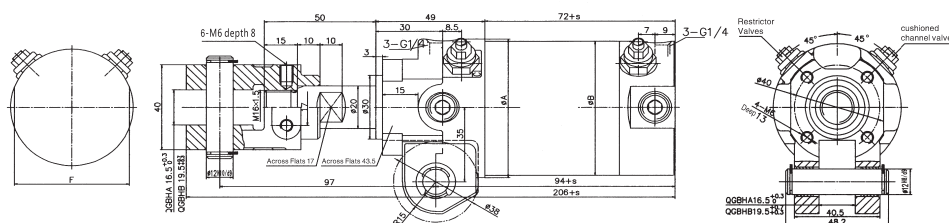
Front and rear caps are finished by aluminum die-casting,processed with high precision. Three side are settled air port,easy for installation,The flow-limiting valve in front and back sides,movement speed is adjustable .Adjustable air cushion in the front and back sides, Interface of double-toggle is special designing for welder when weld the car body.

Inner structure drawing:



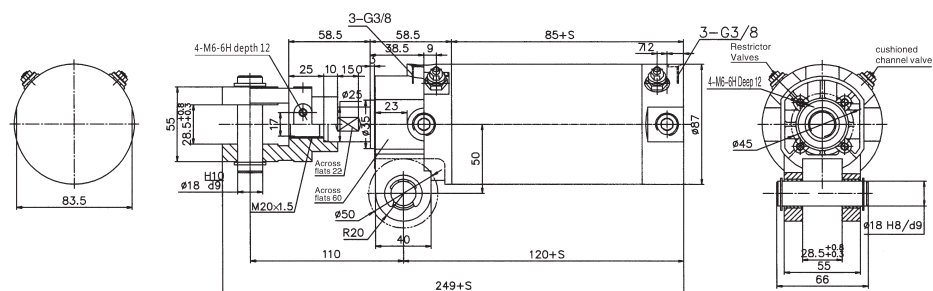
■ Dimension(mm):

QGBH40、50、63



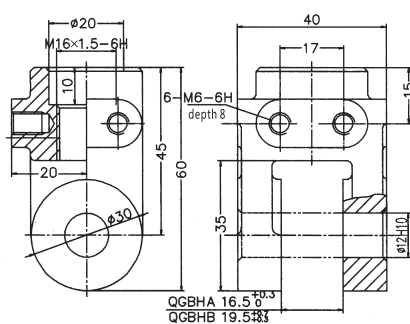
Bore	F	ΦA	ΦB
40	42	Φ52	Φ45
50	51.5	Φ60	Φ55
63	68.5	Φ74	Φ72

QGBH80

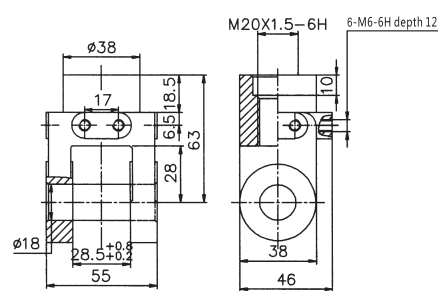


QGBH

QGBH40、50、63 Dimension of joint shape

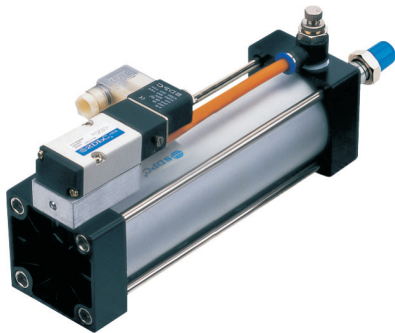


QGBH80 Dimension of joint shape



AVS Series Cylinder With Valve

Cylinder With Valve

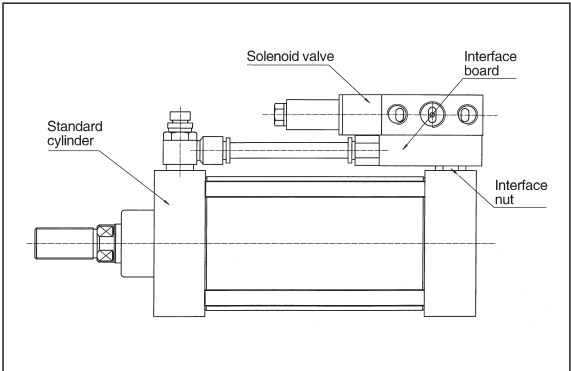


Product feature:

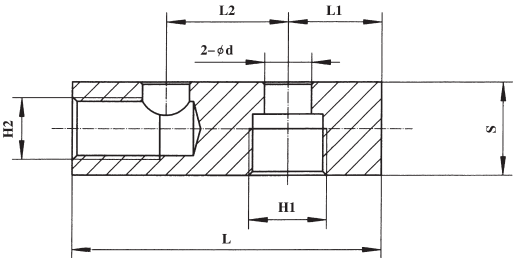
AVS assembly pedestal can directly set the valve on make one pneumatic working unit
 Attention:Min.stroke 100mm

Dimension(mm):

Assembly example

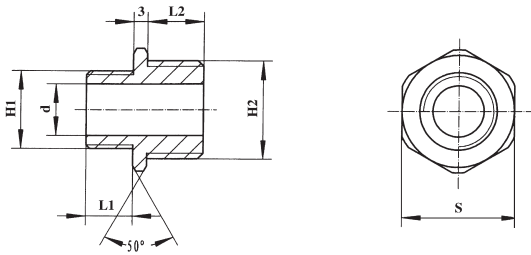


AVS Joint panel



Type	Bore optional	d	G1	G2	L	L1	L2	S	Olenoid Valve optional
32	32,40,50	7	G1/4"	G1/4"	50	13.5	23	20	4M210、4M220、4M230
40	63,80	10	G3/8"	G3/8"	66	20	26	20	4M310、4M320、4M330
50	100	12	G1/2"	G1/2"	104	29	36	34	4M410、4M420、4M430

AVSJ Connector



No	H1	H1	d	L1	L2	S
AVSJ1	G1/4"	G1/8"	5	7	7	14
AVSJ2	G1/4"	G1/4"	9	7	7	14
AVSJ3	G3/8"	G3/8"	11	7	10	17
AVSJ4	G1/2"	G1/2"	12	14	14	22

Accessories of Cylinder Joint

Accessories of Cylinder Joint

How to order:

Y M16 × 1.5

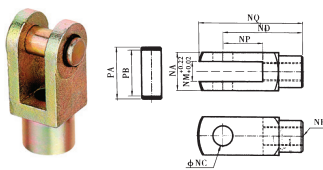
Joint Type

Y: Y Joint
I: I Joint
F: Float and Joint
SG: SG Type Y Joint
U: Fish eye joint

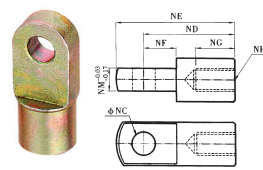
Threaded type

Joint Dimension(mm):

Y Joint

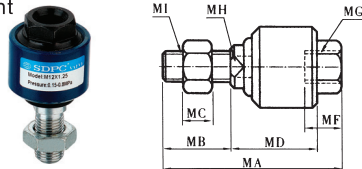


I Joint



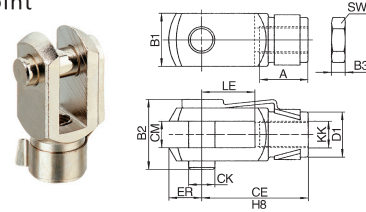
Type	Threaded Joint(M)	NA	NC	ND	NE	NG	NM	NP	NQ	PA	PB
Y-M10×1.25	M10×1.25	19	10	40	52	20	10	20	52	26.2	20
Y-M12×1.25	M12×1.25	25.4	12	48	67	20	12	24	62	32.8	26.5
Y-M16×1.5	M16×1.5	33	16	64	89	23	16	32	83	39.3	33
Y-M16×1.5	M16×1.5	33	16	64	89	23	16	32	83	39.3	33
Y-M20×1.5	M20×1.5	44.4	20	80	112	30	20	40	105	53.3	45
Y-M20×1.5	M20×1.5	44.4	20	80	112	30	20	40	105	53.3	45
Y-M27×2	M27×2	64	20	99	119	56	32	50	119	73	67
Y-M36×2	M36×2	82	28	125	155	72	41	60	155	90	83
Y-M36×2	M36×2	82	28	125	155	72	41	60	155	90	83

Float and Joint



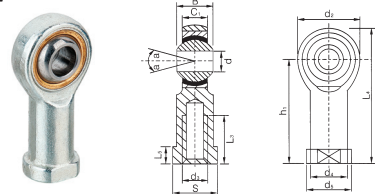
Type	MA	MB	MC	MD	MF	MG	MH	MI
F-M8×1.25	50	19	5	24	12	M8×1.25	8	M8×1.25
F-M10×1.25	60	22	7	30	15	M10×1.25	10	M10×1.25
F-M12×1.25	67	22	8	35.5	17	M12×1.25	12	M12×1.25
F-M14×1.5	73	22	8	42	17	M14×1.5	14	M14×1.5
F-M16×1.5	92	24.5	8	55.5	24	M16×1.5	17	M16×1.5
F-M18×1.5	92	24.5	8	41.5	24	M18×1.5	18	M18×1.5
F-M20×1.5	105	31	8	57.5	29	M20×1.5	22	M20×1.5
F-M27×2	121	35	10	71	34	M27×2	30	M27×2
F-M36×2	168	52	12	98	49	M36×2	36	M36×2

SG Type Y Joint



Type	Threaded Joint(M)	A	B1	B2	B3	CE/H8	CK	CM	D1	ER	LE	SW
SG-M6	M6	12	12	16	3.2	24	6	6	6	7	12	10
SG-M8	M8	16	16	21.5	4	32	8	8	8	10	16	13
SG-M10	M10	20	20	26	5	40	10	10	10	12	20	17
SG-M10×1.25	M10×1.25	20	20	26	5	40	10	10	10	12	20	17
SG-M12	M12	24	24	31	6	48	12	12	12	14	24	19
SG-M12×1.25	M12×1.25	24	24	31	6	48	12	12	12	14	24	19
SG-M16	M16	32	32	39	8	64	16	16	16	19	32	24
SG-M16×1.5	M16×1.5	32	32	39	8	64	16	16	16	19	32	24
SG-M20	M20	40	40	53	10	80	20	20	20	24	40	30
SG-M20×1.5	M20×1.5	40	40	53	10	80	20	20	20	25	40	30
SG-M27×2-B	M27×2-B	56	55	74	13.5	110	30	30	30	38	54	41
SG-M36×2	M36×2	56	70	90.5	18	144	35	35	35	44	72	55

Fish eye joint



Type	Threaded Joint(M)	d	d2	d5	S	B	L5	C1	h1	L3	d4	L4
U-M6×1	M6×1	6	20	13	11	9	5	6.75	30	12	10	45
U-M8×1.25	M8×1.25	8	24	16	14	12	5	9	36	16	12.5	48
U-M10×1.25	M10×1.25	10	28	19	17	14	6.5	10.5	43	20	15	57
U-M12×1.25	M12×1.25	12	32	22	19	16	6.5	12	50	22	17.5	66
U-M14×1.5	M14×1.5	14	36	25	22	19	8	13.5	57	25	20	75
U-M16×1.5	M16×1.5	16	40	27	22	21	8	15	64	28	22	84
U-M18×1.5	M18×1.5	18	46	31	27	23	10	16.5	71	32	25	94
U-M20×1.5	M20×1.5	20	50	34	30	25	10	18	77	33	27.5	102
U-M22×1.5	M22×1.5	22	54	37	32	28	12	20	84	37	30	111
U-M24×2	M24×2	25	60	42	30	31	12	22	94	42	33.5	124
U-M27×2	M27×2	28	66	46	41	35	14	26	103	41	37	136
U-M36×2	M36×2	35	70	50	41	43	15	25	130	51	40	145

附件

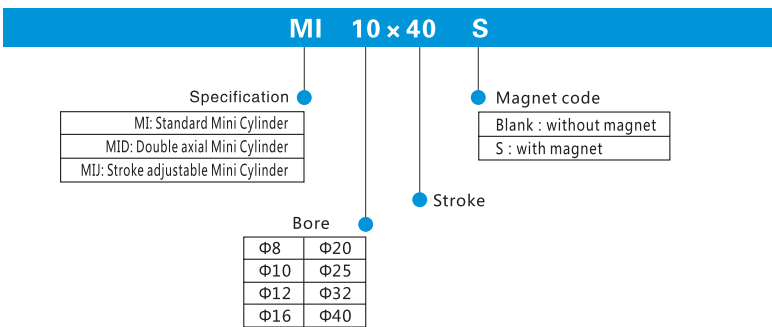
ISO6432 Standard Mini Cylinder



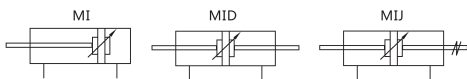
Specification:

Type	8	10	12	16	20	25	32	40
Motion	Double acting							
Series	MI, MID, MIJ							
Fluid	Compressed air							
Operating pressure range (Mpa)	0.1~1							
Operating speed(mm/sec)	50~800							
Ambient temperature(°C)	-20~80							
Cushion	Adjustable cushion at both ends							
Port size (G)	M5×0.8				1/8"		1/4"	

How to order:



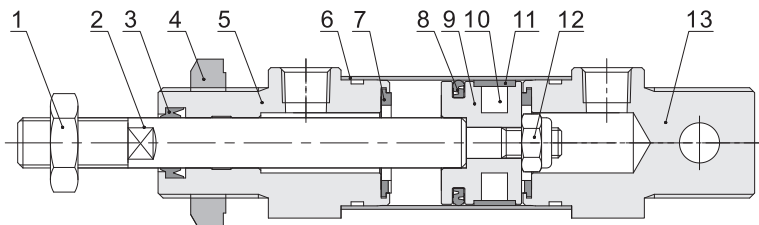
Symbol:



Product feature:

- 1.Accord with ISO6432 standard(Φ8~ Φ25).
- 2.The front and rear covers with fixed bumper can reduce the reversing impact of cylinder.
- 3.Various rear cover forms makes cylinder installation more convenient.
- 4.The front and rear covers and stainless steel cylinder body adopt riveting roll package structure with reliable connection.
- 5.Stainless steel piston rod and cylinder body help cylinder adapt to general corrosive working environment.
- 6.Various standard cylinders and installing accessories are optional for customers.

Inner structure drawing:



Number	Name	Number	Name
1	Hexagonal nut	8	Sealing ring
2	Piston rod	9	Piston
3	Dustproof sealing ring	10	Magnet
4	Hexagonal nut	11	Wearing ring
5	Front cover	12	Hexagonal nut
6	Cylinder barrel	13	Rear cover
7	Anti-collision gasket		

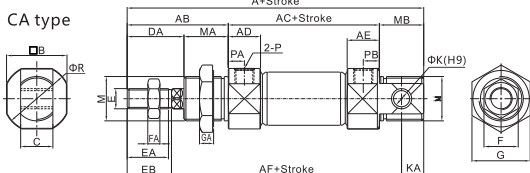
ISO6432 Standard Mini Cylinder

Dimension(mm):

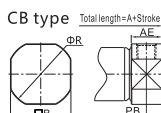
MI Standard Dimension

Φ8~Φ40

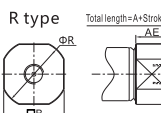
CA type



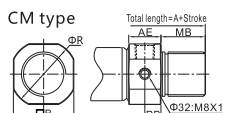
CB type



R type



CM type



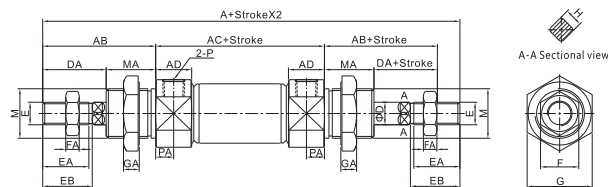
Bore/Symbol	A				AB	AC	AD	AE	AF	B	C	D	DA	E
Rear cover	CA	U	R	CM				CA	U/R/CM					
8	86	74	-	-	28	46	11.5	9.5	9.5	64	15	8	4	M4×0.7
10	86	74	-	-	28	46	11.5	9.5	9.5	64	15	8	4	M4×0.7
12	105	88	-	-	38	50	12.5	10.5	10.5	75	18	12	6	M6×1
16	111	94	94	111	38	56	12.5	10.5	10.5	82	20	12	6	M6×1
20	126	106	106	126	44	62	14.5	14.5	14.5	95	25	16	8	M8×1.25
25	137	114.5	115	137	50	65	16	16	16	104	30	16	10	M10×1.25
32	-	125	126	140	58	-	16.5	-	16.5	-	34.5	-	12	M10×1.25
40	-	158	158	174	69	-	22	-	22	-	42.5	-	16	M12×1.25

Bore/Symbol	EA	EB	F	FA	G	GA	H	K	KA	M	MA	MB	P	PA	PB	R
Rear cover															CA	
8	10.5	12	7	2.2	17	6	-	4	10	M12×1.25	12	12	M5×0.8	7	5	17
10	10.5	12	7	2.2	17	6	-	4	10	M12×1.25	12	12	M5×0.8	7	5	17
12	14	16	10	5	22	6	5(two sections)	6	14	M16×1.5	17	17	M5×0.8	8	6	20
16	14.5	16	10	5	22	6	5(two sections)	6	13	M16×1.5	17	17	M5×0.8	8	6	22
20	18	20	12	6	29	7	6(two sections)	8	11	M22×1.5	20	20	PT1/8"	7.5	7.5	29
25	20.5	22	17	6	29	7	8(four sections)	8	11	M22×1.5	22	22	PT1/8"	8	8	33.5
32	17.5	20	17	6	36	7	10(four sections)	-	-	M30×1.5	30	14	PT1/8"	9	-	37.5
40	21	24	17	7	46	8	14(four sections)	-	-	M38×1.5	35	16	PT1/4"	12	-	46.5

Notes:With or without magnet, the dimensions are the same..

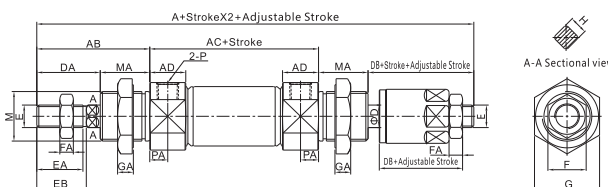
MID Standard Dimension

Φ8~Φ40



MIJ Standard Dimension

Φ8~Φ40



Bore/Symbol	A		AB	AC	AD	D	DA	DB	E	EA	EB
Rear cover	MID	MIJ									
8	104	103	28	48	11.5	4	16	15	M4×0.7	10.5	12
10	104	103	28	48	11.5	4	16	15	M4×0.7	10.5	12
12	128	128	38	52	12.5	6	21	21	M6×1	14	16
16	134	134	38	58	12.5	6	21	21	M6×1	14.5	16
20	150	151	44	62	14.5	8	24	25	M8×1.25	18	20
25	165	164	50	65	16	10	28	27	M10×1.25	20	22
32	184	183	58	68	16.5	12	28	27	M10×1.25	17.5	20
40	227	221	69	89	22	16	34	28	M12×1.25	21	24

Bore/Symbol	F	FA	G	GA	H	M	MA	P	PA
8	7	2.2	17	6	-	M12×1.25	12	M5×0.8	7
10	7	2.2	17	6	-	M12×1.25	12	M5×0.8	7
12	10	5	22	6	5(two sections)	M16×1.5	17	M5×0.8	8
16	10	5	22	6	5(two sections)	M16×1.5	17	M5×0.8	8
20	12	6	29	7	6(two sections)	M22×1.5	20	PT1/8"	7.5
25	17	6	29	7	8(four sections)	M22×1.5	22	PT1/8"	8
32	17	6	36	7	10(four sections)	M30×1.5	30	PT1/8"	9
40	17	7	46	8	14(four sections)	M38×1.5	35	PT1/4"	12

Notes:With or without magnet, the dimensions are the same..

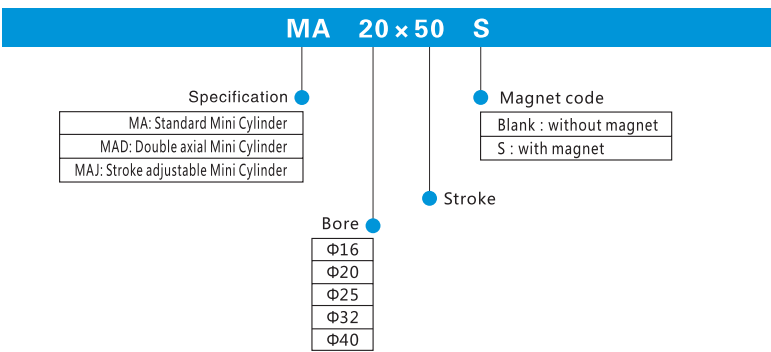
ISO6432 Standard Mini Cylinder



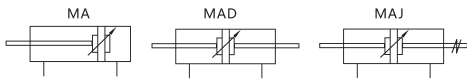
Specification:

Type	16	20	25	32	40
Motion	Double acting				
Series	MA, MAD, MAJ				
Fluid	Compressed air				
Working pressure range (MPa)	0.1~1				
Operating speed (mm/sec)	50~800				
Ambient temperature (°C)	-20~80				
Cushion	Adjustable cushion at both ends				
Port size (G)	M5×0.8	1/8"			

How to order:



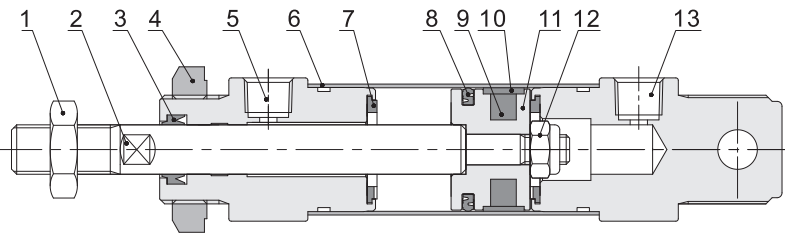
Symbol:



Product feature:

1. Execute the enterprise standards.
2. The piston seal adopts special two-way sealing structure with compact size and oil storing function.
3. The front and rear covers with fixed bumper can reduce the reversing impact of cylinder.
4. Various rear cover forms makes cylinder installation more convenient.
5. The front and rear covers and stainless steel cylinder body adopt riveting roll package structure with reliable connection.
6. The cylinder body adopts high precision stainless steel tube with high strength and corrosion resistance.
7. Various standard cylinders and installing accessories are optional for customers.

Inner structure drawing:



Number	Name	Number	Name
1	Hexagonal nut	8	Sealing Ring
2	Piston rod	9	Piston
3	Dustproof sealing ring	10	Magnet
4	Hexagonal nut	11	Wearing ring
5	Front cover	12	Hexagonal nut
6	Cylinder barrel	13	Rear cover
7	Anti-collision gasket		

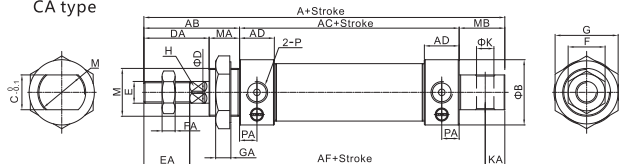
ISO6432 Standard Mini Cylinder

■ Dimension(mm):

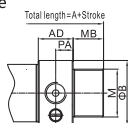
MA Standard Dimension

■ $\Phi 16 \sim \Phi 40$

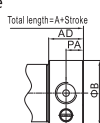
CA type



CM type



U type

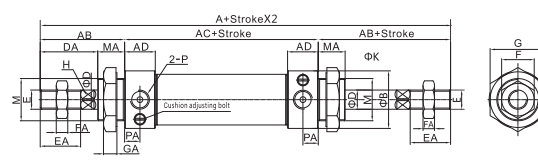


Bore/Symbol	A			AB	AC	AD	AF	B	C	D	DA	EA
	CM	CA	U									
16	114	114	98	38	60	10	91	21	12	6	22	M6×1.0
20	137	128	116	40	76	16	108	27	16	8	28	M8×1.25
25	141	134	120	44	76	16	110	30	16	10	30	M10×1.25
32	147	134	120	44	76	16	113	35	16	12	30	M10×1.25
40	149	136	122	46	76	16.5	113	41.5	20	16	32	M10×1.25

Bore/Symbol	Rear cover	F	FA	G	GA	H	K	KA	M	MA	MB		P	PA
											CA	CM		
16		10	5	22	6	5	6	9	M16×1.5	16	16	16	M5×0.8	5
20		12	6	29	7	6	8	12	M22×1.5	12	21	12	PT1/8"	8
25		17	6	29	7	8	8	12	M22×1.5	14	21	14	PT1/8"	8
32		17	6	32	8	10	10	15	M24×2.0	14	27	14	PT1/8"	8
40		17	7	41	9	14	12	15	M30×2.0	14	27	14	PT1/8"	8

MAD Standard Dimension

■ $\Phi 16 \sim \Phi 40$

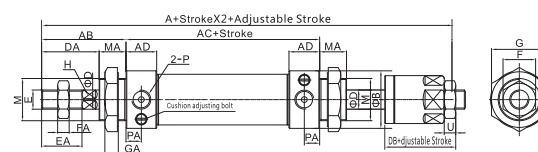


Bore/Symbol	A	AB	AC	AD	B	D	DA	E	EA
16	136	38	60	10	21	6	22	M6×1.0	16
20	156	40	76	16	27	8	28	M8×1.25	20
25	164	44	76	16	30	10	30	M10×1.25	22
32	164	44	76	16	35	12	30	M10×1.25	22
40	168	46	76	16.5	41.5	16	32	M12×1.25	24

Bore/Symbol	F	FA	G	GA	H	M	MA	P	PA
16	10	5	22	6	5	M16×1.5	16	M5×0.8	5
20	12	6	29	7	6	M22×1.5	12	PT1/8"	8
25	17	6	29	7	8	M22×1.5	14	PT1/8"	8
32	17	6	32	8	10	M24×2.0	14	PT1/8"	8
40	17	7	41	9	14	M30×2.0	20	PT1/8"	8

MAJ Standard Dimension

■ $\Phi 16 \sim \Phi 40$



Bore/Symbol	A	AB	AC	AD	B	D	DA	DB	E	EA	F	FA
16	135	38	60	10	21	6	22	21	M6×1.0	16	10	5
20	153	40	76	16	27	8	28	25	M8×1.25	20	12	6
25	161	44	76	16	30	10	30	27	M10×1.25	22	17	6
32	161	44	76	16	35	12	30	27	M10×1.25	22	17	6
40	164	46	76	16.5	41.5	16	32	28	M12×1.25	24	17	7

Bore/Symbol	H	M	MA	P	PA	G	GA	T	U
16	5	M16×1.5	16	M5×0.8	5	22	6	M6×1.0	5
20	6	M22×1.5	12	PT1/8"	8	29	7	M8×1.25	6
25	8	M22×1.5	14	PT1/8"	8	29	7	M10×1.25	6
32	10	M24×2.0	14	PT1/8"	8	32	8	M10×1.25	6
40	14	M30×2.0	14	PT1/8"	8	41	9	M12×1.25	7



MA

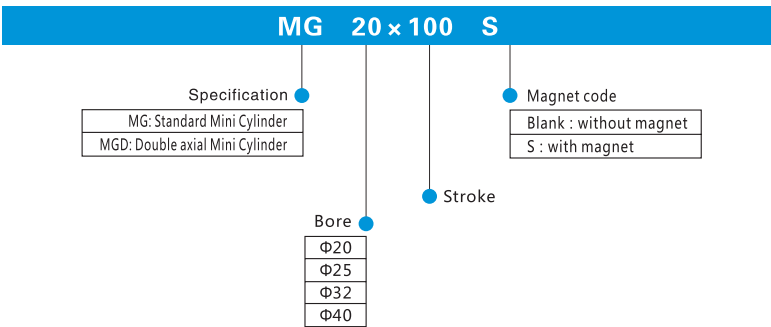
ISO6432 Standard Mini Cylinder



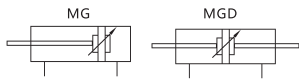
Specification:

Type	20	25	32	40
Motion	Double acting			
Series	MG, MGD			
Fluid	Compressed air			
Working pressure range (MPa)	0.1~1			
Operating speed(mm/sec)	50~800			
Ambient temperature(°C)	-20~80			
Cushion	Adjustable cushion at both ends			
Port size (G)	1/8"			

How to order:



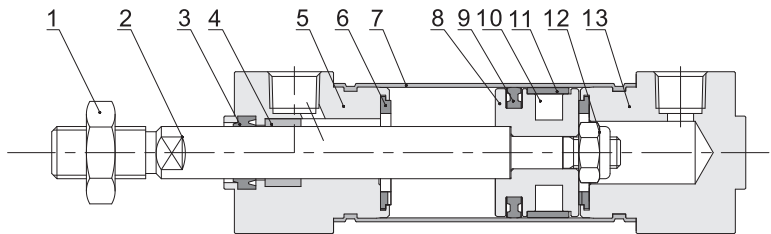
Symbol:



Product feature:

1. Execute JIS standard.
2. The piston seal adopts special two-way sealing structure with compact size and oil storing function.
3. The front and rear covers with fixed bumper can reduce the reversing impact of cylinder.
4. The front and rear covers and stainless steel cylinder body adopt riveting roll package structure with reliable connection.
5. The cylinder body adopts high precision stainless steel tube with high strength and corrosion resistance.
6. Various standard cylinders and installing accessories are optional for customers.

Inner structure drawing:

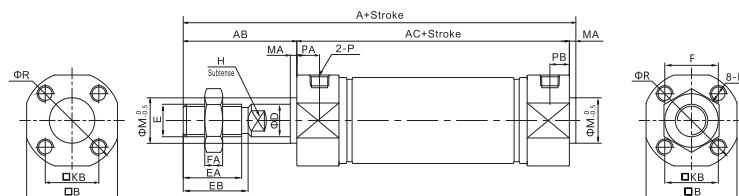


Number	Name	Number	Name
1	Hexagonal nut	8	Sealing Ring
2	Piston rod	9	Piston
3	Dustproof sealing ring	10	Magnet
4	Hexagonal nut	11	Wearing ring
5	Front cover	12	Hexagonal nut
6	Cylinder barrel	13	Rear cover
7	Anti-collision gasket		

Dimension(mm):

MG Standard Dimension

Φ20~Φ40



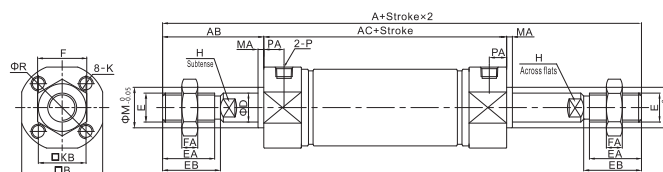
Bore/Symbol	Standard stroke range	Long stroke range	A	AB	AC	B	D	E	EA	EB	F
20	≤200	201~500	106/114	35	69/77	24	8	M8×1.25	15.5	18	13
25	≤300	301~500	111/119	40	69/77	29	10	M10×1.25	19.5	22	17
32	≤300	301~500	113/121	40	71/79	35.5	12	M10×1.25	19.5	22	17
40	≤300	301~500	130/139	50	78/87	44	16	M14×1.5	27	30	19

Bore/Symbol	FA	H	K	KB	M	MA	P	PA	PB	R	T
20	5	6	M4×0.7 deep 7	14	12	2	PT1/8"	12/15	8	26.5	22.5
25	6	8	M5×0.8 deep 7.5	16.5	14	2	PT1/8"	12.5/15	9	31.5	24.5
32	6	10	M5×0.8 deep 7.5	20	18	2	PT1/8"	13/15	10.5	38.5	30.5
40	8	14	M6×1.0 deep 12	26	25	2	PT1/8"	13/14	12	47.5	35

Notes:With or without magnet, the dimensions are the same..

MGD Standard Dimension

Φ20~Φ40



Bore/Symbol	A	AC	AB	B	D	E	EA	EB	F	FA
20	147	77	35	24	8	M8×1.25	15.5	18	13	5
25	157	77	40	29	10	M10×1.25	19.5	22	17	6
32	159	79	40	35.5	12	M10×1.25	19.5	22	17	6
40	187	87	50	44	16	M14×1.5	27	30	19	8

Bore/Symbol	H	K	KB	M	MA	P	PA	R	T
20	6	M4×0.7 deep 7	14	12	2	PT1/8"	12	26.5	22.5
25	8	M5×0.8 deep 7.5	16.5	14	2	PT1/8"	12.5	31.5	24.5
32	10	M5×0.8 deep 7.5	20	18	2	PT1/8"	13	38.5	30.5
40	14	M6×1.0 deep 12	26	25	2	PT1/8"	13	47.5	35

Notes:With or without magnet, the dimensions are the same..

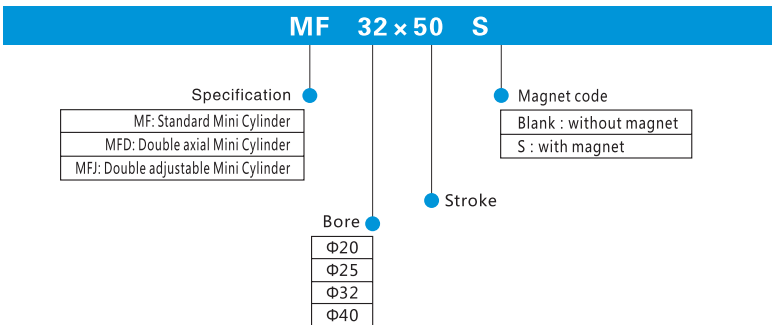
ISO6432 Standard Mini Cylinder



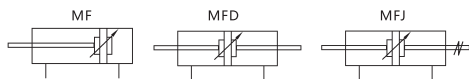
■ Specification:

Type	20	25	32	40
Motion	Double acting			
Series	MF, MFD, MFJ			
Fluid	Compressed air			
Working pressure range (MPa)	0.1~1			
Operating speed(mm/sec)	50~800			
Ambient temperature(°C)	-20~80			
Cushion	Bumper			
Port size (G)	1/8"			1/4"

■ How to order:



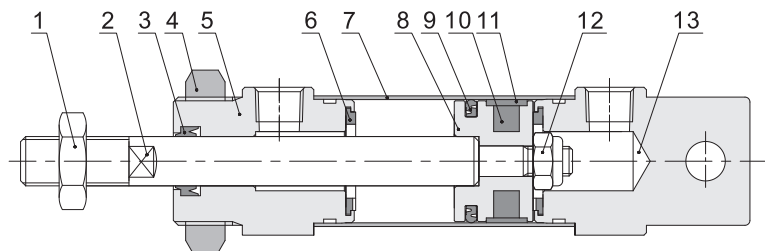
■ Symbol:



■ Product feature:

1. Execute JIS standard.
2. The piston seal adopts special two-way sealing structure with compact size and oil storing function.
3. The front and rear covers with fixed bumper can reduce the reversing impact of cylinder.
4. Various rear cover forms makes cylinder installation more convenient.
5. The front and rear covers and stainless steel cylinder body adopt riveting roll package structure with reliable connection.
6. The cylinder body adopts high precision stainless steel tube with high strength and corrosion resistance.
7. Compared with the same bore and stroke cylinders, the length of MF series cylinder is shorter than that of ISO6432 standard cylinder.
8. Various standard cylinders and installing accessories are optional for customers.

■ Inner structure drawing:



Number	Name	Number	Name
1	Hexagonal nut	8	Sealing Ring
2	Piston rod	9	Piston
3	Dustproof sealing ring	10	Magnet
4	Hexagonal nut	11	Wearing ring
5	Front cover	12	Hexagonal nut
6	Cylinder barrel	13	Rear cover
7	Anti-collision gasket		

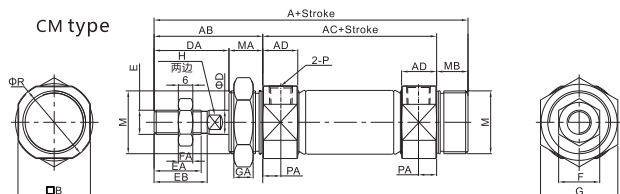
ISO6432 Standard Mini Cylinder

■ Dimension(mm):

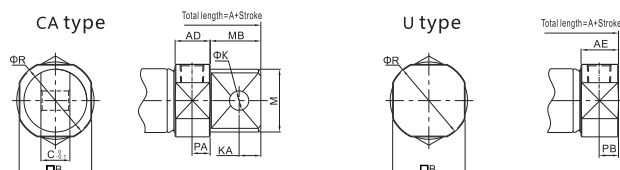
MF Standard Dimension

■ $\Phi 20 \sim \Phi 40$

CM type



CA type



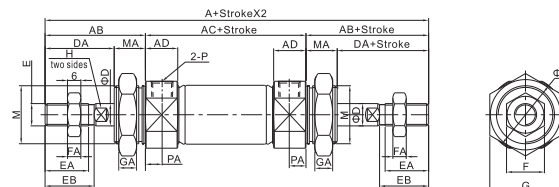
Bore/Symbol	A			AB	AC	AD	AE	B	C	M		MA	MB			D
Rear cover	CM	CA	U							CM	CA					
20	116	124	103	41	62	14.5	14.5	35	12	M20×1.5	20	14	21	13	8	
25	120	128	108	45	62	14.5	15.5	30	12	M26×1.5	26	14	21	13	10	
32	122	136	110	45	64	14.5	15.5	34.5	20	M26×1.5	26	14	21	13	12	
40	154	165	138.5	50	88	21.5	22	42.5	20	M32×2	32	16	27	16	16	

Bore/Symbol	DA	E	EA	EB	F	FA	G	GA	H	K	KA	P	PA	PB	PC
20	27	M8×1.25	15.5	18	13	5	26	8	6	8	9	PT1/8"	7.5	7.5	29
25	31	M10×1.25	19.5	22	17	6	32	8	8	8	9	PT1/8"	7.5	8	33.5
32	31	M10×1.25	19.5	22	17	6	32	8	10	10	12	PT1/8"	7.5	8	37.5
40	34	M14×1.5	21	24	19	8	41	10	14	10	12	PT1/4"	11	11.5	46.5

Notes: With or without magnet, the dimensions are the same..

MFD Standard Dimension

■ $\Phi 20 \sim \Phi 40$

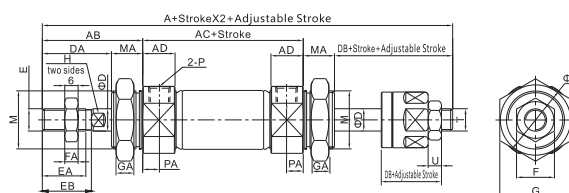


Bore/Symbol	A	AB	AC	AD	D	DA	DB	E	EA	EB	F	FA
20	144	41	62	14.5	8	27	24	M8×1.25	15.5	18	13	5
25	152	45	62	14.5	10	31	27	M10×1.25	19.5	22	17	6
32	154	45	64	14.5	12	31	27	M10×1.25	19.5	22	17	6
40	188	50	88	21.5	16	34	28	M14×1.5	21	24	19	8

Bore/Symbol	G	GA	H	M	MA	P	PA	R	T	U
20	26	8	6	M20×1.5	14	PT1/8"	7.5	29	M8×1.25	5
25	32	8	8	M26×1.5	14	PT1/8"	7.5	33.5	M10×1.25	6
32	32	8	10	M26×1.5	14	PT1/8"	7.5	36.5	M10×1.25	6
40	41	10	14	M32×2	16	PT1/4"	11	47.5	M12×1.25	7

MFJ Standard Dimension

■ Φ20~Φ40



Bore/Symbol	A	AB	AC	AD	D	DA	DB	E	EA	EB	F	FA
20	141	41	62	14.5	8	27	24	M8×1.25	15.5	18	13	5
25	148	45	62	14.5	10	31	27	M10×1.25	19.5	22	17	6
32	150	45	64	14.5	12	31	27	M10×1.25	19.5	22	17	6
40	182	50	88	21.5	16	34	28	M14×1.5	21	24	19	8

Bore/Symbol	G	GA	H	M	MA	P	PA	R	T	U
20	26	8	6	M20×1.5	14	PT1/8"	7.5	29	M8×1.25	5
25	32	8	8	M26×1.5	14	PT1/8"	7.5	33.5	M10×1.25	6
32	32	8	10	M26×1.5	14	PT1/8"	7.5	36.5	M10×1.25	6
40	41	10	14	M32×2	16	PT1/4"	11	47.5	M12×1.25	7

Notes: With or without magnet, the dimensions are the same..



MF

MAL Series Cylinder



Aluminum Mini Cylinder



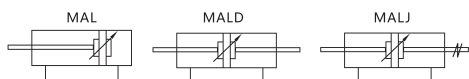
Specification:

Type	16	20	25	32	40
Motion	Double acting				
Series	MAL,MALD,MALJ				
Fluid	Compressed air				
Working pressure range (MPa)	0.1~1				
Operating speed(mm/sec)	50~500				
Ambient temperature(°C)	-10~70				
Cushion	Bumper				
Port size (G)	M5	1/8"		1/4"	

How to order:

MAL 20 × 100 CA LB S				
Specification		Magnet code		
MAL: Standard Mini Cylinder		S1:with magnet + 1pc magnet switch		
MALD: Double axial Mini Cylinder		S2:with magnet + 2pc magnet switch		
MALJ: Stroke adjustable Mini Cylinder		S3:heat resisting seal ring, max temp.150°C		
		S4:acid resisting piston rod		
Bore		Mounting type		
Φ16		Blank(Standard)		
Φ20		LB		
Φ25		FA/FB		
Φ32				
Φ40				
Stroke		Rear cover		
		Blank: Fishtail		
		U: Flat tail		
		CM: Rounded tail		

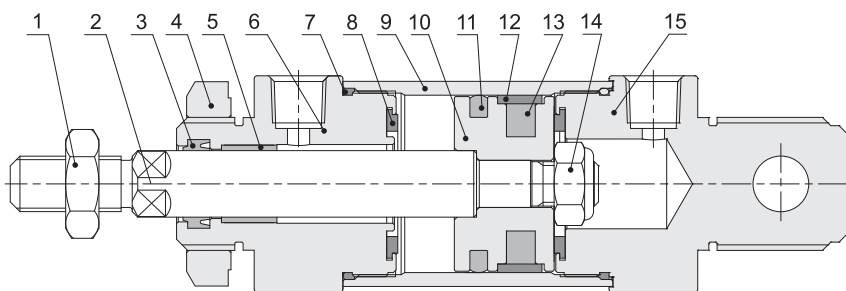
Symbol:



Product feature:

1. Adopt imported aluminum tube,light,precise, friction & corrosion durable.
2. Use imported non-lubrication oil seal, fits for high speed movement.
3. Has aluminum covers,CNC machined,surface anodized,better anti-corrosion.
4. Has non-lubrication bearing,no need maintenance for long time working with longer life time than usual one.
5. Magnet in piston, whole series can be attached with sensor switch

Inner structure drawing:



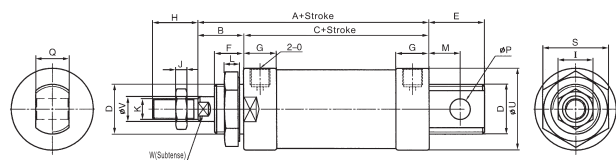
Number	Name	Number	Name
1	Hexagonal nut	9	Cylinder barrel
2	Piston rod	10	Piston
3	Dustproof sealing ring	11	PZ ring
4	Hexagonal nut	12	Wearing ring
5	Composite bearing	13	Magnet
6	Front cover	14	Hexagonal nylon locknut
7	O-ring	15	Rear cover
8	Fenders		

Aluminum Mini Cylinder

■ Dimension(mm):

Fishtail type

■ $\Phi 16 \sim \Phi 40$

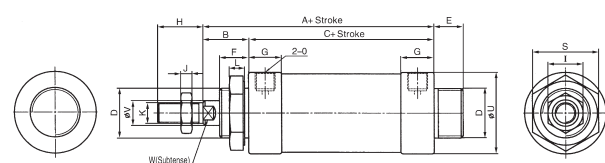


Bore/Symbol	A	B	C	D	E	F	G	H	I	J
16	75.6	20	55.6	M16×1.5	14	12	11	17	10	5
20	90	20	70	M22×1.5	21	12	16	20	12	6
25	92	22	70	M22×1.5	21	14	16	22	17	6
32	92	22	70	M24×1.5	27	14	16	22	17	6
40	114	22	92	M30×1.5	27	14	22	24	17	7

Bore/Symbol	K	L	M	O	P	Q	S	U	V	W
16	M6	7	5	M5	6	12	24	22	6	-
20	M8×1.25	12	3	PT1/8"	8	16	27	27	8	6
25	M10×1.25	12	12	PT1/8"	8	16	29	32	10	8
32	M10×1.25	15	14	PT1/8"	10	16	39.5	39	12	10
40	M12×1.25	15	16	PT1/4"	12	20	49.5	47	16	14

Rounded type

■ $\Phi 16 \sim \Phi 40$

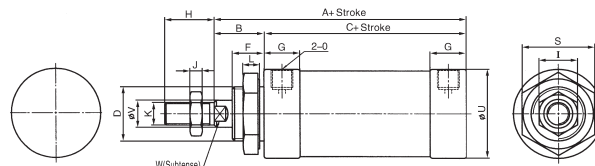


Bore/Symbol	A	B	C	D	E	F	G	H	I	J
16	75.6	20	55.6	M16×1.5	14	2	11	17	10	5
20	90	20	70	M22×1.5	21	12	16	20	12	6
25	92	22	70	M22×1.5	21	14	16	22	17	6
32	92	22	70	M24×1.5	27	14	16	22	17	6
40	114	22	92	M30×1.5	27	14	22	24	17	7

Bore/Symbol	K	L	O	S	U	V	W
16	M6	7	M5	24	22	6	-
20	M8×1.25	12	PT1/8"	29	27	8	6
25	M10×1.25	12	PT1/8"	29	32	10	8
32	M10×1.25	15	PT1/8"	32	39	12	10
40	M12×1.25	15	PT1/4"	41	47	16	14

Flat type

■ $\Phi 16 \sim \Phi 40$

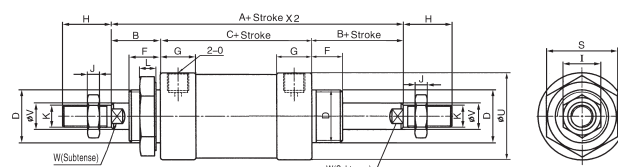


Bore/Symbol	A	B	C	D	F	G	H	I	J
16	75.6	20	55.6	M16×1.5	12	11	17	10	5
20	90	20	70	M22×1.5	12	16	20	12	6
25	92	22	70	M22×1.5	14	16	22	17	6
32	92	22	70	M24×1.5	14	16	22	17	6
40	114	22	92	M30×1.5	14	22	24	17	7

Bore/Symbol	K	L	O	S	U	V	W
16	M6	7	M5	24	22	6	-
20	M8×1.25	12	PT1/8"	29	27	8	6
25	M10×1.25	12	PT1/8"	29	32	10	8
32	M10×1.25	15	PT1/8"	32	39	12	10
40	M12×1.25	15	PT1/4"	41	47	16	14

MALD type

■ $\Phi 16 \sim \Phi 40$



Bore/Symbol	A	B	C	D	F	G	H	I	J
16	95.6	20	55.6	M16×1.5	12	11	17	10	5
20	110	20	70	M22×1.5	12	16	20	12	6
25	116	22	70	M22×1.5	14	16	22	17	6
32	114	22	70	M24×1.5	14	16	22	17	6
40	136	22	92	M30×1.5	14	22	24	17	7

Bore/Symbol	K	L	O	S	U	V	W
16	M6	7	M5	24	22	6	-
20	M8×1.25	12	PT1/8"	29	27	8	6
25	M10×1.25	12	PT1/8"	29	32	10	8
32	M10×1.25	15	PT1/8"	32	39	12	10
40	M12×1.25	15	PT1/4"	41	47	16	14



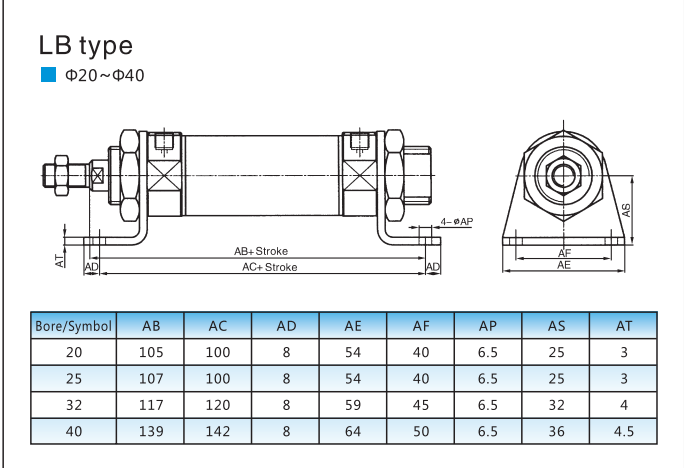
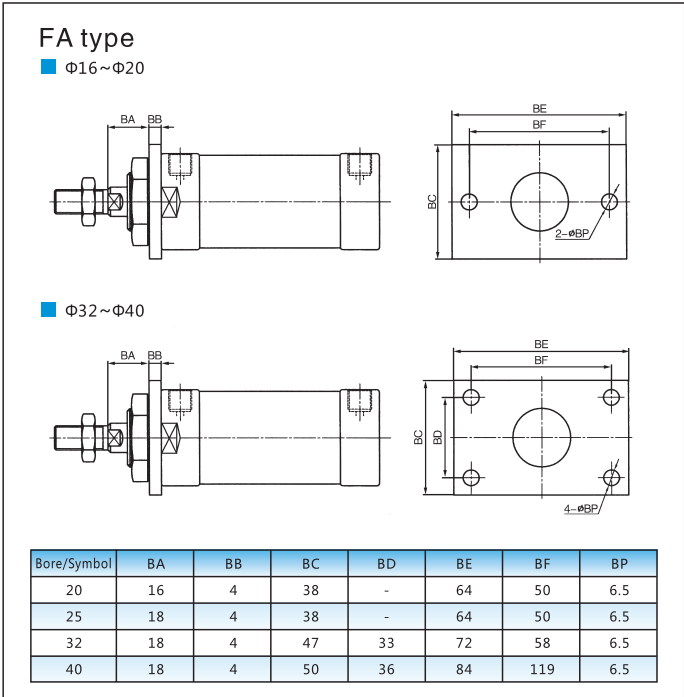
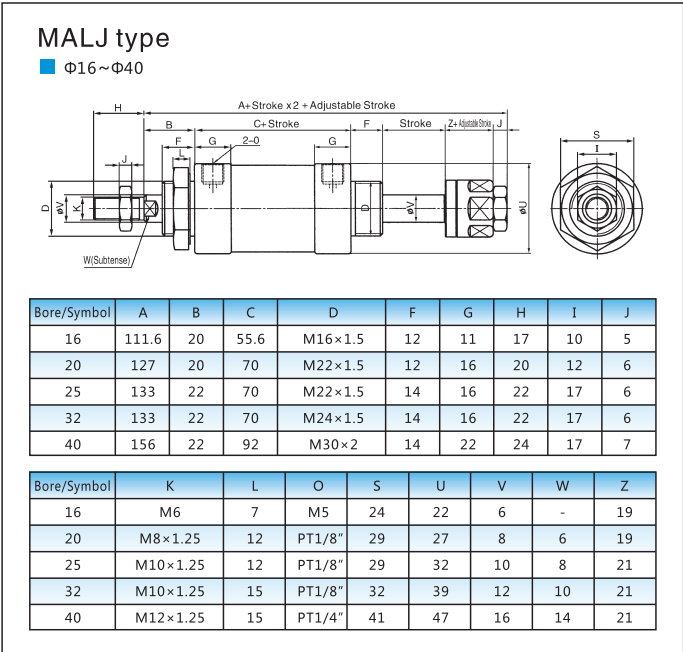
MAL

MAL Series Cylinder



Aluminum Mini Cylinder

■ Dimension(mm):



DAL Series Cylinder



Aluminum Mini Cylinder(large bore)



Specification:

Type	32	40	50	63	70	80
Motion	Double acting					
Series	DAL					
Fluid	Compressed air					
Working pressure range(MPa)	0.1~1					
Port size(G)	1/8"					

How to order:

DAL 50 × 60 S

Specification

DAL: Aluminum Mini Cylinder

Bore

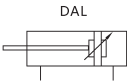
Φ32	Φ63
Φ40	Φ70
Φ50	Φ80

Magnet code

S1:with magnet + 1pc magnet switch
S2:with magnet + 2pc magnet switch
S3:heat resisting seal ring, max temp.150°C
S4:acid resisting piston rod

Stroke

Symbol:



Product feature:

- 1. 1/5 Shorter than ISO cylinder.
- 2.Seal with long life ,low friction.
- 3.Magnet in piston,whole series can be attached with sensor.

Inner structure drawing:

Number	Name	Number	Name	Number	Name
1	Hexagonal nut	6	Front cover	11	Piston
2	Piston rod	7	O-ring	12	Wearing ring
3	EU Dustproof sealing ring	8	Cylinder barrel	13	Hexagon socket cap screws
4	Hexagonal nut	9	O-ring	14	Elastic washer
5	Composite bearing	10	C-ring	15	Rear cover

Dimension(mm):

Φ32~Φ80

Bore/Symbol	A	B	C	E	F	G	H	I	J
32	114	43	71	26	17	16	23	17	6
40	128	54	74	32	22	15	24	17	6
50	139	56	83	34	22	15	24	17	6
63	151	69	82	41	28	16	31.5	22	8
70	152	70	82	42	28	16	30	22	8
80	175	80	95	52	28	20	35	22	8

Bore/Symbol	K	L	V	X	W1	W2	AR	AX	AY
32	M10×1.5	24×2	12	G1/8"	10	35	7	37	32
40	M10×1.5	27×2	12	G1/8"	10	45	12	47	41
50	M10×1.5	30×2	12	G1/8"	10	52	12	53	46
63	M14×2	36×2	16	G1/8"	14	68	13	60	52
70	M14×2	40×2	16	G1/8"	14	74	13	60	52
80	M14×2	40×2	16	G1/8"	14	84	13	60	52

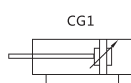
CG1 Series Cylinder



Round Line Cylinder



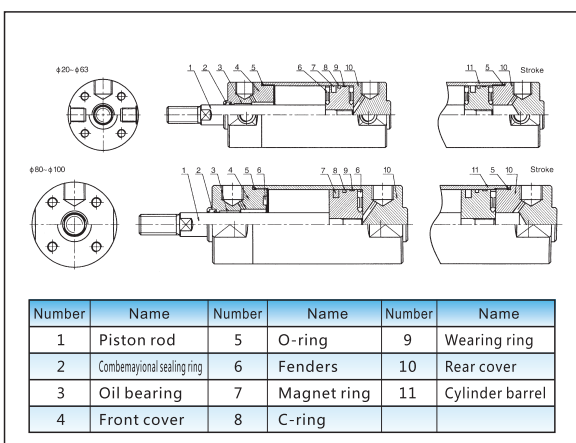
Symbol:



Product feature:

- 1.CNC mechanically processed with high precision. Quality meet international standard.
- 2.Adopt imported none lubrication, long time service and no need lubrication maintenance.
- 3.Unique cushion technique makes smooth action.
- 4.May add the sensor equipment to easily control.

Inner structure drawing:



Specification:

Type	20	25	32	40	50	63	80	100
Motion	Double acting							
Series	CG1							
Fluid	Compressed air							
Working pressure range(MPa)	0.1~1							
Operating speed(mm/sec)	50~1000						50~700	
Ambient temperature(°C)	-10~60							
Port size (G)	1/8"				1/4"		3/8"	1/2"

How to order:

CG1 40 × 100 S

Specification

CG1: Round Line Cylinder

Bore

Φ20	Φ50
Φ25	Φ63
Φ32	Φ80
Φ40	Φ100

Magnet code

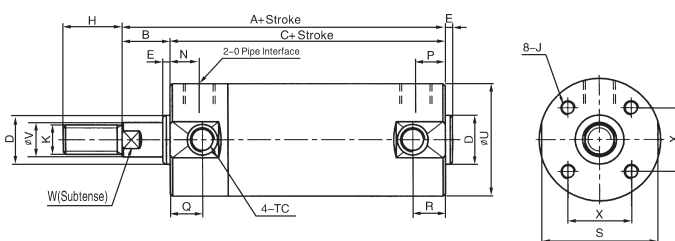
S1:with magnet + 1pc magnet switch
S2:with magnet + 2pc magnet switch
S3:heat resisting seal ring, max temp.150°C
S4:acid resisting piston rod

Stroke

Dimension(mm):

Standard Dimension

Φ20~Φ100



Bore/Symbol	Bore(mm)	A	B	C	D	E	H	J	K
20	~200	86	17	69	12	2	18	M4×0.7deep7	M8×1.25
25	~300	87	18	69	14	2	22	M5×0.8deep7.5	M10×1.25
32	~300	89	18	71	18	2	22	M5×0.8deep8	M10×1.25
40	~300	98	20	78	25	2	30	M6×1deep12	M14×1.5
50	~300	113	23	90	30	2	35	M8×1.25deep16	M18×1.5
63	~300	113	23	90	32	2	35	M10×1.5deep16	M18×1.5
80	~300	139	31	108	40	3	40	M10×1.5deep22	M22×1.5
100	~300	139	31	108	50	3	40	M12×1.75deep22	M22×1.5

Bore/Symbol	N	O	P	Q	R	S	U	V	W	X
20	12	G1/8"	12	11	11	24	26	8	6	14
25	12	G1/8"	12	11	11	29	31	10	8	16.5
32	12	G1/8"	11	11	10	36	38	12	10	20
40	13	G1/8"	12	12	10	44	47	16	14	26
50	14	G1/4"	13	13	12	55	58	20	18	32
63	14	G1/4"	13	13	12	69	72	20	18	38
80	20	G3/8"	20	-	-	80	89	25	22	50
100	20	G1/2"	20	-	-	108	110	30	26	60

Adjustable Aluminum Alloy Cylinder



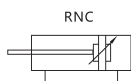
Specification:

Type	32	40	50	63
Motion	Double acting			
Series	RNC			
Fluid	Compressed air			
Working pressure range (MPa)	0.1~1			
Operating speed (mm/sec)	50~500			
Ambient temperature (°C)	-10~70			
Cushion	Adjustable cushion at both ends			
Port size (G)	1/8"	1/4"	3/8"	

How to order:

RNC 20 × 100 S			
Specification	Bore	Magnet code	Stroke
RNC: Adjustable Aluminum Cylinder	Φ32 Φ40 Φ50 Φ63	S1: with magnet + 1pc magnet switch S2: with magnet + 2pc magnet switch S3: heat resisting seal ring, max temp. 150°C S4: acid resisting piston rod	

Symbol:



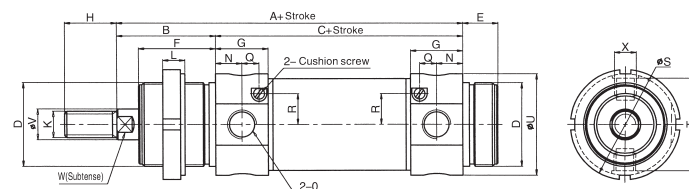
Product feature:

1. Adjustable cushion, suitable for high speed movement.
2. Front and rear caps are finished by aluminum die-casting, CNC mechanically processed with high precision. Surface by anodizing, good corrosion resistance.
3. Has non-lubrication bearing, no need maintenance for long time work with longer life than usual one.
4. Magnet in piston, whole series can be attached with sensor switch.

Dimension (mm):

Standard Dimension

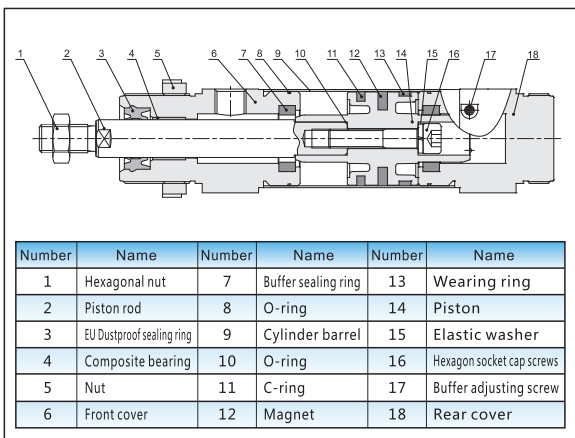
Φ32~Φ63



Bore/Symbol	A	B	C	D	E	F	G	H	K	L
32	134	38	96	M30×1.5	14	30	22	20	M10	8
40	158	45	113	M38×1.5	16	35	23.9	24	M12	10
50	170	50	120	M45×1.5	18	38	23.9	32	M16	10
63	175	51	124	M45×1.5	18	38	23.9	31	M16	10

Bore/Symbol	N	O	Q	R	S	T	U	V	W	X
32	9	G1/8"	8	13	42	35	38	12	10	M8×1
40	12	G1/4"	7.75	14	50	42	46	16	12	M10×1
50	12	G1/4"	6.9	14	60	53	57	20	16	M12×1.5
63	13	G3/8"	4.9	18.5	60	66	70	20	16	M14×1.5

Inner structure drawing:



■ Specification:



- 1.The cylinder body and rear covers; piston and piston rod adopt compact and reliable riveting roll package structure.
- 2.After inner diameter' s rolling processing, the cylinder body is hard oxidation treated with good wear durability.
- 3.The piston seal adopts special two-way sealing structure with compact size and oil storing function.
- 4.The compact structure helps to save the installation space.
- 5.With magnetic induction switch tank surrounding the cylinder body, it' s convenient to install the induction switch.
- 6.Various standard cylinder types are optional.

Number	Name	Number	Name
1	Piston rod	7	Cylinder barre
2	Dustproof sealing ring	8	Piston
3	Composite bearing	9	C-ring
4	Circlip for hole	10	Wearing ring
5	Front cover	11	Fenders
6	O-ring	12	Rear cover

Type	12	16	20	25	32	40	50	63	80	100
Motion	Double acting									
Series	SDA,SDAD,SDAJ									
Fluid	Compressed air									
Working pressure range(MPa)	0.1~1									
Operating speed(mm/sec)	50~500									
Ambient temperature(℃)	-10~70									
Cushion	Bumper									
Port size (G)	M5				1/8"		1/4"		3/8"	

SDA 20 x 100 B S

SDA: Standard Mini Cylinder
SDAD: Double axial Mini Cylinder
SDAJ: Double adjustable Mini Cylinder

Bore	
Φ12	Φ40
Φ16	Φ50
Φ20	Φ63
Φ25	Φ80
Φ32	Φ100

● Magnet code

S1:with magnet + 1pc magnet switch
S2:with magnet + 2pc magnet switch
S3:heat resisting seal ring, max temp.150℃
S4:acid resisting piston rod

- Thread code

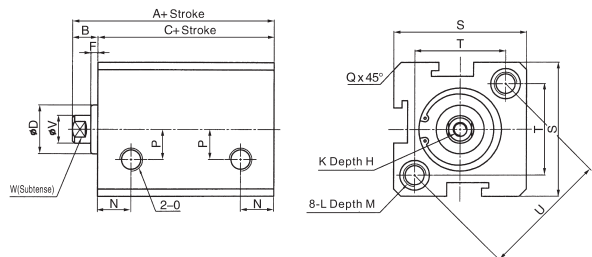
Blank: Female thread
B: Male thread
N: Without thread

Compact Cylinder

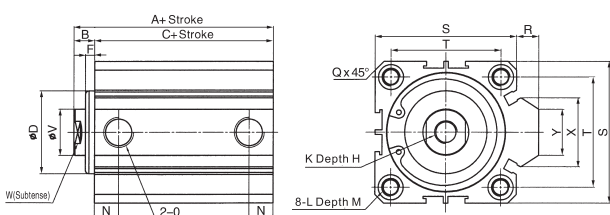
Dimension(mm):

Standard Dimension

Φ12~Φ16



Φ20~Φ100



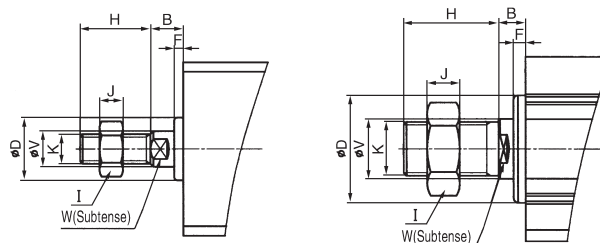
type	Standard			With magnet			D		H		K
Bore/Symbol	A	B	C	A	B	C			Stroke≤10	Stroke>10	
12	22	5	17	32	5	27	10.2	1	6		M3×0.5
16	24	5.5	18.5	34	5.5	28.5	10.5	1.5	6		M3×0.5
20	25	5.5	19.5	35	5.5	29.5	15	1.5	8		M4×0.7
25	27	6	21	37	6	31	17	2	10		M5×0.8
32	31.5	7	24.5	41.5	7	34.5	22	3.5	12		M6×1
40	33	7	26	43	7	36	28	3	12		M8×1.25
50	37	9	28	47	9	38	36	5	15		M10×1.5
63	41	9	32	51	9	42	38	3.5	15		M10×1.5
80	52	11	41	62	11	51	45	4	15	20	M14×1.5
100	63	12	51	73	12	61	50	5	18	20	M18×1.5

Bore/Symbol	L	M	N1		N2		O	Q	R	S	T	U	V	W	X	Y
			S=5	S>5	S=5	S>5										
12	M3	12	7.5	7.5	5	5	M5	1.6	-	25	16.2	23	6	5	-	-
16	M3	12	8	8	5	5.5	M5	1.6	-	29	19.8	28	6	5	-	-
20	M4	14	8.5	8.5	5.5	5.5	M5	2.1	2.2	34	24	-	8	6	11.3	10
25	M5	20.5	9	9	5.5	5.5	M5	3.1	2	40	28	-	10	8	12	10
32	M6	20.5	9	9	6.5	8	PT1/8"	2.1	6	43.7	34	-	12	10	18.3	15
40	M8	22.5	9	9	7.5	7.5	PT1/8"	2.2	6.7	52.1	40	-	16	14	21.3	16
50	M10	28.5	8	10.5	8	10.5	PT1/8"	4.2	9.7	61.8	48	-	20	17	30	20
63	M10	24	9.5	11	9.5	11	PT1/4"	3.2	9.7	74.6	60	-	20	17	28.7	20
80	M12	25	11.5	13	11.5	13	PT3/8"	3.6	10	94.4	74	-	25	22	36	26
100	M14	33	13.5	17	13.5	17	PT3/8"	3.6	10.1	114.4	90	-	32	27	35	26

Male thread Dimension

Φ12~Φ16

Φ20~Φ100



Bore/Symbol	B	D	F	H	I	J	K2	V	W
12	5	10.2	1	12	8	4	M5	6	5
16	5.5	10.2	1.5	12	8	4	M5	6	5
20	5/5	15	1.5	15	10	5	M6	8	6
25	6	17	2	17	12	6	M8	10	8
32	7	22	3.5	18	17	6	M10×1.25	12	10
40	7	28	3	28	19	8	M14×1.5	16	14
50	9	36	5	28	27	11	M18×1.5	20	17
63	9	38	3.5	28	27	11	M18×1.5	20	17
80	11	45	4	33	32	13	M22×1.5	25	22
100	12	50	5	38	36	13	M26×1.5	32	27



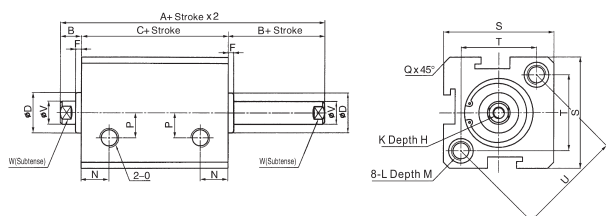
SDA

Compact Cylinder

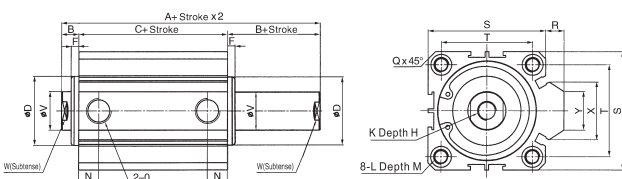
Dimension(mm):

SDAD Standard Dimension

Φ12~Φ16



Φ20~Φ100

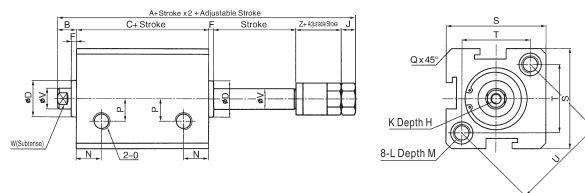


type	Standard			With magnet			D	F	H		K
Bore/Symbol	A	B	C	A	B	C			Stroke≤10	Stroke>10	
12	27	5	17	37.5	5	27	10.2	1	6		M3×0.5
16	29.5	5.5	18.5	39.5	5.5	28.5	10.5	1.5	6		M3×0.5
20	30.5	5.5	19.5	40.5	5.5	29.5	15	1.5	8(Stroke=5, be 6.5)		M4×0.7
25	33	6	21	43	6	31	17	2	10(Stroke=5, be 7)		M5×0.8
32	38.5	7	24.5	48.5	7	34.5	22	3.5	8	12	M6×1
40	40	7	26	50	7	36	28	3	9	12	M8×1.25
50	46	9	28	56	9	38	36	5	11	15	M10×1.5
63	50	9	32	60	9	42	38	3.5	11	15	M10×1.5
80	63	11	41	73	11	51	45	4	14	20	M14×1.5
100	75	12	51	85	12	61	50	5	18	20	M18×1.5

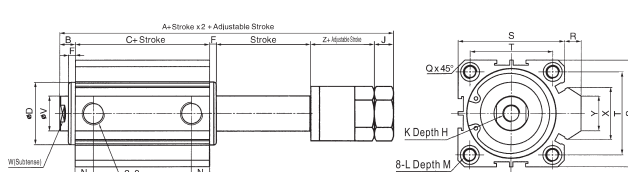
Bore/Symbol	L	M	N1		N2		O	Q	R	S	T	U	V	W	X	Y
			S=5	S>5	S=5	S>5										
12	M3	12	5.5	6.5	5	5	M5	1.6	-	25	16.2	23	6	5	-	-
16	M3	12	6.5	7.5	5	5.5	M5	1.6	-	29	19.8	28	6	5	-	-
20	M4	14	7	8.5	5.5	5.5	M5	2.1	2.2	34	24	-	8	6	11.3	10
25	M5	20.5	7.5	9	5.5	5.5	M5	3.1	2	40	28	-	10	8	12	10
32	M6	20.5	8	9	6.5	8	PT1/8"	2.1	6	43.7	34	-	12	10	18.3	15
40	M8	22.5	9	9	7.5	7.5	PT1/8"	2.2	6.7	52.1	40	-	16	14	21.3	16
50	M10	28.5	8	10.5	8	10.5	PT1/8"	4.2	9.7	61.8	48	-	20	17	30	20
63	M10	24	9.5	11	9.5	11	PT1/4"	3.2	9.7	74.6	60	-	20	17	28.7	20
80	M12	25	11.5	13	11.5	13	PT3/8"	3.6	10	94.4	74	-	25	22	36	26
100	M14	33	13.5	17	13.5	17	PT3/8"	3.6	10.1	114.4	90	-	32	27	35	26

SDAJ Standard Dimension

Φ12~Φ16



Φ20~Φ100



type	Standard			With magnet			D	F	H		K
Bore/Symbol	A	B	C	A	B	C			Stroke≤10	Stroke>10	
12	40	5	17	50	5	27	10.2	1	6		M3×0.5
16	42.5	5.5	18.5	52.5	5.5	28.5	10.5	1.5	6		M3×0.5
20	47.5	5.5	19.5	57.5	5.5	29.5	15	1.5	8(Stroke=5, be 6.5)		M4×0.7
25	54	6	21	64	6	31	17	2	10(Stroke=5, be 7)		M5×0.8
32	62	7	24.5	72	7	34.5	22	3.5	8	12	M6×1
40	65	7	26	75	7	36	28	3	9	12	M8×1.25
50	74	9	28	84	9	38	36	5	11	15	M10×1.5
63	76.5	9	32	86.5	9	42	38	3.5	11	15	M10×1.5
80	93	11	41	103	11	51	45	4	14	20	M14×1.5
100	105	12	51	115	12	61	50	5	18	20	M18×1.5

Bore/Symbol	L	M	N1		N2		O	Q	R	S	T	U	V	W	X	Y	Z
			S=5	S>5	S=5	S>5											
12	M3	12	5.5	6.5	5	5	M5	1.6	-	25	16.2	23	6	5	-	-	13
16	M3	12	6.5	7.5	5	5.5	M5	1.6	-	29	19.8	28	6	5	-	-	13
20	M4	14	7	8.5	5.5	5.5	M5	2.1	2.2	34	24	-	8	6	11.3	10	16
25	M5	20.5	7.5	9	5.5	5.5	M5	3.1	2	40	28	-	10	8	12	10	19
32	M6	20.5	8	9	6.5	8	PT1/8"	2.1	6	43.7	34	-	12	10	18.3	15	21
40	M8	22.5	9	9	7.5	7.5	PT1/8"	2.2	6.7	52.1	40	-	16	14	21.3	16	21
50	M10	28.5	8	10.5	8	10.5	PT1/8"	4.2	9.7	61.8	48	-	20	17	30	20	21
63	M10	24	9.5	11	9.5	11	PT1/4"	3.2	9.7	74.6	60	-	20	17	28.7	20	21
80	M12	25	11.5	13	11.5	13	PT3/8"	3.6	10	94.4	74	-	25	22	36	26	24
100	M14	33	13.5	17	13.5	17	PT3/8"	3.6	10.1	114.4	90	-	32	27	35	26	24

Multi-position Compact Cylinder



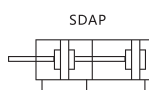
Specification:

Type	25	40	50	63	80	100
Fluid	Compressed air					
Structure character	Piston type cylinder					
Working pressure range (MPa)	0.1~1					
Ambient temperature(°C)	-10~70					

How to order:

SDAP 40 × 100 + 60 B S																
Specification		Bore		Magnet code												
SDAP: Multi-position Compact Cylinder		<table><tr><td>Φ25</td><td>Φ80</td></tr><tr><td>Φ40</td><td>Φ100</td></tr><tr><td>Φ63</td><td></td></tr></table>		Φ25	Φ80	Φ40	Φ100	Φ63		<table><tr><td>S1:with magnet + 1pc magnet switch</td></tr><tr><td>S2:with magnet + 2pc magnet switch</td></tr><tr><td>S3:heat resisting seal ring, max temp.150°C</td></tr><tr><td>S4:acid resisting piston rod</td></tr></table>			S1:with magnet + 1pc magnet switch	S2:with magnet + 2pc magnet switch	S3:heat resisting seal ring, max temp.150°C	S4:acid resisting piston rod
Φ25	Φ80															
Φ40	Φ100															
Φ63																
S1:with magnet + 1pc magnet switch																
S2:with magnet + 2pc magnet switch																
S3:heat resisting seal ring, max temp.150°C																
S4:acid resisting piston rod																
Stroke 1		Thread code														
		<table><tr><td>Blank: Female thread</td></tr><tr><td>B: Male thread</td></tr><tr><td>N: Without thread</td></tr></table>					Blank: Female thread	B: Male thread	N: Without thread							
Blank: Female thread																
B: Male thread																
N: Without thread																
Stroke 2																

Symbol:

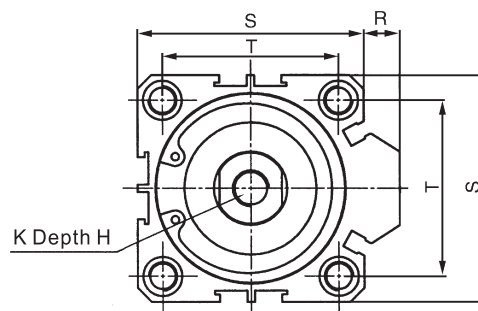
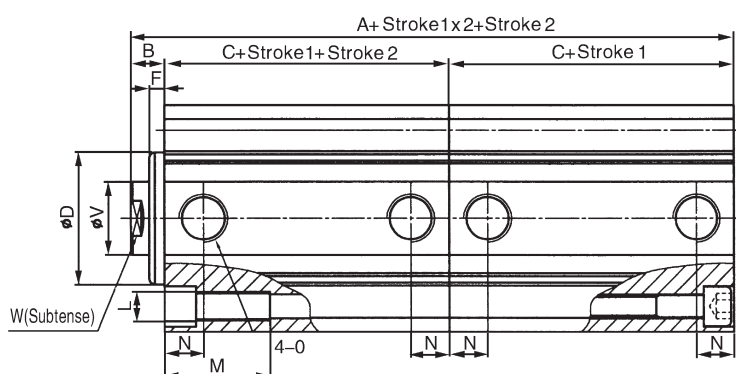


Product feature:

Making the combined cylinder have multi-position. Connecting two cylinders which has the same bore, but different stroke. Pay attention to the stroke that the later acting longer than former acting, i.e. stroke2 > stroke1, if special requirements, we can supply combination which have two or more cylinders, total stroke not more than 2000mm.

Attention: its pull force is similar to single cylinder.

Dimension(mm):



type	Without magnet		With magnet		C1	D	E		F	G	K1	O	P	P1	P3	P4	S	T1	V	W
Bore/Symbol	A	C2	A	C2			≤10	>10												
25	49	22	59	32	21	42	10		4	2	M5×0.8	M5×0.8	8.2	M6×1	15	5.5	40	28	10	8
40	60	27	70	37	26	59	12		4	3	M8×1.25	PT1/8"	10	M8×1.25	20	7.5	52	40	16	14
63	74	33	84	43	32	84.5	15		5	4	M10×1.5	PT1/4"	11	M8×1.25	25	8.5	75	60	20	17
80	94	42	104	52	41	104	15	20	6	5	M14×1.5	PT3/8"	14	M12×1.75	25	10.5	94	74	25	22
100	115	52	125	62	51	124	18	20	7	5	M18×1.5	PT3/8"	17.5	M14×2	30	13	114	90	32	27

Multi-pressure Compact Cylinder



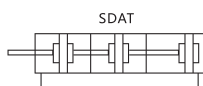
Specification:

Type	25	40	50	63	80	100
Fluid	Compressed air					
structure character	Piston type cylinder					
Working pressure range (MPa)	0.1~1					
Ambient temperature(°C)	-10~70					

How to order:

SDAT 40 × 100 3 B S

Symbol:



Specification
SDAT: Multi-pressure
Compact Cylinder

Bore	
Φ25	Φ80
Φ40	Φ100
Φ63	

Stroke

Cylinder qty

Magnet code

S1:with magnet + 1pc magnet switch
S2:with magnet + 2pc magnet switch
S3:heat resisting seal ring, max temp.150°C
S4:acid resisting piston rod

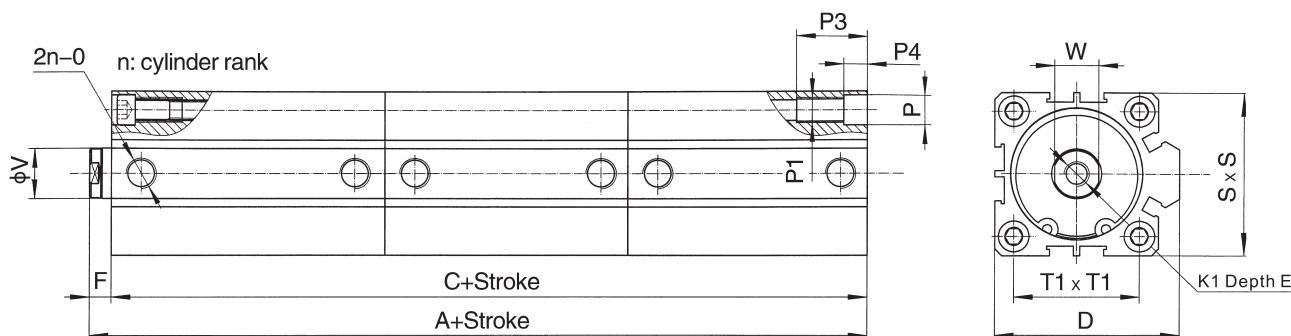
Thread code

Blank: Female thread
B: Male thread
N: Without thread

Product feature:

- 1.By connecting 2,3 or 4 cylinders which have the same bore and stroke,make the push force as 2,3 or 4 times than one cylinder.
- 2.Only need two air ports.
- 3.Attention: Draw-in force is the same as one cylinder.

Dimension(mm):



type	Without magnet		With magnet		C1	E		F	K1	O	P	P1	P3	P4	S	T1	V	W
	A	C	A	C		≤10	>10											
25	22n+5	22n-1	22n+15	22n+9	42	10		6	M5×0.8	M5×0.8	8.2	M6×1	15	5.5	40	28	10	8
40	27n+6	27n-1	27n+16	27n+9	59	12		7	M8×1.25	PT1/8"	10	M8×1.25	20	7.5	52	40	16	14
63	33n+8	33n-1	33n+18	33n+9	84.5	15		9	M10×1.5	PT1/4"	11	M8×1.25	25	8.5	75	60	20	17
80	42n+10	42n-1	42n+20	42n+9	104	15	20	11	M14×1.5	PT3/8"	14	M12×1.75	25	10.5	94	74	25	22
100	52n+11	52n-1	52n+21	52n+9	124	18	20	12	M18×1.5	PT3/8"	17.5	M14×2	30	13	114	90	32	27

CQ Series Cylinder

Compact Cylinder



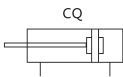
Specification:

Type	12	16	20	25	32	40	50	63	80	100	125
Motion	Double acting										
Series	CQ, CQD										
Fluid	Compressed air										
Working pressure range(MPa)	0.1~1										
Operating speed(mm/sec)	50~500										
Ambient temperature(°C)	-10~70										
Cushion	Bumper										
Port size (G)	M5			1/8"		1/4"		3/8"			

How to order:

CQ 20 × 100 B S											
Specification				Bore				Magnet code			
CQ: Standard Cylinder				Φ12 Φ50				S1:with magnet + 1pc magnet switch			
CQD: Double axial Cylinder				Φ16 Φ63				S2:with magnet + 2pc magnet switch			
				Φ20 Φ80				S3:heat resisting seal ring, max temp.150°C			
				Φ25 Φ100				S4:acid resisting piston rod			
				Φ32 Φ125				Thread code			
				Φ40				Blank: Female thread			
								B: Male thread			
								N: Without thread			
								Stroke			

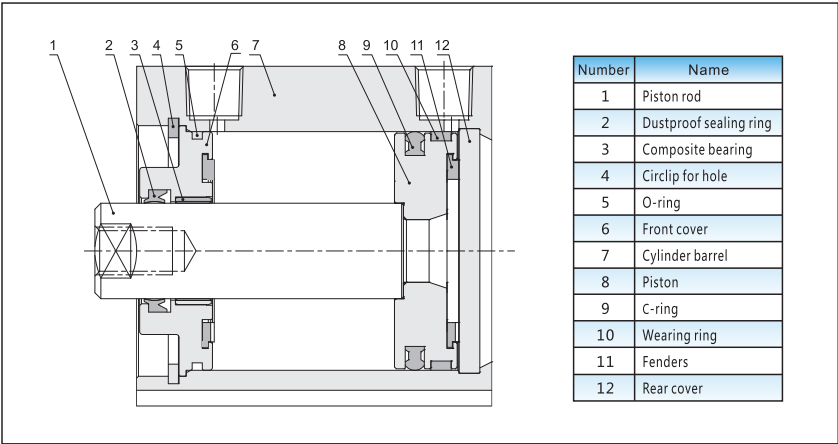
Symbol:



Product feature:

- 1.The cylinder body and rear covers; piston and piston rod adopt compact and reliable riveting roll package structure.
- 2.After inner diameter' s rolling processing, the cylinder body is hard oxidation treated with good wear durability.
- 3.The piston seal adopts special two-way sealing structure with compact size and oil storing function.
- 4.The compact structure helps to save the installation space.
- 5.With magnetic induction switch tank surrounding the cylinder body, it' s convenient to install the induction switch.
- 6.Various standard cylinder types are optional.

Inner structure drawing:



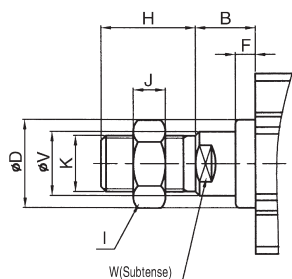
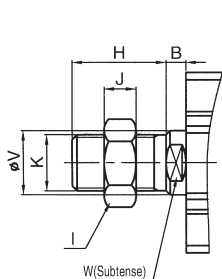
Compact Cylinder

Dimension(mm):

Outer thread Dimension

■ $\Phi 12 \sim \Phi 125$ (Stroke ≤ 100)

■ $\Phi 32 \sim \Phi 125$ (Stroke > 100 , Long type)

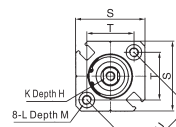
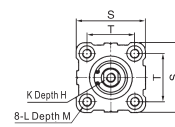
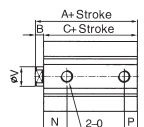


Bore/Symbol	B	H	I	J	K	V	W
12	3.5	10.5	8	4	M5	6	5
16	3.5	12	10	5	M6	8	6
20	4.5	14	12	6	M8	10	8
25	5	17.5	17	6	M10×1.25	12	10
32	5	23.5	19	8	M14×1.5	16	14
40	5	23.5	19	8	M14×1.5	16	14
50	5	28.5	27	11	M18×1.5	20	17
63	5	28.5	27	11	M18×1.5	20	17
80	8	35.5	32	13	M22×1.5	25	22
100	8	35.5	36	13	M26×1.5	32	27
125	-	45	46	14	M30×1.5	36	32

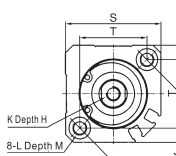
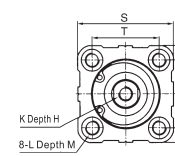
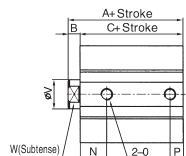
Bore/Symbol	B	D	F	H	I	J	K	V	W
32	15	22	5	23.5	19	8	M14×1.5	16	14
40	15	28	5	23.5	19	8	M14×1.5	16	14
50	15	35	5	28.5	27	11	M18×1.5	20	17
63	15	35	5	28.5	27	11	M18×1.5	20	17
80	18	43	5	35.5	32	13	M22×1.5	25	22
100	18	59	5	35.5	36	13	M26×1.5	32	27
125	18	63	5	45	46	14	M30×1.5	36	32

Standard Dimensions

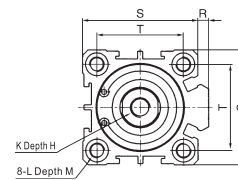
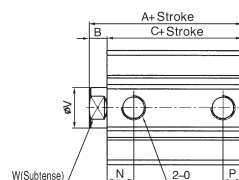
■ $\Phi 12 \sim \Phi 16$



■ $\Phi 20 \sim \Phi 25$



■ $\Phi 32 \sim \Phi 125$ (Stroke ≤ 100)



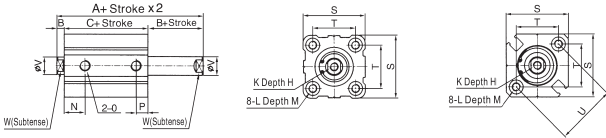
type	Standard				With magnet				B	H	K	L
Bore/Symbol	A	C	B	H	A	C	B	H	K	L		
12	20.5	-	17	-	31.5	28	3.5	6	M3	M4		
16	22	-	18.5	-	34	30.5	3.5	8	M4	M4		
20	24	34	19.5	29.5	36	31.5	4.5	7	M5	M6		
25	27.5	37.5	22.5	32.5	37.5	32.5	5	12	M6	M6		
32	Stroke=5 Stroke>5	30	40	23	33	40	33	7	13	M8	M6	
40	Stroke=5 Stroke>5	36.5	46.5	29.5	39.5	46.5	39.5	7	13	M8	M6	
50	Stroke=5 Stroke>5	38.5	48.5	30.5	40.5	48.5	40.5	8	15	M10	M8	
63	Stroke=5 Stroke>5	44	54	36	46	54	46	8	15	M10	M10	
80	Stroke=5 Stroke>5	53.5	63.5	43.5	53.5	63.5	53.5	10	20	M16	M12	
100	Stroke=5 Stroke>5	65	75	53	63	75	63	12	26	M20	M12	
125	Stroke=5 Stroke>5	99	109	63	75	99	83	16	30	M22	M14	

type	M	N		O	P		R	S	T	U	V	W
Bore/Symbol		Standard	With magnet		Standard	With magnet						
12	11	7.5	9	M5	5	7	-	25	15.5	22	6	5
16	11	8	9.5	M5	5.5		-	29	20	28	8	6
20	17	9	9.5	M5	5.5		-	36	25.5	36	10	8
25	17			M5	5.5		-	40	28	40	12	10
32	Stroke=5 Stroke>5	17	7.5 10.5 10.5	PT1/8"	6.5 7.5 7.5		4.5	45	34	-	16	14
	40	17	11	PT1/8"	8	4	53	40	-	16	14	
50	Stroke=5 Stroke>5	22	9 10.5 10.5	PT1/4"	9 10.5 10.5	7	64	50	-	20	17	
63	Stroke=5 Stroke>5	28.5	14 15 15	PT1/4"	9.5 10.5 10.5	7	77	60	-	20	17	
80		35.5	16	PT3/8"	14	6	98	77	-	25	22	
100		35.5	20	PT3/8"	17.5	6.5	117	94	-	32	27	
125		43.4	24.5	PT3/8"	24.5	11	142	114	-	36	32	

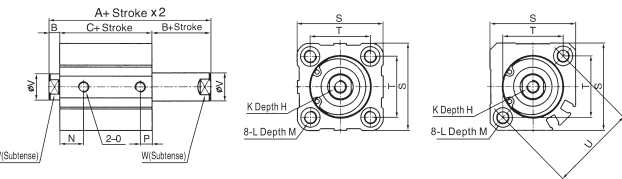
Dimension(mm):

CQD Dimensions

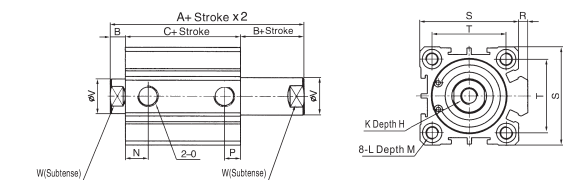
Φ12~Φ16



Φ20~Φ25



Φ32~Φ125(Stroke≤100)



type	Standard		With magnet		B	H	K	L
	Bore/Symbol	A	C	A	C			
12		32	25.2	39.4	32.4	3.5	6	M3
16		33	26	43	36	3.5	8	M4
20		35	26	47	38	4.5	7	M5
25		39	29	49	39	5	12	M6
32		44.5	30.5	54.5	40.5	7	13	M8
40		54	40	64	50	7	13	M8
50		56.5	40.5	66.5	50.5	8	15	M10
63	Stroke=5	58	42	68	52	8	12	M10
	Stroke>5						15	
80	Stroke≤15	71	51	81	61	10	14	M16
	Other						20	
100	Stroke≤15	84.5	60.5	94.5	60.5	12	18	M20
	Other						26	
125	Stroke≤15	115		115		16	22.5	M22
	Other						30	

type								
	Bore/Symbol	N	O	R	S	T	U	V
12		3.5	M5	-	25	15.5	6	6
16		3.5	M5	-	29	20	8	8
20		4.5	M5	-	36	25.5	7	10
25		5	M5	-	40	28	12	12
32		7	PT1/8"	4.5	45	34	13	16
40		7	PT1/8"	4	53	40	13	16
50		8	PT1/4"	7	64	50	15	20
63	Stroke=5	12	PT1/4"	7	77	60	-	20
	Stroke≤15	16						
80	Stroke≤15	16	PT3/8"	6	98	77	-	25
100	Stroke≤15	21	PT3/8"	6.5	117	94	-	32
125	Stroke≤15	24.5	PT3/8"	11	142	114	-	36

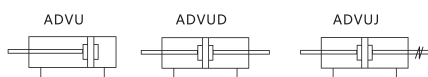


CQ

Compact Cylinder



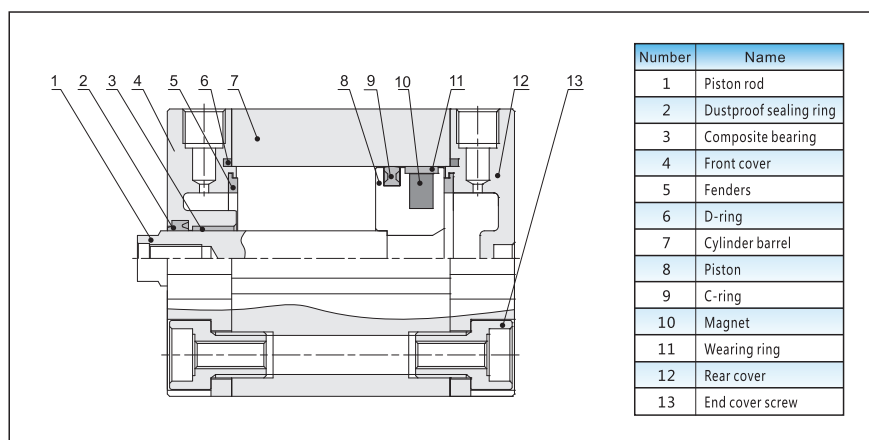
■ Symbol:



■ Product feature:

- 1.The cylinder body is connected with the front and rear covers threads, with good strength and convenient maintenance.
- 2.After inner diameter' s finishing machining, the cylinder body is hard oxidation treated with good wear durability.
- 3.The piston seal adopts special two-way sealing structure with compact size and oil storing function.
- 4.The compact structure helps to save the installation space.
- 5.With magnetic induction switch tank surrounding the cylinder body, it' s convenient to install the induction switch.
- 6.Various standard cylinder types are optional

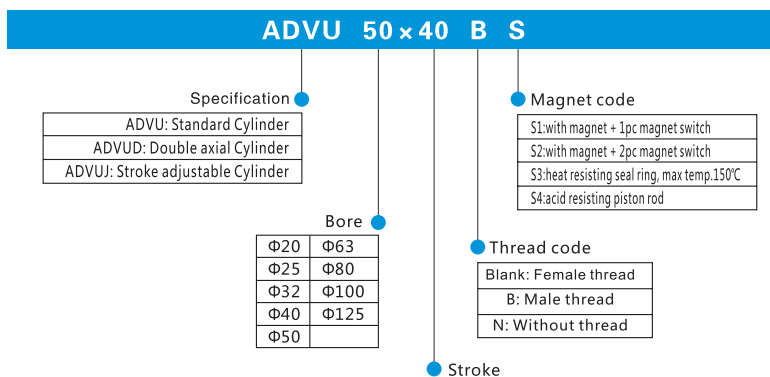
■ Inner structure drawing:



■ Specification:

Type	12	16	20	25	32	40	50	63	80	100	125
Motion	Double acting										
Series	ADVU, ADVUD, ADVUJ										
Fluid	Compressed air										
Working pressure range(MPa)	0.1~1										
Operating speed(mm/sec)	50~500										
Ambient temperature(°C)	-10~70										
Cushion	Bumper										
Port size (G)	M5		1/8"		1/4"		3/8"				

■ How to order:

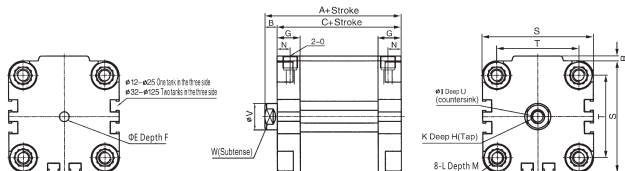


Compact Cylinder

Dimension(mm):

Standard Dimensions

Φ20~Φ125

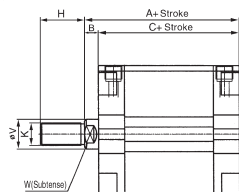


Bore/Symbol	A	B	C	E	F	G	H	I	K	L
12	42.5	4.5	38	6	4	11.5	6	3.3	M3	M4
16	42.5	4.5	38	6	4	11.5	8	4.5	M4	M4
20	42.5	4.5	38	6	4	11.5	12	5.5	M5	M5
25	45	5.5	39.5	6	4	11.5	12	5.5	M5	M5
32	50.5	6	44.5	6	4	14	14	6.5	M6	M6
40	52	6.5	45.5	6	4	14	14	6.5	M6	M6
50	53	7.5	45.5	6	4	14	16	8.5	M8	M8
63	57.5	7.5	50	8	4	15	16	8.5	M8	M10
80	64	8	56	8	4	16	20	10.5	M10	M10
100	76.5	10	66.5	8	4	19	24	12.5	M12	M10
125	92	11	81	8	4	20	24	12.5	M12	M10

Bore/Symbol	M	N	O	R	S	T	U	V	W
12	18	7	M5	1	18	28.5	1.5	6	5
16	18	7	M5	1	18	28.5	1.5	8	6
20	18.5	7	M5	1.5	36	22	2	10	8
25	18.5	7	M5	1.5	40	26	2	10	8
32	21.5	8	PT1/8"	2	50	32	2.6	12	10
40	21.5	8	PT1/8"	2.5	60	42	2.6	12	10
50	22	8	PT1/8"	3	68	50	3.3	16	13
63	24.5	8	PT1/8"	4	87	62	3.3	16	13
80	27.5	8.5	PT1/8"	4	107	82	4.7	20	17
100	32.5	10.5	PT1/4"	5	128	103	6.1	25	22
125	32.5	10.5	PT1/4"	-	134	110	6.1	25	22

ADVUB Dimensions

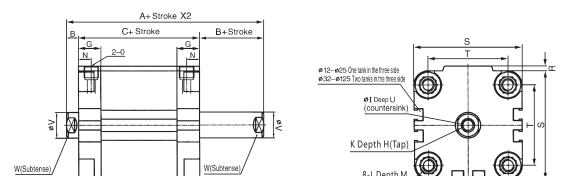
Φ20~Φ125



Bore/Symbol	A	B	C	H	K	V	W
12	42.5	4.5	38	16	M6×1	6	5
16	42.5	4.5	38	20	M8×1.25	8	6
20	42.5	4.5	38	22	M10×1.25	10	8
25	45	5.5	39.5	22	M10×1.25	10	8
32	50.5	6	44.5	22	M10×1.25	12	10
40	52	6.5	45.5	22	M10×1.25	12	10
50	53	7.5	45.5	24	M12×1.25	16	13
63	57.5	7.5	50	24	M12×1.25	16	13
80	64	8	56	32	M16×1.5	20	17
100	76.5	10	66.5	40	M20×1.5	25	22
125	92	11	81	40	M20×1.5	25	22

ADVUD Dimensions

Φ12~Φ125

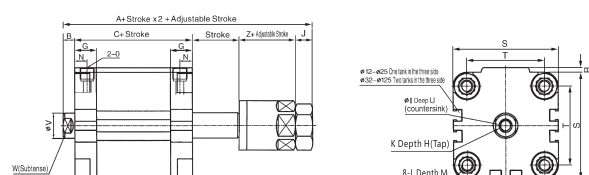


Bore/Symbol	A	B	C	G	H	I	K	L
12	47	4.5	38	11.5	8	3.3	M3	M4
16	47	4.5	38	11.5	10	4.5	M4	M4
20	47	4.5	38	11.5	12	5.5	M5	M5
25	50.5	5.5	39.5	11.5	12	5.5	M5	M5
32	56.5	6	44.5	14	14	6.5	M6	M6
40	58.5	6.5	45.5	14	14	6.5	M6	M6
50	60.5	7.5	45.5	14	16	8.5	M8	M8
63	65	7.5	50	15	16	8.5	M8	M10
80	72	8	56	16	20	10.5	M10	M10
100	86.5	10	66.5	19	24	12.5	M12	M10
125	103	11	81	20	24	12.5	M12	M10

Bore/Symbol	M	N	O	R	S	T	U	V	W
12	18.5	7	M5	1	29	18	1.5	6	5
16	18.5	7	M5	1	29	18	1.5	8	6
20	18.5	7	M5	1.5	36	22	2	10	8
25	18.5	7	M5	1.5	40	26	2	10	8
32	21.5	8	PT1/8"	2	50	32	2.6	12	10
40	21.5	8	PT1/8"	2.5	60	42	2.6	12	10
50	22	8	PT1/8"	3	68	50	3.3	16	13
63	24.5	8	PT1/8"	4	87	62	3.3	16	13
80	27.5	8.5	PT1/8"	4	107	82	4.7	20	17
100	32.5	10.5	PT1/4"	5	128	103	6.1	25	22
125	32.5	10.5	PT1/4"	-	134	110	6.1	25	22

ADVUJ Dimensions

Φ12~Φ125



Bore/Symbol	A	B	C	G	H	I	K	L	M
12	63.5	4.5	38	11.5	8	3.3	M3	M4	18.5
16	67.5	4.5	38	11.5	10	4.5	M4	M4	18.5
20	69.5	4.5	38	11.5	12	5.5	M5	M5	18.5
25	72	5.5	39.5	11.5	12	5.5	M5	M5	18.5
32	77.5	6	44.5	14	14	6.5	M6	M6	21.5
40	79	6.5	45.5	14	14	6.5	M6	M6	21.5
50	81	7.5	45.5	14	16	8.5	M8	M8	22
63	85.5	7.5	50	15	16	8.5	M8	M10	24.5
80	95	8	56	16	20	10.5	M10	M10	27.5
100	115.5	10	66.5	19	24	12.5	M12	M10	32.5
125	131	11	81	20	24	12.5	M12	M10	32.5

Bore/Symbol	N	O	R	S	T	U	V	W	Z
12	7	M5	1	29	18	1.5	6	5	16
16	7	M5	1	29	18	1.5	8	6	19
20	7	M5	1.5	36	22	2	10	8	21
25	7	M5	1.5	40	26	2	10	8	21
32	8	PT1/8"	2	50	32	2.6	12	10	21
40	8	PT1/8"	2.5	60	42	2.6	12	10	21
50	8	PT1/8"	3	68	50	3.3	16	13	21
63	8	PT1/8"	4	87	62	3.3	16	13	21
80	8.5	PT1/8"	4	107	82	4.7	20	17	23
100	10.5	PT1/4"	5	128	103	6.1	25	22	29
125	10.5	PT1/4"	-	134	110	6.1	25	22	29



ADVU

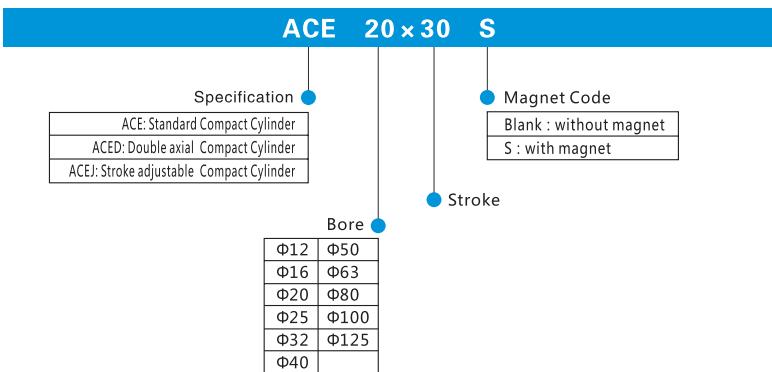
ISO21287 Standard Compact Cylinder



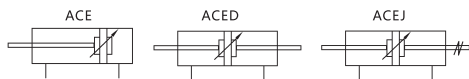
Specification:

Type	12	16	20	25	32	40	50	63	80	100	125
Motion	Double acting										
Series	ACE, ACED, ACEJ										
Fluid	Compressed air										
Working pressure range (MPa)	0.1~1										
Operating speed(mm/sec)	50~800										
Ambient temperature(°C)	-20~80										
Cushion	Bumper										
Port size (G)	M5×0.8			1/8"						1/4"	

How to order:



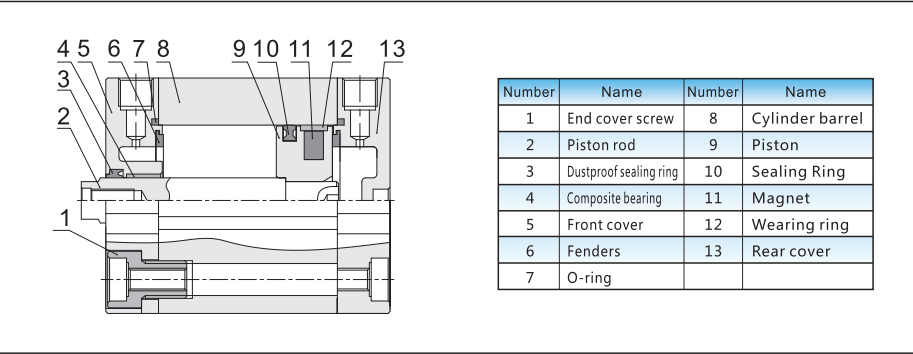
Symbol:



Product feature:

1. Execute ISO21287 standard with high universality of installation dimension.
2. The cylinder body is connected with the front and rear covers threads, with good strength and convenient maintenance.
3. After inner diameter's finishing machining, the cylinder body is hard oxidation treated with good wear durability.
4. The piston seal adopts special two-way sealing structure with compact size and oil storing function.
5. The compact structure helps to save the installation space.
6. With magnetic induction switch tank surrounding the cylinder body, it's convenient to install the induction switch.
7. The fenders inside can absorb the remaining energy from high speed running and machinery rotation.

Inner structure drawing:

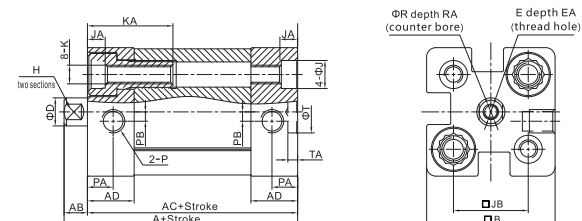


ISO21287 Standard Compact Cylinder

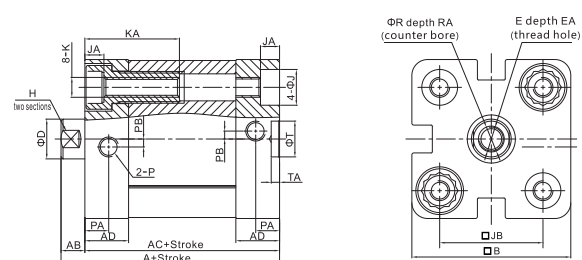
■ Dimension(mm):

ACE Standard Dimensions

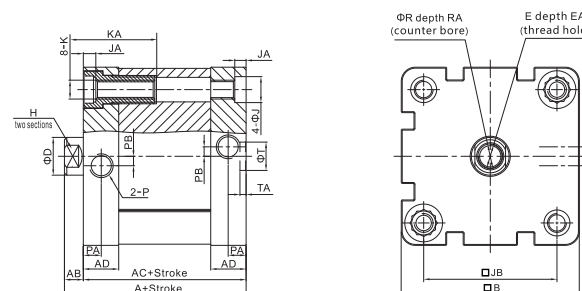
■ Φ12



■ Φ16~Φ25



■ Φ32~Φ63



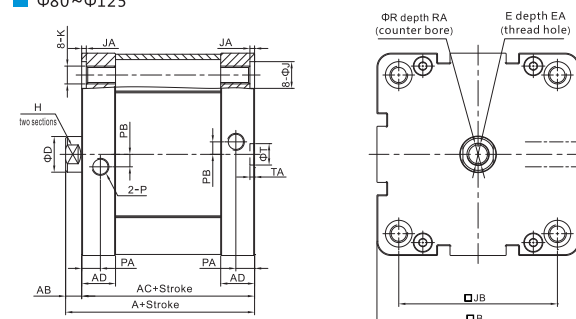
Bore/Symbol	A	AB	AC	AD	B	D	E	EA	H	J	JA	JB
12	40	5	35	10	27.5	6	M3×0.5	8	5	6	3.5	16
16	40	5	35	10	30	8	M4×0.7	10	7	6	3.5	18
20	43	6	37	10.5	35.5	10	M6×1.0	14	9	9	4.5	22
25	45	6	39	11	40	10	M6×1.0	14	9	9	4.5	26
32	51	7	44	14	49.5	12	M8×1.25	16	10	9	4.5	32.5
40	52.5	7	45.5	14.5	55	12	M8×1.25	16	10	9	4.5	38
50	53.5	8	45.5	14.5	65.5	16	M10×1.5	20	13	11	4.5	46.5
63	57	8	49	15	75.5	16	M10×1.5	20	13	11	4.5	56.5

Bore/Symbol	K	KA	P	PA	PB	R	RA	T	TA
12	M4×0.7	18.5	M5×0.8	5.5	2	3.5	1.5	9	2.1
16	M4×0.7	18.5	M5×0.8	5.5	2	4.5	1.5	9	2.1
20	M5×0.8	23.5	M5×0.8	6	2	6.5	2.5	9	2.1
25	M5×0.8	23.5	M5×0.8	6	2	6.5	2.5	9	2.1
32	M6×1.0	28.5	PT1/8"	7.5	3	8.5	3.5	9	2.1
40	M6×1.0	28.5	PT1/8"	7.5	3	8.5	3.5	9	2.1
50	M8×1.25	30.5	PT1/8"	7.5	3	10.5	4.5	12	2.6
63	M8×1.25	30.5	PT1/8"	7.5	4	10.5	4.5	12	2.6

Notes:With or without magnet, the dimensions are the same..

ACE Standard Dimensions

■ Φ80~Φ125



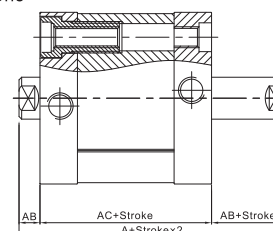
Bore/Symbol	A	AB	AC	AD	B	D	E	EA	H	J	JA	JB
80	63	9	54	16	95.5	20	M12×1.75	20	17	15	2.5	72
100	76	9	67	19	113.5	20	M12×1.75	20	17	15	2.5	89
125	92	11	81	20	134.5	25	M16×2.0	25	21	-	-	110

Bore/Symbol	K	P	PA	PB	R	RA	T	TA
80	M10×1.5	PT1/8"	8.5	6	12.5	6	12	2.6
100	M10×1.5	PT1/8"	10.5	7	12.5	6	12	2.6
125	M12×1.75	PT1/4"	10.5	8	16.5	7	12	2.6

Notes:With or without magnet, the dimensions are the same..

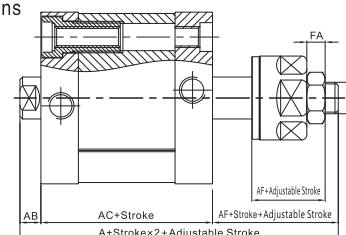
ACED Standard Dimensions

■ Φ12~Φ125



ACEJ Standard Dimensions

■ Φ12~Φ125

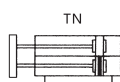


Bore/Symbol	A(ACED)	A(ACEJ)	AB	AC	AF	FA	E
12	45	57	5	35	17	4	M5×0.8
16	45	61	5	35	21	5	M6×1.0
20	49	68	6	37	25	6	M8×1.25
25	51	70	6	39	25	6	M8×1.25
32	58	78	7	44	27	6	M10×1.25
40	59.5	79.5	7	45	27	6	M10×1.25
50	61.5	81.5	8	45	28	7	M12×1.25
63	65	85	8	49	28	7	M12×1.25
80	72	92	9	54	29	8	M16×1.5
100	85	105	9	67	29	8	M16×1.5
125	103	127.5	11	81	35	10	M20×1.5

Double Shaft Cylinder



Symbol:



Theoretical force output formula:

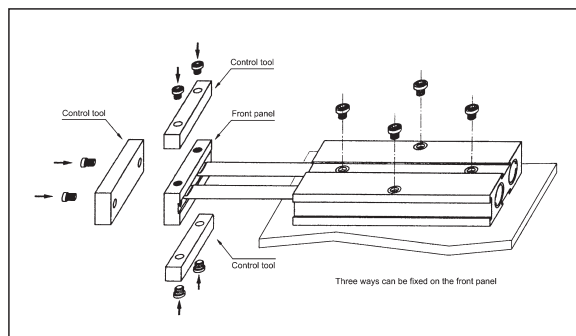
$$F = 2 \times P \times A$$

Piston area pressed (cm²)
Operating pressure (kgf/cm²)
Theoretical force output (kgf)

Product feature:

1. Double piston rods make good anti-bend and torsion, warrant its life and preminent guiding performance.
2. Assemble the groove in advance, make it easier when assemble, set and adjust sensor switch.
3. No need parts and save the space.
4. Has simple design and easy maintenance and disassembly.

Mounting type:



Specification:

Type	10	16	20	25	32
Motion	Double acting				
Fluid	Compressed air				
Working pressure range (MPa)	0.1~1				
Warrant endure-pressure (MPa)	1				
Ambient temperature range (°C)	-5~60				
Speed range (mm/s)	100~500				
Stroke adjustable (mm)	-10~0				
Cushion	Bumper				
Port size	M5×0.8				1/8"

How to order:

TN 20 × 50 S				
Specification	Bore	Magnet code	Stroke	
TN: Double Shaft Cylinder	Φ10 Φ16 Φ20 Φ25 Φ32	S1: with magnet + 1pc magnet switch S2: with magnet + 2pc magnet switch S3: heat resisting seal ring, max temp. 150°C S4: acid resisting piston rod		

Stroke:

Bore (mm)	Standard Stroke												Max. Stroke	Stroke Permitted
10	10	20	30	40	50	60	70						70	100
16	10	20	30	40	50	60	70	80	90	100	125	150	150	200
20	10	20	30	40	50	60	70	80	90	100	125	150	150	200
25	10	20	30	40	50	60	70	80	90	100	125	150	150	200
32	10	20	30	40	50	60	70	80	90	100	125	150	150	200

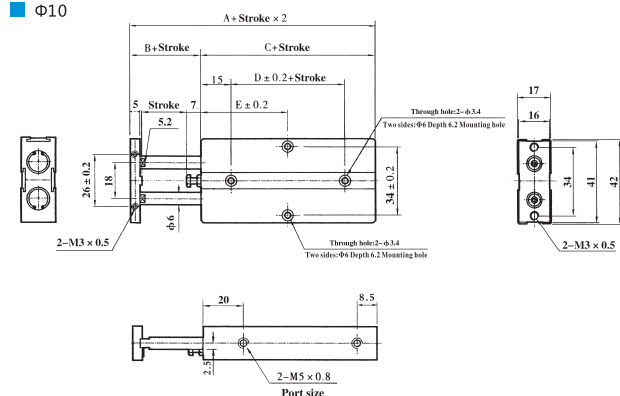
Theoretical force output fig:

Bore(mm)	Piston rod dia. (mm)	Acting type		Compressed area (cm ²)	Air pressure(kgf/cm ²)						
					1	2	3	4	5	6	7
10	6	Double acting	Push side	1.57	-	3.14	4.70	6.28	7.84	9.42	10.98
			Draw side	1.00	-	2.00	3.00	4.00	5.00	6.00	7.00
16	8	Double acting	Push side	4.02	4.02	8.04	12.06	16.08	20.10	24.12	28.14
			Draw side	3.01	3.01	6.02	9.03	12.04	15.05	18.06	21.07
20	10	Double acting	Push side	6.28	6.28	12.56	18.84	25.12	31.40	37.68	43.96
			Draw side	4.71	4.71	9.42	14.13	18.84	23.55	28.26	32.97
25	12	Double acting	Push side	9.81	9.81	19.62	29.43	39.24	49.05	58.86	68.67
			Draw side	7.55	7.55	15.10	22.65	30.20	37.75	45.30	52.85
32	16	Double acting	Push side	16.07	16.07	32.14	48.21	64.28	80.35	96.42	112.49
			Draw side	12.05	12.05	24.10	36.15	48.20	60.25	72.30	84.35

Double Shaft Cylinder

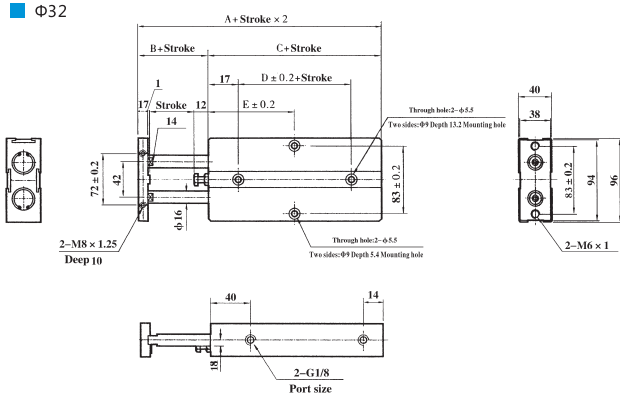
■ Dimension(mm):

■ Φ10



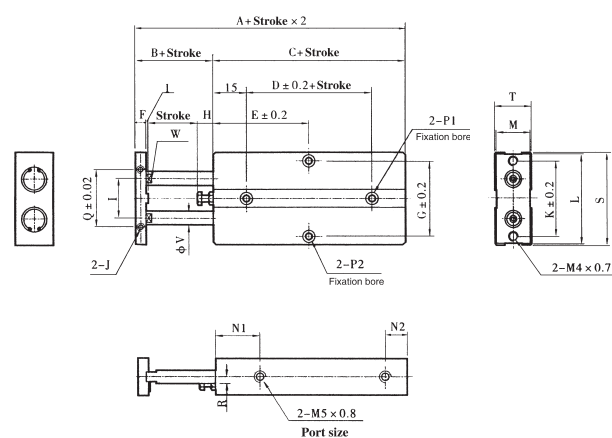
Symbol	A	B	C	D	E						
Bore/Symbol					10	20	30	40	50	60	70
10	58	12	46	10	30	30	35	40	45	50	55

■ Φ32



Symbol	A	B	C	D	E											
Bore/Symbol					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

■ Φ16~Φ25

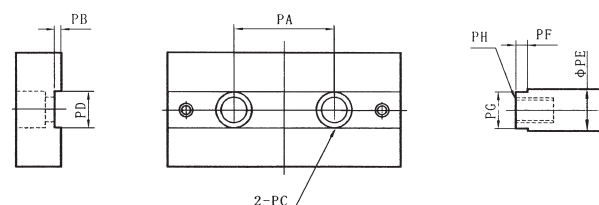


Symbol	A	B	C	D	E												F	G	H	I
Bore/Symbol					10	20	30	40	50	60	70	80	90	100	125	150				
16	68	15	53	20	30	35	40	45	50	55	60	65	70	75	87.5	100	8	47	6	24
20	78	20	58	20	35	35	40	45	50	55	60	65	70	75	87.5	100	10	55	9	28
25	81	19	62	30	40	40	45	50	55	60	65	70	75	80	92.5	105	10	66	8	34

Bore/Symbol	J	K	L	M	N1	N2	P1	P2	Q	R	S	T	V	W
16	M4×0.7depth5mm	47	53	20	22	11	Double: Φ7.5depth7.2mm Clearance: Φ4.5	Double: Φ8depth5mm Clearance: Φ4.5	34	4	54	21	8	6.2
20	M4×0.7depth5mm	55	61	24	25	12	Double: Φ7.5depth7.2mm Clearance: Φ4.5	Double: Φ8depth5mm Clearance: Φ4.5	44	6	62	25	10	8.2
25	M4×0.7depth6mm	66	72	29	27	12	Double: Φ7.5depth7.2mm Clearance: Φ4.5	Double: Φ8depth5mm Clearance: Φ4.5	56	7	73	30	12	10.2

Front board dimension

■ Φ10~Φ32

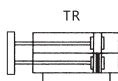


Bore/Symbol	PA	PB	PC	PD	PE	PF	PG	PH
10	18	0.7	Double: Φ6.2depth3.5mm, Clearance: Φ4.5	5.2	6	3	5.2	M3×0.5depth5mm
16	24	1	Double: Φ7.8depth4.6mm, Clearance: Φ4.5	6.2	8	3	6.2	M4×0.7depth6mm
20	28	1	Double: Φ11depth6.8mm, Clearance: Φ4.5	8.2	10	3	8.2	M6×1depth8mm
25	34	1	Double: Φ11depth6.8mm, Clearance: Φ4.5	10.2	12	3	10.2	M6×1depth8mm
32	42	2	Double: Φ17depth12mm, Clearance: Φ4.5	14	16	3	14	M8×1.25depth14mm

Double Shaft Cylinder



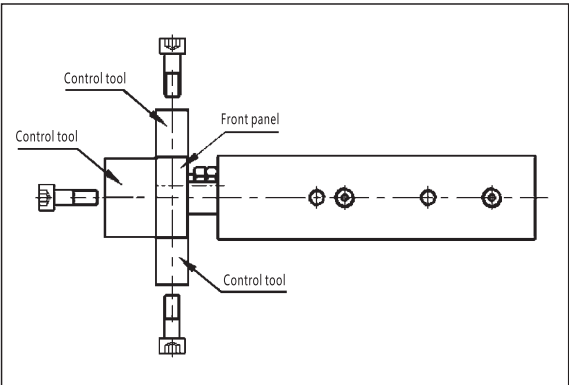
Symbol:



Product feature:

- 1.Embedded type body installs fixed forms to save installation space.
- 2.With a certain bending and torsion resistance, it can bear a certain side load.
- 3.The three sides of the fixed plate all install holes to help multiposition loading conveniently.
- 4.The front fenders can adjust cylinders' stroke and ease the impact.
- 5.The standard configuration for cylinder is with magnet attached. Without magnet is not optional.

Mounting type



Specification:

Type	6	10	15	20	25	32
Motion	Double acting					
Fluid	Compressed air					
Working Pressure (MPa)	0.1~1					
Warrant endure-pressure (MPa)	1					
Ambient temperature range (°C)	-5~60					
Speed range (mm/s)	100~500					
Stroke adjustable (mm)	-10~0					
Cushion	Bumper					
Port size	M5×0.8				1/8"	

How to order:

CXS 20 × 50 S

Specification: CXS: Double Shaft Cylinder

Bore: Φ6, Φ10, Φ15, Φ20, Φ25, Φ32

Stroke: 50

Magnet code: Blank: without magnet, S: with magnet

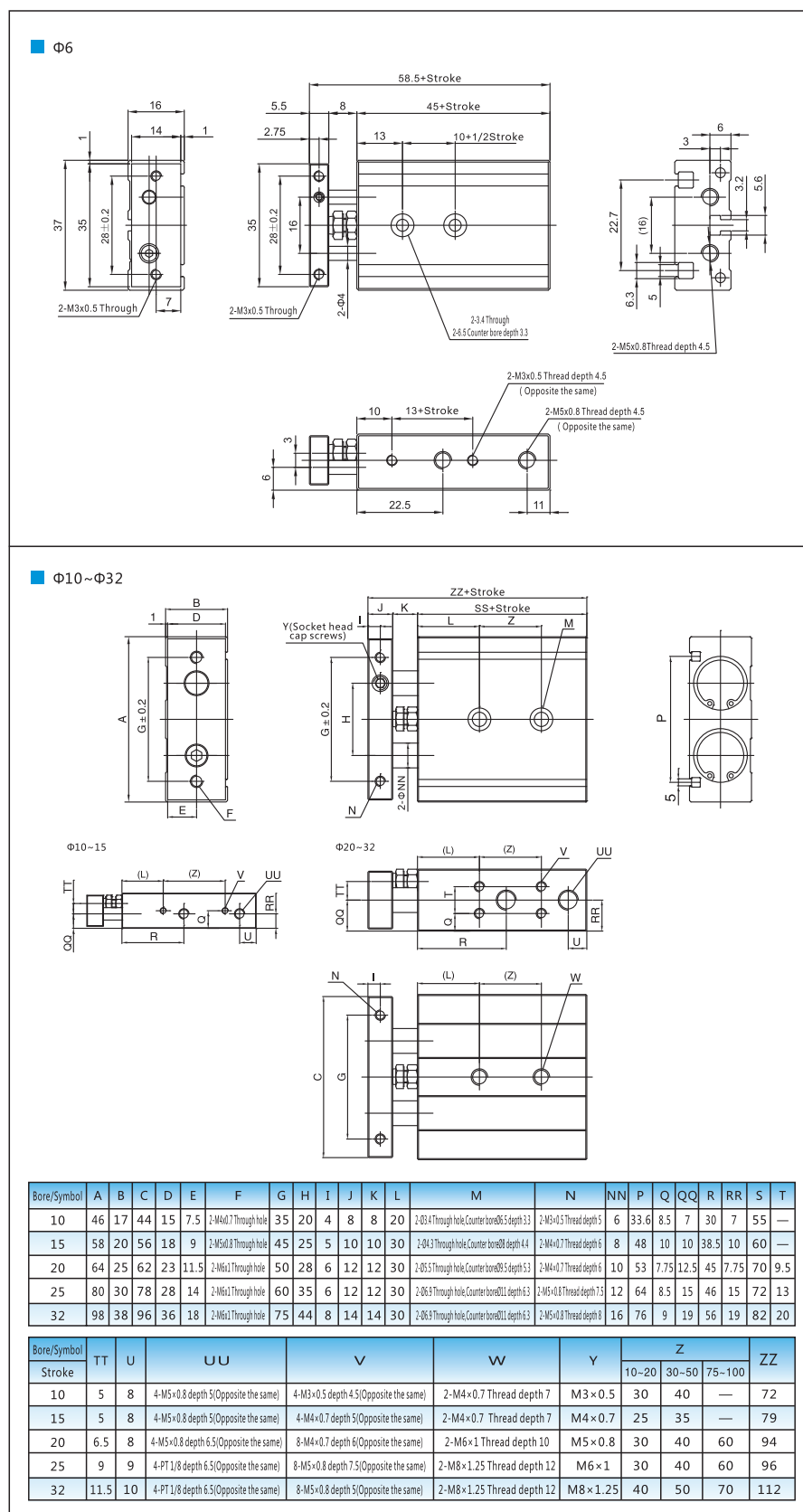
Stroke:

Bore(mm)	Standard Stroke	Max. Stroke
6	10 20 30 40 50	50
10	10 20 30 40 50 60 70 80 90 100	100
16	10 20 30 40 50 60 70 80 90 100 125 150 175 200	200
20	10 20 30 40 50 60 70 80 90 100 125 150 175 200	200
25	10 20 30 40 50 60 70 80 90 100 125 150 175 200	200
32	10 20 30 40 50 60 70 80 90 100 125 150 175 200	200

Inner structure drawing:

Number	Name	Number	Name	Number	Name
1	Fixed plate	8	Dustproof sealing ring	15	Sealing ring
2	Fenders	9	Front cover	16	Piston
3	Hexagon socket cap screws	10	O-ring	17	Wear-resistant belt
4	Adjustable bolt	11	Cylinder barrel	18	O-ring
5	Hexagonal nut	12	Anti-collision gasket	19	Rear cover
6	Piston rod	13	Magnet seat		
7	Circlip for hole	14	Magnet		

Dimension(mm):



MGP Series Cylinder

Three Shaft Cylinder



Specification:

Type	12	16	20	25	32	40	50	63
Motion	Double acting							
Fluid	Compressed air							
Working Pressure (MPa)	0.1~1							
Warrant endure-pressure (MPa)	1.5							
Ambient temperature range (°C)	-20~70							
Speed range (mm/s)	30~500							
Cushion	Bumper							
Port size	M5×0.8		1/8"			1/4"		

How to order:

MGP M 50 × 50 S

Specification

MGP: Three Shaft Cylinder

Bearing code

M: Copper sleeve bearings

L: Linear bearings

Bore

Φ12

Φ16

Φ20

Φ25

Φ32

Φ40

Φ50

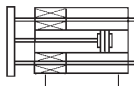
Φ63

Magnet code

S: with magnet

Stroke

Symbol:



Product feature:

1. Execute JIS standard.
2. Two guide rods made of special bearing steel are guiding through linear bearing or bronze bearing with high torsion and lateral loading resistance.
3. The driver element and guiding element are in the same body with no extra accessory, smallest need of space, input port optional and more convenient installation.
4. The bottom and rear of the body and fixed plate are all equipped with two accurate dowel holes to supply higher accuracy of positioning installation in a place of higher requirement on accuracy.
5. Four magnetic inductive switch grooves are on the body to supply various installation ways for inductive switch.
6. Special design on the body supply multidirectional installation of fixed type.

Inner structure drawing:

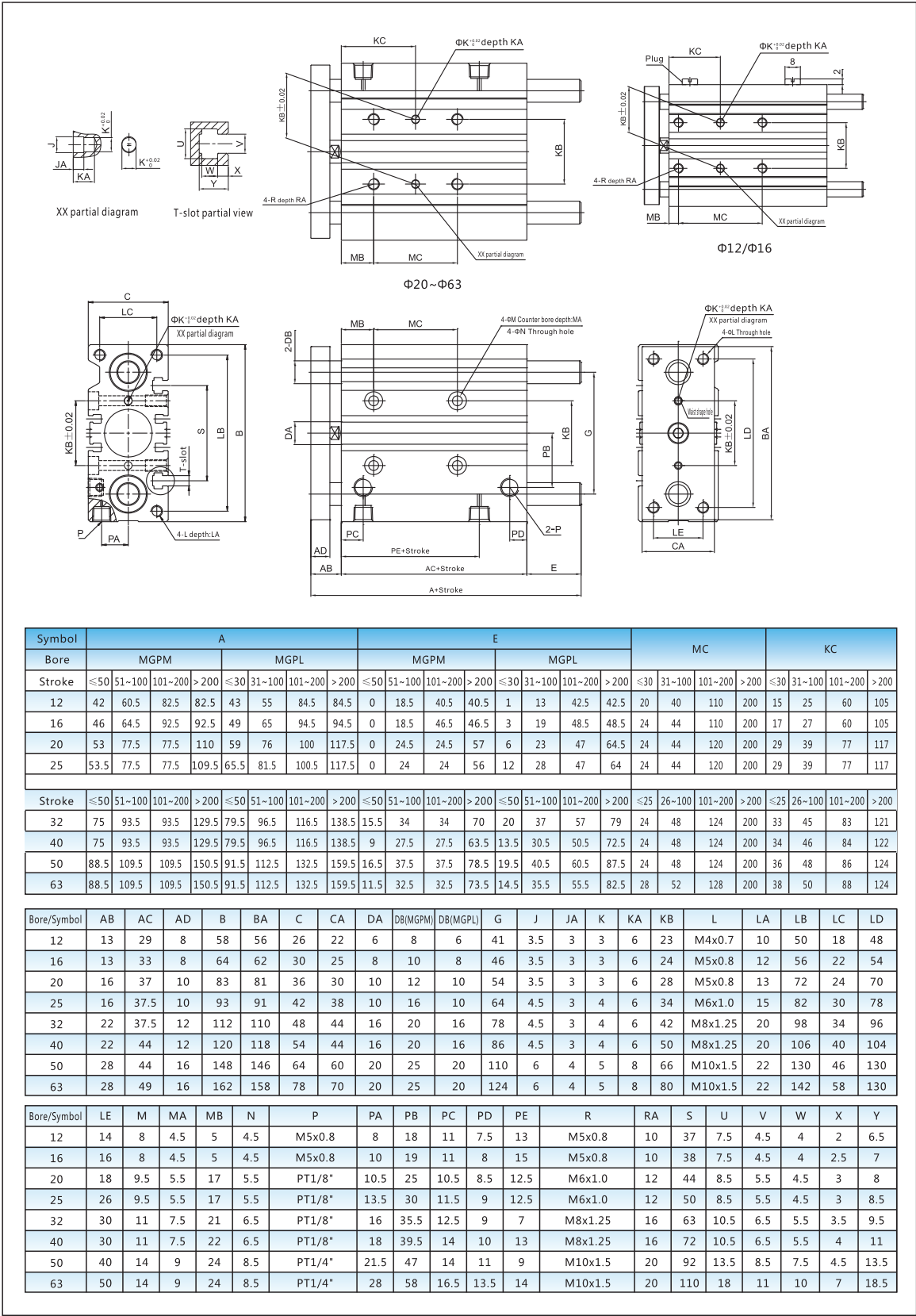
Number	Name	Number	Name
1	Fixed plate	10	Linear bearings/Copper sleeve bearings
2	Guide rod	11	Rear cover
3	Hexagon socket cap screws	12	Sealing ring
4	Cylinder barrel	13	Piston
5	Front cover	14	Magnet seat
6	Dustproof sealing ring	15	Fenders
7	Piston rod	16	Wear-resistant belt
8	O-ring	17	Magnet
9	Retaining ring for hole		

MGP Series Cylinder

Three Shaft Cylinder



Dimension(mm):



Symbol	A								E								MC				KC			
Bore	MGPM				MGPL				MGPM				MGPL											
Stroke	≤50	51~100	101~200	>200	≤30	31~100	101~200	>200	≤50	51~100	101~200	>200	≤30	31~100	101~200	>200	≤30	31~100	101~200	>200	≤30	31~100	101~200	>200
12	42	60.5	82.5	82.5	43	55	84.5	84.5	0	18.5	40.5	40.5	1	13	42.5	42.5	20	40	110	200	15	25	60	105
16	46	64.5	92.5	92.5	49	65	94.5	94.5	0	18.5	46.5	46.5	3	19	48.5	48.5	24	44	110	200	17	27	60	105
20	53	77.5	110	110	59	76	107.5	107.5	0	24.5	57	57	6	23	47	64.5	24	44	120	200	29	39	77	117
25	53.5	77.5	109.5	109.5	65.5	81.5	100.5	100.5	0	24	54	56	12	28	47	64	24	44	120	200	29	39	77	117

Stroke	≤50	51~100	101~200	>200	≤50	51~100	101~200	>200	≤50	51~100	101~200	>200	≤50	51~100	101~200	>200	≤25	26~100	101~200	>200	≤25	26~100	101~200	>200
32	75	93.5	93.5	129.5	79.5	96.5	116.5	138.5	15.5	34	34	70	20	37	57	79	24	48	124	200	33	45	83	121
40	75	93.5	93.5	129.5	79.5	96.5	116.5	138.5	9	27.5	27.5	63.5	13.5	30.5	50.5	72.5	24	48	124	200	34	46	84	122
50	88.5	109.5	109.5	150.5	91.5	112.5	132.5	159.5	16.5	37.5	37.5	78.5	19.5	40.5	60.5	87.5	24	48	124	200	36	48	86	124
63	88.5	109.5	109.5	150.5	91.5	112.5	132.5	159.5	11.5	32.5	32.5	73.5	14.5	35.5	55.5	82.5	28	52	128	200	38	50	88	124

Bore/Symbol	AB	AC	AD	B	BA	C	CA	DA	DB(MGPM)	DB(MGPL)	G	J	JA	K	KA	KB	L	LA	LB	LC	LD
12	13	29	8	58	56	26	22	6	8	6	41	3.5	3	3	6	23	M4x0.7	10	50	18	48
16	13	33	8	64	62	30	25	8	10	8	46	3.5	3	3	6	24	M5x0.8	12	56	22	54
20	16	37	10	83	81	36	30	10	12	10	54	3.5	3	3	6	28	M5x0.8	13	72	24	70
25	16	37.5	10	93	91	42	38	10	16	10	64	4.5	3	4	6	34	M6x1.0	15	82	30	78
32	22	37.5	12	112	110	48	44	16	20	16	78	4.5	3	4	6	42	M8x1.25	20	98	34	96
40	22	44	12	120	118	54	44	16	20	16	86	4.5	3	4	6	50	M8x1.25	20	106	40	104
50	28	44	16	148	146	64	60	20	25	20	110	6	4	5	8	66	M10x1.5	22	130	46	130
63	28	49	16	162	158	78	70	20	25	20	124	6	4	5	8	80	M10x1.5	22	142	58	130

Bore/Symbol	LE	M	MA	MB	N	P	PA	PB	PC	PD	PE	R	RA	S	U	V	W	X	Y
12	14	8	4.5	5	4.5	M5x0.8	8	18	11	7.5	13	M5x0.8	10	37	7.5	4.5	4	2	6.5
16	16	8	4.5	5	4.5	M5x0.8	10	19	11	8	15	M5x0.8	10	38	7.5	4.5	4	2.5	7
20	18	9.5	5.5	17	5.5	PT1/8"	10.5	25	10.5	8.5	12.5	M6x1.0	12	44	8.5	5.5	4.5	3	8
25	26	9.5	5.5	17	5.5	PT1/8"	13.5	30	11.5	9	12.5	M6x1.0	12	50	8.5	5.5	4.5	3	8.5
32	30	11	7.5	21	6.5	PT1/8"	16	35.5	12.5	9	7	M8x1.25	16	63	10.5	6.5	5.5	3.5	9.5
40	30	11	7.5	22	6.5	PT1/8"	18	39.5	14	10	13	M8x1.25	16	72	10.5	6.5	5.5	4	11
50	40	14	9	24	8.5	PT1/4"	21.5	47	14	11	9	M10x1.5	20	92	13.5	8.5	7.5	4.5	13.5
63	50	14	9	24	8.5	PT1/4"	28	58	16.5	13.5	14	M10x1.5	20	110	18	11	10	7	18.5



MGP

Multi-positional Fixed Cylinder



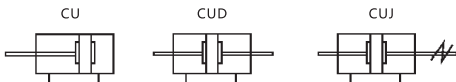
Specification:

Type	6	10	16	20	25	32
Motion	Double acting					
Series	CU, CUD, CUJ					
Fluid	Compressed air					
Working Pressure (MPa)	0.1~1					
Speed range (mm/s)	50~800					
Ambient temperature range (°C)	-20~80					
Cushion	Bumper					
Port size	M5×0.8					1/8"

How to order:

CU 32 × 30 S		
Specification	Bore	Magnet code
		Blank: without magnet
		S: with magnet
CU: Multi-positional Fixed Cylinder CUD: Double axial Multi-positional Fixed Cylinder CUJ: Double axial adjustable Multi-positional Fixed Cylinder	Φ6	Stroke
	Φ10	
	Φ16	
	Φ20	
	Φ25	
	Φ32	

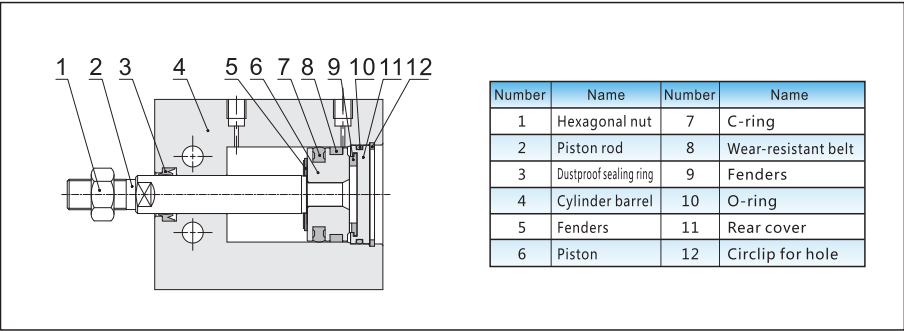
Symbol:



Product feature:

- 1.The body with various fixed types is easy for installation and using.
- 2.Varieties of cylinders can be fixed together to save the installation space.
- 3.The piston rod has high guiding precision and no need of extra lubricant.
- 4.Various standard cylinders are optional for customers.
- 5.Choosing high temperature resistant seal materials to ensure cylinders can work normally under the temperature of 150°C.

Inner structure drawing:

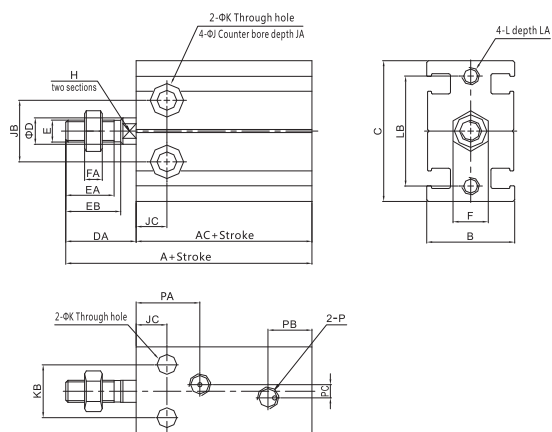


Multi-positional Fixed Cylinder

■ Dimension(mm):

CU Standard Dimension

■ Φ6~Φ32

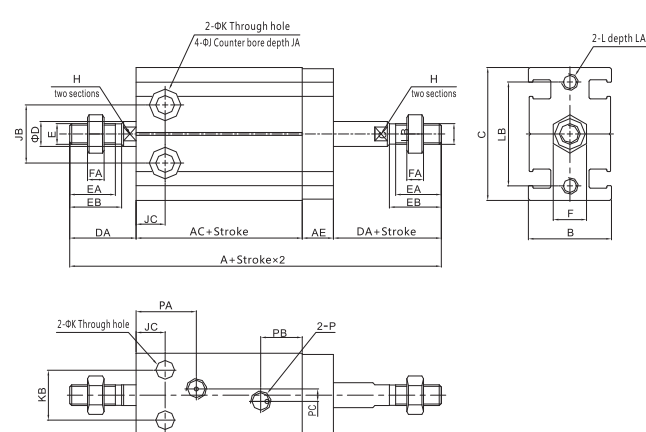


Bore/Symbol	A(Without magnet)	A(With magnet)	AC(Without magnet)	AC(With magnet)	B	C	D	DA	E	EA	EB	F
6	46	46	33	33	16.5	22	3	13	M3×0.5	7	8	5.5
10	52	52	36	36	16.5	24	4	16	M4×0.7	10	11	7
16	46	56	30	40	20	32	6	16	M5×0.8	11	12.5	8
20	55	65	36	46	26	40	8	19	M6×1.0	12	14	10
25	63	73	40	50	32	50	10	23	M8×1.25	15.5	18	12
32	69	79	42	52	40	62	12	27	M10×1.25	19.5	22	17

Bore/Symbol	FA	H	J	JA	JB	JC	K	KB	L	LA	LB	P	PA	PB	PC
6	2.5	-	6	5	10	7	3.3	7	M3×0.5	5	17	M5×0.8	14	10	-
10	2	-	6	5.5	11	7	3.3	9	M3×0.5	5	18	M5×0.8	15.5	10	-
16	4	5	7.5	6.5	14	7	4.5	12	M4×0.7	5	25	M5×0.8	14.5	10	3
20	5	6	9.5	8	16	9	5.5	16	M5×0.8	7.5	30	M5×0.8	19	11	9
25	6	8	9.5	9	20	10	5.5	20	M5×0.8	8	38	M5×0.8	21.5	8.5	12
32	6	10	11	11.5	24	11	6.5	24	M6×1.0	9	48	PT1/8"	23	12.5	13

CUD Standard Dimension

■ Φ6~Φ32

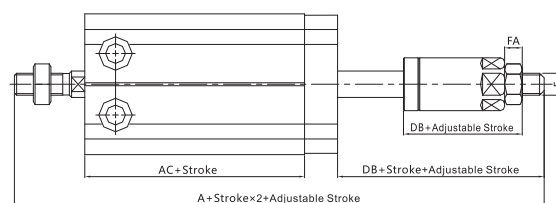


Bore/Symbol	A(Without magnet)	A(With magnet)	AC(Without magnet)	AC(With magnet)	AE	B	C	D	DA	E	EA	EB	F
6	70	70	38	38	6	16.5	22	3	13	M3×0.5	7	8	5.5
10	74	74	36	36	6	16.5	24	4	16	M4×0.7	10	11	7
16	69.5	79.5	30	40	7.5	20	32	6	16	M5×0.8	11	12.5	8
20	83	93	36	46	9	26	40	8	19	M6×1.0	12	14	10
25	95	105	40	50	9	32	50	10	23	M8×1.25	15.5	18	12
32	106	116	42	52	10	40	62	12	27	M10×1.25	19.5	22	17

Bore/Symbol	FA	H	J	JA	JB	JC	K	KB	L	LA	LB	P	PA	PB	PC
6	2.5	-	6	5	10	7	3.3	7	M3×0.5	5	17	M5×0.8	14	16	-
10	2	-	6	5.5	11	7	3.3	9	M3×0.5	5	18	M5×0.8	15.5	16	-
16	4	5	7.5	6.5	14	7	4.5	12	M4×0.7	5	25	M5×0.8	14.5	17.5	3
20	5	6	9.5	8	16	9	5.5	16	M5×0.8	7.5	30	M5×0.8	19	20	9
25	6	8	9.5	9	20	10	5.5	20	M5×0.8	8	38	M5×0.8	21.5	17.5	12
32	6	10	11	11.5	24	11	6.5	24	M6×1.0	9	48	PT1/8"	23	22.5	13

CUJ Standard Dimension

■ Φ6~Φ32



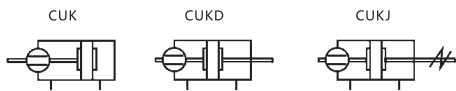
Bore/Symbol	A(Without magnet)	A(With magnet)	AC(Without magnet)	AC(With magnet)	DB	E	FA
6	70	70	38	38	13	M3×0.5	2.5
10	73	73	36	36	15	M4×0.7	2
16	70.5	80.5	30	40	17	M5×0.8	4
20	85	95	36	46	21	M6×1.0	5
25	97	107	40	50	25	M8×1.25	6
32	106	116	42	52	27	M10×1.25	6

Note: Unspecified dimensions are the same as standard.

Multi-positional Fixed Cylinder



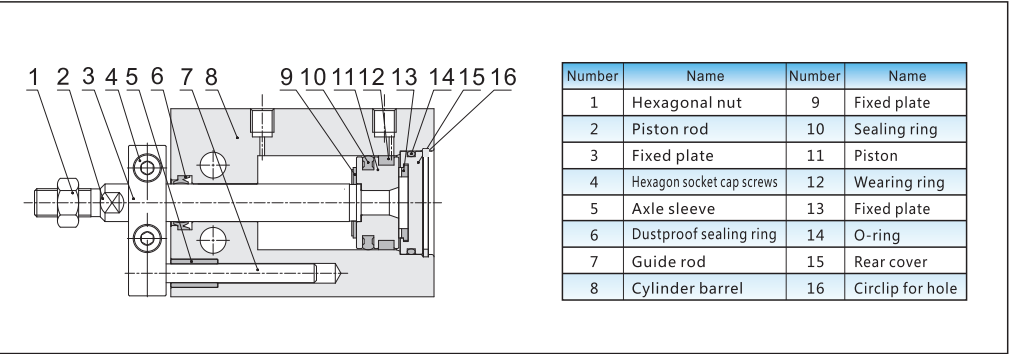
Symbol:



Product feature:

1. The body with various fixed types is easy for installation and using.
2. Varieties of cylinders can be fixed together to save the installation space.
3. The piston rod has high guiding precision and no need of extra lubricant.
4. The fixed block of piston rod is equipped to prevent piston rod from rotation.
5. Various standard cylinders are optional for customers.
6. Choosing high temperature resistant seal materials to ensure cylinders can work normally under the temperature of 150°C.

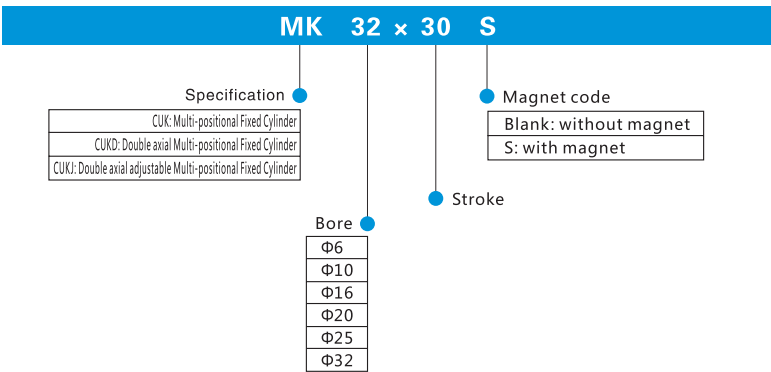
Inner structure drawing:



Specification:

Type	6	10	16	20	25	32
Motion	Double acting					
Series	CUK, CUKD, CUKJ					
Fluid	Compressed air					
Working Pressure (MPa)	0.1~1					
Speed range (mm/s)	50~800					
Ambient temperature range (°C)	-20~80					
Cushion	Bumper					
Port size	M5×0.8					1/8"

How to order:

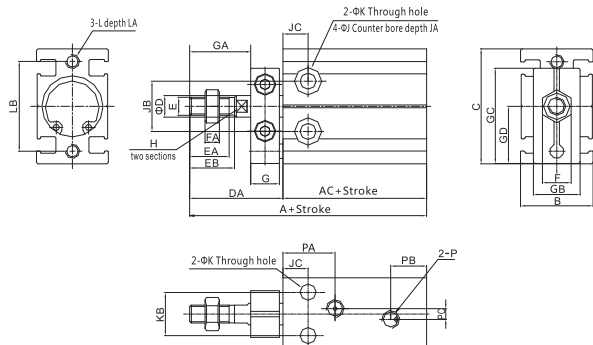


Multi-positional Fixed Cylinder

■ Dimension(mm):

CUK Standard Dimension

■ Φ6~Φ32



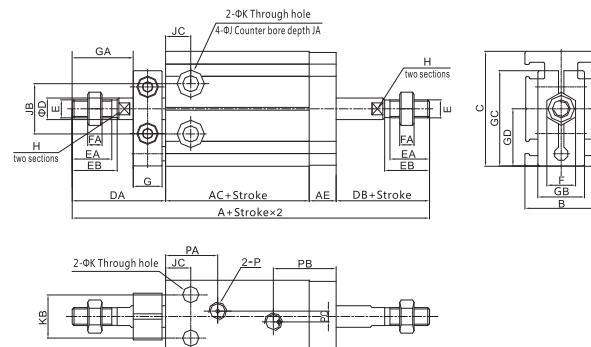
Bore/Symbol	A(Without magnet)	A(With magnet)	AC(Without magnet)	AC(With magnet)	B	C	D	DA	E	EA	EB	F
6	51	51	33	33	16.5	22	3	18	M3×0.5	7	8	5.5
10	57	57	36	36	16.5	24	4	21	M4×0.7	10	11	7
16	56	66	30	40	20	32	6	26	M5×0.8	11	12.5	8
20	65	75	36	46	26	40	8	29	M6×1.0	12	14	10
25	73	83	40	50	32	50	10	33	M8×1.25	15.5	18	12
32	84	94	42	52	40	62	12	42	M10×1.25	19.5	22	17

Bore/Symbol	FA	G	GA	GB	GC	GD	H	J	JA	JB	JC	K	KB	L	LA	LB
6	2.5	8	9	11	19	10.9	-	6	5	10	7	3.3	7	M3×0.5	5	17
10	2	8	12	13	20.5	11.9	-	6	5.5	11	7	3.3	9	M3×0.5	5	18
16	4	8	17	13	26.5	15.9	5	7.5	6.5	14	7	4.5	12	M4×0.7	5	25
20	5	8	20	16	32	19.8	6	9.5	8	16	9	5.5	16	M5×0.8	7.5	30
25	6	10	22	19	40	24.8	8	9.5	9	20	10	5.5	20	M5×0.8	8	38
32	6	12	29	24	49	30.8	10	11	11.5	24	11	6.5	24	M6×1.0	9	48

Bore/Symbol	P	PA	PB	PC
6	M5×0.8	14	10	-
10	M5×0.8	15.5	10	-
16	M5×0.8	14.5	10	3
20	M5×0.8	19	11	9
25	M5×0.8	21.5	8.5	12
32	PT1/8"	23	12.5	13

CUKD Standard Dimension

■ Φ6~Φ32



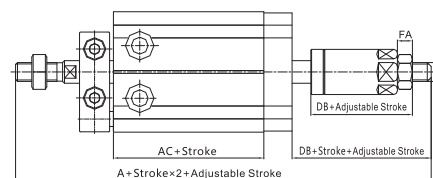
Bore/Symbol	A(Without magnet)	A(With magnet)	AC(Without magnet)	AC(With magnet)	AE	B	C	D	DA	DB	E
6	75	75	38	38	6	16.5	22	3	18	13	M3×0.5
10	79	79	36	36	6	16.5	24	4	21	16	M4×0.7
16	79.5	89.5	30	40	7.5	20	32	6	26	16	M5×0.8
20	93	103	36	46	9	26	40	8	29	19	M6×1.0
25	105	115	40	50	9	32	50	10	33	23	M8×1.25
32	121	131	42	52	10	40	62	12	42	27	M10×1.25

Bore/Symbol	EA	EB	F	FA	G	GA	GB	GC	GD	H	J	JA	JB	JC	K	KB
6	7	8	5.5	2.5	8	9	11	19	10.9	-	6	5	10	7	3.3	7
10	10	11	7	2	8	12	13	20.5	11.9	-	6	5.5	11	7	3.3	9
16	11	12.5	8	4	8	17	13	26.5	15.9	5	7.5	6.5	14	7	4.5	12
20	12	14	10	5	8	20	16	32	19.8	6	9.5	8	16	9	5.5	16
25	15.5	18	12	6	10	22	19	40	24.8	8	9.5	9	20	10	5.5	20
32	19.5	22	17	6	12	29	24	49	30.8	10	11	11.5	24	11	6.5	24

Bore/Symbol	P	PA	PB	PC
6	M5×0.8	14	16	-
10	M5×0.8	15.5	16	-
16	M5×0.8	14.5	17.5	3
20	M5×0.8	19	20	9
25	M5×0.8	21.5	17.5	12
32	PT1/8"	23	22.5	13

CUKJ Standard Dimension

■ Φ6~Φ32



Bore/Symbol	A(Without magnet)	A(With magnet)	AC(Without magnet)	AC(With magnet)	DB	E	FA
6	75	75	38	38	13	M3×0.5	2.5
10	78	78	36	36	14.7	M4×0.7	2
16	80.5	90.5	30	40	17	M5×0.8	4
20	95	105	36	46	21	M6×1.0	5
25	107	117	40	50	25	M8×1.25	6
32	121	131	42	52	27	M10×1.25	6

Note: The unspecified dimension is the same as double shaft type.



CUK

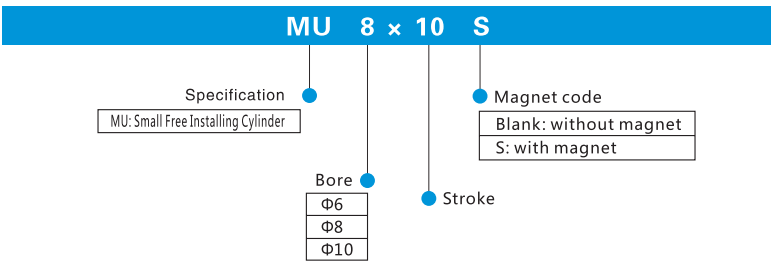
Small Free Installing Cylinder



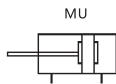
Specification:

Type	6	8	10
Motion	Double acting		
Series	MU		
Fluid	Compressed air		
Working Pressure (MPa)	0.1~1		
Speed range (mm/s)	50~800		
Ambient temperature range (°C)	-20~80		
Cushion	-		
Port size	M3×0.5		

How to order:



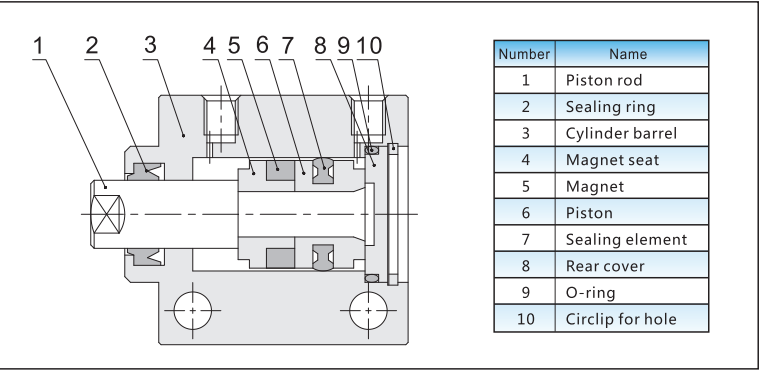
Symbol:



Product feature:

1. Execute JIS standard.
2. Body can be fixed from four directions and is easy for installation and using.
3. Varieties of cylinders can be fixed together to save the installation space.
4. The front of the cylinder with guiding convex platform is accurate and reliable for locating.
5. After inner diameter's finishing machining, the cylinder body is hard oxidation treated with good wear durability.
6. Magnet is optional with position sensor function.
7. Inductive switch grooves are on the body to install inductive switches conveniently and flexibly.
8. The piston seal adopts special two-way sealing structure with compact size and oil storing function.

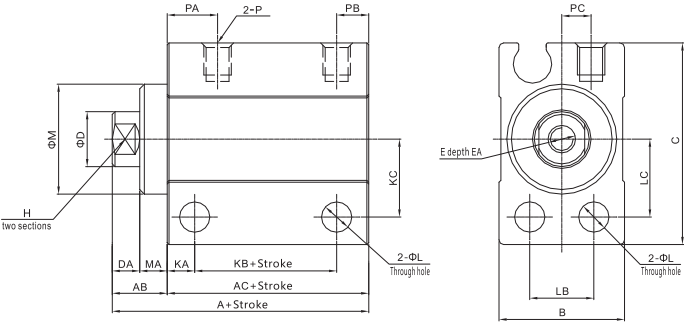
Inner structure drawing:



■ Dimension(mm):

MU Standard Dimension

■ Φ6~Φ10

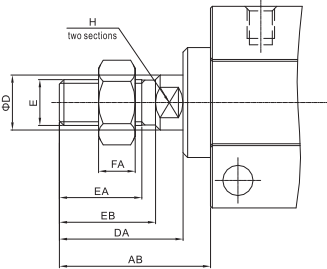


Bore/Symbol	A(With magnet)	A(Without magnet)	AB	AC(With magnet)	AC(Without magnet)	B	C	D	DA	E	EA	H
6	24	19	6	18	13	13	19	4	3	M2.5×0.45	5	3.5
8	24	19	6	18	13	13	21	5	3	M3×0.5	6	4.5
10	24	19	6	18	13	13.5	22	6	3	M3×0.5	6	5

Bore/Symbol	K	KA	KB(With magnet)	KB(Without magnet)	KC	L	LB	LC	M	KA	P	PA	PB	PC
6	3.3	3	11.5	6.5	7	3.3	7	7	9	3	M3×0.5	5.5	3.5	3
8	3.3	3	11.5	6.5	8	3.3	7	8	11	3	M3×0.5	5.5	3.5	3
10	3.3	3	11.5	6.5	8.5	3.3	7	8.5	12	3	M3×0.5	5.5	3.5	3.5

MU-B

■ Φ6~Φ10



Bore/Symbol	AB	D	DA	E	EA	EB	FA	H
6	12.5	4	9.5	M3×0.5	5.5	6.5	2.4	3.5
8	14.5	5	11.5	M4×0.7	7	8.5	3	4.5
10	16.5	6	13.5	M5×0.8	9	10.5	4	5

Note: The unspecified dimension is the same as Internal thread type.



Panel Type Cylinder



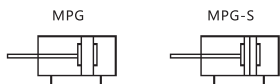
Specification:

Type	6	8	10	12	16
Motion	Double acting				
Series	MPG				
Fluid	Compressed air				
Working Pressure (MPa)	0.1~1				
Speed range (mm/s)	30~500				
Ambient temperature range (°C)	-20~80				
Cushion	Bumper				
Port size	M3×0.5		M5×0.8		

How to order:

MPG 10 × 30 S			
Specification		Magnet code	
MPG: Standard Panel Type Cylinder		Blank: without magnet	
MPGH: Hinge Mounted Cylinder		S: with magnet	
Bore		Stroke	
Φ6			
Φ8			
Φ10			
Φ12			
Φ16			

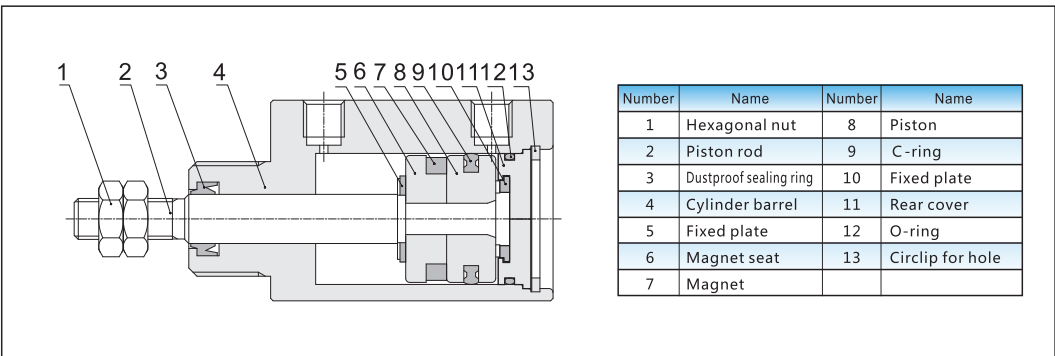
Symbol:



Product feature:

1. With compact structure, small size and light weight, it can save the space.
2. Varieties of cylinders can be fixed together to save the installation space.
3. Various standard cylinders and installing accessories are optional for customers with flexible installation.
4. Magnet is optional with position sensor function.
5. Inductive switch grooves are on the body to install inductive switches conveniently and flexibly.
6. Various standard bores are optional for customers.

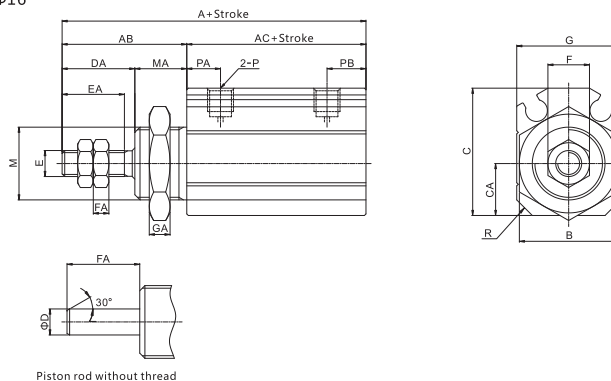
Inner structure drawing:



Dimension(mm):

MPG/MPG-S Standard Dimension

Φ6~Φ16

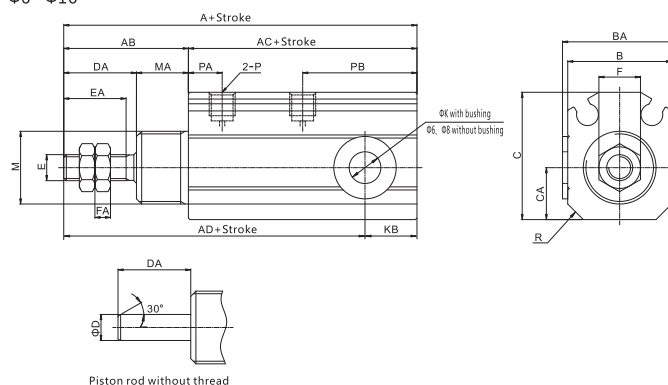


Bore/Symbol	A(With magnet)	A(Without magnet)	AB	AC(With magnet)	AC(Without magnet)	B	C	CA	D	DA	E	EA
6	38	33	17	21	16	14	16.5	6	3	9	M3×0.5	7
8	43	38	20	23	18	14.5	17.5	7	4	12	M4×0.7	10
10	44.5	39.5	20	24.5	19.5	15	19	7	4	12	M4×0.7	10
12	48.5	43.5	24	24.5	19.5	17	21.5	8.5	6	14	M5×0.8	12
16	48.5	43.5	24	24.5	19.5	20	24.5	10	6	14	M5×0.8	12

Bore/Symbol	F	FA	G	GA	M	MA	P	PA	PB	R
6	5.5	2.4	13	3	M10×1.0	8	M3×0.5	5.5	6.5	2
8	7	2.2	17	3	M12×1.0	8	M3×0.5	6	7	2
10	7	2.2	17	3	M12×1.0	8	M3×0.5	6	7	2.5
12	8	3	19	4	M14×1.0	10	M5×0.8	6.5	7.5	2.5
16	8	3	19	4	M14×1.0	10	M5×0.8	6.5	7.5	3

MPGH/MPGH-S Standard Dimension

Φ6~Φ16



Bore/Symbol	A(With magnet)	A(Without magnet)	AB	AC(With magnet)	AC(Without magnet)	AD(With magnet)	AD(Without magnet)	B	BA	C	CA	D	DA
6	43	38	17	26	21	39	34	14	-	16.5	6	3	9
8	51	46	20	31	26	46	41	14.5	-	17.5	7	4	12
10	55.5	50.5	20	35.5	30.5	49	44	15	17	19	7	4	12
12	63	58	24	39	34	53	48	17	19	21.5	8.5	6	14
16	63	58	24	39	34	53	48	20	22	24.5	10	6	14

Bore/Symbol	E	EA	F	FA	K	KB	M	MA	P	PA	PB	R
6	M3×0.5	7	5.5	2.4	3 ^{+0.05} ₀	4	M10×1.0	8	M3×0.5	5.5	11.5	2
8	M4×0.7	10	7	2.2	4 ^{+0.05} ₀	5	M12×1.0	8	M3×0.5	6	15	2
10	M4×0.7	10	7	2.2	5 ^{+0.065} ₀	6.5	M12×1.0	8	M3×0.5	6	18	2.5
12	M5×0.8	12	8	3	6 ^{+0.065} ₀	10	M14×1.0	10	M5×0.8	6.5	22	2.5
16	M5×0.8	12	8	3	6 ^{+0.065} ₀	10	M14×1.0	10	M5×0.8	6.5	22	3

PB Series Cylinder

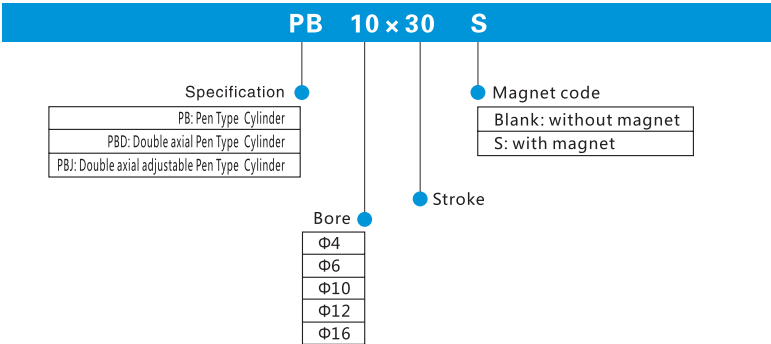
Pen Type Cylinder



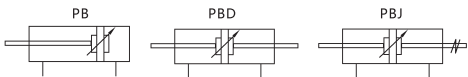
Specification:

Type	4	6	10	12	16
Motion	Double acting				
Series	PB, PBD, PBJ				
Fluid	Compressed air				
Working Pressure (MPa)	0.1~1				
Speed range (mm/s)	50~800				
Ambient temperature range (°C)	-20~80				
Cushion	-	Bumper			
Port size	Pipe connection type	M5×0.8			

How to order:



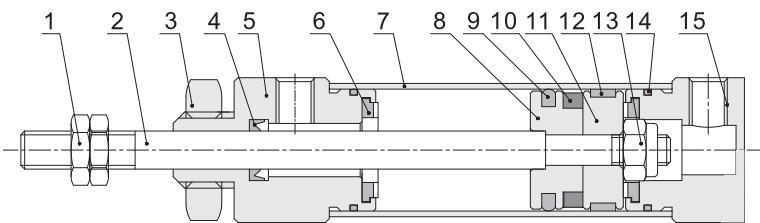
Symbol:



Product feature:

1. Execute JIS standard.
2. It's belong to miniature small cylinder with compact structure, small size and light weight.
3. The piston rod has high guiding precision and the guiding bearing has no need of extra lubricant.
4. PB4 and PB6 can only have the front cover installation while PB10、PB12 and PB16 can be installed either in the front or rear covers.
5. Stainless steel piston rod and cylinder body help cylinder adapt to general corrosive working environment.
6. Various standard cylinders and installing accessories are optional for customers.
7. Small bore and rapid response can help it adapt to high frequency work environment.

Inner structure drawing:



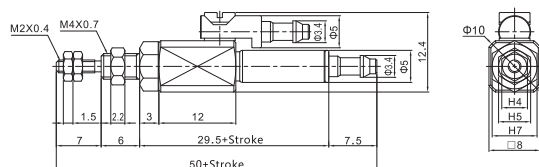
Number	Name	Number	Name
1	Hexagonal nut	9	Sealing ring
2	Piston rod	10	Magnet
3	Hexagonal nut	11	Wearing ring beat
4	Sealing ring	12	Wearing ring
5	Front cover	13	Hexagonal nut
6	Fenders	14	O-ring
7	Cylinder barrel	15	Rear cover
8	Piston		

Pen Type Cylinder

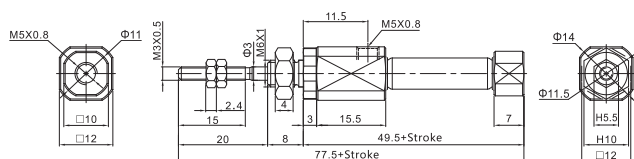
■ Dimension(mm):

PB Standard Dimension

■ Φ4(Whit magnet)(R type)



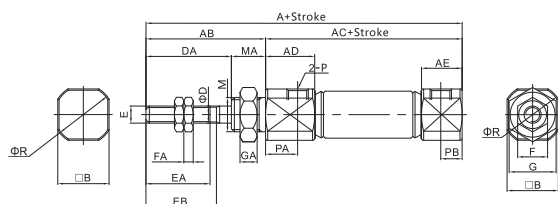
■ Φ6(R type)



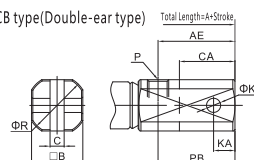
Note: The rear cover of Φ4,Φ6 bore only have axial inlet type (R type)

■ Φ10~Φ16

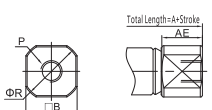
U type(Radial intake type)



CB type(Double-ear type)



R type(have axial inlet type)



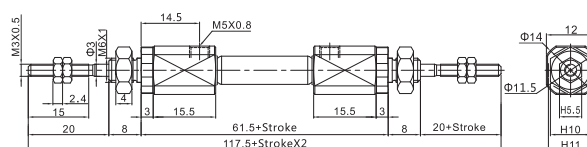
Bore/Symbol	A		AB		AC	AD	AE		B	C	CA	D	DA	E	EA	EB
Rear cover	U	CB	R	AB	AC	AD	U/R	CB	B	C	CA	D	DA	E	EA	EB
10	74	87	74	28	46	11.5	9.5	22.5	12	3.3	13	4	20	M4×0.7	15	16.5
12	74	92	74	28	46	11.5	9.5	27.5	15	6.6	18	5	20	M5×0.8	15	16.5
16	76	94	76	28	48	12	9.5	27.5	18	6.6	18	5	20	M5×0.8	15	16.5

Bore/Symbol	F	FA	G	GA	K	KA	M	MA	P	PA	PB		R
Rear cover	F	FA	G	GA	K	KA	M	MA	P	PA	U	CB	R
10	7	2.2	11	4	3.3	5	M8×1	8	M5×0.8	7.5	5	18	14
12	8	4	14	4	5	8	M10×1	8	M5×0.8	7.5	5	23	17
16	8	4	14	4	5	8	M10×1	8	M5×0.8	7.5	5	23	20

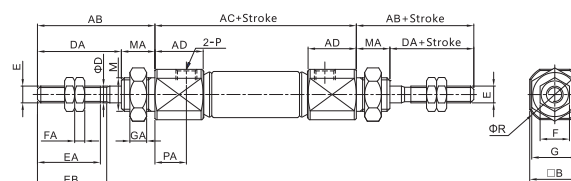
Notes: With or without magnet, the dimensions are the same.

PBD Standard Dimension

■ Φ6

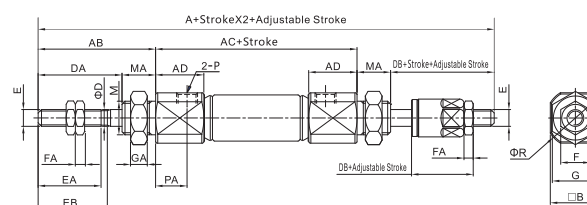


■ Φ10~Φ16



PBJ Standard Dimension

■ Φ10~Φ16



Bore/Symbol	A		AB	AC	AD	B	D	DA	DB	E
Rear cover	PBD	PBJ	AB	AC	AD	B	D	DA	DB	E
10	104	99	28	48	11.5	12	4	20	15	M4×0.7
12	104	101	28	48	11.5	15	5	20	17	M5×0.8
16	107	104	28	51	12	18	5	20	17	M5×0.8

Bore/Symbol	EA	EB	F	FA	G	GA	M	MA	P	PA
Rear cover	EA	EB	F	FA	G	GA	M	MA	P	PA
10	15	16.5	7	2.2	11	4	M8×1	8	M5×0.8	7.5
12	15	16.5	8	4	14	4	M10×1	8	M5×0.8	7.5
16	15	16.5	8	4	14	4	M10×1	8	M5×0.8	7.5

Notes: With or without magnet, the dimensions are the same.

Pen Type Cylinder



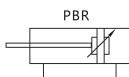
Specification:

Type	6	8	10	12	16
Motion	Double acting				
Series	PBR				
Fluid	Compressed air				
Pressure range (Kg/cm ²)	0.1~0.7				
Speed range (mm/s)	50~500				
Ambient temperature range (°C)	-20~80				
Cushion type	Bumper				
Port size	M5×0.8				

How to order:

PBR 16 × 30 S		
Specification		Magnet code
PBR: Pen Type Cylinder		Blank: without magnet S: with magnet
Bore		Stroke
Φ6		
Φ8		
Φ10		
Φ12		
Φ16		

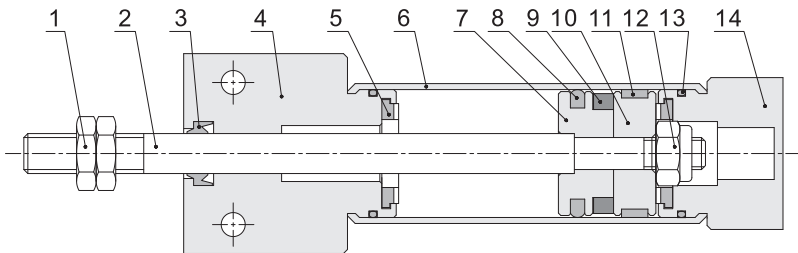
Symbol:



Product feature:

1. Execute JIS standard.
2. It's belong to miniature small cylinder with compact structure, small size and light weight.
3. The piston rod has high guiding precision and the guiding bearing has no need of extra lubricant.
4. Stainless steel piston rod and cylinder body help cylinder adapt to general corrosive working environment.
5. Small bore and rapid response can help it adapt to high frequency work environment.

Inner structure drawing:

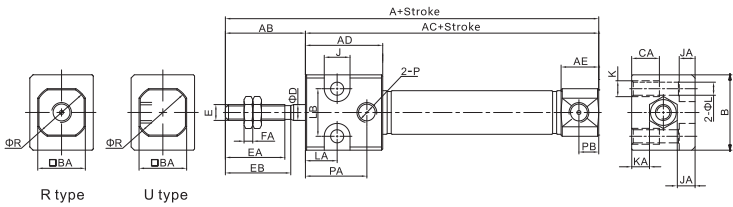


Number	Name	Number	Name
1	Hexagonal nut	8	Sealing ring
2	Piston rod	9	Magnet
3	Sealing ring	10	Wearing ring beat
4	Front cover	11	Wearing ring
5	Fenders	12	Hexagonal nut
6	Cylinder barrel	13	O-ring
7	Piston	14	Rear cover

Dimension(mm):

PBR Standard Dimension

Φ6~Φ16



Bore/Symbol	A	AB	AC	AD	AE	B	BA	C	CA	D	E	EA	EB	F
6	70	20	50	19	7	17.2	10	14	7	3	M3×0.5	15	16	5.5
8	74	20	54	19.5	9.5	19.2	12	16	8	4	M4×0.7	15	16.5	7
10	74	20	54	19.5	9.5	19.2	12	16	8	4	M4×0.7	15	16.5	7
12	74	20	54	19.5	9.5	24.2	15	20	10	5	M5×0.8	15	16.5	8
16	76	20	56	20	9.5	24.2	18	20	10	6	M5×0.8	15	16.5	8

Bore/Symbol	FA	J	JA	K	KA	L	LA	LB	P	PA	PB	R
6	2.4	6.5	4	M4×0.7	7	3.3	8	10	M5×0.8	14	-	11
8	2.2	6.5	4	M4×0.7	7	3.3	8	12	M5×0.8	15	5	14
10	2.2	6.5	4	M4×0.7	7	3.3	8	12	M5×0.8	15.5	5	14
12	4	8	5	M5×0.8	8	4.3	8	16	M5×0.8	15.5	5	17
16	4	8	5	M5×0.8	8	4.3	8	16	M5×0.8	15.5	5	20

Note: 1. With or without magnet, the dimensions are the same
2. The rear cover of Φ6 bore only have axial inlet type (R type)

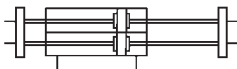


STW Series Cylinder

Slide Table Cylinder



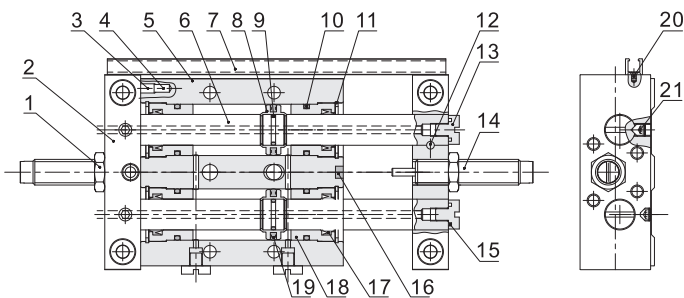
Symbol:



Product feature:

- 1.The sliding block and the body can both install to make it conveniently for use.
- 2.Three units of air inlets and outlets are optional for customers to help tube conveniently.
- 3.Double piston rod structure makes cylinder have better bending and torsion resistance and can bear bigger exercise and side load.
- 4.It comes with oil buffer and other buffer devices to retard the impact velocity effectively and prolong the service life of the cylinder.

Inner structure drawing:

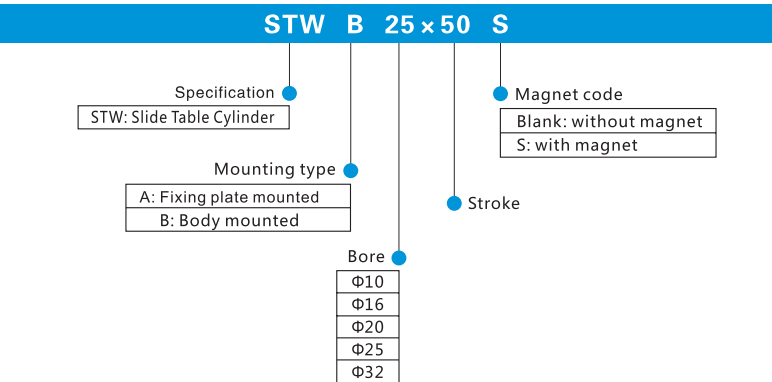


Number	Name	Number	Name
1	Hexagonal nut	12	Locating pin
2	Cylinder fixed plate	13	Plug screw
3	Locating gasket	14	Hydraulic buffer
4	Magnet	15	O-ring
5	Body	16	Anti-collision gasket
6	Piston rod	17	Axis core O-ring
7	Inductive switch mounting bar	18	Front cover
8	Piston	19	Piston O-ring
9	O-ring	20	Countersunk screw
10	O-ring	21	Set screw
11	C-shaped retaining ring		

Specification:

Type	10	16	20	25	32
Motion	Double acting				
Fluid	Compressed air				
Working Pressure (MPa)	0.1~1				
Warrant endure-pressure (MPa)	1.5				
Ambient temperature range (°C)	-20~70				
Speed range (mm/s)	30~500				
Cushion type	Oil buffer				
Port size	M5×0.8			1/8"	

How to order:



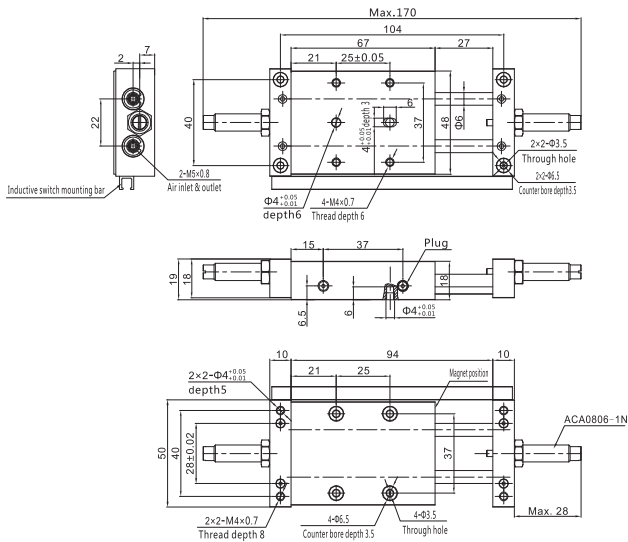
STW

Slide Table Cylinder

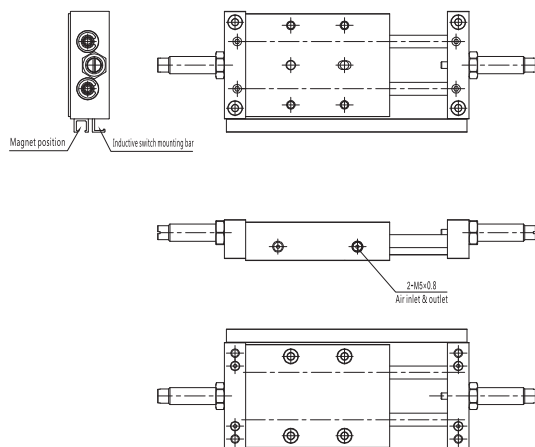
■ Dimension(mm):

Type: STW10 Stroke=25mm

- A type (fixed plate fixed type)

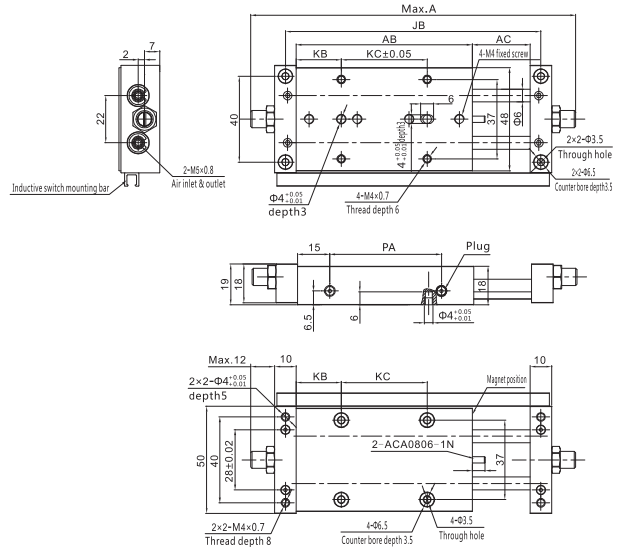


- B type (body fixed type)

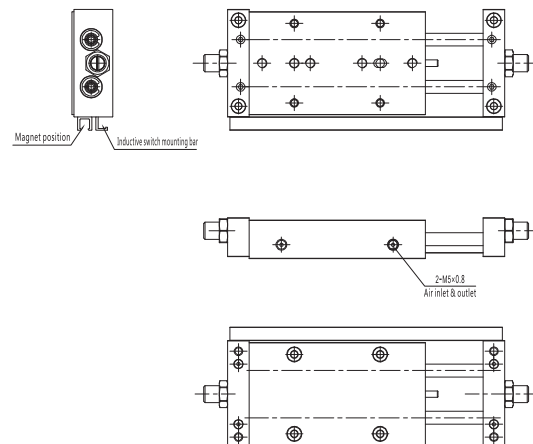


Type: STW10 Stroke=50 75 100mm

- A type (fixed plate fixed type)



- B type (body fixed type)



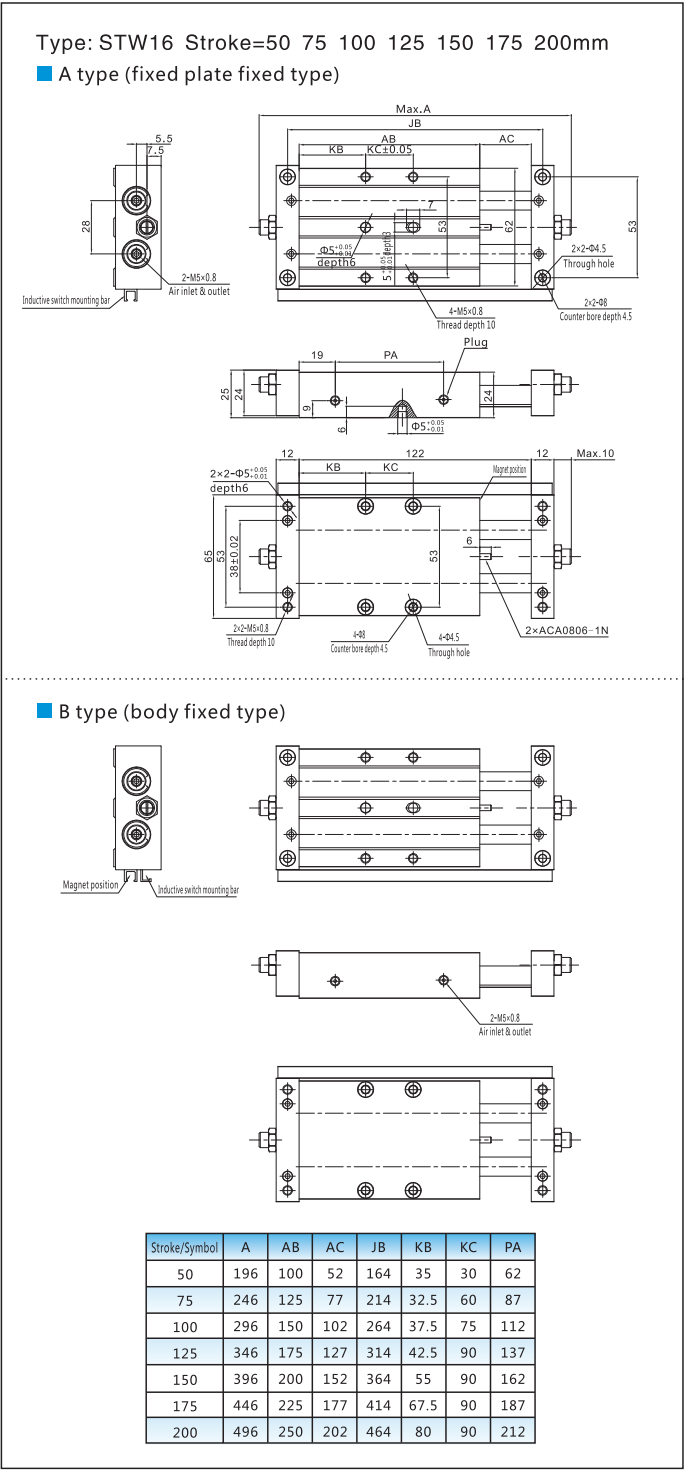
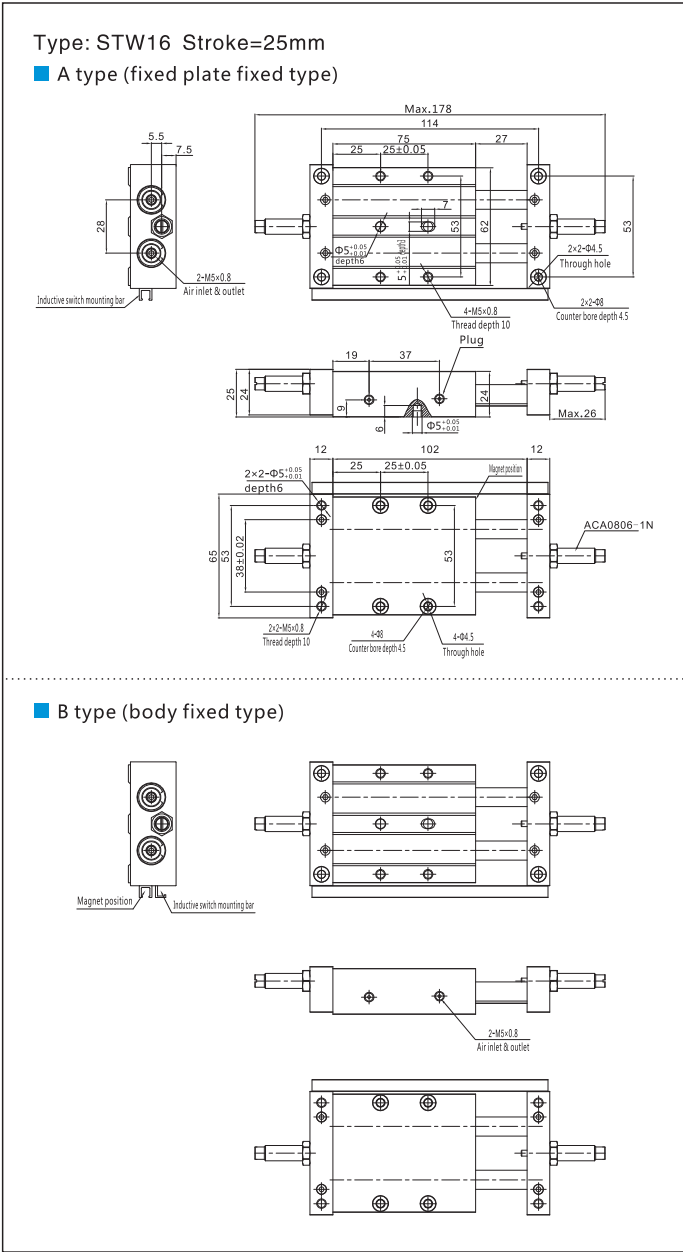
Stroke/Symbol	A	AB	AC	JB	KB	KC	PA
50	188	92	52	154	26	40	62
75	238	117	77	204	26	65	87
100	288	142	102	254	26	90	112



STW

Slide Table Cylinder

■ Dimension(mm):



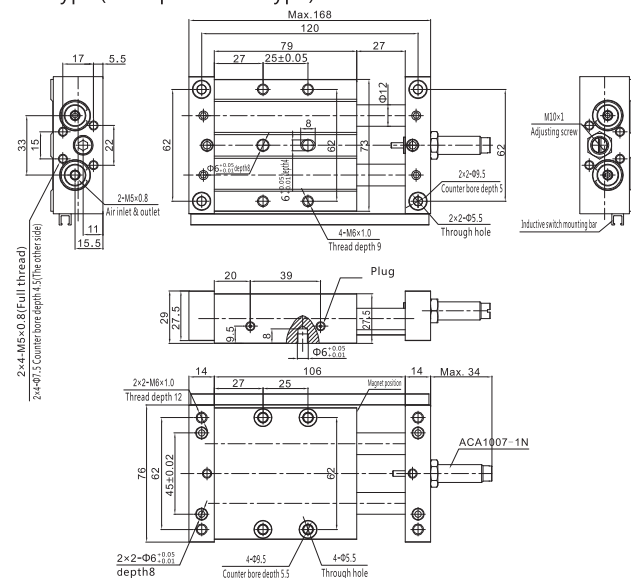
Stroke/Symbol	A	AB	AC	JB	KB	KC	PA
50	196	100	52	164	35	30	62
75	246	125	77	214	32.5	60	87
100	296	150	102	264	37.5	75	112
125	346	175	127	314	42.5	90	137
150	396	200	152	364	55	90	162
175	446	225	177	414	67.5	90	187
200	496	250	202	464	80	90	212

Slide Table Cylinder

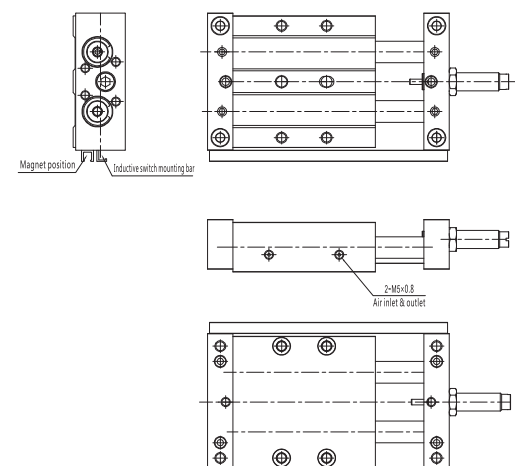
■ Dimension(mm):

Type: STW20 Stroke=25mm

- A type (fixed plate fixed type)

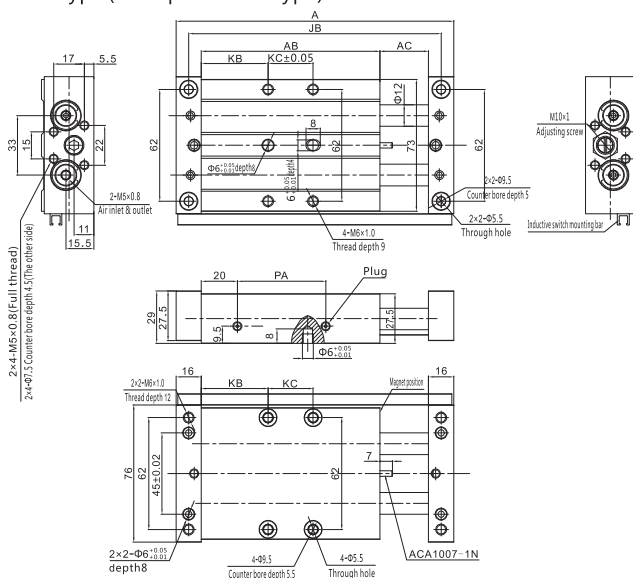


- B type (body fixed type)

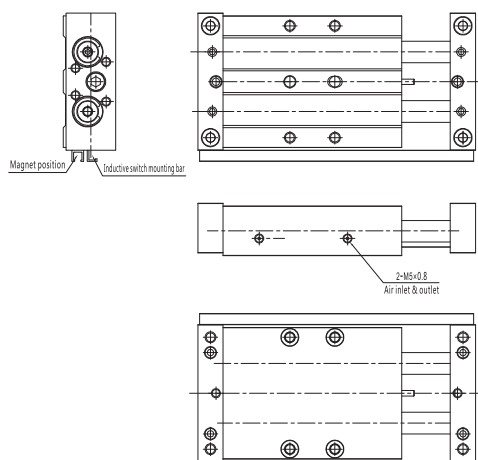


Type: STW20 Stroke=50 75 100 125 150 175 200mm

- A type (fixed plate fixed type)



- B type (body fixed type)



Stroke/Symbol	A	AB	AC	JB	KB	KC	PA
50	184	104	52	170	34.5	35	64
75	234	129	77	220	34.5	60	89
100	284	154	102	270	39.5	75	114
125	334	179	127	320	44.5	90	139
150	384	204	152	370	57	90	164
175	434	229	177	420	69.5	90	189
200	484	254	202	470	82	90	214



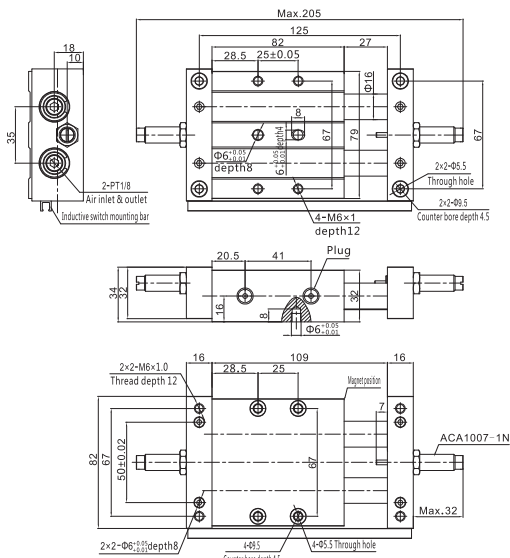
STW

Slide Table Cylinder

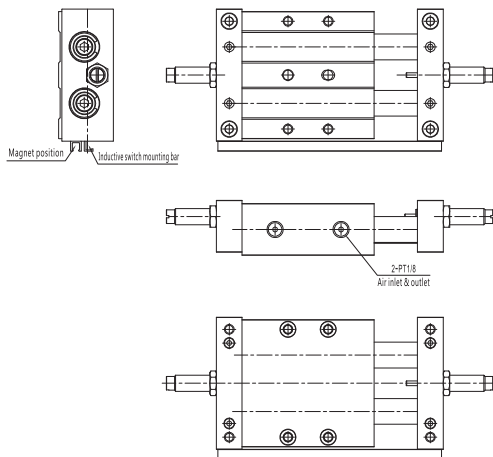
■ Dimension(mm):

Type: STW25 Stroke=25mm

■ A type (fixed plate fixed type)

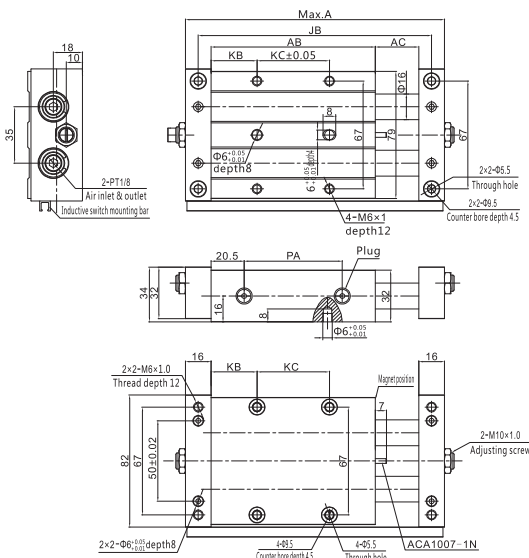


■ B type (body fixed type)

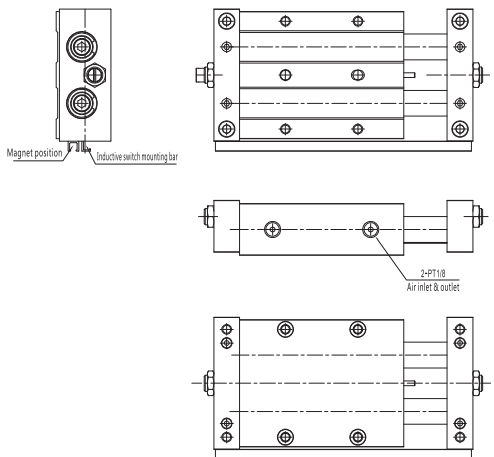


Type: STW25 Stroke=50 75 100 125 150 175 200mm

■ A type (fixed plate fixed type)



■ B type (body fixed type)



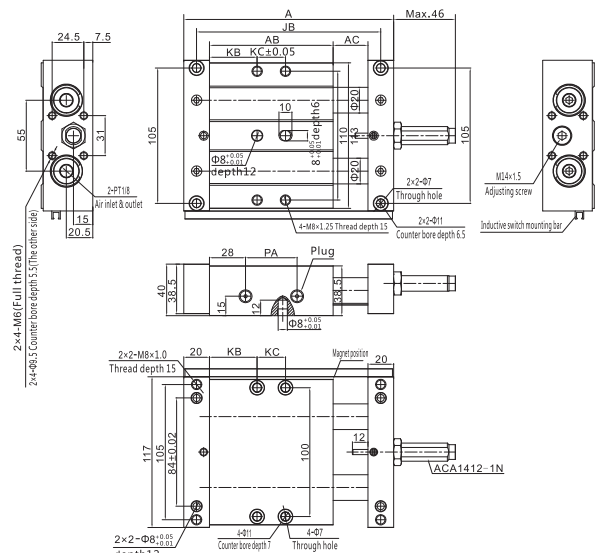
Stroke/Symbol	A	AB	AC	JB	KB	KC	PA
50	209	107	52	175	31	45	66
75	259	132	77	225	33.5	65	91
100	309	157	102	275	33.5	90	116
125	359	182	127	325	46	90	141
150	409	207	152	375	58.5	90	166
175	459	232	177	425	71	90	191
200	509	257	202	475	83.5	90	216

Slide Table Cylinder

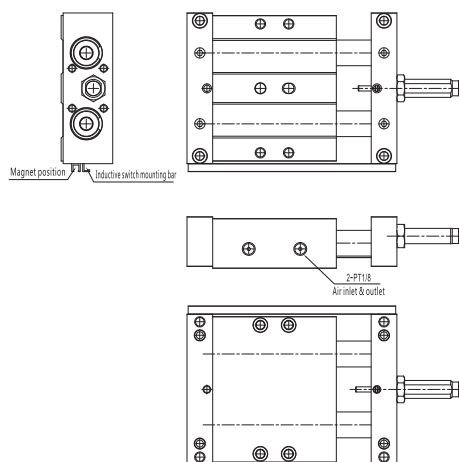
■ Dimension(mm):

Type: STW32 Stroke=25 50mm

- A type (fixed plate fixed type)



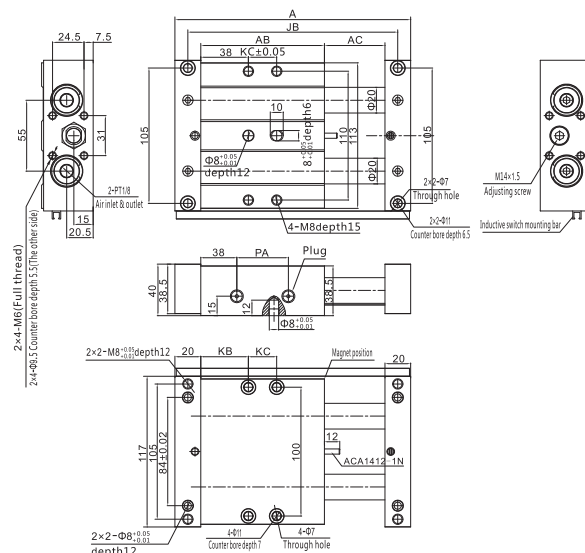
- B type (body fixed type)



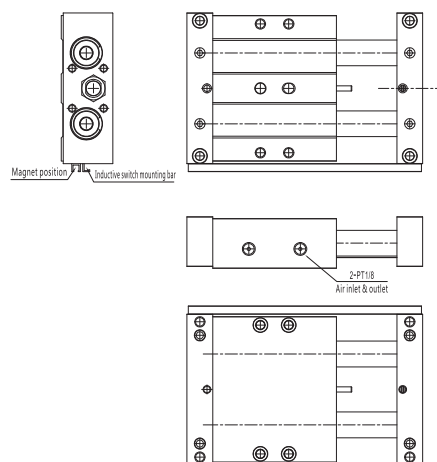
Stroke/Symbol	A	AB	AC	JB	KB	KC	PA
25	163	96	27	143	37	22	40
50	213	121	52	193	38	45	65

Type: STW32 Stroke=75 100 125 150 175 200mm

- A type (fixed plate fixed type)



- B type (body fixed type)



Stroke/Symbol	A	AB	AC	JB	KC	PA
75	263	146	77	243	70	90
100	313	171	102	293	95	113
125	363	196	127	343	120	140
150	413	221	152	393	145	163
175	463	246	177	443	170	190
200	513	271	202	493	195	213



STW

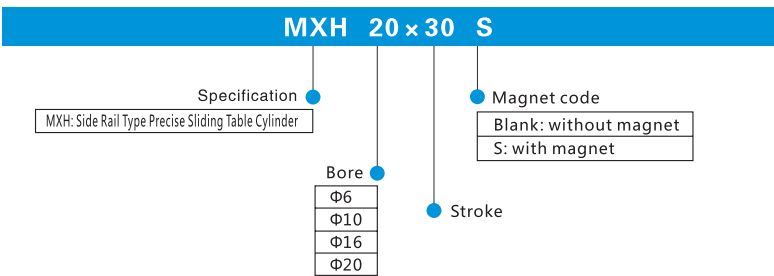
Side Rail Type Precise Sliding Table Cylinder



Specification:

Type	6	10	16	20
Guide rail width(mm)	5	7	9	12
Motion	Double acting			
Fluid	Compressed air			
Working Pressure (MPa)	6: 0.15~0.7; Other: 0.1~0.7			
Warrant endure-pressure (MPa)	1			
Ambient temperature range (°C)	-20~70			
Speed range(mm/s)	30~500			
Cushion type	Fixed bumper on both ends			
Port size	M5×0.8			

How to order:



Symbol:



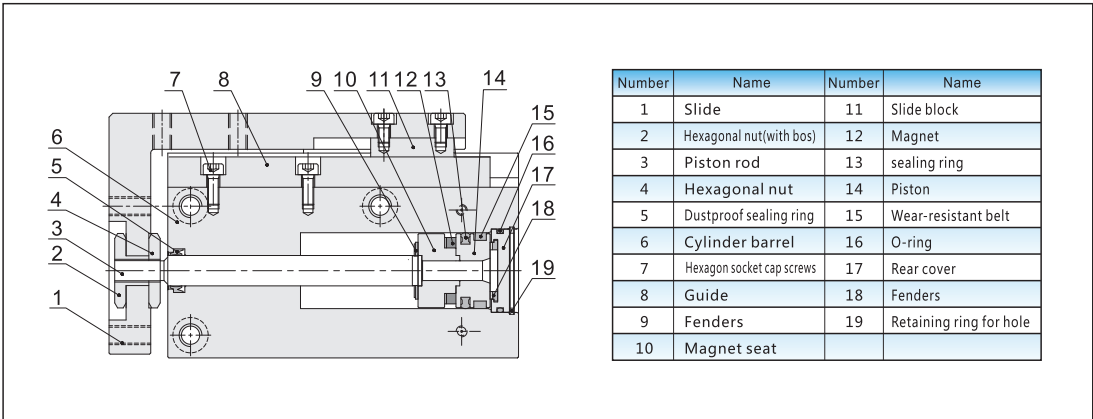
Product feature:

1. Miniature recirculating ball linear guideway and cylinder integration design.
2. It possesses great straightness and no-rotation precision to be more suitably used in precision assembly situation.
3. It can install fixed cylinders from four directions.
4. It can tube from three directions.



MXH

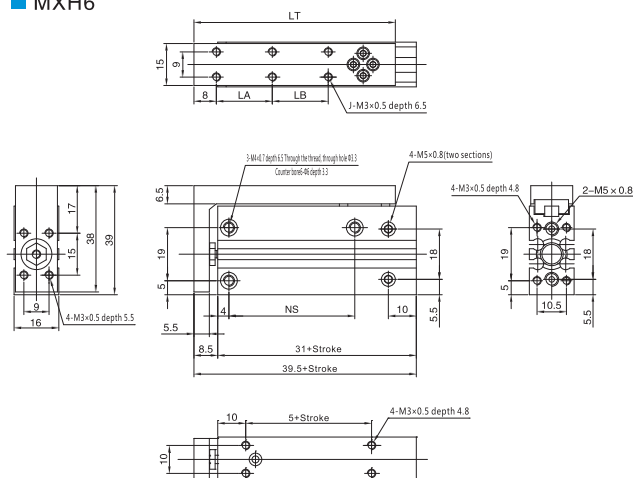
Inner structure drawing:



Side Rail Type Precise Sliding Table Cylinder

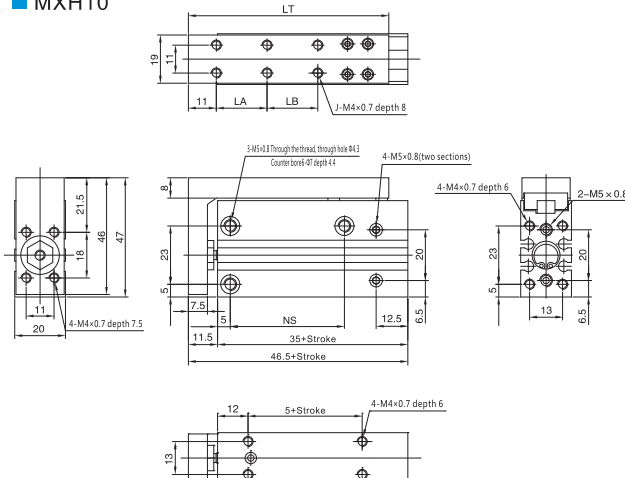
■ Dimension(mm):

■ MXH6



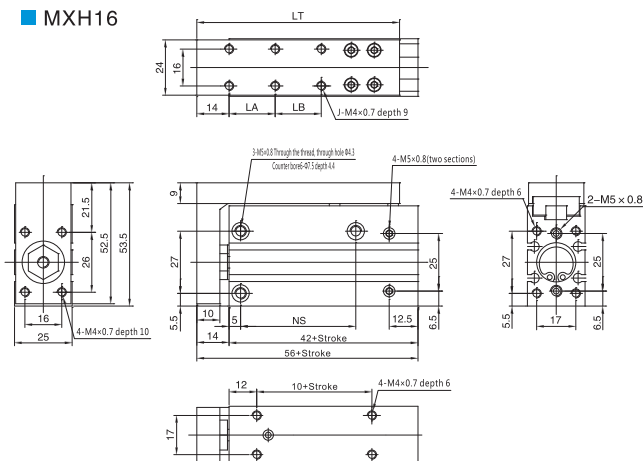
Stroke/Symbol	J	LA	LB	LT	NS
5	4	10	—	42	14
10	4	10	—	42	14
15	4	20	—	52	24
20	4	20	—	52	24
25	4	30	—	62	30
30	4	30	—	62	30
40	6	20	20	72	45
50	6	25	25	82	55
60	6	30	30	92	60

■ MXH10



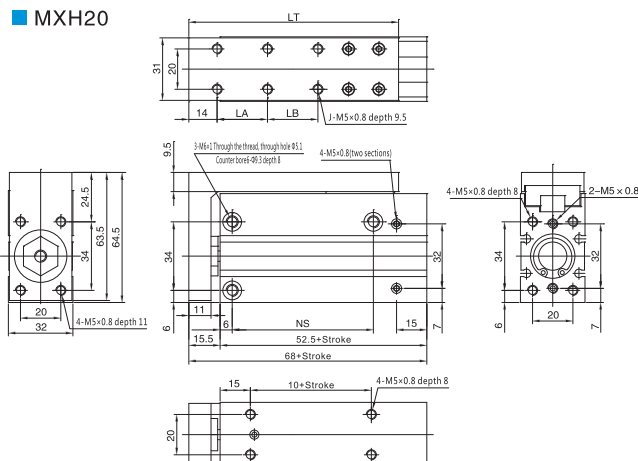
Stroke/Symbol	J	LA	LB	LT	NS
5	4	10	—	49	14
10	4	10	—	49	14
15	4	20	—	59	24
20	4	20	—	59	24
25	4	30	—	69	30
30	4	30	—	69	30
40	6	20	20	79	45
50	6	25	25	89	55
60	6	30	30	99	60

■ MXH16



Stroke/Symbol	J	LA	LB	LT	NS
5	4	10	—	58	20
10	4	10	—	58	20
15	4	20	—	68	30
20	4	20	—	68	30
25	4	30	—	78	40
30	4	30	—	78	40
40	6	20	20	88	50
50	6	25	25	98	60
60	6	30	30	108	60

■ MXH20



Stroke/Symbol	J	LA	LB	LT	NS
5	4	10	—	64	20
10	4	10	—	64	20
15	4	20	—	74	25
20	4	20	—	74	25
25	4	30	—	84	40
30	4	30	—	84	40
40	6	20	20	94	50
50	6	25	25	104	70
60	6	30	30	114	70



MXH

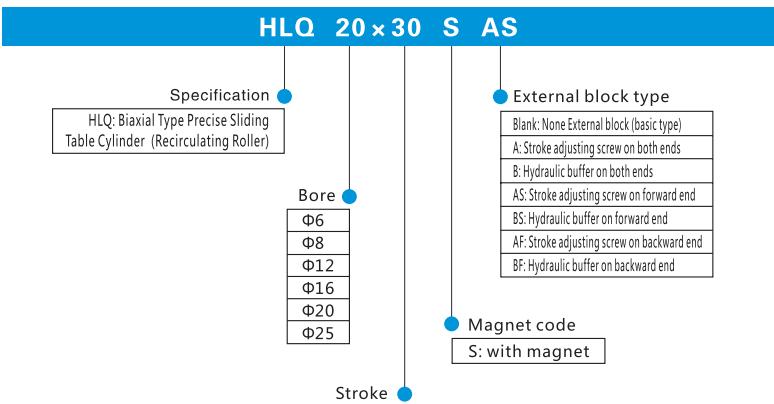
Biaxial Type Precise Sliding Table Cylinder (Recirculating Roller)



Specification:

Type	6	8	12	16	20	25
Guide rail width(mm)	10(Single track)		7(Double track)	9(Double track)		12(Double track)
Motion	Double acting					
Fluid	Compressed Air					
Working Pressure (MPa)	0.15~0.7					
Warrant endure-pressure(MPa)	1.5					
Ambient temperature range (°C)	-20~70					
Speed range (mm/s)	30~500					
Cushion type	Fixed bumper on both ends/Hydraulic buffer					
Port size	M5×0.8				PT1/8"	

How to order:



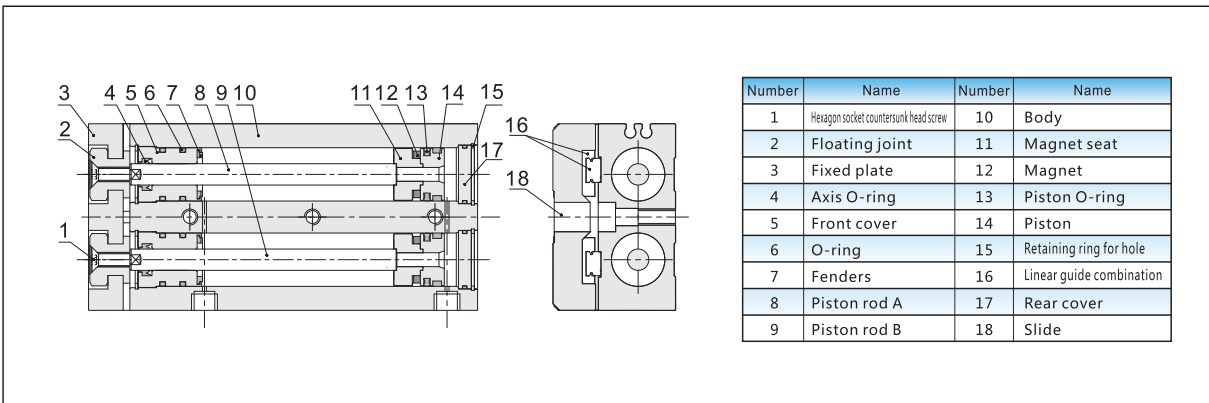
Symbol:



Product Feature:

- 1.Double precision linear guideway can achieve the performance of high precision and high rigidity together with rustproof and dustproof performance.
- 2.The installation holes are reserved above the sliding block to fix the body from above conveniently.
- 3.The slide block comes with installed dowel holes.
- 4.Floating connector design is adopted to prevent piston rod from bearing extra load torque.
- 5.With double piston rods, it can get double output.
- 6.The body comes with installed dowel holes.
- 7.The bottom and end face of the body attaches installed screw holes.

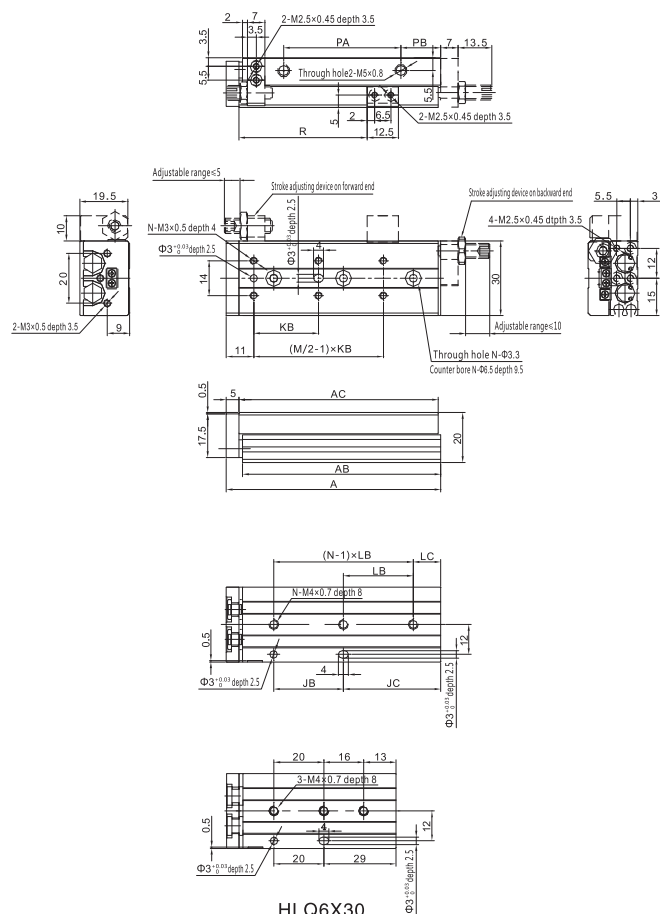
Inner structure drawing:



Biaxial Type Precise Sliding Table Cylinder (Recirculating Roller)

■ Dimension(mm):

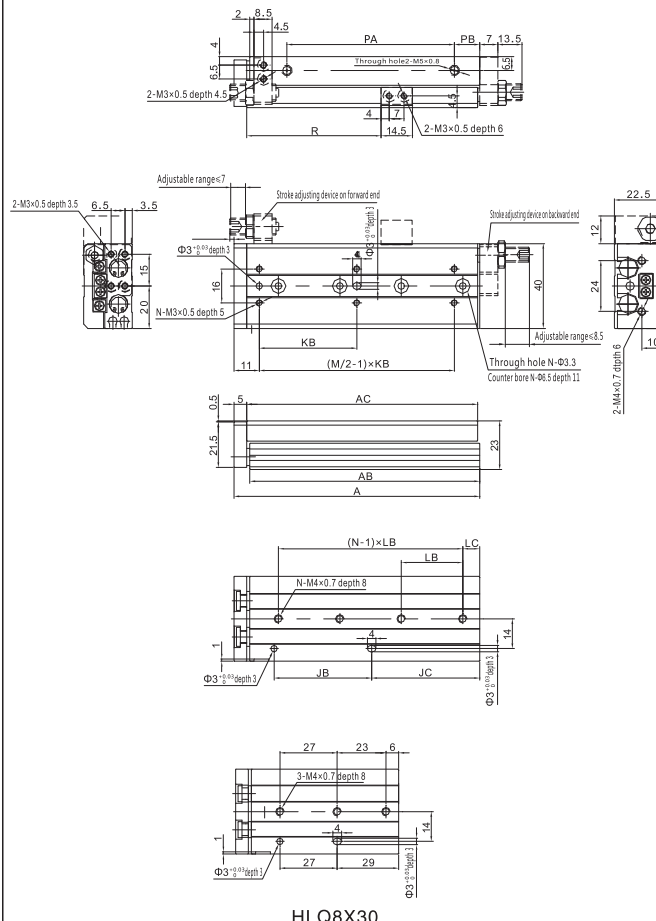
■ MXQ6



HLQ6X30

Stroke/Symbol	A	AB	AC	JB	JC	KB	LB	LC	M	N	PA	PB	R
10	48	41.5	42	16	13	22	23	6	4	2	16	9	21.5
20	58	51.5	52	26	13	25	26	13	4	2	26	9	31.5
30	68	61.5	62	20	29	21	See figure	See figure	6	3	36	9	41.5
40	86	79.5	80	28	39	26	28	11	6	3	47	16	51.5
50	96	89.5	90	28	49	27	28	21	6	3	64	9	61.5

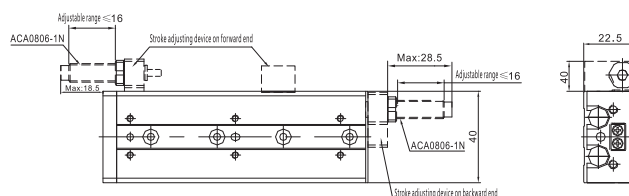
■ MXQ8



HLQ8X30

Stroke/Symbol	A	AB	AC	JB	JC	KB	LB	LC	M	N	PA	PB	R
10	53	45.5	46	19	13	25	25	7	4	2	18	10	23.5
20	63	55.5	56	28	14	25	28	14	4	2	28	10	33.5
30	77	69.5	70	27	29	26	See figure	See figure	6	3	42	10	43.5
40	91	83.5	84	31	39	32	31	8	6	3	54	12	53.5
50	116	108.5	109	58	37	46	29	8	6	4	79	12	63.5
75	144	136.5	137	60	61	50	30	31	6	4	107	10	88.5

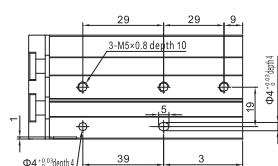
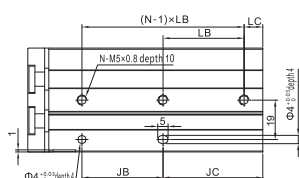
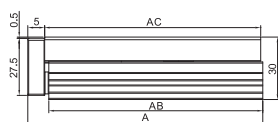
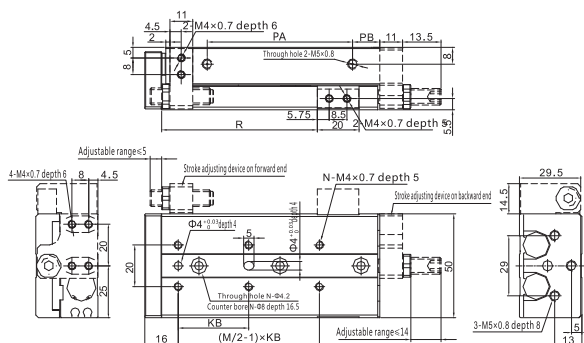
HLQ8(with hydraulic buffer)



Biaxial Type Precise Sliding Table Cylinder (Recirculating Roller)

Dimension(mm):

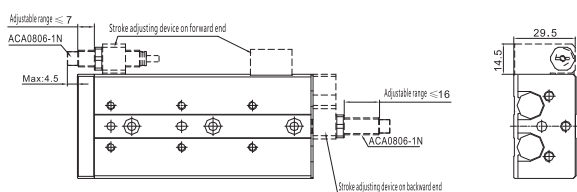
MXQ12



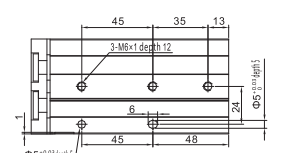
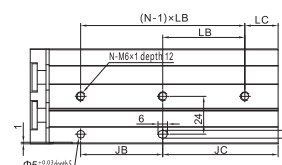
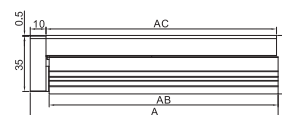
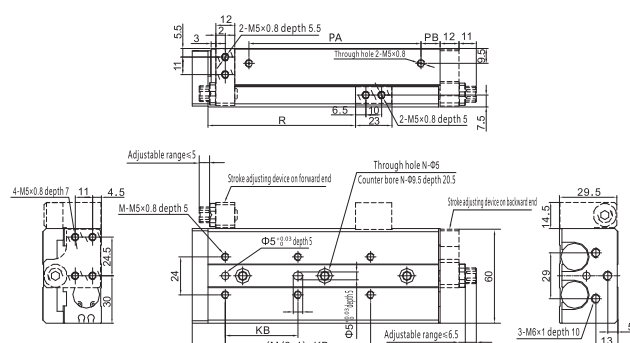
MXQ12X40

Stroke/Symbol	A	AB	AC	JB	JC	KB	LB	LC	M	N	PA	PB	R
10	76	66	67	32	18	28	32	18	4	2	32.5	13	35
20	76	66	67	32	18	28	32	18	4	2	32.5	13	45
30	86	76	77	40	20	38	40	20	4	2	42.5	13	55
40	103	93	94	39	38	34	See figure	See figure	6	3	59.5	13	65
50	113	103	104	39	48	34	39	9	6	3	69.5	13	75
75	157	147	148	72	59	36	36	23	8	4	113.5	13	99
100	182	172	173	72	84	36	36	12	10	6	134.5	17	124

MXQ12(with hydraulic buffer)



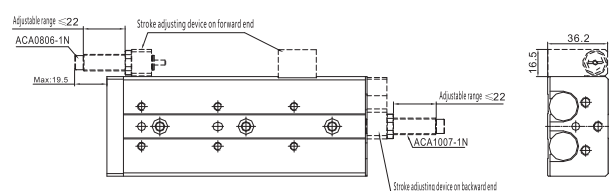
MXQ16



MXQ16X50

Stroke/Symbol	A	AB	AC	JB	JC	KB	LB	LC	M	N	PA	PB	R
10	89	77	78	39	18	38	39	18	4	2	40.5	12	28.5
20	89	77	78	39	18	38	39	18	4	2	40.5	12	38.5
30	99	87	88	48	19	48	48	19	4	2	50.5	12	48.5
40	109	97	98	58	19	58	58	19	4	2	60.5	12	58.5
50	125	113	114	45	48	40	See figure	See figure	6	3	70.5	18	68.5
75	157	145	146	52	73	46	52	21	6	3	108.5	12	93.5
100	200	188	189	88	80	44	44	36	8	4	151.5	12	118.5
125	225	213	214	88	105	44	44	17	10	5	176.5	12	143.5

MXQ16(with hydraulic buffer)



■ Dimension(mm):

Stroke/Symbol	A	AB	AC	JB	JC	KB	LB	LC	M	N	PA	PB	R
10	108	92.5	94	50	18	45	46	22	4	2	46.5	16	32
20	108	92.5	94	50	18	40	46	22	4	2	46.5	16	42.5
30	108	92.5	94	50	18	48	46	22	4	2	46.5	16	52.5
40	118	102.5	104	56	22	58	56	22	4	2	56.5	16	62.5
50	136	120.5	122	48	48	52	See figure	See figure	6	3	72.5	18	72.5
75	169	153.5	155	56	73	55	56	17	6	3	98.5	25	97.5
100	226	210.5	212	112	74	50	56	18	8	4	155.5	25	122.5
125	254	238.5	240	118	96	55	59	37	8	4	183.5	25	147.5
150	282	266.5	268	124	118	62	62	56	8	4	211.5	25	172.5

Stroke/Symbol	A	AB	AC	JB	JC	KB	LB	LC	M	N	PA	PB	R
10	123	105.5	107	55	23	55	55	23	4	2	58	12	35
20	123	105.5	107	55	23	46	55	23	4	2	58	12	45
30	123	105.5	107	55	23	55	55	23	4	2	58	12	55
40	133	115.5	117	65	23	65	65	23	4	2	68	12	65
50	157	139.5	141	80	32	75	80	32	4	2	92	14	75
75	182	164.5	166	65	72	60	See figure	See figure	6	3	117	12	100
100	221	203.5	205	88	88	48	44	44	8	4	156	12	125
125	274	256.5	258	132	97	60	66	31	8	4	209	12	150
150	299	281.5	283	132	122	65	66	56	8	4	234	12	175



MXQ

Biaxial Type Precise Sliding Table Cylinder (Cross Roller Guide)



Specification:

Type	6	8	12	16	20	25
Motion	Double acting					
Fluid	Compressed air					
Working Pressure (MPa)	0.15~0.7					
Warrant endure-pressure (MPa)	1.5					
Ambient temperature range (°C)	-20~70					
Speed range (mm/s)	30~500					
Cushion type	Fixed bumper on both ends/Hydraulic buffer					
Port size	M3×0.5			G1/8"		

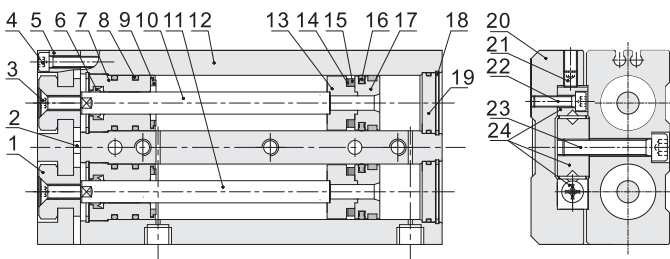
Symbol:



Product feature:

1. With cross-roller guide and integration design of the cylinder, it possesses the characteristics of high strength, high precision and high load. It also possesses great straightness and no-rotation precision to be more suitably used in precision assembly situation.
2. The slide block comes with installed dowel holes.
3. Floating connector design is adopted to prevent piston rod from bearing extra load torque.
4. With double piston rods, it can get double output.
5. The body comes with installed dowel holes.
6. The bottom and end face of the body attaches installed screw holes.

Inner structure drawing:



Number	Name	Number	Name
1	Floating joint	13	Magnet seat
2	Fenders	14	Magnet gasket
3	Hexagon socket countersunk head screw	15	Magnet
4	Socket head cap screw	16	Piston O-ring
5	Fixed plate	17	Piston
6	Axis core O-ring	18	C-shaped retaining ring
7	Front cover	19	Rear cover
8	O-ring	20	Slide
9	Fenders	21	Set screw
10	Piston rod A	22	Socket head cap screw
11	Piston rod B	23	Socket head cap screw
12	Body	24	Cross Roller Guide Combination

How to order:

MXS 20 × 30 S AS

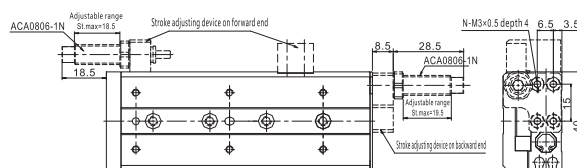
Specification
MXS: Biaxial Type Precise Sliding Table Cylinder (Recirculating Roller)

Bore
Φ6
Φ8
Φ12
Φ16
Φ20
Φ25

Stroke

External block type
Blank: None External block (basic type)
A: Stroke adjusting screw on both ends
B: Hydraulic buffer on both ends
AS: Stroke adjusting screw on forward end
BS: Hydraulic buffer on forward end
AF: Stroke adjusting screw on backward end
BF: Hydraulic buffer on backward end

Magnet code
S: with magnet



MXS

■ Dimension(mm):

The technical drawings include:

- Top Drawing:** A detailed view of a shaft assembly with dimensions such as 9.5, 4.75, 2-M4x0.7 depth 5, J, I, 6, 11, 10, K, KA, 5, 8.5, 5, 18.5, NA-M4x0.7 depth 5, and α.
- Middle Left Drawing:** A cross-sectional view of a component with dimensions 31.5, 15, 38, 16, and 2-M5x0.8 depth 6.
- Middle Right Drawing:** A side view of a coupling or pulley with dimensions 5, 1, N-M4x0.7 depth 5.5, 20, 50, Φ4^{+0.01}/_{-0.01} depth 3.5, F, (N/2-1) x F, 16, and 4-M4x0.7 depth 6.
- Bottom Left Drawing:** A side view of a shaft with dimensions 0.5, 8, M, 20, Z, and ZZ.
- Bottom Right Drawing:** A detailed view of a shaft assembly with dimensions (NN-1) x H, G, H, N-M5x0.8 Dp 10, 1, HA, GA, 5, 20, Φ4^{+0.01}/_{-0.01} depth 3.5, and Φ4^{+0.01}/_{-0.01} depth 3.5.

Stroke/Symbol	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
10	35	4	15	40	2	15	40	10	40	26.5	—	2	71	70	80
20	35	4	15	40	2	15	40	10	40	36.5	—	2	71	70	80
30	35	4	15	40	2	15	40	10	40	46.5	—	2	71	70	80
40	50	4	17	25	3	42	25	10	52	56.5	—	2	83	82	92
50	35	6	15	36	3	51	36	22	60	66.5	—	2	103	102	112
75	55	6	25	36	4	61	72	43	85	91.5	125.5	4	149	148	158
100	65	6	35	38	5	111	76	52	130	116.5	179.5	4	203	202	212

[illegible]

Stroke/Symbol	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
10	35	4	16	40	2	16	40	10	40	29	—	2	76	75	87
20	35	4	16	40	2	16	40	10	40	39	—	2	76	75	87
30	35	4	16	40	2	16	40	10	40	49	—	2	76	75	87
40	40	4	16	50	2	16	50	10	50	59	—	2	86	85	97
50	30	6	21	30	3	51	30	15	60	69	—	2	101	100	112
75	55	6	26	35	4	61	70	40	85	94	125	4	151	150	162
100	65	6	39	35	5	109	70	55	118	119	173	4	199	198	210
125	70	8	19	35	7	159	70	68	155	144	223	4	249	248	260

Technical drawing of the ACA1007-IN device, showing front and side views with dimensions and labels.

Front View Dimensions:

- Adjustable range: $SI \max = 23.5$
- Stroke adjusting device on forward end
- 15
- 12
- 35
- Adjustable range: $SI \max = 28$
- Stroke adjusting device on backward end
- 16.5
- 37.5

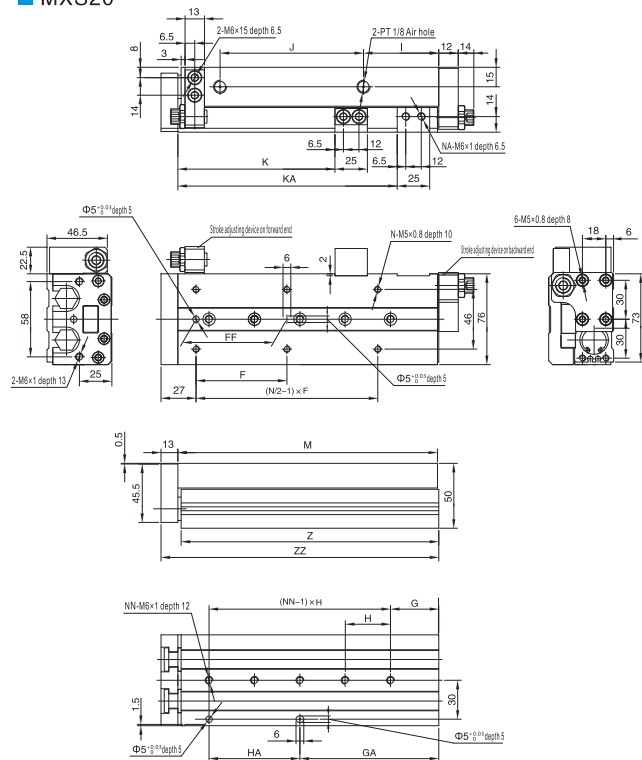
Labels:

- ACA1007-IN
- ACA1007-IN

Biaxial Type Precise Sliding Table Cylinder (Cross Roller Guide)

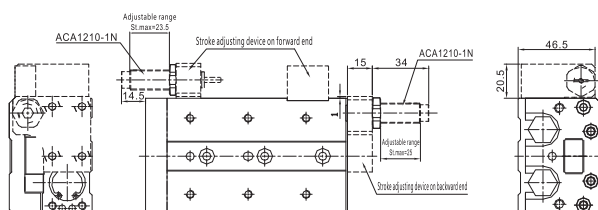
■ Dimension(mm):

■ MXS20

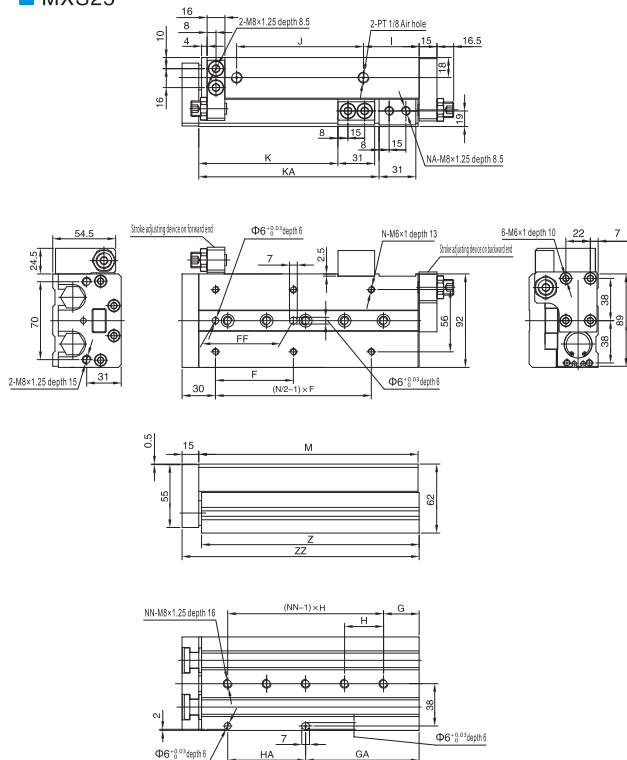


Stroke/Symbol	F	FF	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
10	50	40	4	15	45	2	25	35	10	44	31	—	2	83	81.5	9
20	50	40	4	15	45	2	25	35	10	44	41	—	2	83	81.5	97
30	50	40	4	15	45	2	25	35	10	44	51	—	2	83	81.5	97
40	60	50	4	15	55	2	35	35	10	54	61	—	2	93	91.5	107
50	35	35	6	15	35	3	50	35	10	69	71	—	2	108	106.5	122
75	60	60	6	19	35	4	54	70	10	108	96	—	2	147	145.5	161
100	70	70	6	37	35	5	107	70	58	113	121	169	4	200	198.5	214
125	70	70	8	41	38	6	155	76	70	155	146	223	4	254	252.5	268
150	80	80	8	19	44	7	195	88	87	190	171	275	4	306	304.5	320

MXS20(with hydraulic buffer)

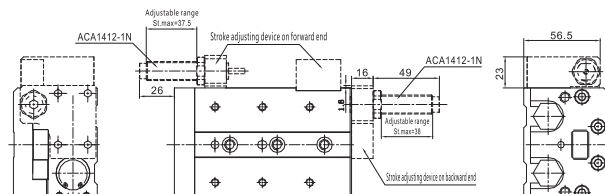


■ MXS25



Stroke/Symbol	F	FF	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
10	50	40	4	22	45	2	22	45	12	47	35	—	2	92	90.5	108
20	50	40	4	22	45	2	22	45	12	47	45	—	2	92	90.5	108
30	50	40	4	22	45	2	22	45	12	47	55	—	2	92	90.5	108
40	60	50	4	22	55	2	22	55	12	57	65	—	2	102	100.5	118
50	35	35	6	20	35	3	55	35	12	70	75	—	2	115	113.5	131
75	60	60	6	26	35	4	61	70	33	90	100	—	2	156	154.5	172
100	70	70	6	32	35	5	102	70	50	114	125	162	4	197	195.5	213
125	75	75	8	40	38	6	154	76	67	155	150	218	4	255	253.5	271
150	80	80	8	30	40	7	190	80	82	180	175	258	4	295	293.5	311

MXS25(with hydraulic buffer)



MXS

GDS Series Guide Cylinder

Guide Cylinder



Specification:

GDS 50	
Series	Bore
GDS	Φ12 Φ40
GDH	Φ16 Φ50
GDM	Φ20 Φ63
	Φ25 Φ80
	Φ32 Φ100

Product feature:

- 1.Oriented equipment can avoid piston rod rotating and can afford higher loaden torque.
- 2.Oriented equipments show high precision guide on workpiece transmission and another applications.
- 3.Two guiding forms: rolling bearings and sliding bearings.
- 4.There are mounting ports with multiplicate direction for multiplicate– directed install.
- 5.Oriented equipment can be connected with ISO6432 cylinder or ISO6431 cylidner when using.

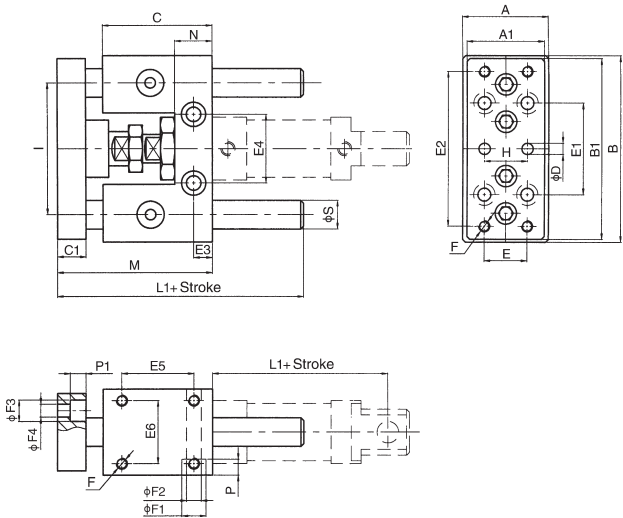
Dimension(mm):



GDS

GDS Dimension

Φ12~Φ16

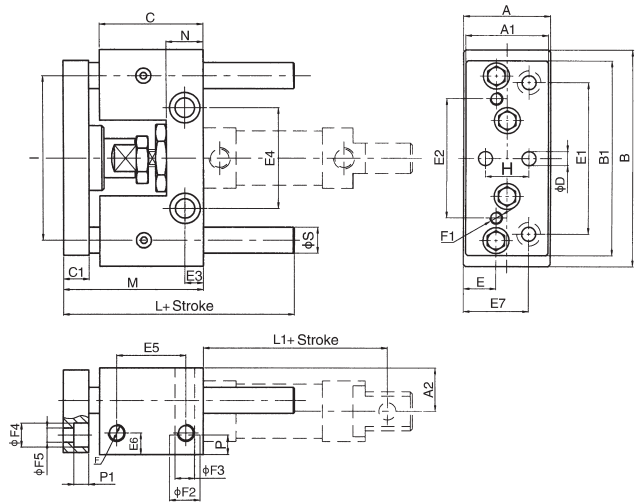


Bore/Symbol	A	A1	B	B1	C	C1	D	E	E1	E2	E3	E4	E5
10	30	27	65	63	38	10	4	15	32	54	6.5	24	25
16	30	27	65	63	38	10	4	15	32	54	6.5	24	25

Bore/Symbol	E6	F	F1	F2	F3	F4	H	I	L	L1	M	N	P	S
10	22	M4	8.5	5.1	7.5	4.5	15	46	70	53	54	13	5.5	10
16	22	M4	8.5	5.1	7.5	4.5	15	46	70	60	54	13	5.5	10

GDS Dimension

Φ20~Φ25



Bore/Symbol	A	A1	A2	B	B	C	C1	D	E	E1	E2	E3	E4	E5	E6
20	40	38	24	100	90	48	12	6	15	70	55	8.5	46.5	32	10
25	40	38	24	100	90	48	12	6	15	70	55	8.5	46.5	32	10

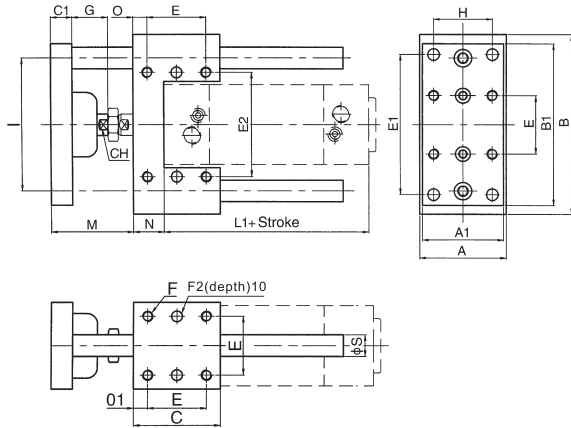
Bore/Symbol	E7	F	F1	F2	F3	F4	F5	H	I	L	L1	M	N	P	S
20	30	M8	24	14	9	11	6.5	20	76	77	71	65	17	9	12
25	30	M8	24	14	9	11	6.5	20	76	77	76	71	17	9	12

Guide Cylinder

Dimension(mm):

GDS Dimension

Φ32~Φ100

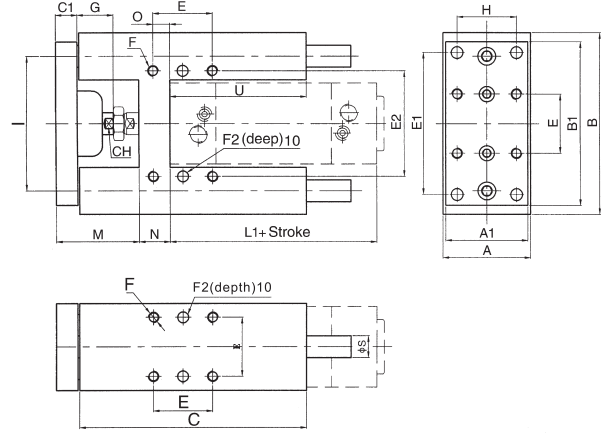


Bore/Symbol	A	A1	B	B1	C	C1	CH	D	E	E1	E2	F
32	48	45	100	90	48	12	12	6	32.5	78	58	M6
40	56	53	106	105	58	15	15	6	38	84	64	M6
50	66	63	125	120	59	15	16	6	46.5	100	80	M8
63	76	73	132	127	76	15	16	6	56.5	105	95	M8
80	98	95	165	160	90	16	20	6	50	130	130	M10
100	118	115	185	180	110	16	20	6	70	150	150	M10

Bore/Symbol	F1	F2	G	H	I	L	L1	M	N	O	O1	S
32	6.5	6	20	31	74	108	94	46	17	7.8	7.8	12
40	6.5	6	21	36	80	120	105	52	21	10	10	12
50	8.5	6	24	45	96	130	106	65	25	6.3	6.3	16
63	8.5	6	24	45	104	145	121	65	25	9.8	9.8	16
80	11	6	31	56	130	170	128	71	34	20	9	20
100	11	6	31	56	152	190	138	71	39	20	10.5	20

GDH, GDM Dimension

Φ32~Φ100

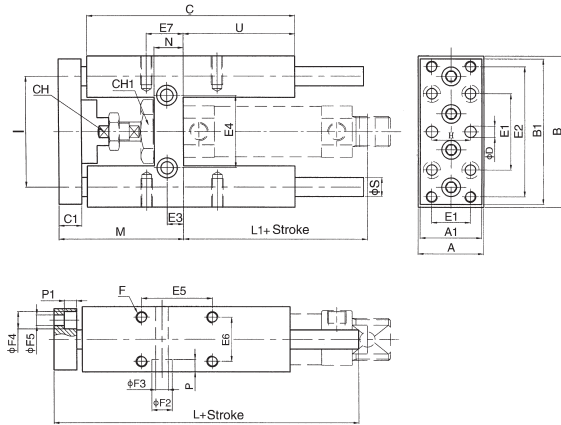


Bore/Symbol	A	A1	B	B1	C	C1	D	E	E1	E2	F	F1
32	49	45	97	90	125	12	6	32.5	78	61	M6	6.5
40	58	54	115	110	139	15	6	38	84	69	M6	6.5
50	69	63	137	130	148	15	6	46.5	100	85	M8	8.5
63	85	79	152	145	182	15	6	56.5	105	100	M8	8.5
80	105	99	189	180	215	20	6	72	130	130	M10	11
100	129	120	213	200	220	20	6	89	150	150	M10	11

Bore/Symbol	F2	G	H	I	L	L1	M	N	O	ΦS	CH	U
32	6	18	31	74	177	94	47	17	4.3	12	13	76
40	6	21	36	87	192	105	53	21	11	12	15	81
50	6	24	45	104	205	106	63	26	18.5	16	22	78
63	6	24	45	119	237	121	62	26	15.3	16	22	111
80	6	31	56	148	280	128	76	34	21	20	27	128
100	6	31	56	173	280	138	76	39	24.5	20	27	128

GDH, GDM Dimension

Φ12~Φ25



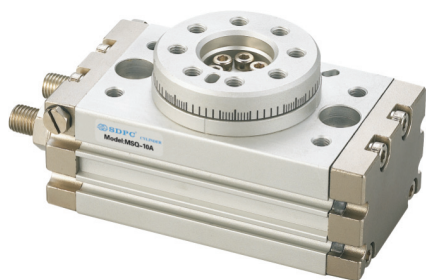
Bore/Symbol	A	A1	B	B1	C	C1	CH	CH1	D	E	E1	E2	E3	E4	E5	E6
12	30	27	65	63	75	10	8	19	4	15	32	54	6.5	15	24	22
16	30	27	65	63	75	10	8	19	4	15	32	54	6.5	15	24	22
20	34	32	79	76	108	12	12	27	6	20	40	68	8.5	20	38	23
25	34	32	79	76	108	12	12	27	6	20	40	68	8.5	20	38	23

Bore/Symbol	E7	F1	F2	F3	F4	F5	G	H	I	L	L1	M	N	P	S	U
12	M4	M4	8.5	5.1	7.5	4.5	12	15	46	130	53	51	15	5.5	8	37
16	M4	M4	8.5	5.1	7.5	4.5	12	15	46	130	60	51	15	5.5	8	37
20	M6	M5	10.5	6.5	9	5.5	22	20	58	159	71	65	15	6.5	10	58
25	M6	M5	10.5	6.5	9	5.5	17	20	58	159	76	65	15	6.5	10	58



GDS

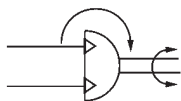
Rotating Cylinder



Specification:

Type	2	3	7	10	20	30	50	70	100	200
Motion	Double piston rack and pinion double acting type									
Fluid	Compressed Air									
Working Pressure (MPa)	With adjusting screw: 0.1~0.7				With adjusting screw: 0.1~1; With hydraulic buffer : 0.1~0.6					
Warrant endure-pressure (MPa)	1.5									
Ambient temperature range (℃)	0~60									
Theoretical torque (Nm)/(0.5Mpa)	0.2	0.33	0.63	1.1	2.2	2.8	5.0	7.5	11.0	22.0
Rotation angle range °	0~190									
Cushion type	With adjusting screw: Bumper				With adjusting screw: Bumper; With hydraulic buffer					
Port size	Front	M5×0.8				G1/8"				
	Side					M5×0.8				

Symbol:



Product feature:

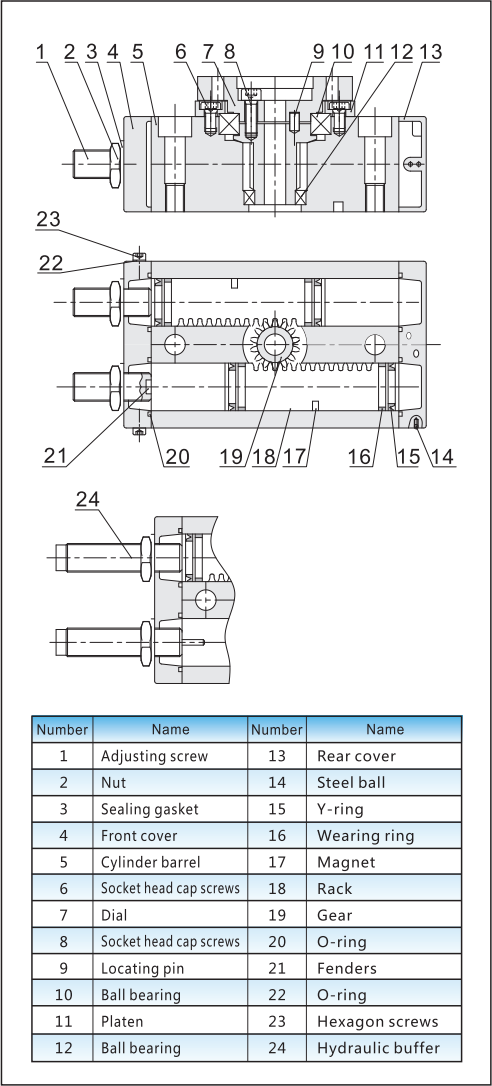
- 1.With pinion and rack structure, it runs smoothly.
 - 2.Double cylinders structure can get double output.
 - 3.The workbench with high process precision and accurate positioning is convenient for loading and installation.
 - 4.Through hole is in the middle of the workbench for tubulation.
 - 5.The two sides(10~200) or bottom(2~7) of the cylinder body both have dowel holes and are easy for installation and using.
 - 6.Adjusting screw fixed buffer and oil buffer are optional. And the biggest buffer energy of the oil buffer is 3 to 5 times larger than that of adjusting screw fixed buffer with better buffering effect.
- Notes:HRQ2、3、7 only has adjusting screw fixed buffer, no oil buffer.

How to order:

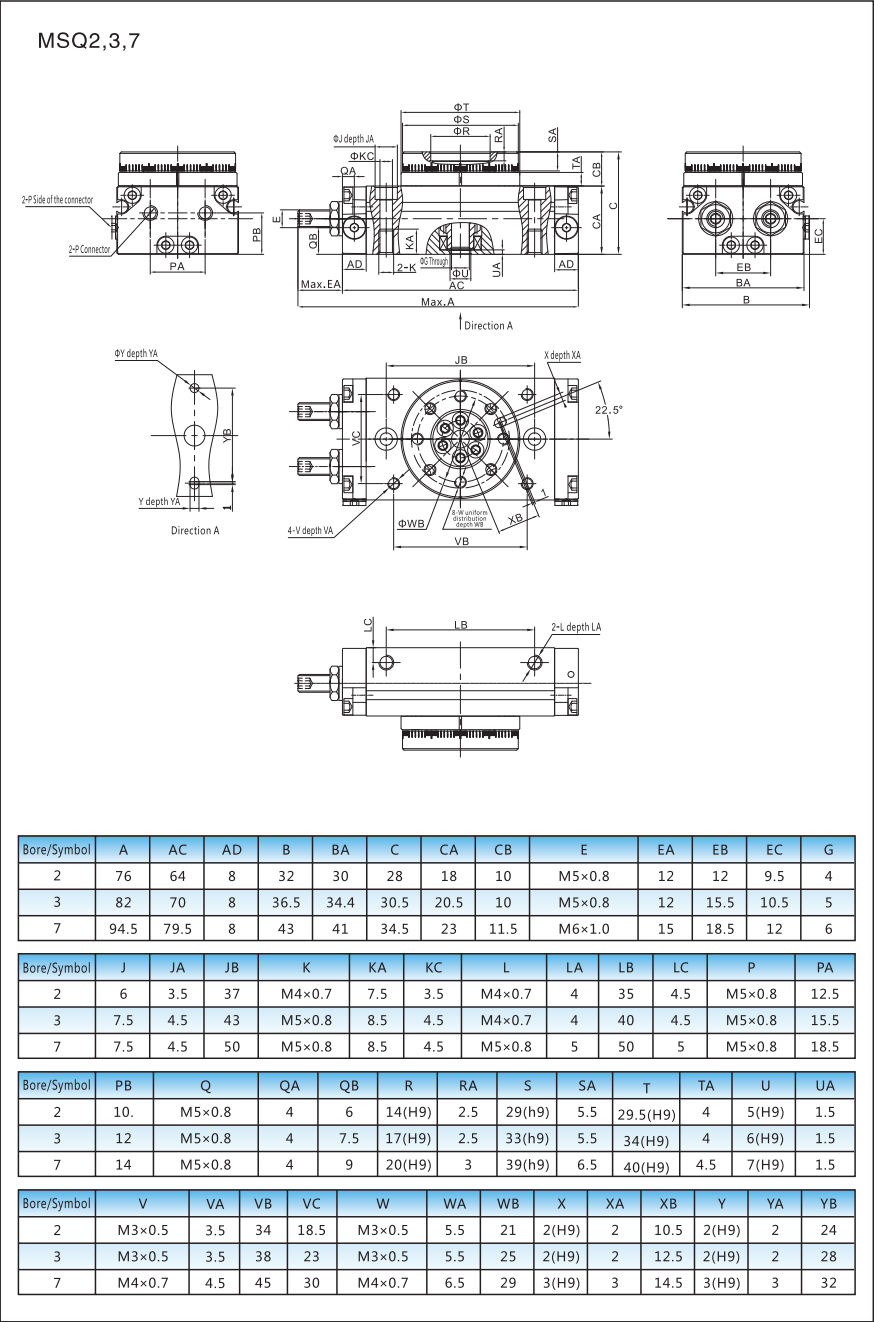
MSQ 20 A										
Specification					Cushion type					
HRQ: Rotating Cylinder					2 3 7		Blank: Fixed bumper			
Type					10 20 30 50		Blank: Fixed bumper			
					70 100 200		A: Hydraulic buffer			
2 3 7 10 20 30 50 70 100 200										

Rotating Cylinder

Inner structure drawing:



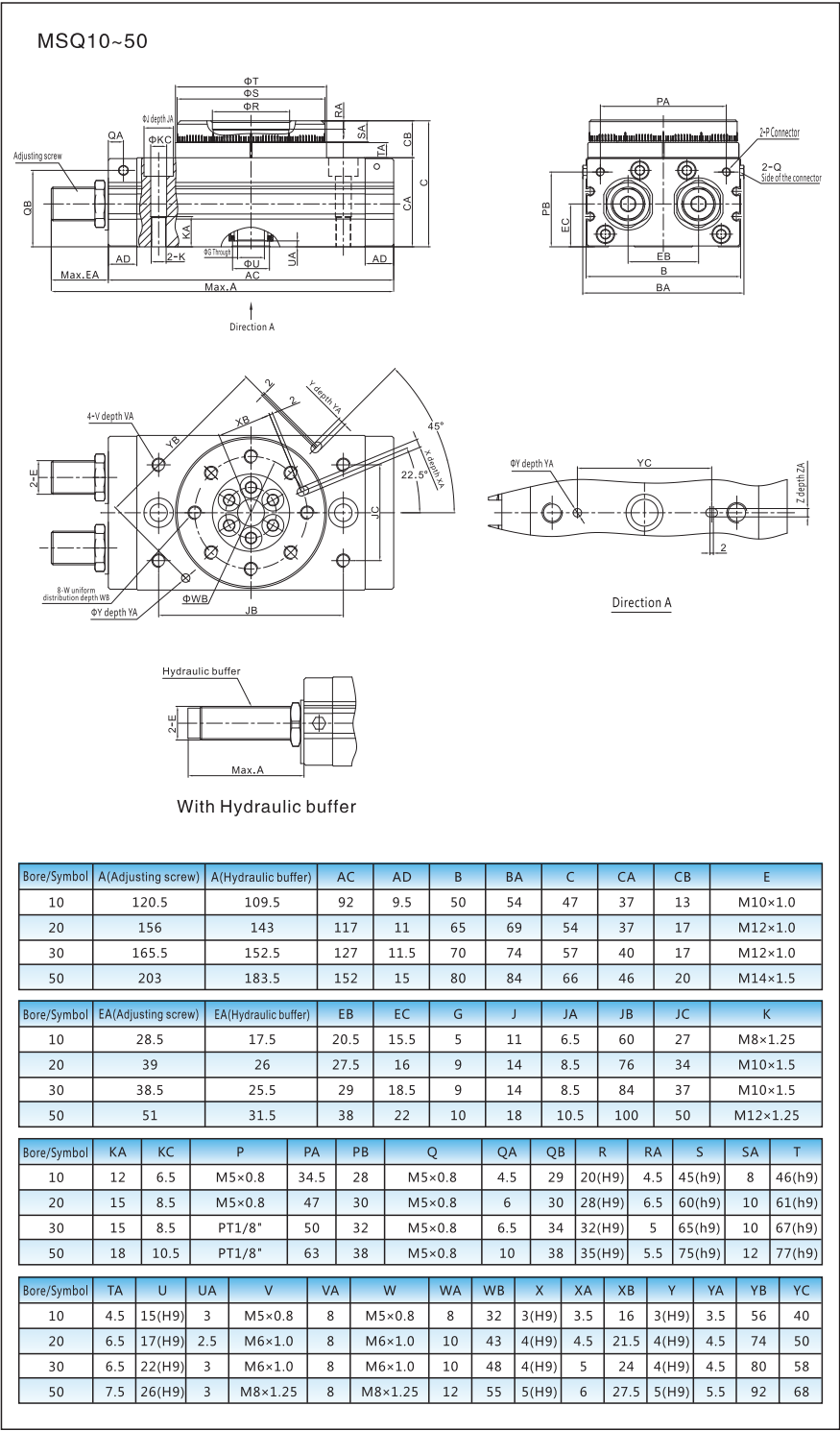
Dimension(mm):



MSQ

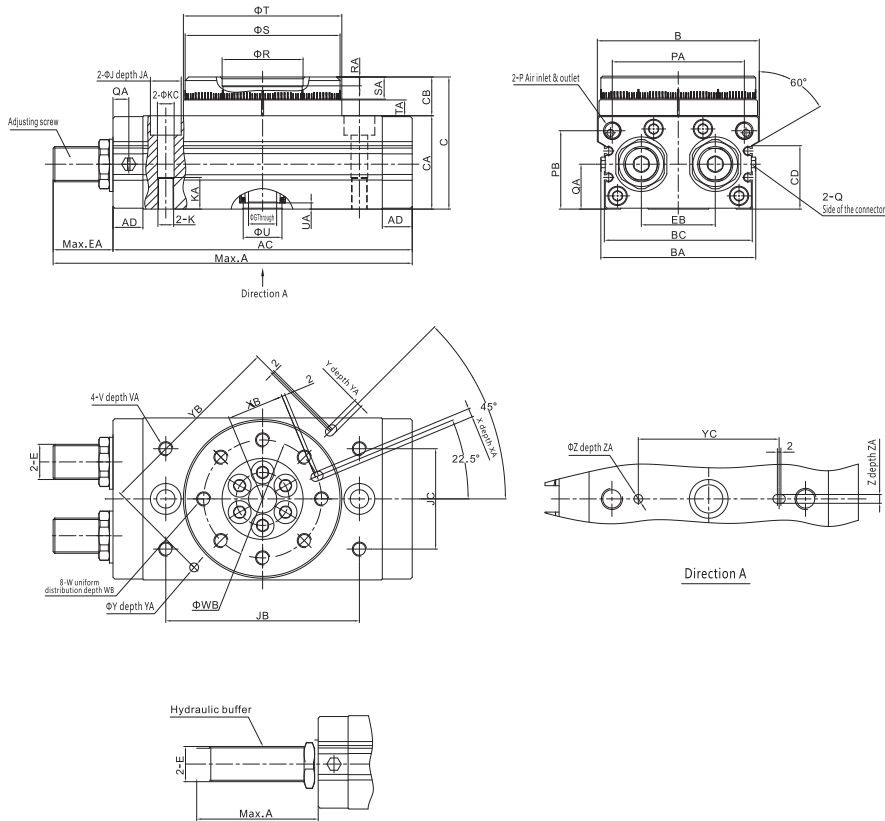
Rotating Cylinder

■ Dimension(mm):



Dimension(mm):

MSQ70~200



With Hydraulic buffer

Bore/Symbol	A(Adjusting screw)	A(Hydraulic buffer)	AC	AD	B	BA	BC	C	CA	CB	CD
70	204	238	170	17	92	88	84	75	53	22	36
100	223	257	189	17	102	99	95	86	59	27	42
200	276.5	314.5	240	24	120	117	113	106	74	32	57

Bore/Symbol	E	EA(Adjusting screw)	EA(Hydraulic buffer)	EB	G	J	JA	JB	JC	K	KA	KC
70	M20×1.5	34	68	42	16	17.5	10.5	110	57	M12×1.75	18	10.5
100	M20×1.5	34	68	50	19	17.5	10.5	130	66	M12×1.75	18	10.5
200	M27×1.5	36.5	74.5	60	24	20	12.5	150	80	M16×2.0	25	14

Bore/Symbol	P	PA	PB	Q	QA	R	RA	S	SA	T	TA	U	V	VA
70	PT1/8"	75	44.5	M5×0.8	25.5	46(h9)	5	88(h9)	12.5	90(h9)	9	22(H9)	M8×1.25	10
100	PT1/8"	85	50.5	M5×0.8	29.5	56(h9)	6	98(h9)	14.5	100(h9)	12	24(H9)	M8×1.25	10
200	PT1/8"	103	63	M5×0.8	36.5	64(h9)	9	116(h9)	16.5	118(h9)	15	32(H9)	M12×1.75	13

Bore/Symbol	W	WA	WB	X	XA	XB	Y	YA	YB	YC	Z	ZA
70	M8×1.25	12.5	67	5(H9)	5.5	33.5	5(H9)	3.5	110	80	5(H9)	3.5
100	M8×1.25	14.5	77	6(H9)	6.5	38.5	6(H9)	4.5	120	100	6(H9)	4.5
200	M12×1.75	16.5	90	8(H9)	8.5	45	8(H9)	4.5	140	110	8(H9)	6.5

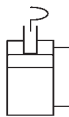


MSQ

Angle Cylinder



Symbol:



Product feature:



ACK

- 1.The material of the seal ensures cylinder can be used in various conditions with reliable performance.
- 2.With three guiding grooves structure, it has high guiding precision.
- 3.Working ways: unilateral and bilateral(90°).
- 4.Rotating ways: left and right; 90° and 180° .
- 5.The material of the piston rod is special alloy steal. After being heat treatment, it will have a long sevice life.

Specification:

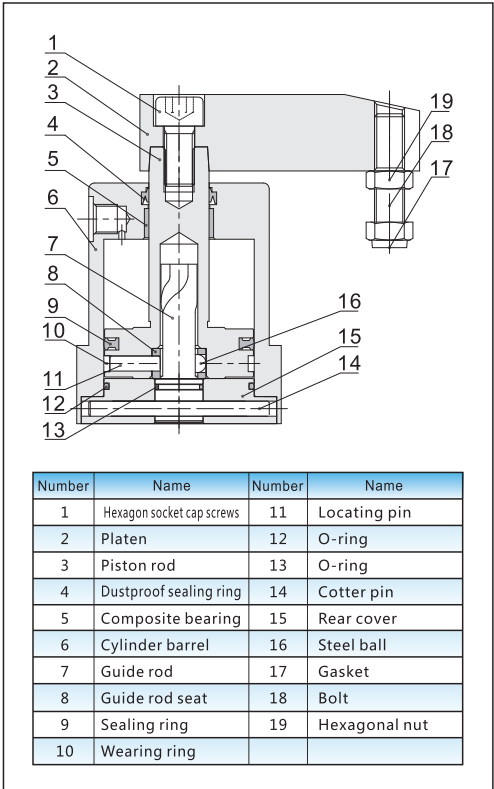
Type	25	32	40	50	63
Motion	Double acting				
Fluid	Compressed air				
Working Pressure (MPa)	0.15~1				
Ambient temperature range (°C)	-20~80				
Speed range (mm/s)	50~200				
Stroke tolerance range	+1.0 0				
Rotation angle tolerance range °	±1.5				
Cushion type	No				
Port size	M5×0.8	1/8"			

How to order:

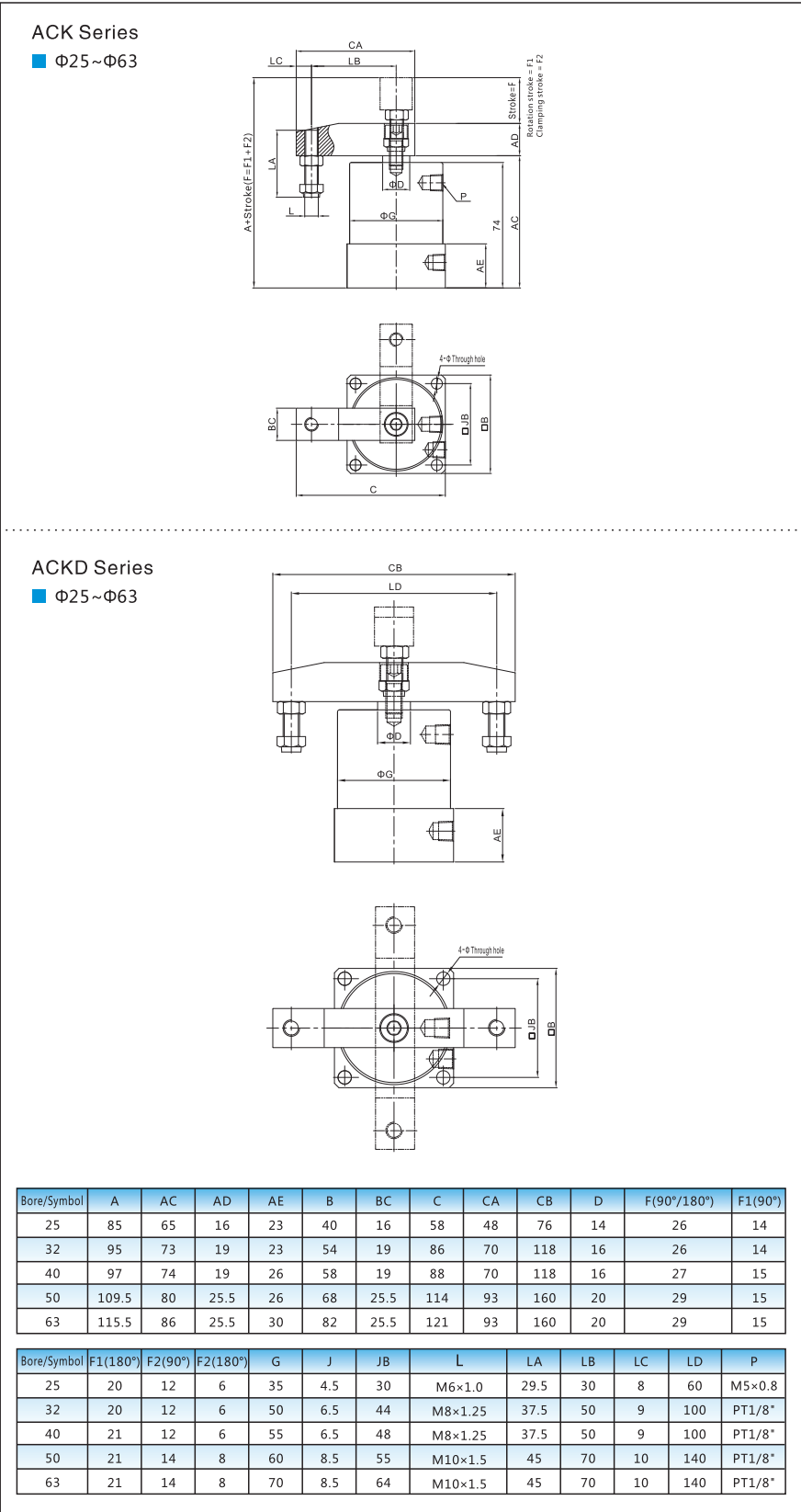
ACK L 25 × 90				
Specification		Corner code		
ACK: Angle Cylinder		90: 90°		
ACKD: Angle Cylinder(Bilateral platen)		180: 180°		
Veer code		Bore		
L: Press down and turn left		25		
R: Press down and turn right		32		
		40		
		50		
		63		

Angle Cylinder

Inner structure drawing:

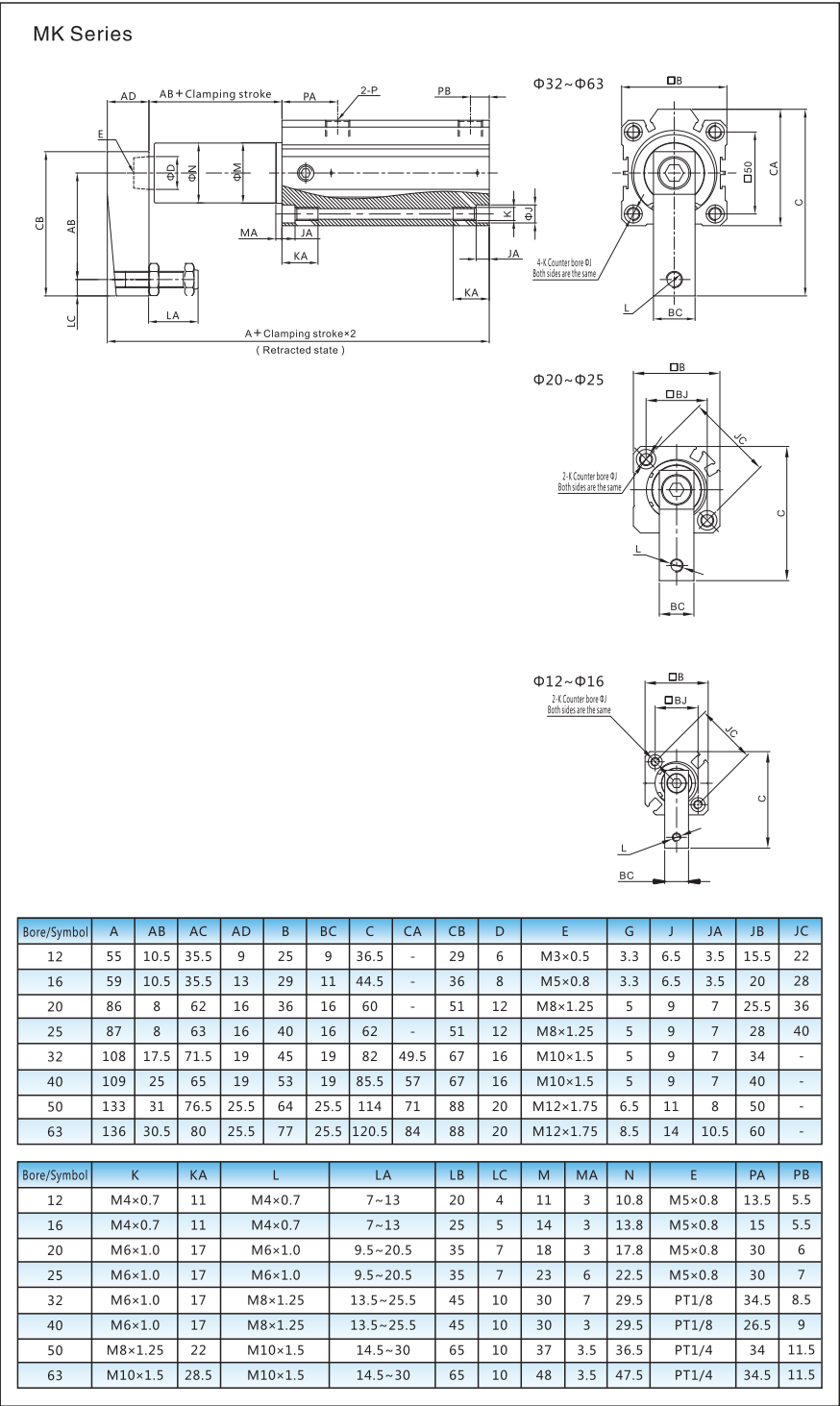


Dimension(mm):



Rotary Clamping Cylinder

Dimension(mm):



MK

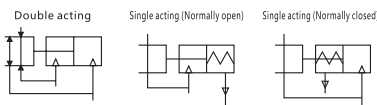
Parallel Open and Close Type



Specification:

Type		6	10	16	20	25	32	40
Fluid		Compressed air						
Working pressure (Mpa)	Single acting	0.15~0.7	0.2~0.7	0.1~0.7				
	Double acting	0.3~0.7	0.35~0.7	0.25~0.7				
Ambient and fluid temperature(°C)		-10~60						
Repeated precision (mm)		±0.01					±0.02	
Maximum frequency of use (c.p.m)		180(MHZL2 series 120)					60	
Oil feeding		Not required						
Acting way		Double acting · Single acting						
Magnetic switch (optional)		Non-contact magnetic switch (MHZA2 without magnetic switch)						
Port size		M3×0.5		M5×0.8				

Symbol:



Product feature:

1. Adopt the integrated design of linear guideway with high rigidity and prcision.
2. Positioning pin is at the bottom of the linear guideway to prevent positional pin deviating from the body.
3. The body attaches fixed benchmark centering hole to improve the fixed-precision and repeating disassembling positioning consistency.
4. According to customers' actual using requirement, the original position of the clamping jaw can be customized to meet the different needs of different operating conditions.

How to order:

MHZ 16 D M9B

Type

Blank: Standard type
A: Small type
L: Long stroke type
J: With dust cover type

Bore

Φ6: 6mm
Φ10: 10mm
Φ16: 16mm
Φ20: 20mm
Φ25: 25mm
Φ32: 32mm
Φ40: 40mm

Motion

D: Double acting
S: Single acting (Normally open)
C: Single acting (Normally closed)

Optional gripper

Blank: Standard type
1: Side screw hole mounting
2: Open and close direction through-hole mounting type
3: Flat gripper type

Number of magnetic switches

Blank: 2
S: 1

Magnetic switch model

Blank: No magnetic switch
ZA: No magnetic switch

Cylinder color

Blank: Hard oxygen natural color
A: Hard oxygen black
B: Hard oxygen gold
C: Hard oxygen pink
D: Please contact the sales person for special colors.

The type of claw is optional

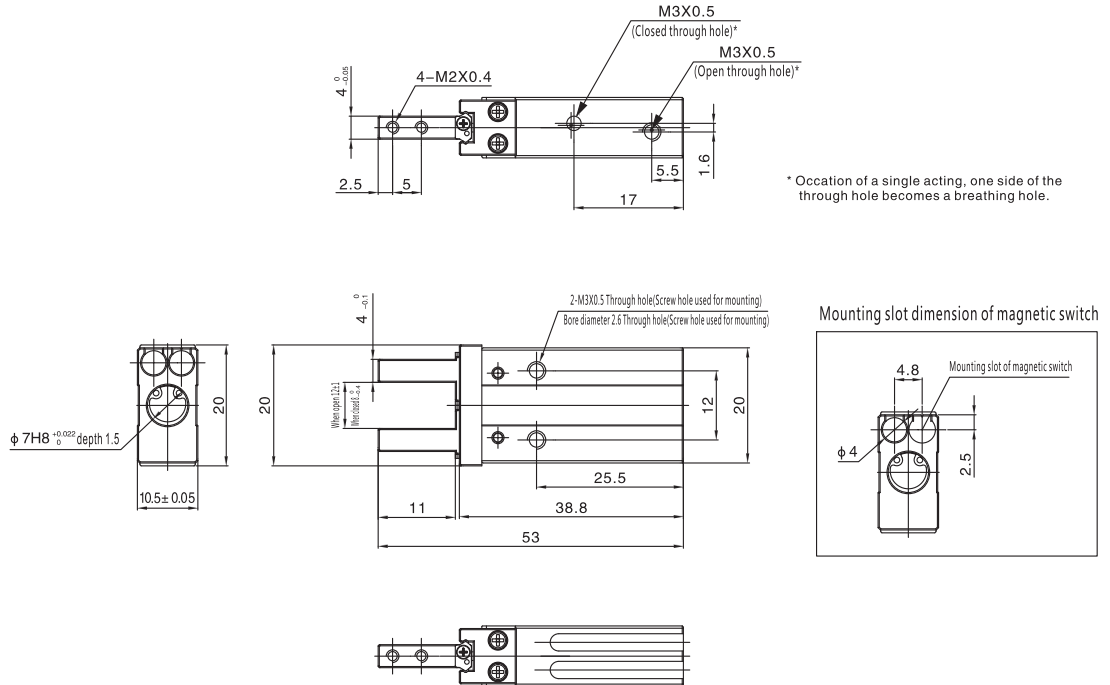
Blank: Standard type
M: Terminal block type Axial M5 through hole (single acting)
E: Terminal block type side piping (double acting / single acting)
H: Terminal block type With Φ4 Axial through hole of hose connector (single acting)

Parallel Open and Close Type

■ Dimension(mm):

■ MHZ2-6

Double acting/Single acting
Standard Type



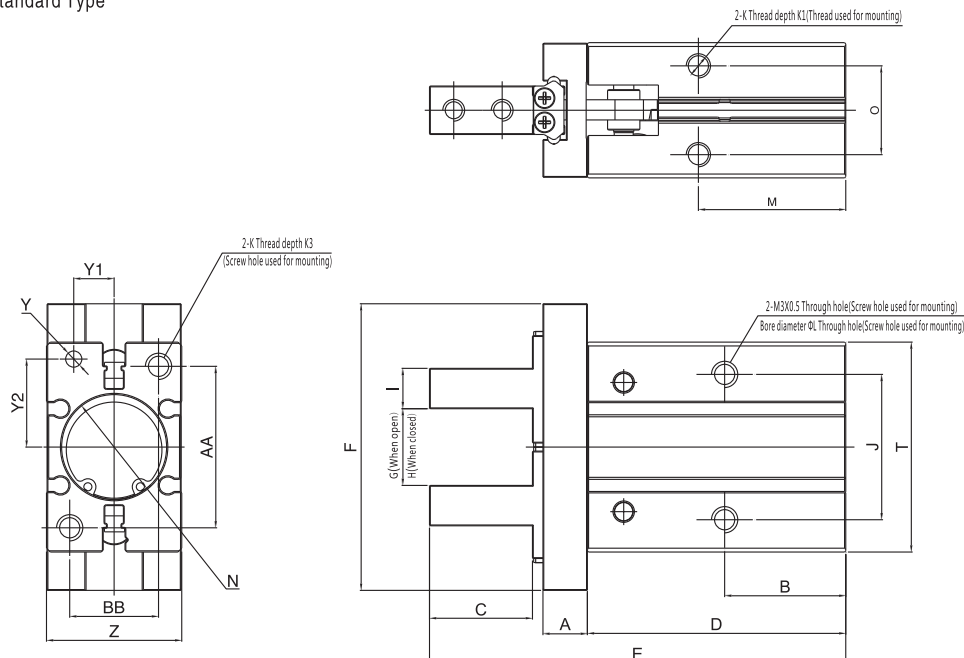
MHZ ☐

Parallel Open and Close Type

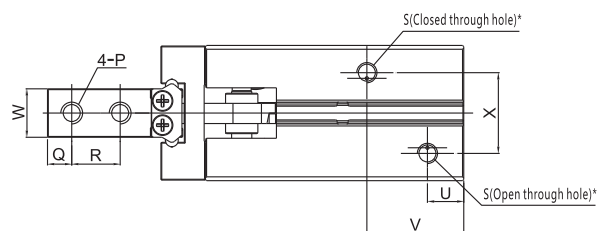
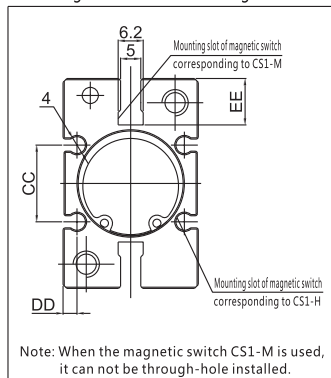
Dimension(mm):

MHZ-☐☐

Double acting/Single acting
Standard Type



Mounting slot dimension of magnetic switch



* Occation of a single acting, one side of the through hole becomes a breathing hole.

Bore	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ΦL	M	N	O	P	Q	R	S	T	U
10	6	23	12	37.8	57	29	15.2 ^{+0.2} _{-0.1}	11.2 ^{+0.1} _{-0.1}	4 ^{+0.1} _{-0.1}	16	M3X0.5	6	5.5	6	2.6	27	Φ11H9 ^{+0.043} _{-0.013} depth 2	11.4	M2.5X0.45	3	5.7	M3X0.5	23	9
16	7.5	24.5	15	42.5	67.3	38	20.9 ^{+0.2} _{-0.1}	14.9 ^{+0.1} _{-0.1}	5 ^{+0.1} _{-0.1}	24	M4X0.7	4.5	8	8	3.4	30	Φ17H9 ^{+0.043} _{-0.013} depth 2	16	M3X0.5	4	7	M5X0.8	30.6	7.5
20	9.5	29	20	52.8	84.8	50	26.3 ^{+0.2} _{-0.1}	16.3 ^{+0.1} _{-0.1}	8 ^{+0.1} _{-0.1}	30	M5X0.8	8	10	10	4.3	35	Φ21H9 ^{+0.043} _{-0.013} depth 3	18.6	M4X0.7	5	9	M5X0.8	42	10
25	11	30	25	63.6	102.7	63	33.3 ^{+0.2} _{-0.1}	19.3 ^{+0.1} _{-0.1}	10 ^{+0.1} _{-0.1}	36	M6X1	10	12	12	5.1	36.5	Φ26H9 ^{+0.043} _{-0.013} depth 3.5	22	M5X0.8	6	12	M5X0.8	52	10.7
32	12	40(49)	29	67(76)	113(122)	97	48 ^{+0.2} _{-0.1}	26 ^{+0.1} _{-0.1}	12 ^{+0.1} _{-0.1}	46	M6X1	10	13	13	5.1	48(57)	Φ34H9 ^{+0.043} _{-0.013} depth 4	26	M6X1	7	14	M5X0.8	60	11
40	15	49(62)	36	83(96)	139(152)	119	60 ^{+0.2} _{-0.1}	30 ^{+0.1} _{-0.1}	14 ^{+0.1} _{-0.1}	56	M8X1.25	13	16	17	6.6	58(71)	Φ42H9 ^{+0.043} _{-0.013} depth 4	32	M8X1.25	9	17	M5X0.8	72	12

Bore	V	W	X	Y	Y1	Y2	Z	AA	BB	CC	DD	EE
10	19	5 ⁺⁰ _{-0.05}	11	Φ2H9 ^{+0.019} _{-0.009} depth 3	5.2 ± 0.02	7.6 ± 0.02	16.4 ± 0.05	18	12			5.4
16	19	8 ⁺⁰ _{-0.05}	13	Φ3H9 ^{+0.019} _{-0.009} depth 3	6.5 ± 0.02	11 ± 0.02	23.6 ± 0.05	22	15	11.6	2.1	5.8
20	23	10 ⁺⁰ _{-0.05}	15	Φ4H9 ^{+0.019} _{-0.009} depth 4	7.5 ± 0.02	16.8 ± 0.02	27.6 ± 0.05	32	18	14	2.1	9
25	23.5	12 ⁺⁰ _{-0.05}	20	Φ4H9 ^{+0.019} _{-0.009} depth 4	10 ± 0.02	21.8 ± 0.02	33.6 ± 0.05	40	22	19	3.5	11.5
32	31(37)	15 ⁺⁰ _{-0.05}	24	Φ5H9 ^{+0.019} _{-0.009} depth 5	12 ± 0.02	23 ± 0.02	40 ± 0.1	46	26	24	3.3	11.5
40	38(45)	18 ⁺⁰ _{-0.05}	28	Φ5H9 ^{+0.019} _{-0.009} depth 5	14 ± 0.02	29 ± 0.02	48 ± 0.1	56	32	29.4	3.7	13

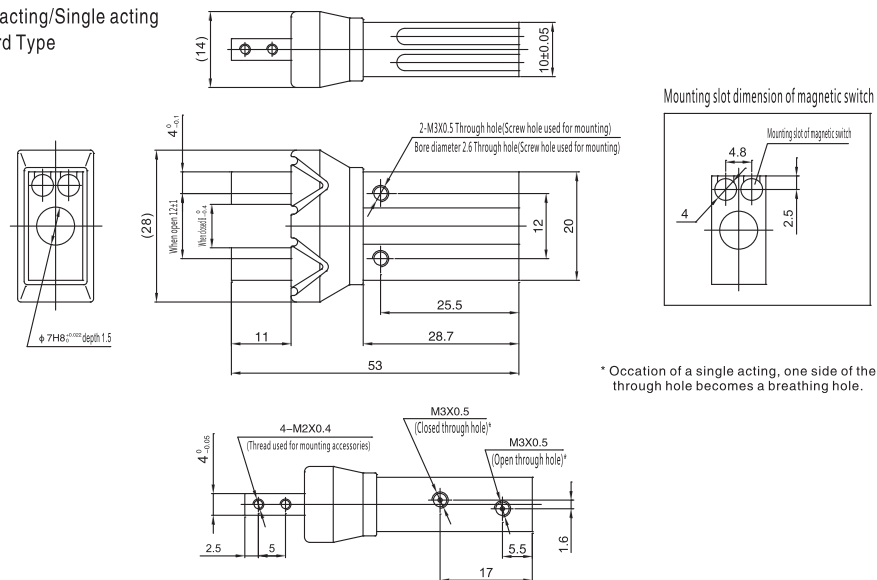
Note): When the dimension inside the brackets is single acting.

Parallel Open and Close Type

■ Dimension(mm):

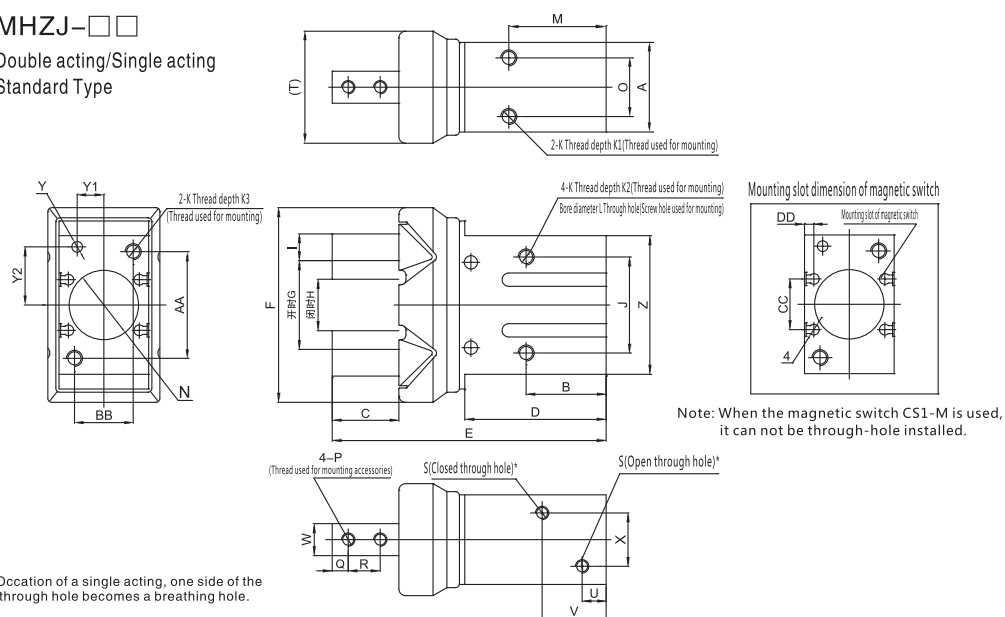
■ MHZJ-6

Double acting/Single acting
Standard Type



■ MHZJ-

Double acting/Single acting
Standard Type



Bore	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ΦL	M	N
10	16.4 ± 0.05	23	12	31	57	34	15.2 ^{+2.2} ₀	11.2 ⁰ _{-0.7}	4 ⁰ _{-0.1}	16	M3X0.5	6	5.5	6	2.6	27	Φ 11H9 ^{+0.043} ₀ depth 2
16	23.6 ± 0.05	24.5	15	34.8	67.3	45	20.9 ^{+2.2} ₀	14.7 ⁰ _{-0.7}	5 ⁰ _{-0.1}	24	M4X0.7	4.5	8	8	3.4	30	Φ 17H9 ^{+0.043} ₀ depth 2
20	27.6 ± 0.05	29	20	43.5	84.8	58	26.3 ^{+2.2} ₀	16.3 ⁰ _{-0.7}	8 ⁰ _{-0.1}	30	M5X0.8	8	10	10	4.3	35	Φ 21H9 ^{+0.052} ₀ depth 3
25	33.6 ± 0.05	30	25	53	102.7	73	33.3 ^{+2.5} ₀	19.3 ⁰ _{-0.8}	10 ⁰ _{-0.1}	36	M6X1	10	12	12	5.1	36.5	Φ 26H9 ^{+0.052} ₀ depth 3.5

Bore	O	P	Q	R	S	T	U	V	W	X	Y	Y1	Y2	Z	AA	BB	CC	DD
10	11.4	M2.5X0.45	3	5.7	M3X0.5	21	7	19	5 ⁰ _{-0.05}	11	Φ 2H9 ^{+0.025} ₀ depth 3	5.2 ± 0.02	7.6 ± 0.02	23	18	12	18	8.2
16	16	M3X0.5	4	7	M5X0.8	29.6	7.5	19	8 ⁰ _{-0.05}	13	Φ 3H9 ^{+0.025} ₀ depth 3	6.5 ± 0.02	11 ± 0.02	30.6	22	15	11.6	2.1
20	18.6	M4X0.7	5	9	M5X0.8	34.5	8.5	23	10 ⁰ _{-0.05}	15	Φ 4H9 ^{+0.03} ₀ depth 4	7.5 ± 0.02	16.8 ± 0.02	42	32	18	14	2.1
25	22	M5X0.8	6	12	M5X0.8	42	9	24	12 ⁰ _{-0.05}	20	Φ 4H9 ^{+0.03} ₀ depth 4	10 ± 0.02	21.8 ± 0.02	52	40	22	19	3.5

Pivot Open and Close Type



Specification:

Type		6	10	16	20	25
Fluid		Compressed air				
Operating pressure range(Mpa)	Single acting	0.3~0.6	0.25~0.6			
	Double acting	0.15~0.6	0.1~0.6			
Ambient and fluid temperature(°C)		-10~60				
Repeated precision (mm)		±0.02	±0.01			
Maximum frequency of use (c.p.m)		180				
Oil feeding		Not required				

How to order:

MHC□	20	D	Y59A	S
Type	Blank: Standard Type Pivot Open and Close Type	Bore	Blank: 2 S : 1	Number of magnetic switches
		Φ10: 10mm Φ16: 16mm Φ20: 20mm Φ25: 25mm	Magnetic switch model	Blank: No magnetic switch(Built-in magnet ring)
			Motion	D: Double acting S: Single acting (Normally open)

Symbol:



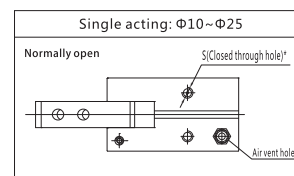
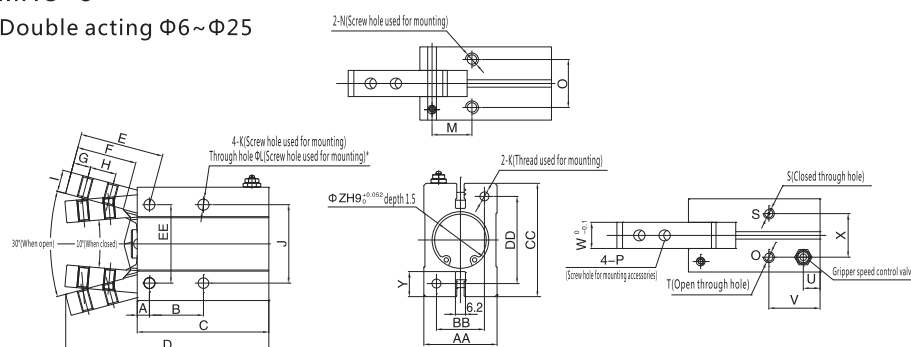
Product feature:

1. Adopt single piston structure with big clamping torque.
2. It comes with variable throttle valve to adjust the opening and closing speed of the clamping jaw conveniently.
3. Reasonable clamping angle makes the actual using range wide.
4. Accurate positioning precision makes picking up the workpieces more accurate and reliable.
5. Various forms of installation are convenient for the use of different occasions.
6. All series attached with magnet are convenient for control.

Dimension(mm):

MHC-6

Double acting Φ6~Φ25



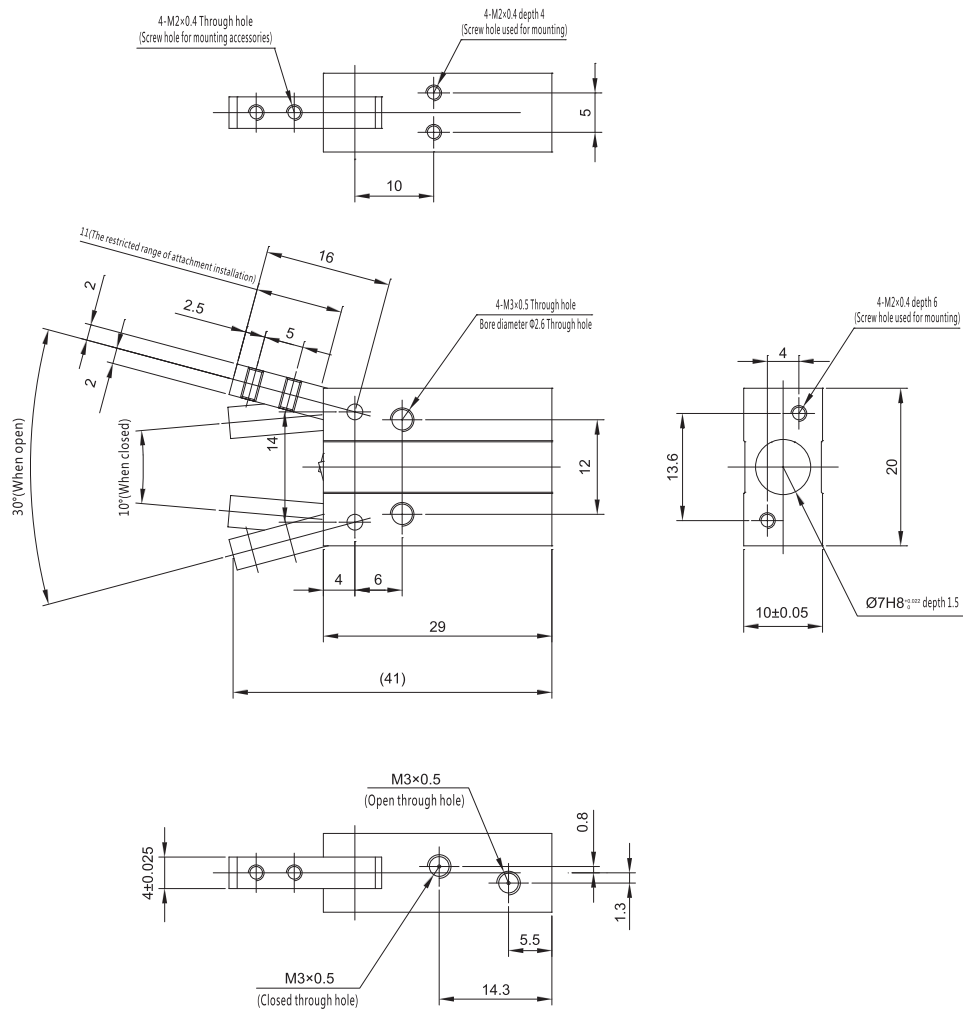
*If a magnetic switch is fitted, the ΦL mounting hole can not be used.

Bore (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	port size		U	V	W	X	Y	Z	AA	BB	CC	DD	E
																	S	T											
6	4	6	29	41	16	11	2.5	5	2	12	M3X0.5 Through hole	2.6	–	M2X0.4 depth 4	5	M2X0.4	M3X0.5	–	–	4	2.1	–	7	10	4	20	13.6	14	
10	2.8	12.8	38.6	52.4	17.2	12	3	5.7	4	16	M3X0.5 depth 5	2.6	8.8	M3X0.5 depth 6	11.4	M2.5X0.45	M3X0.5	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	M4X0.7 depth 8	3.4	10.7	M4X0.7 depth 8	16	M3X0.5	M5X0.8	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	M5X0.8 depth 10	4.3	15.7	M5X0.8 depth 8	18.6	M4X0.7	M5X0.8	7.5	22.2	10	15	9	21	27.6	18	42	32	20	
25	4.6	25.8	60.4	92	37.5	27	8	12	10	36	M6X1 depth 12	5.1	19.3	M6X1 depth 10	22	M5X0.8	M5X0.8	7.7	23.5	12	20	11.5	26	33.6	22	52	40	25	

Pivot Open and Close Type

■ Dimension(mm):

■ MHCA-6



MHC□

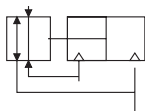
Pivot Open and Close Type/ Cam Type 180° Open and Close



Specification:

Type	MHY-10D	MHY-16D	MHY-20D	MHY-25D
Fluid	Compressed Air			
Motion	Double acting			
Maximum working pressure(Mpa)	0.6			
Minimum working pressure(Mpa)	0.1			
Ambient and fluid temperature(°C)	-10~60			
Repeated precision (mm)	±0.2			
Maximum frequency of use (c.p.m)	60			
Clamping torque(Nm)	0.16	0.54	1.10	2.28
Oil feeding	Not required			
Port size	M5×0.8			

Symbol:



Product Feature:

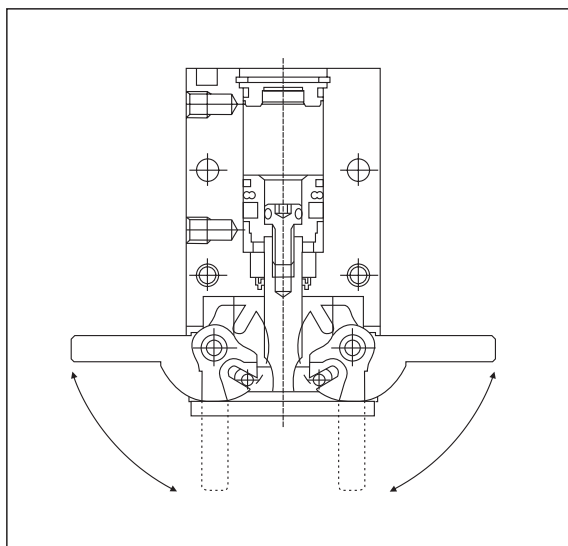
1. With magnetic ring inside, it can install magnetic switch.
2. 180° open and close type simplifies the pick-and-place action.
3. It can be used in special environment. The open and close part of the fingers are specially designed to prevent small objects from getting in.
4. It is easy for installation with dowel holes.

How to order:

MHY 16 D 2 M9NL 

- Type**
 - Blank: Standard Type
 - Pivot Open and Close Type
- Bore**
 - Φ10: 10mm
 - Φ16: 16mm
 - Φ20: 20mm
 - Φ25: 25mm
- Motion**
 - D: Double acting
- Number of magnetic switches**
 - Blank: 2
 - S : 1
- Magnetic switch model**
 - Blank: No magnetic switch
 - M9N(V) The specifications and characteristics of magnetic switch refer to the magnetic switch series.
 - M9B(V)
- Gripper installing form**
 - Blank: Screw hole mounting (standard)
 - 2. Through-hole installation on open and close direction

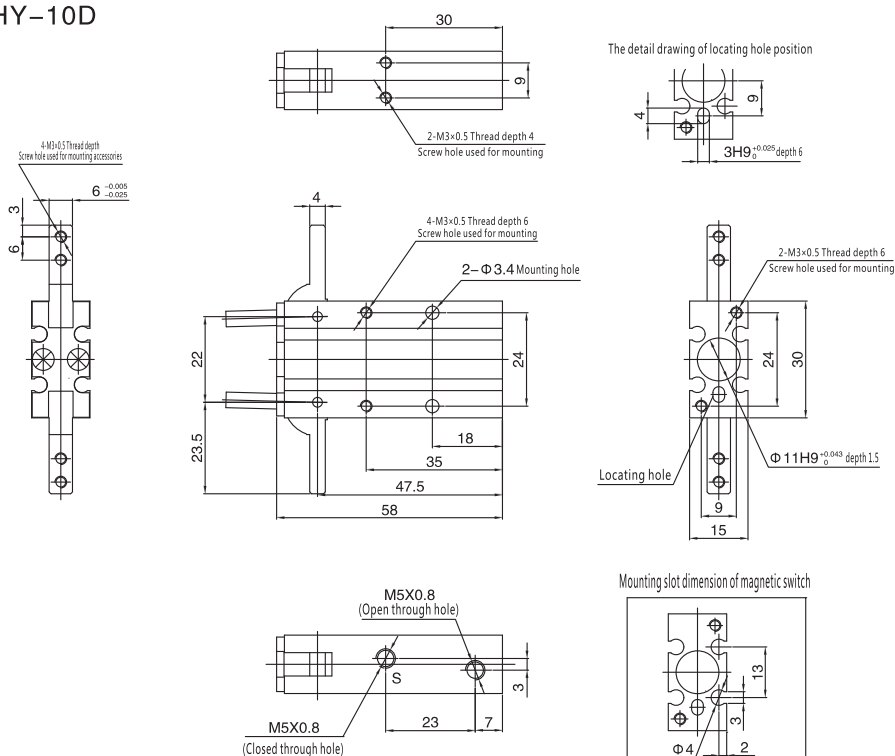
Inner structure drawing:



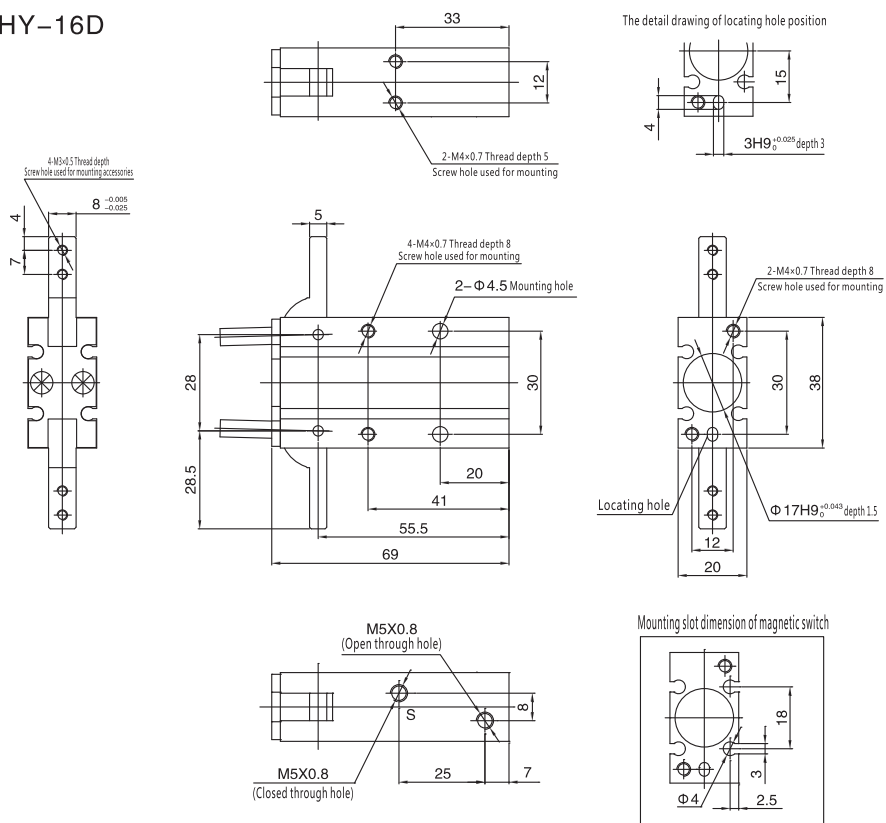
Pivot Open and Close Type/ Cam Type 180° Open and Close

■ Dimension(mm):

■ MHY-10D



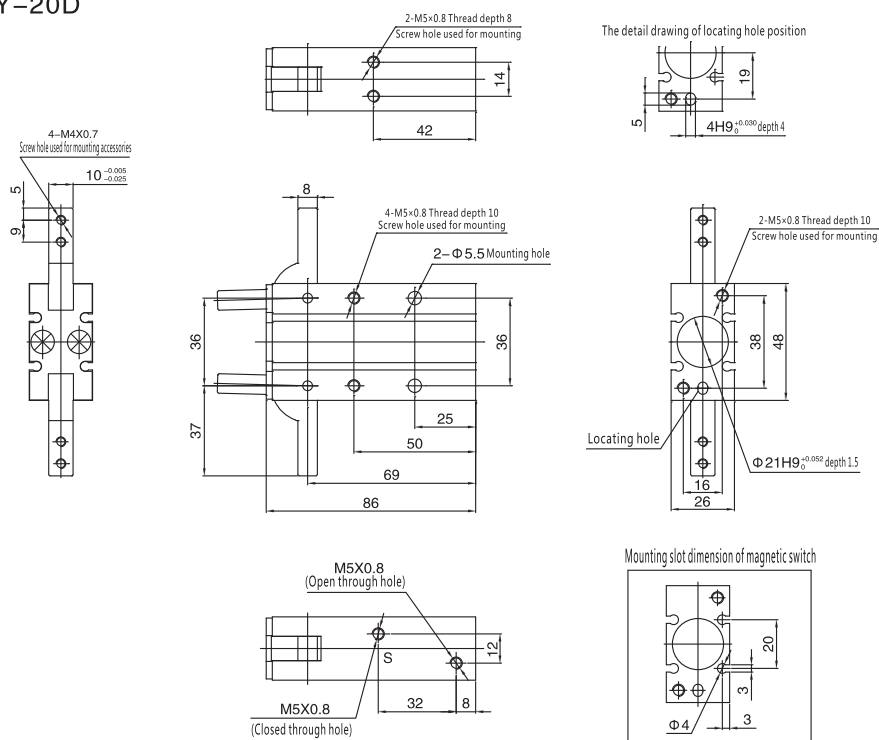
■ MHY-16D



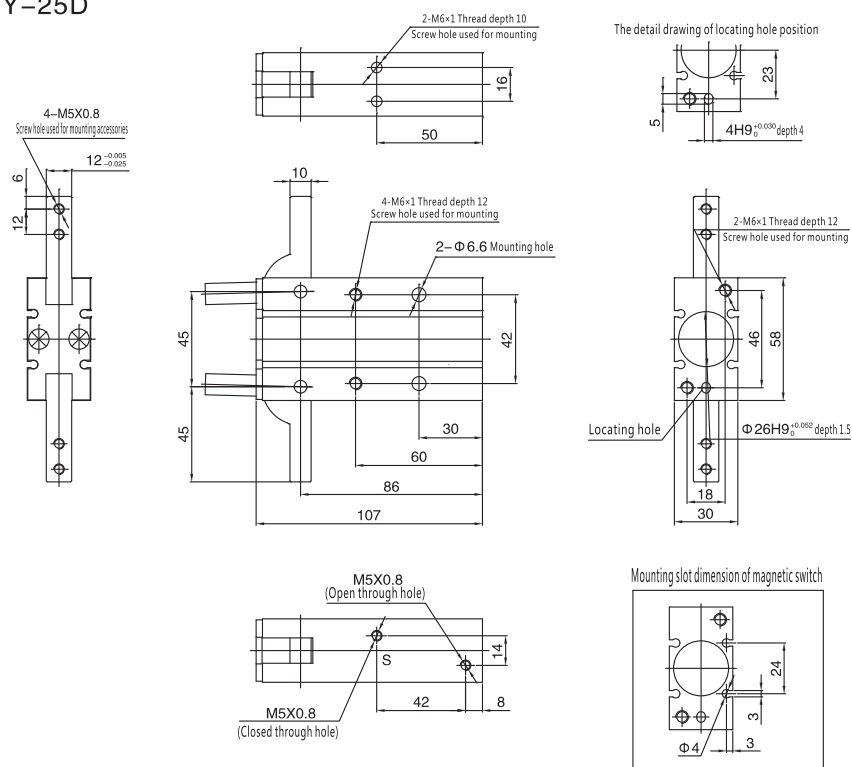
Pivot Open and Close Type/ Cam Type 180° Open and Close

■ Dimension(mm):

■ MHY-20D



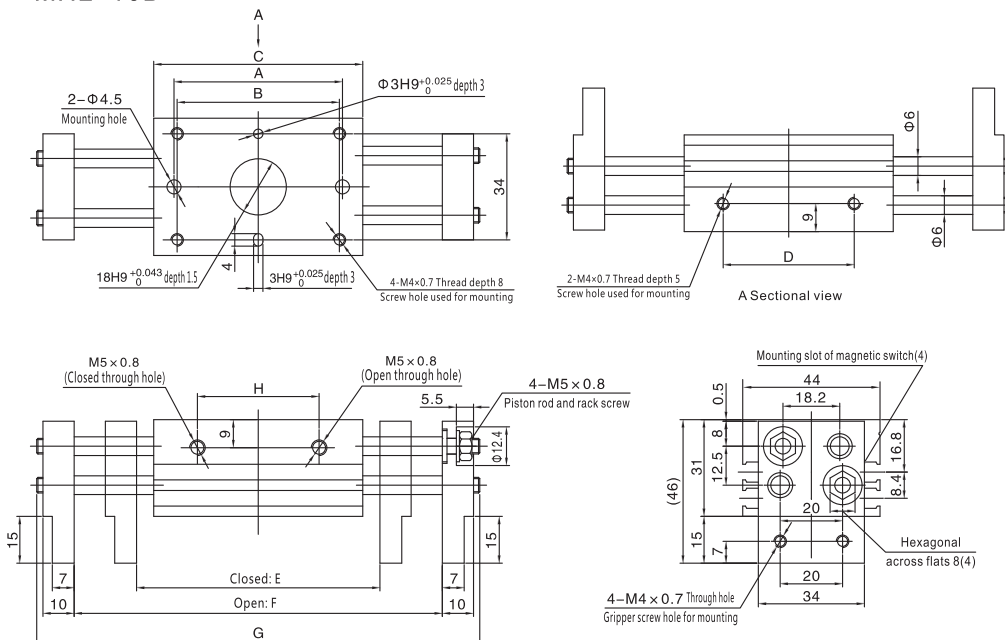
■ MHY-25D



Parallel Open and Close Type

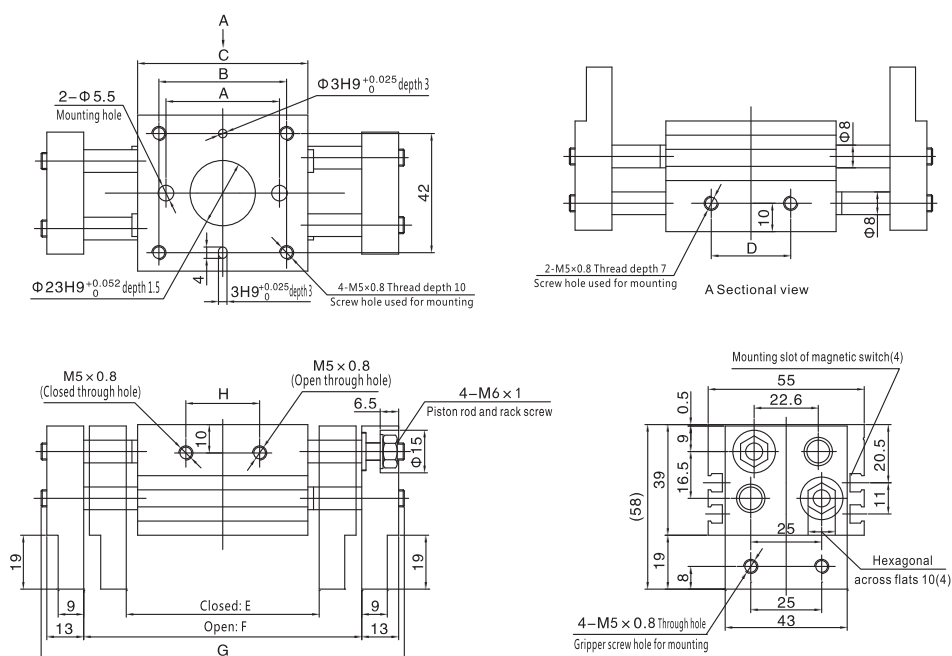
■ Dimension(mm):

■ MHL-10D



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

■ MHL-16D

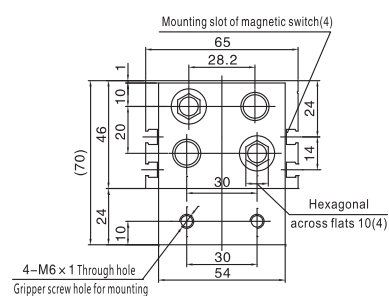
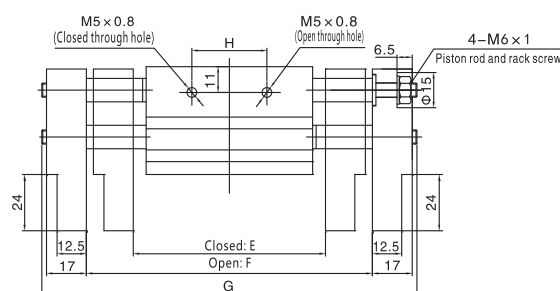
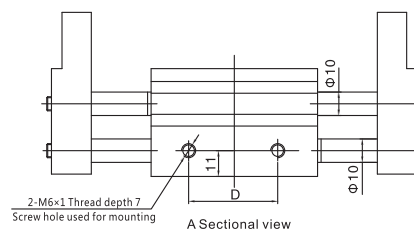
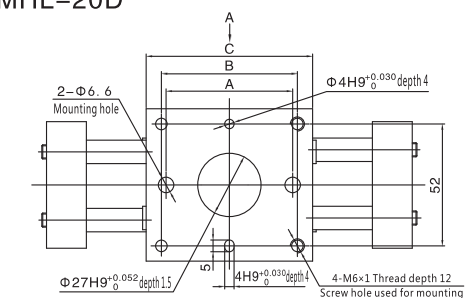


Type	A	B	C	D	E	F	G	H
MHL-16D	40	45	60	28	68	98	128	26
MHL-16D1	70	75	90	58	110	170	200	50
MHL-16D2	90	95	110	78	130	210	240	70

Parallel Open and Close Type

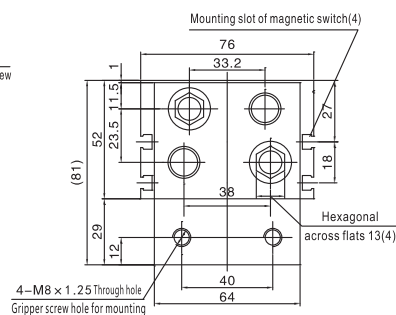
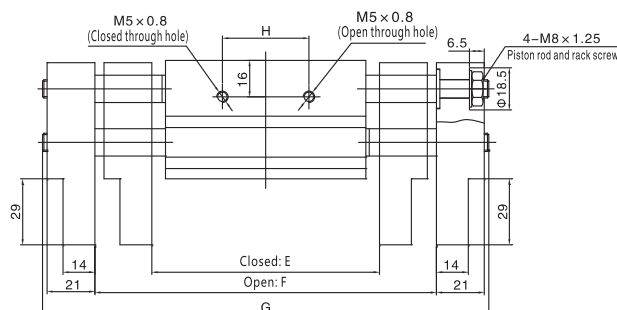
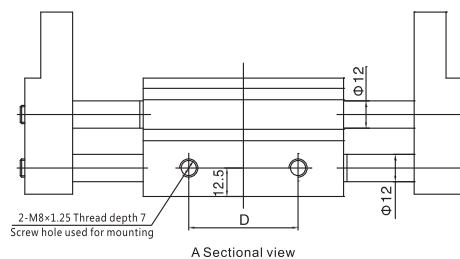
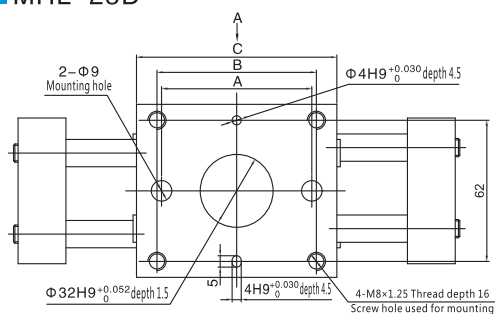
■ Dimension(mm):

■ MHL-20D



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

■ MHL-25D



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

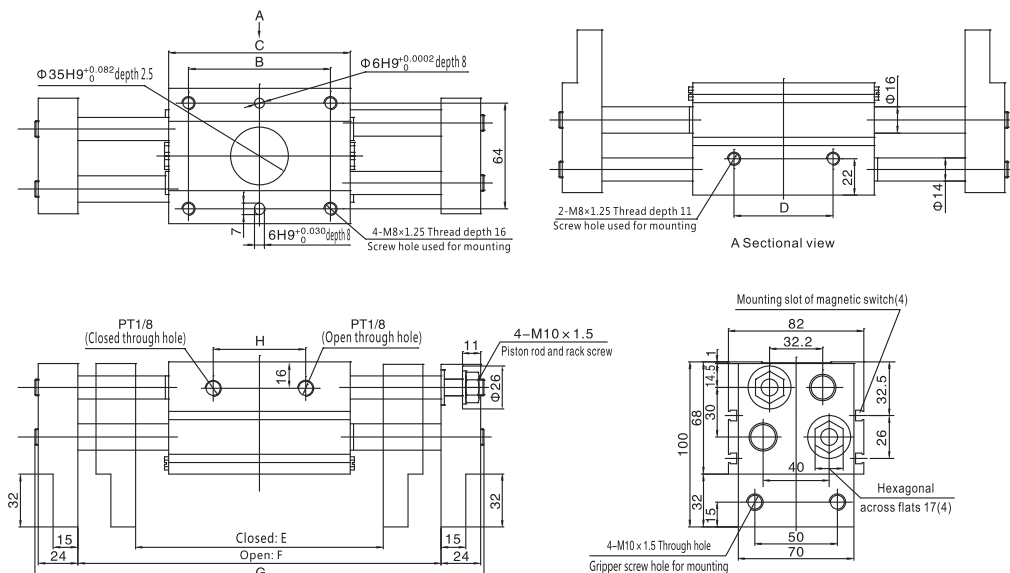


MHL

Parallel Open and Close Type

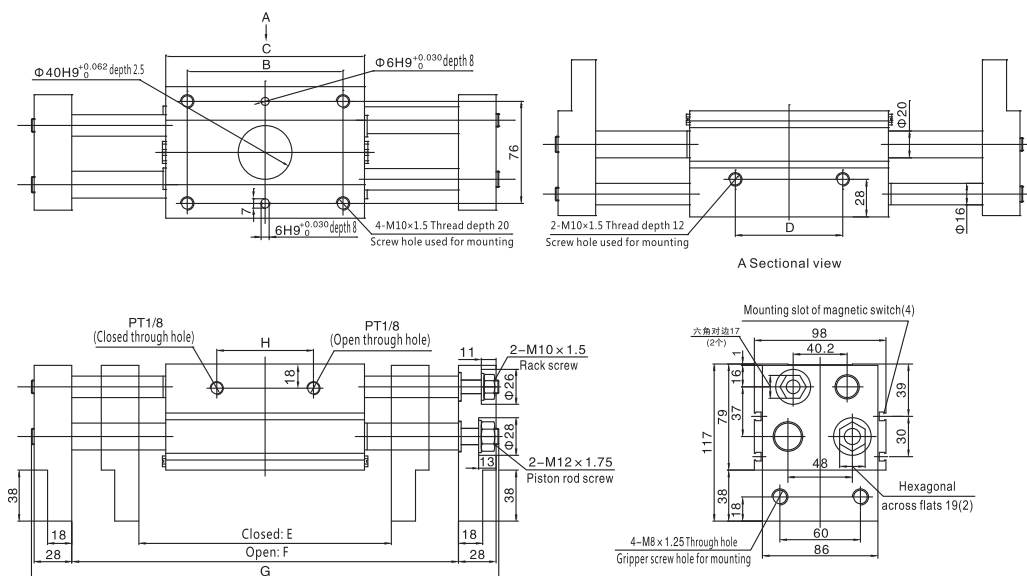
■ Dimension(mm):

■ MHL-32D□



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

■ MHL-40D□



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



MHL

Parallel Open and Close Type



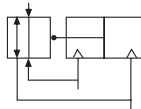
Specification:

Type	8	12	16	20
Fluid	Compressed air (No oil feeding)			
Acting way	Double acting			
Working pressure (Mpa)	0.15~0.7	0.1~0.7		
Ambient and fluid temperature(°C)	-10~60 (but not frozen)			
Repeated precision (mm)	±0.05			
Maximum frequency of use (c.p.m)	Short stroke, medium stroke: 120; long stroke: 60			
Clamping torque(Nm)	19	48	90	141
Open and closed stroke(both sides)(mm)	8 , 16 , 32	12 , 24 , 48	16 , 32 , 64	20 , 40 , 80

How to order:

MHF	12	D			M9B	
Type						
Blank: Standard Type						
Parallel Open and Close Type						
Bore						
Φ8: 8mm						
Φ12: 12mm						
Φ16: 16mm						
Φ20: 20mm						
Motion						
D: Double acting						
Stroke						
Blank: Short stroke						
1: Medium stroke						
2: Long stroke						
Connecting type						
Blank: Axial piping						
R: Side piping						
Magnetic switch model						
Blank: No magnetic switch						
Number of magnetic switches						
Blank: 2						
S: 1						

Symbol:



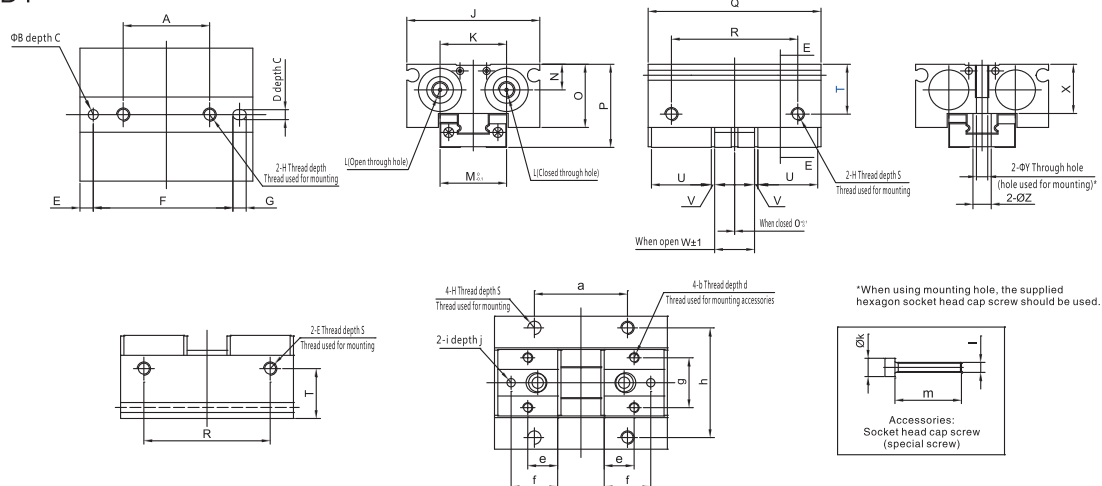
Product feature:

1. Compared with CKZ series, the height of MHF series is 1/3 decreased.
2. It saves space, reduces moment of force and recurvation, increases the precision.
3. Each opening and closing stroke of the cylinder bore has three types of long, middle and short.

Dimension(mm):

MHF-8D/8D1

MHF-12D

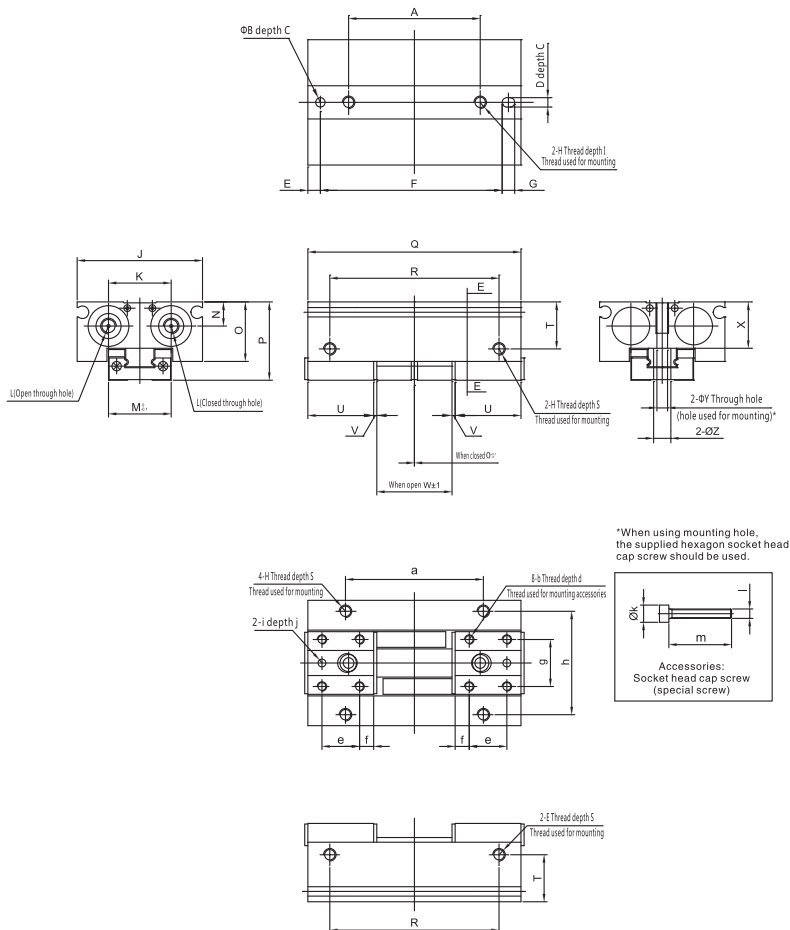


Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a	b	d	e	f	g	h	i	j	k	l	m
MHF-8D	16	2.5H9 ^{+0.025} ₀	2.5	2.5H9 ^{+0.025} ₀	3	28.3	3.4	M3×0.5	7	32	15.8	M3×0.5	17	5.9	14	19	36	22	4	11	12	0.8	8	11	2.6	4.5	14	M2.5×0.45	3	6	10	12	26	2H9 ^{+0.025} ₀	2	4	M2.5×0.45	15
MHF-8D1	28	2.5H9 ^{+0.025} ₀	2.5	2.5H9 ^{+0.025} ₀	3	40.3	3.4	M3×0.5	7	32	15.8	M3×0.5	17	5.9	14	19	48	34	4	11	14	0.8	16	11	2.6	4.5	26	M2.5×0.45	3	7	11	12	26	2H9 ^{+0.025} ₀	2	4	M2.5×0.45	15
MHF-8D2	26	3H9 ^{+0.025} ₀	3	3H9 ^{+0.025} ₀	4	42	4	M4×0.7	10	40	20	M5×0.8	20	7.7	19	25	52	38	5	15	18	1	12	14.8	3.4	5.5	28	M3×0.5	4	9	14	15	33	2.5H9 ^{+0.025} ₀	2.5	5	M3×0.5	20

Parallel Open and Close Type

■ Dimension(mm):

■ MHF-12D1、16D、16D1、20D、20D1、

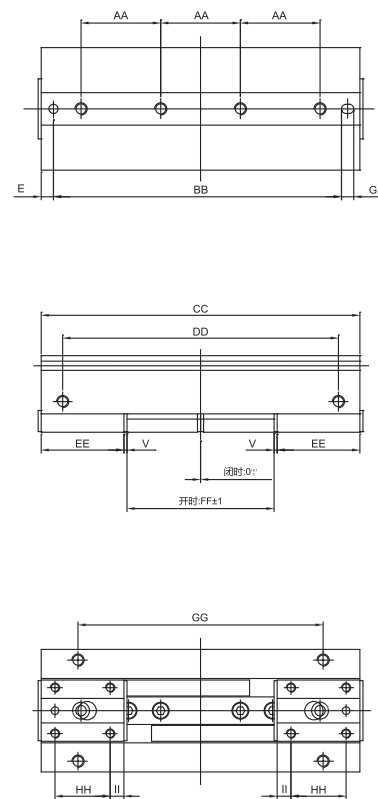


Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
MHF-12D1	42	3H9 ^{+0.030} ₀	3	3H9 ^{+0.025} ₀	4	58	4	M4×0.7	10	40	20	M5×0.8	20	7.7	19	25	68	54	5	15	21	1
MHF-16D	38	4H9 ^{+0.030} ₀	3	4H9 ^{+0.030} ₀	6	57.5	5	M5×0.8	12	50	26	M5×0.8	27	10.6	24	33	72	52	5.5	20	25	1.2
MHF-16D1	60	4H9 ^{+0.030} ₀	3	4H9 ^{+0.030} ₀	3	79.5	5	M5×0.8	12	50	26	M5×0.8	27	10.6	24	33	94	74	5.5	20	29	1.2
MHF-20D	38	5H9 ^{+0.030} ₀	4	5H9 ^{+0.030} ₀	4	71	6	M6×1	15	62	33	M5×0.8	32	13	30	41	86	56	6	25	31	1.2
MHF-20D1	66	5H9 ^{+0.030} ₀	4	5H9 ^{+0.030} ₀	6	99	6	M6×1	15	62	33	M5×0.8	32	13	30	41	114	84	6	25	36	1.2

Type	W	X	Y	Z	a	b	d	e	f	g	h	l	j	k	l	m
MHF-12D1	24	14.8	3.4	5.5	44	M3×0.5	4	12	4.5	15	33	2.5H9 ^{+0.025} ₀	2.5	Φ5	M3×0.5	20
MHF-16D	16	20	4.3	7.5	36	M4×0.7	4	15	5	20	43	3H9 ^{+0.025} ₀	3	—	—	—
MHF-16D1	32	20	4.3	7.5	58	M4×0.7	4	18	5.5	20	43	3H9 ^{+0.025} ₀	3	—	—	—
MHF-20D	20	25	5.2	10	40	M4×0.7	4	16	7.5	24	52	3H9 ^{+0.025} ₀	3	—	—	—
MHF-20D1	40	25	5.2	10	68	M4×0.7	4	20	8	24	52	3H9 ^{+0.025} ₀	3	—	—	—

■ MHF-8D2、12D2

■ MHF-16D2、20D2



Type	AA	BB	CC	DD	EE	FF	GG	HH	II
MHF-8D	17	64.3	72	58	18	32	50	8	5
MHF-12D2	26	94	104	90	27	48	80	18	4.5
MHF-16D2	36	127.5	142	122	37	64	106	26	5.5
MHF-20D2	42	159	174	144	46	80	128	30	8



MHF

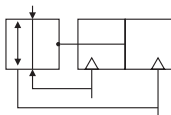
Parallel Open and Close Type



Specification:

Type		16	20	25	32	40	50	63	80	100	125
Fluid		Compressed air									
Acting way		Double acting									
Working pressure(Mpa)		0.2~0.6			0.1~0.6						
Ambient and fluid temperature(°C)		-10~60									
Repeated precision (mm)		±0.01									
Maximum frequency of use (c.p.m)		120			60				30		
Oil feeding		Not required									
Clamping torque(Nm)	Outside diameter clamping	14	25	42	74	118	187	335	500	750	1270
	Internal diameter clamping	16	28	47	82	130	204	359	525	780	1320
Port size		M3×0.5	M5×0.8						1/8	1/4	3/8
Magnetic switch		Built-in magnet ring type									

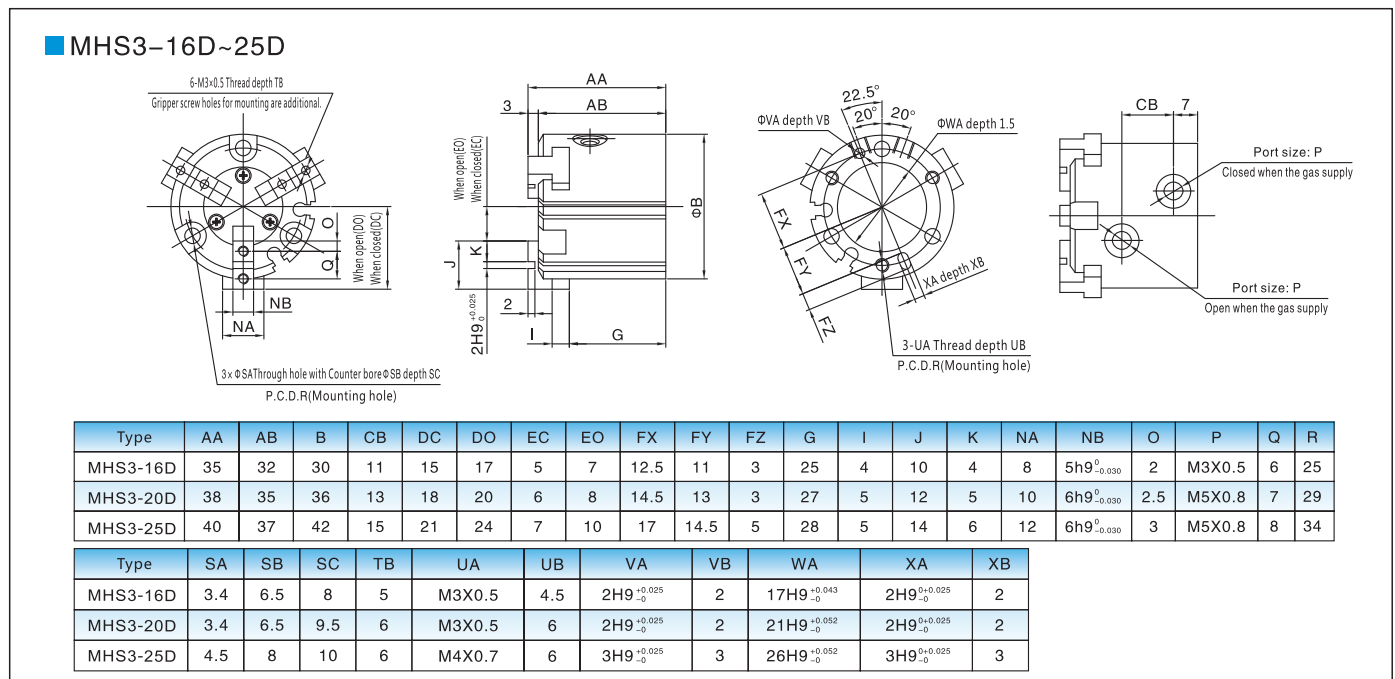
Symbol:



Product feature:

- 1.The interior adopts wedge structure to get larger clamping force.
- 2.The front cover of the piston with fenders can reduce metallic sound when the clamping jaw releases.
- 3.The bottom of the body is equipped with dowel holes to improve installation accuracy and repeating disassembling positioning consistency.
- 4.With high clamping repeating precision, it is easy for automation equipment to install and use.
- 5.Various series and standard pneumatic finger types are optional for customers to clamp different kinds of working pieces.

Dimension(mm):



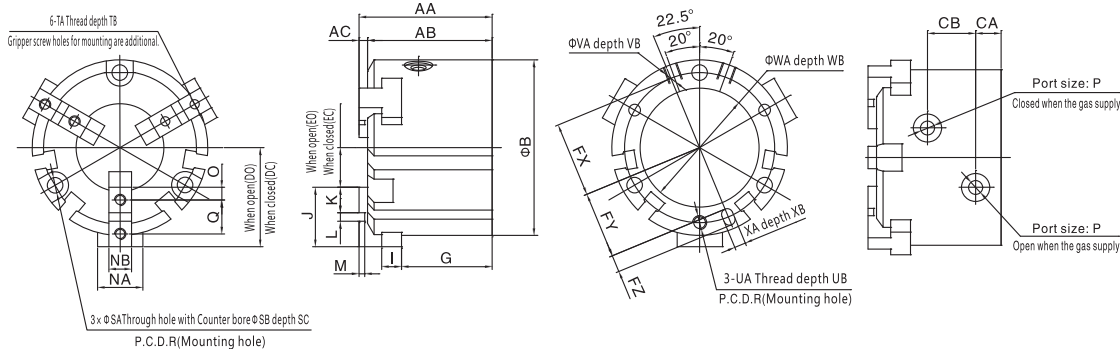
MHS□3 Series Three Jaw Cylindrical Air Gripper



Parallel Open and Close Type

Dimension(mm):

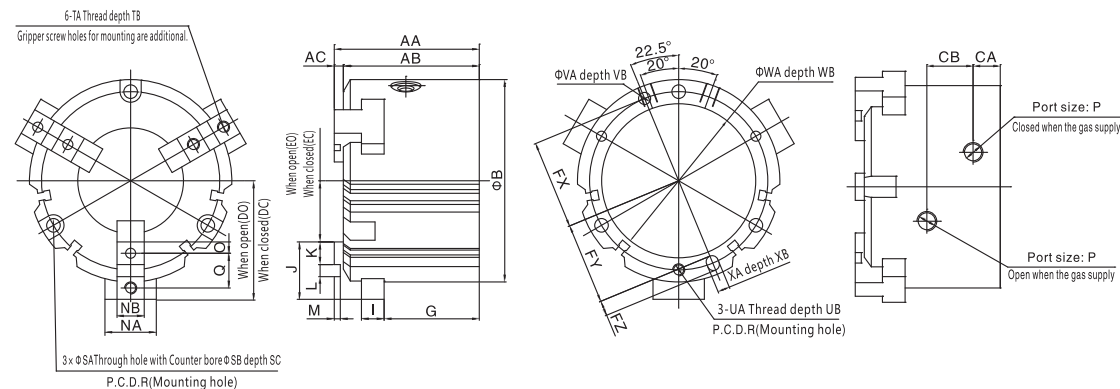
MHS3-32D~80D



Type	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L	M	NA	NB
MHS3-32D	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 ^{+0.036} ₀
MHS3-40D	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 ^{+0.036} ₀
MHS3-50D	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 ^{+0.036} ₀
MHS3-63D	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 ^{+0.043} ₀
MHS3-80D	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 ^{+0.043} ₀

Type	O	P	Q	R	SA	SB	SC	TA	TB	UA	UB	VA	VB	WA	WB	XA	XB	YC
MHS3-32D	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
MHS3-40D	4.5	M5×0.8	12	53	5.5	9.5	9	M4×0.7	8	M5×0.8	7.5	4H9 ^{+0.030} ₀	4	42H9 ^{+0.062} ₀	2	4H9 ^{+0.030} ₀	4	8
MHS3-50D	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
MHS3-63D	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
MHS3-80D	6	PT1/8	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

MHS3-100D~125D



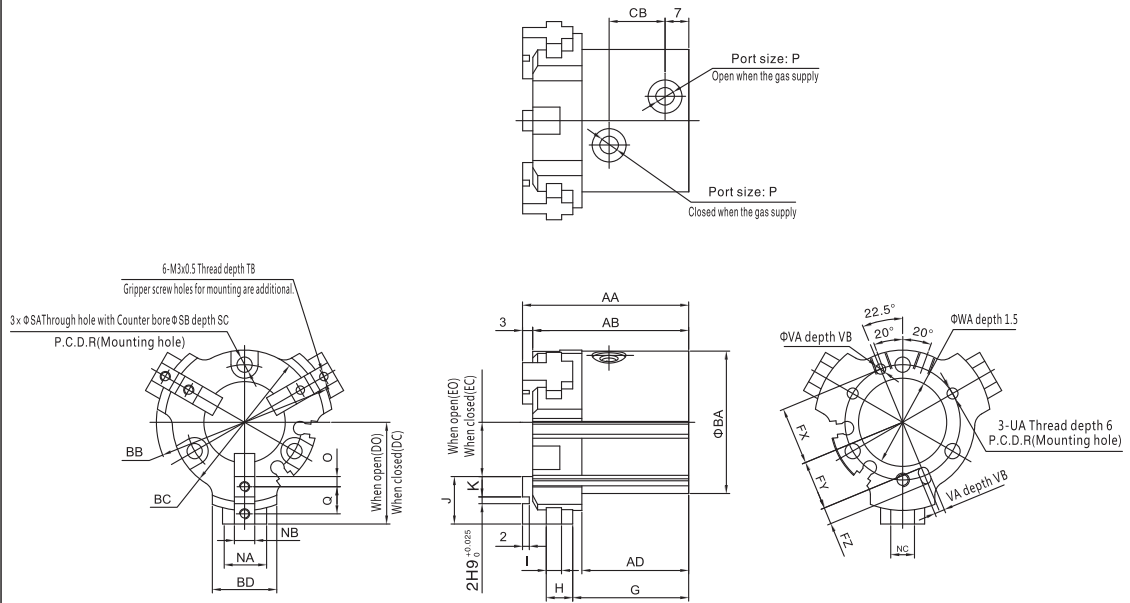
Type	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L	M	NA	NB
MHS3-100D	96	90	6	134	18	30.6	66	78	28	40	59	54	10	63	15	38	15	8H9 ^{+0.036} ₀	4	34	18h9 ^{+0.043} ₀
MHS3-125D	122	114	8	166	23.5	38	82	98	30	46	74	68	12	84	18	52	21	10H9 ^{+0.036} ₀	6	40	22h9 ^{+0.052} ₀

Type	O	P	Q	R	SA	SB	SC	TA	TB	UA	UB	VA	VB	WA	WB	XA	XB
MHS3-100D	7.5	PT1/4	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
MHS3-125D	10.5	PT3/8	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

Parallel Open and Close Type

■ Dimension(mm):

■ MHSL3-16D~25D



Type	AA	AB	AD	BA	BB	BC	BD	CB	DO	DC	EO	EC	FX	FY	FZ	G	H	I	J	K	NA
MHSL3-16D	43.5	40.5	28	30	40	30.6	12	14	23.5	18.5	13.5	8.5	12.5	11	3	30.5	7	4	10	4	8
MHSL3-20D	46	43	29	36	45	36.6	16	14	26	21	14	9	14.5	13	3	32	8	4	12	5	11
MHSL3-25D	49	46	31.5	42	52	42.6	19	16.5	30	24	16	10	17	14.5	5	34.2	7.8	4.5	14	6	13

Type	NB	NC	O	P	Q	R	SA	SB	SC	TB	UA	VA	VB	WA	XA	XB
MHSL3-16D	5h9 ⁰ _{-0.030}	5	2	M3×0.5	6	25	3.4	6.5	5	5	M3×0.5	2H9 ^{+0.025} ₀	2	17H9 ^{+0.043} ₀	2H9 ^{+0.025} ₀	2
MHSL3-20D	6h9 ⁰ _{-0.030}	7	2.5	M5×0.8	7	29	3.4	6.5	8	6	M3×0.5	2H9 ^{+0.025} ₀	2	21H9 ^{+0.052} ₀	2H9 ^{+0.025} ₀	2
MHSL3-25D	6h9 ⁰ _{-0.030}	7	3	M5×0.8	8	34	4.5	8	8	6	M4×0.7	3H9 ^{+0.025} ₀	3	26H9 ^{+0.052} ₀	3H9 ^{+0.025} ₀	3



MHS□3

MHS2 Series Two Jaw Cylindrical Air Gripper



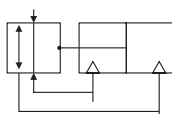
Parallel Open and Close Type



Specification:

Type	16	20	25	32	40	50	63	
Fluid	Compressed air							
Acting way	Double acting							
Working pressure(Mpa)	0.2~0.6			0.1~0.6				
Ambient and fluid temperature(°C)	-10~60							
Repeated precision (mm)	±0.01							
Maximum frequency of use (c.p.m)	120			60				
Oil feeding								
Clamping torque(Nm)	Outside diameter clamping	21	37	63	111	177	280	502
	Internal diameter clamping	23	42	71	123	195	306	537
Port size	M3×0.5	M5×0.8						
Magnetic switch	Built-in magnet ring type							

Symbol:



Product feature:

- 1.The interior adopts wedge structure to get larger clamping force.
- 2.The front cover of the piston with fenders can reduce metallic sound when the clamping jaw releases.
- 3.The bottom of the body is equipped with dowel holes to improve installation accuracy and repeating disassembling positioning consistency.
- 4.With high clamping repeating precision, it is easy for automation equipment to install and use.
- 5.Various series and standard pneumatic finger types are optional for customers to clamp different kinds of working pieces.

How to order:

MHS2 20 D M9N

Type: Blank: Standard Type
Parallel Open and Close Type

Bore: Φ16: 16mm
Φ20: 20mm
Φ25: 25mm
Φ32: 32mm
Φ40: 40mm
Φ50: 50mm
Φ63: 63mm

Acting way: D: Double acting

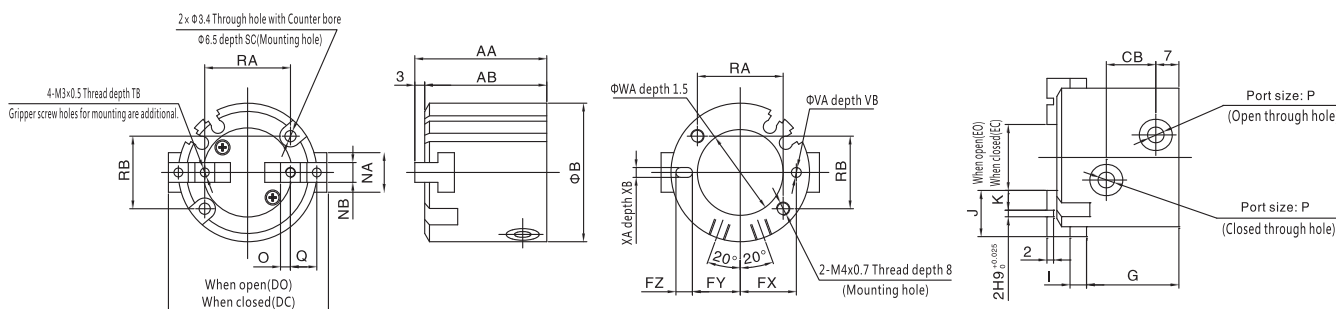
Number of magnetic switches: Blank: 2
S: 1

Magnetic switch model: Blank: No magnetic switch

Cylinder color: Blank: Hard oxygen natural color
A: Hard oxygen black
B: Hard oxygen gold
C: Hard oxygen pink
D: Please contact the sales person for special colors.

Dimension(mm):

MHS2-16~25D



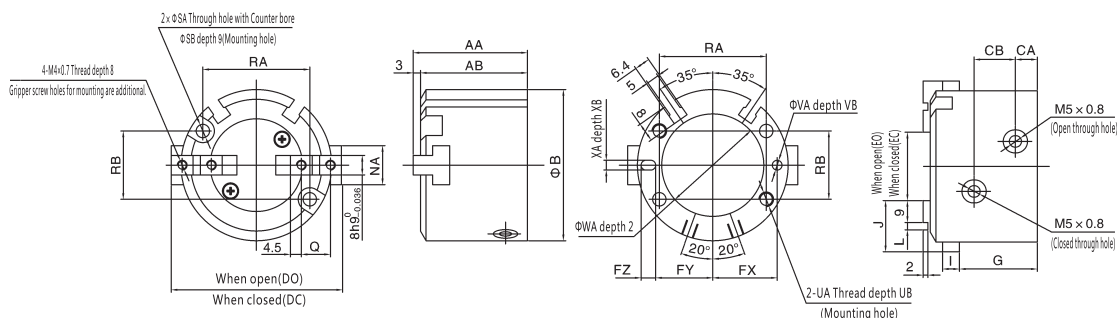
Type	A4	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	H	NA	NB	O	P	Q
MHS2-16D	35	32	30	11	30	34	10	14	12.5	11	3	25	4	10	4	8	5h9 ⁰ _{-0.030}	2	M3X0.5	6
MHS2-20D	38	35	36	13	36	40	12	16	14.5	13	3	27	5	12	5	10	6h9 ⁰ _{-0.030}	2.5	M5X0.8	7
MHS2-25D	40	37	42	15	42	48	14	20	17	14.5	5	28	5	14	6	12	6h9 ⁰ _{-0.030}	3	M5X0.8	8

Type	RA	RB	SC	TB	VA	VB	WA	X4	XB
MHS2-16D	18	16	8	5	2H9 ⁰ _{-0.025}	2	17H9 ⁰ _{-0.043}	2H9 ⁰ _{-0.025}	2
MHS2-20D	24	18	9.5	6	2H9 ⁰ _{-0.025}	2	21H9 ⁰ _{-0.052}	2H9 ⁰ _{-0.025}	2
MHS2-25D	26	22	10	6	3H9 ⁰ _{-0.025}	3	26H9 ⁰ _{-0.052}	3H9 ⁰ _{-0.025}	3

Parallel Open and Close Type

Dimension(mm):

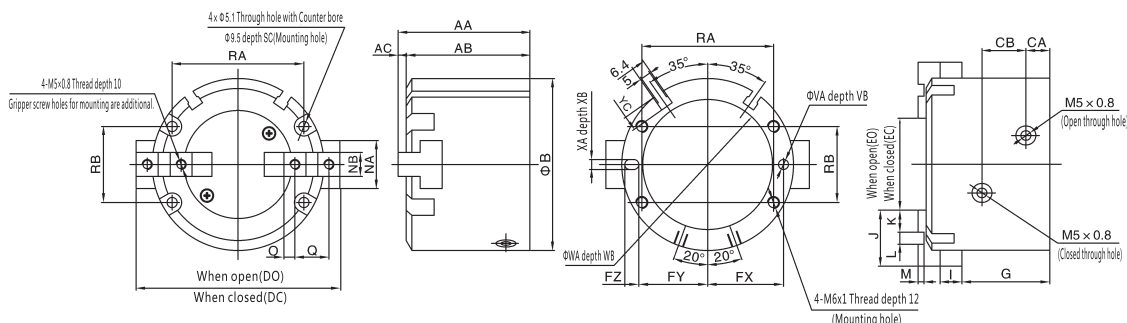
MHS2-32D~40D



Type	AA	AB	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	L
MHS2-32D	44	41	56	8	16	56	64	16	24	23	20.5	5	30.5	6	20	2H9 ^{+0.025} ₋₀
MHS2-40D	47	44	62	9	17	62	70	20	28	26.5	23.5	6	32	7	21	3H9 ^{+0.025} ₋₀

Type	NA	Q	RA	RB	SA	SB	UA	UB	VA	VB	WA	XA	XB
MHS2-32D	14	11	38	25	4.5	8	M5x0.8	10	3H9 ^{+0.025} ₋₀	3	34H9 ^{+0.025} ₋₀	3H9 ^{+0.025} ₋₀	3
MHS2-40D	16	12	44	28	5.5	9.5	M6x1	12	4H9 ^{+0.025} ₋₀	4	42H9 ^{+0.025} ₋₀	4H9 ^{+0.025} ₋₀	4

MHS2-50D~63D



Type	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L
MHS2-50D	55	52	3	70	9	20	70	82	22	34	31	28	6	37.5	9	24	10	4H9 ^{+0.030} ₋₀
MHS2-63D	66	62	4	86	12	22	86	102	30	46	38	34.5	7	44	11	28	11	6H9 ^{+0.030} ₋₀

Type	M	NA	NB	O	Q	RA	RB	SC	VA	VB	WA	WB	XA	XB	YC
MHS2-50D	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
MHS2-63D	3	24	12H9 ⁰ _{-0.036}	5.5	17	66	38	14	5H9 ^{+0.030} ₋₀	5	65H9 ^{+0.074} ₋₀	2.5	5H9 ^{+0.030} ₋₀	5	7.5

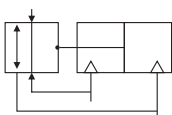
Parallel Open and Close Type



Specification:

Type	16	20	25	32	40	50	63	
Fluid	Compressed air							
Acting way	Double acting							
Working pressure(Mpa)	0.2~0.6			0.1~0.6				
Ambient and fluid temperature(°C)	-10~60							
Repeated precision (mm)	±0.01							
Maximum frequency of use (c.p.m)	120			60				
Oil feeding								
Clamping torque(Nm)	Outside diameter clamping	10	19	31	55	88	140	251
	Internal diameter clamping	12	21	35	61	97	153	268
Port size	M3×0.5	M5×0.8						
Magnetic switch	Built-in magnet ring type							

Symbol:



Product feature:

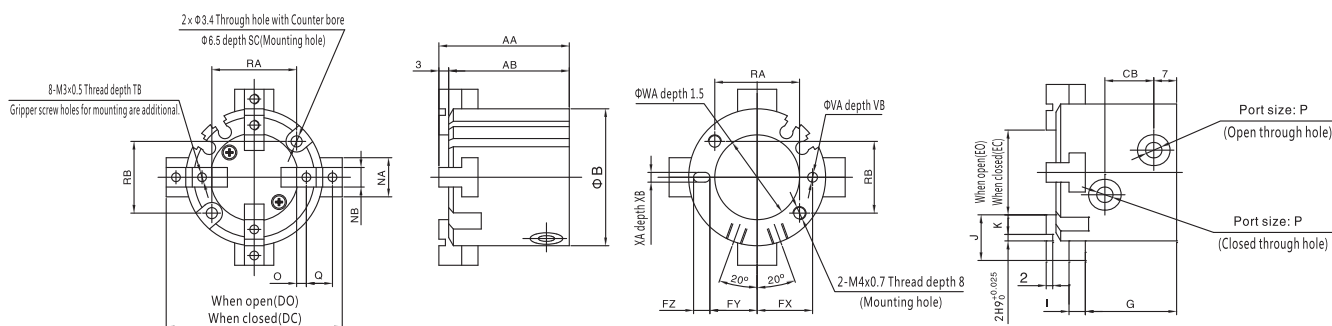
1. The interior adopts wedge structure to get larger clamping force.
2. The front cover of the piston with fenders can reduce metallic sound when the clamping jaw releases.
3. The bottom of the body is equipped with dowel holes to improve installation accuracy and repeating disassembling positioning consistency.
4. With high clamping repeating precision, it is easy for automation equipment to install and use.
5. Various series and standard pneumatic finger types are optional for customers to clamp different kinds of working pieces.

How to order:

MHS4	20	D		M9N	
Type	Bore	Acting way	Blank: Standard Type Parallel Open and Close Type	Number of magnetic switches Blank: 2 S: 1	Magnetic switch model Blank: No magnetic switch
	Φ16: 16mm Φ20: 20mm Φ25: 25mm Φ32: 32mm Φ40: 40mm Φ50: 50mm Φ63: 63mm	D: Double acting		Cylinder color Blank: Hard oxygen natural color A: Hard oxygen black B: Hard oxygen gold C: Hard oxygen pink D: Please contact the sales person for special colors.	

Dimension(mm):

MHS4-16~25D



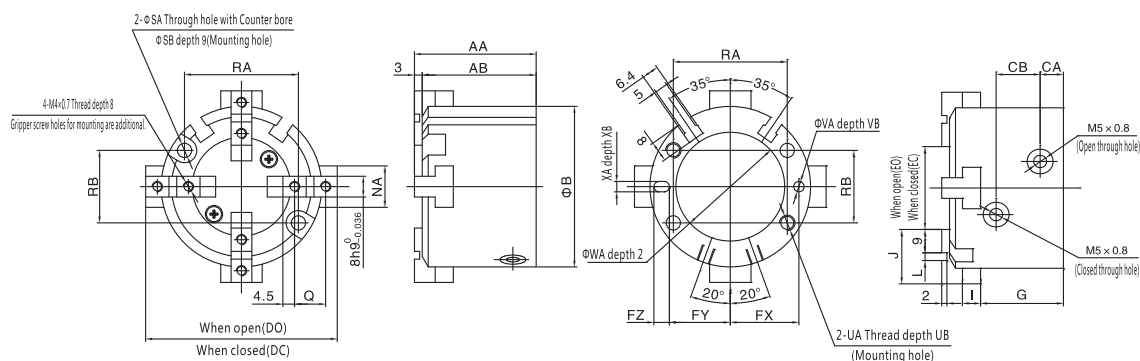
Type	AA	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	O	P	Q
MHS4-16D	35	32	30	11	33	37	13	17	12.5	11	3	25	4	10	4	8	5h9 _{-0.030} ⁰	2	M3x0.5	6
MHS4-20D	38	35	36	13	39	43	15	19	14.5	13	3	27	5	12	5	10	6h9 _{-0.030} ⁰	2.5	M5x0.8	7
MHS4-25D	40	37	42	15	48	54	20	26	17	14.5	5	28	5	14	6	12	6h9 _{-0.030} ⁰	3	M5x0.8	8

Type	RA	RB	SC	TB	VA	VB	WA	XA	XB
MHS4-16D	18	16	8	5	2H9 ₀ ^{+0.025}	2	17H9 ₀ ^{+0.043}	2H9 ₀ ^{+0.025}	2
MHS4-20D	24	18	9.5	6	2H9 ₀ ^{+0.025}	2	21H9 ₀ ^{+0.052}	2H9 ₀ ^{+0.025}	2
MHS4-25D	26	22	10	6	3H9 ₀ ^{+0.025}	3	26H9 ₀ ^{+0.052}	3H9 ₀ ^{+0.025}	3

Parallel Open and Close Type

■ Dimension(mm):

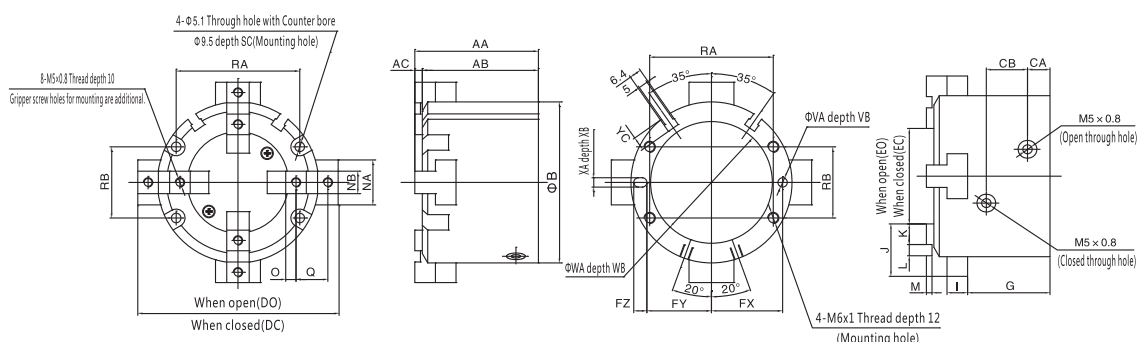
■ MHS4-32~40D



Type	AA	AB	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	L
MHS4-32D	44	41	56	8	16	60	68	20	28	23	20.5	5	30.5	6	20	2H9 ^{+0.025} ₀
MHS4-40D	47	44	62	9	17	66	74	24	32	26.5	23.5	6	32	7	21	3H9 ^{+0.025} ₀

Type	NA	Q	RA	RB	SA	SB	UA	UB	VA	VB	WA	XA	XB
MHS4-32D	14	11	38	25	4.5	8	M5×0.8	10	3H9 ^{+0.025} ₀	3	34H9 ^{+0.062} ₀	3H9 ^{+0.025} ₀	3
MHS4-40D	16	12	44	28	5.5	9.5	M6×1	12	4H9 ^{+0.030} ₀	4	42H9 ^{+0.062} ₀	4H9 ^{+0.030} ₀	4

■ MHS4-50~63D



Type	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L	M
MHS4-50D	55	52	3	70	9	20	74	86	26	38	31	28	6	37.5	9	24	10	4H9 ^{+0.030} ₀	2
MHS4-63D	66	62	4	86	12	22	91	107	35	51	38	34.5	7	44	11	28	11	6H9 ^{+0.030} ₀	3

Type	NA	NB	O	Q	RA	RB	SC	VA	VB	WA	WB	XA	XB	YC
MHS4-50D	18	10h9	5	14	52	34	12	4H9 ^{+0.030} ₀	4	52H9 ^{+0.074} ₀	2	4H9 ^{+0.030} ₀	4	7
MHS4-63D	24	12h9	5.5	17	66	38	14	5H9 ^{+0.030} ₀	5	65H9 ^{+0.074} ₀	2.5	5H9 ^{+0.030} ₀	5	7.5



MHS4

Clamp Modules Cylinder



■ Specification:

Type	EV-20/75-5	EV-20/120-5
Fluid	Compressed air	
Structure Feature	Diaphragm cylinder	
Working pressure (Mpa)	0.5	
Ambient temperature (°C)	-20~40	

Note: Various specifications can be customized.

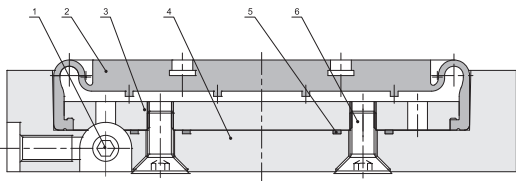
■ Product feature:

EV series without piston rod, with diaphragm and a significantly shorter stroke, clamps workpiece with rough surfac quickly ,suitable for all types of attaching & detaching tools. Flat structure and strong clamp force,especially for slender workpiece. Only work with close fitting the workpiece and with reset function for high speed movement,due to no cushioning.

■ Inner structure drawing:

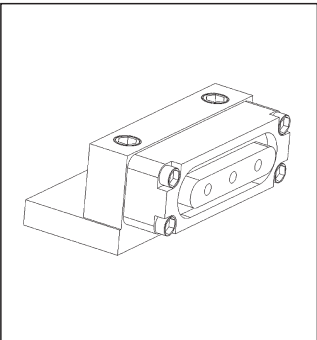


EV

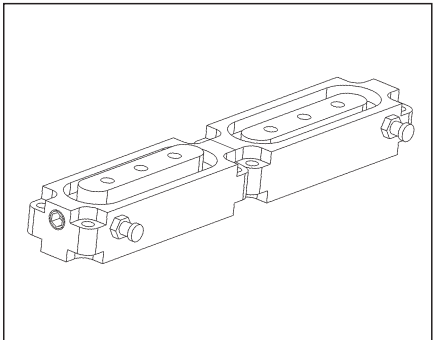


Number	Name	Number	Name	Number	Name
1	Hexagon socket set screws	3	Platen	5	O-ring
2	Membrane	4	Cylinder barrel	6	Hexagon socket countersunk head screw

■ Accessories mounting type:

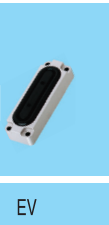
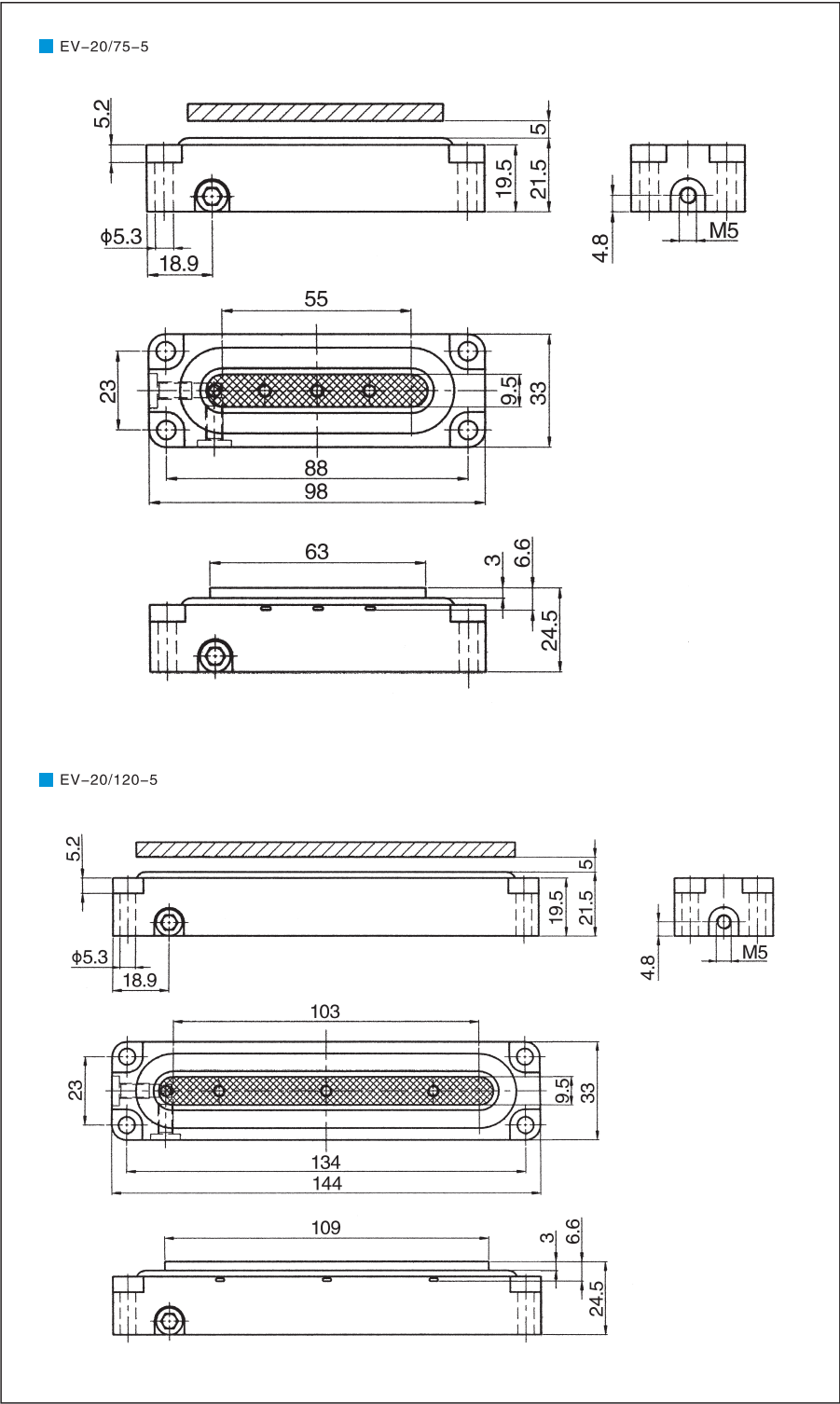


■ Mounting type:



Clamp Modules Cylinder

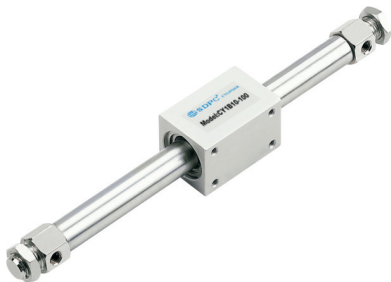
■ Dimension(mm):



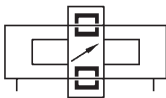
CY3B Series Cylinder



Magnetic Coupling Rodless Cylinder



Symbol:



Product feature:

- 1.Magnetic coupling rodless cylinder: No mechanical connection between piston and slide block with excellent sealing performance.
- 2.The action of the piston is transmitted to the external slide blocks through magnetic coupling force without piston rod. The installation space is smaller than ordinary cylinder while the maximum stroke is bigger than ordinary cylinder.
- 3.Both ends of the cylinder are equipped with adjustable buffer and fixed buffer device. So the reversing action is steady without impact to avoid mechanical damage.
- 4.The piston chamber separates from slide block to prevent dust and dirt from getting into the system and prolong the service life of the cylinder.

Specification:

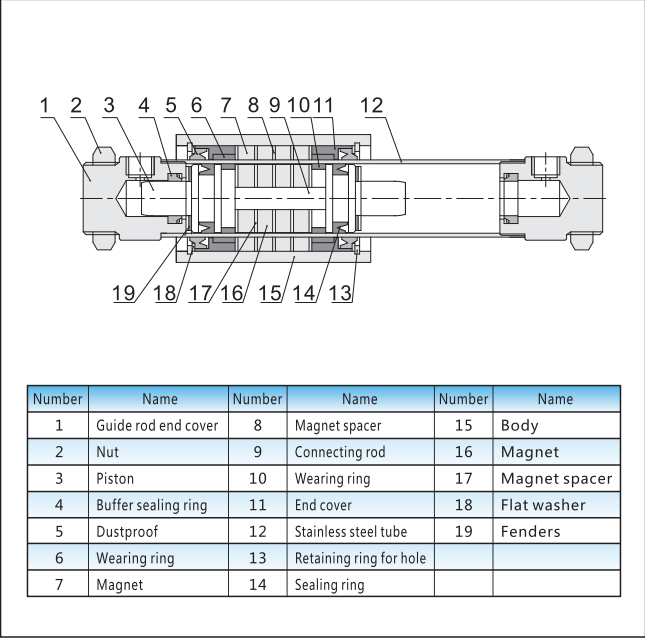
Type	16	20	25	32	40
Motion	Double acting				
Fluid	Compressed air				
Working pressure (MPa)	0.15~0.7				
Warrant endure-pressure (MPa)	1				
Ambient temperature range (°C)	-10~60				
Speed range (mm/s)	50~400				
Cushion type	Adjustable cushion+fixed bumper				
Port size	M5×0.8	1/8"			1/4"
Safety Retention Force (N)	140	200	360	550	850

How to order:

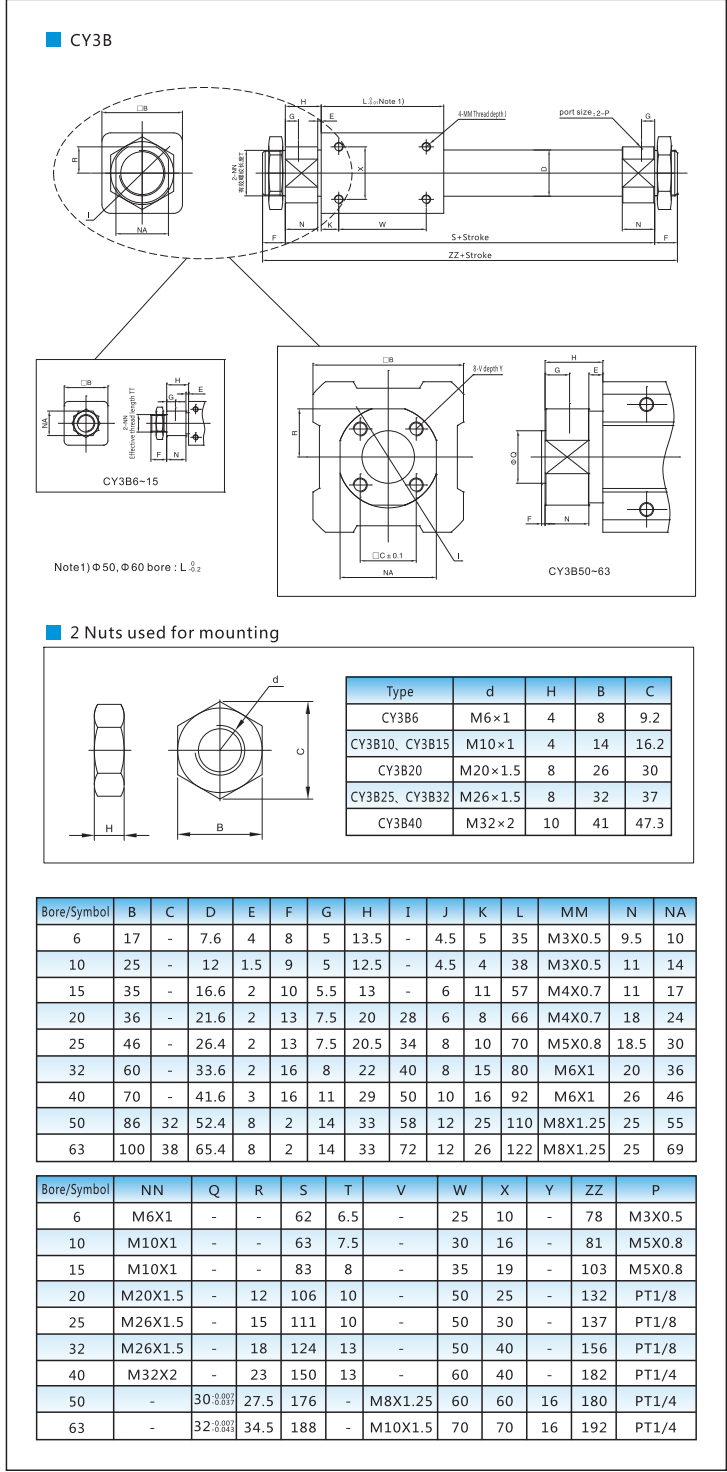
CY3B R 20 × 200 LB					
Specification	CY3B: Magnetic Coupling Rodless Cylinder				
	Installation type				
	Blank: Standard type P: Size specification P type F: Size specification F type				
Mounting type	Blank: No mouting accessories LB: Foot fixed type FA: Flange fixed type				
	Stroke				
	Bore				
	Φ6	Φ32			
	Φ10	Φ40			
	Φ15	Φ50			
	Φ20	Φ63			
	Φ25				

Magnetic Coupling Rodless Cylinder

Inner structure drawing:



Dimension(mm):



CY3B

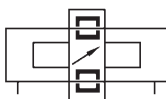
Magnetic Coupling Rodless Cylinder(Guiding Rod Type)



■ Specification:

Type	15	20	25	32	40
Motion	Double acting				
Fluid	Compressed air				
Working pressure (MPa)	0.18~0.7				
Warrant endure-pressure (MPa)	1				
Ambient temperature range (°C)	-10~60				
Speed range (mm/s)	50~400				
Cushion type	Adjustable buffer + oil buffer				
Port size	M5×0.8	1/8"		1/4"	
Safety Retention Force (N)	140	200	360	550	850

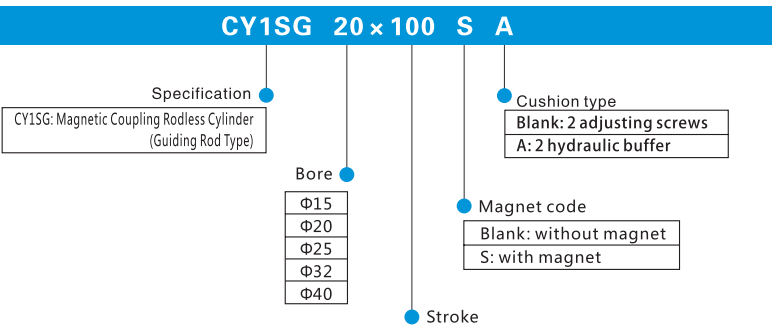
■ Symbol:



■ Product feature:

- 1.Magnetic coupling rodless cylinder: No mechanical connection between piston and slide block with excellent sealing performance.
- 2.The action of the piston is transmitted to the external slide blocks through magnetic coupling force without piston rod. The installation space is smaller than ordinary cylinder while the maximum stroke is bigger than ordinary cylinder.
- 3.Both ends of the cylinder are equipped with adjustable buffer and fixed buffer device. So the reversing action is steady without impact to avoid mechanical damage.
- 4.The piston chamber separates from slide block to prevent dust and dirt from getting into the system and prolong the service life of the cylinder.
- 5.With double guiding rod structure and high guiding precision, it can bear a certain lateral or eccentric load.

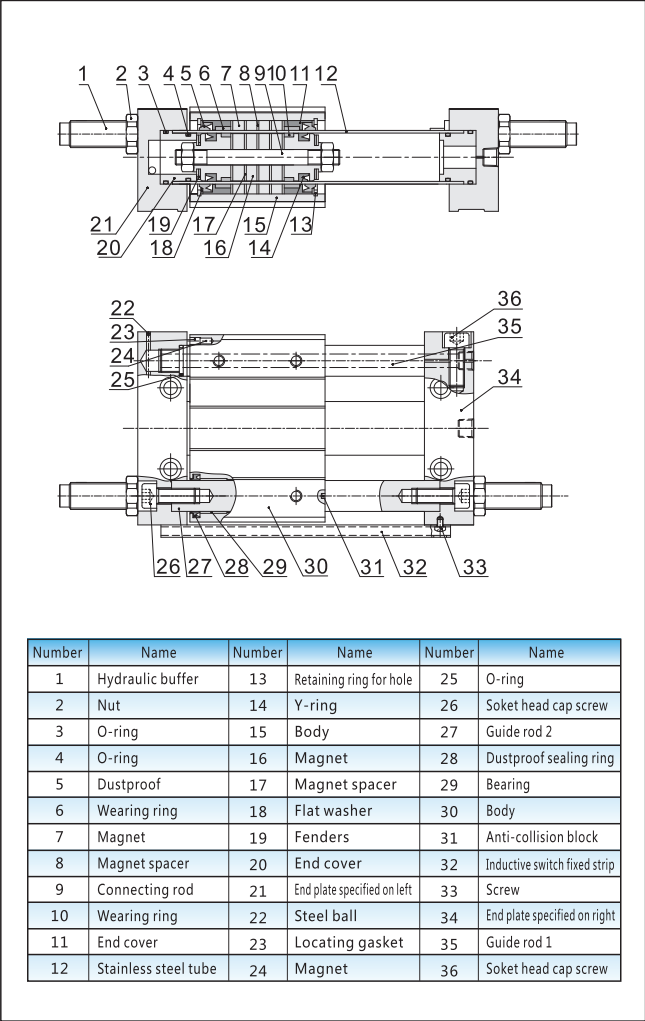
■ How to order:



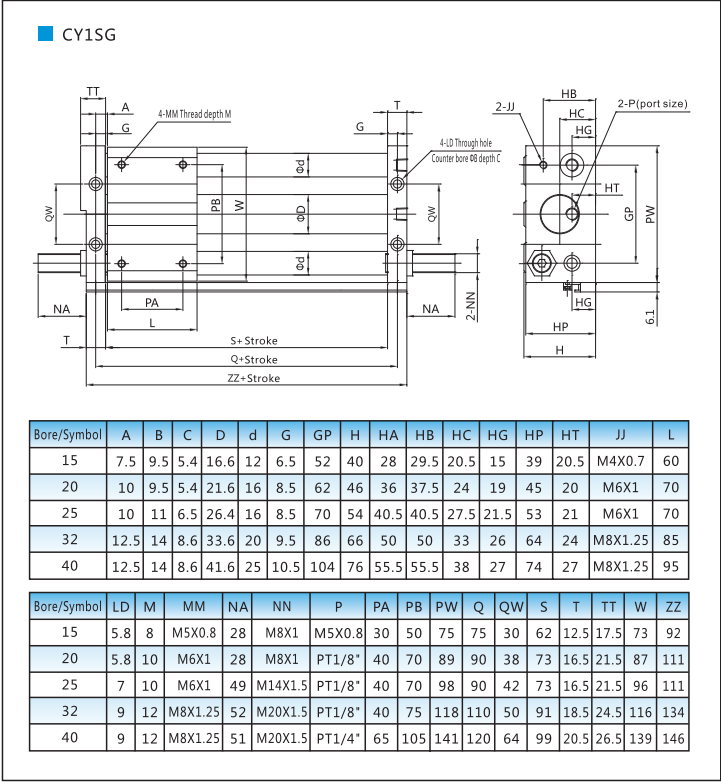
CY1SG

Magnetic Coupling Rodless Cylinder(Guiding Rod Type)

Inner structure drawing:



Dimension(mm):



CY1SG

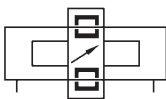
Magnetic Coupling Rodless Cylinder(Accurate Guiding Rod Type)



■ Specification:

Type	10	16	20	25	32	40
Motion	Double acting					
Fluid	Compressed air					
Working pressure (MPa)	0.18~0.7					
Warrant endure-pressure (MPa)	1					
Ambient temperature range (°C)	-10~60					
Speed range (mm/s)	50~400					
Cushion type	Adjustable buffer + oil buffer					
Port size	M5×0.8		1/8"			1/4"
Safety Retention Force (N)	60	140	200	320	550	850

■ Symbol:



■ Product feature:

- 1.Magnetic coupling rodless cylinder: No mechanical connection between piston and slide block with excellent sealing performance.
- 2.The action of the piston is transmitted to the external slide blocks through magnetic coupling force without piston rod. The installation space is smaller than ordinary cylinder while the maximum stroke is bigger than ordinary cylinder.
- 3.Both ends of the cylinder are equipped with adjustable buffer and fixed buffer device. So the reversing action is steady without impact to avoid mechanical damage.
- 4.The piston chamber separates from slide block to prevent dust and dirt from getting into the system and prolong the service life of the cylinder.
- 5.With double guiding rod structure and high guiding precision, it can bear a certain lateral or eccentric load.

■ How to order:

RMTL 20 × 100 S A

Specification ●

CY15G: Magnetic Coupling Rodless Cylinder
(Accurate Guiding Rod Type)

Bore ●

Φ10
Φ16
Φ20
Φ25
Φ32
Φ40

Cushion type ●

Blank: 2 adjusting screws
A: 2 hydraulic buffer

Magnet code ●

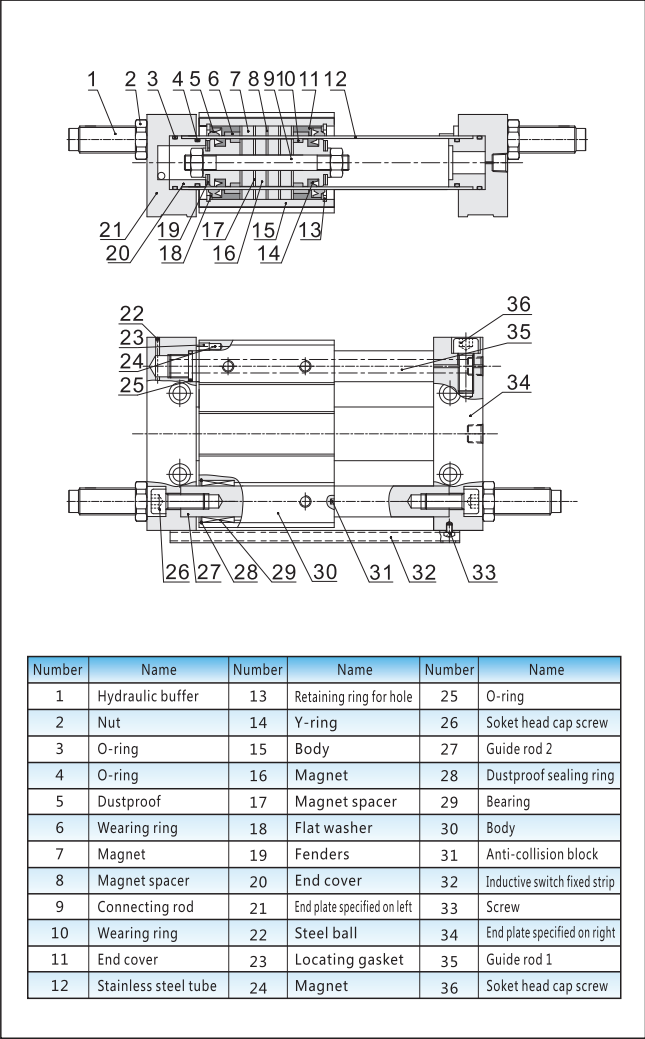
Blank: without magnet
S: with magnet

Stroke ●

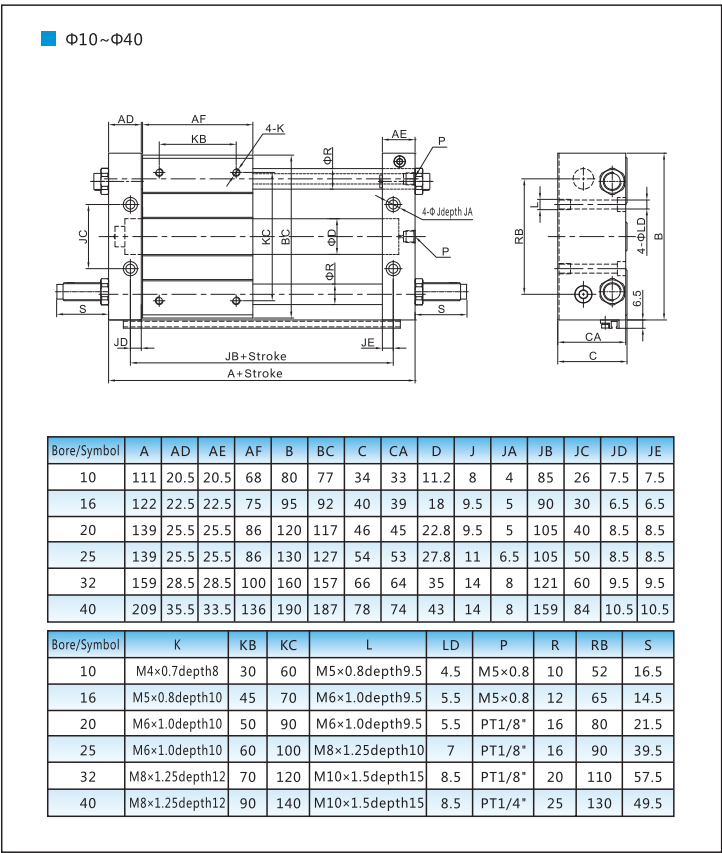
RMTL

Magnetic Coupling Rodless Cylinder(Accurate Guiding Rod Type)

Inner structure drawing:



Dimension(mm):



RMTL

Screw Thread Cylinder



Specification:

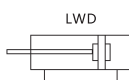
type	6	8	10	16
Motion	Single acting type			
Fluit	Compressed air			
Stroke	5,10,15			
Working pressure (MPa)	0.2~0.8			
Ambient temperature (°C)	-10~60			
Port size	M5×0.8			

How to order:

LWD 6 × 10 M

- Specification**
LWD: Screw Thread Cylinder
- Bore**
Φ6
Φ8
Φ10
Φ16
- Stroke**
5
10
15
- Screw thread type**
M: top of piston with screw thread
blank: top of piston without screw thread

Symbol:



Product feature:

1. With the whole cylinder body surface attaching screw thread, it can be adapt to various occations.
2. This series cylinders are especially suitable for the functions of clamping, fixing, limiting and positioning.
3. Adjusting the screw-in depth can change the stroke terminal position of the cylinder.

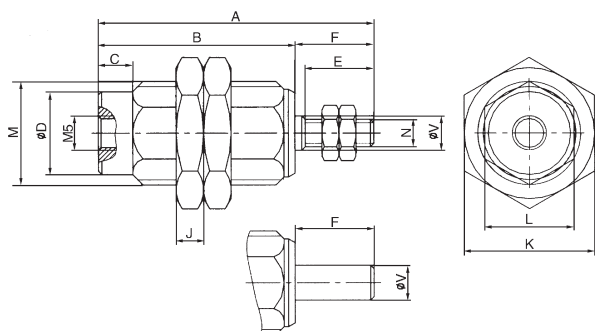
Inner structure drawing:

Number	Name
1	Cu tube with nickel
2	NBR Y-ring
3	AL piston
4	Stainless steel spring
5	steel screw cap with nickel
6	Cu axial with nickel
7	Stainless steel piston rod

Dimension(mm):

LWD Dimension

Φ12~Φ16



Type	A	B	C	D	E	F	J	K	L	M	N	V
LWD6×5	29.5	21	4	8.5	7	8.5	3	14	9	M10×1	M3×0.5	3
LWD6×10	34.5	26	4	8.5	7	8.5	3	14	9	M10×1	M3×0.5	3
LWD6×15	41.5	33	4	8.5	7	8.5	3	14	9	M10×1	M3×0.5	3
LWD8×5	31	21	4	10	7	10	3.2	14	11	M12×1	M4×0.7	5
LWD8×10	39	29	4	10	7	10	3.2	14	11	M12×1	M4×0.7	5
LWD8×15	44	34	4	10	7	10	3.2	14	11	M12×1	M4×0.7	5
LWD10×5	35	23.5	5	12	10	11.5	4	19	13	M15×1.5	M4×0.7	5
LWD10×10	40	28.5	5	12	10	11.5	4	19	13	M15×1.5	M4×0.7	5
LWD10×15	47	35.5	5	12	10	11.5	4	19	13	M15×1.5	M4×0.7	5
LWD16×5	38	23	7	19.5	12	15	5	27	20	M22×1.5	M5×0.8	6
LWD16×10	48.5	33.5	7	19.5	12	15	5	27	20	M22×1.5	M5×0.8	6
LWD16×15	53.5	38.5	7	19.5	12	15	5	27	20	M22×1.5	M5×0.8	6

Air Oil Pressure Transition Cylinder

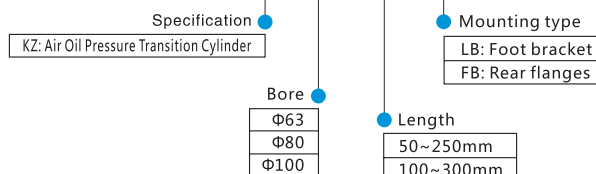


Specification:

Type	KZ
Motion	Single acting type
Bore	Φ63、Φ80、Φ100
Fluid	ISOVG32
Working pressure(Mpa)	0.07~0.99
Resistance (MPa)	1.5
Ambient temperature(°C)	-10~70

How to order:

KZ 80 × 100 LB



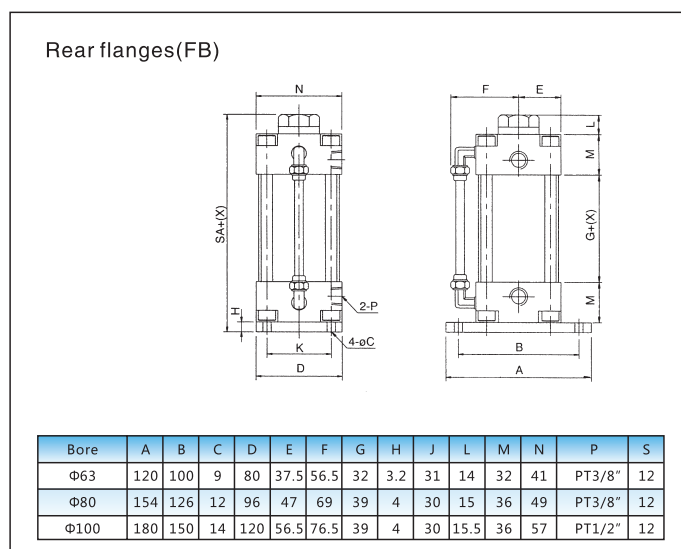
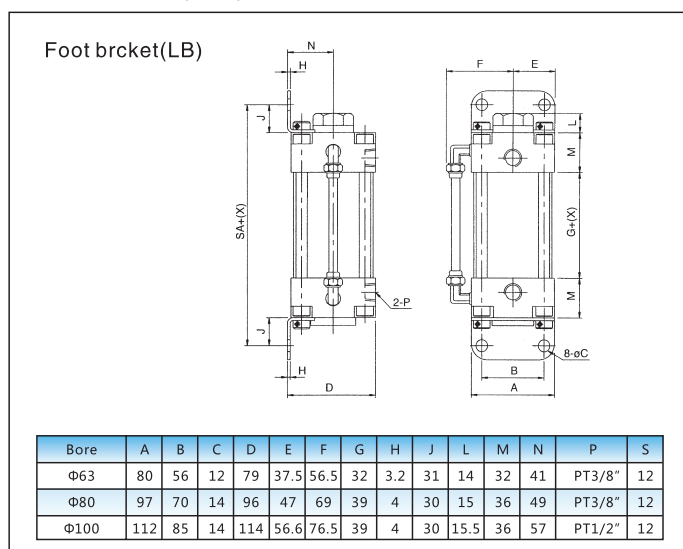
Product feature:

1. Provide a simple source of power for low pressure hydraulic cylinders.
2. Suitable for slow, stable movement.
3. The tanks must be mounted vertically at the highest point of the circuit.
4. Fill oil into the tanks not over 80% of the full volume.
5. Flow controls are recommended to avoid excessive foaming in tanks.

Optional:

Bore		Φ63						Φ80						Φ100					
Length(x)		50	75	125	150	200	250	110	125	150	200	250	300	100	125	150	200	250	300
cylinder stroke range																			
Bore	Φ40	100 under	101~125	101~150	151~200		251~300	201~250		301~350									
	Φ50	50 under	75 under	51~100			151~200	101~150			251~300			201~250					
	Φ63		50 under		75 under			51~100		101~150			201~250		151~200	251~300			
	Φ80				50 under				75 under				101~150	51~100				101~150	151~200
	Φ100								50 under				51~100						101~150

Dimension(mm):



Air-oil Power Cylinder

Operational principle:

BS series air-oil power cylinder,drives by pure air pressure.Use scale of sectional area which from big and small piston,converts the low air pressure to high pressure oil,the output rate of supercharging reach around 25:1. Mainly for stamping work,such as stamping,riveting,bending and so on.

Characteristic:

- The speed of pneumatic system and stability of hydraulic system integrates air-oil power cylinder
- Driven by pressured air ,produce power 1-40T
- Without shake and noise when working,improves quality of workpiece and life of mold.
- Design to save energy when continue pressure or stop action,not like pure hydraulic system
- Simple device,easy to control and maintain.
- Driven by pneumatic source,clear working environment,servicing easily.
- Simple and light,easy to handle.
- Stroke of capacity is limited
- Mainly for stamping work,such as bending,shear,pulling,riveting, marking and pressure assembly etc.

Installation and maintenance:

- Adopt multi-directional mounting,general use flange mounting,power axis is downward
- In using,the piston should avoids big radial load
- After install,run 2-3times in the work pressure range and without load
- The power source from filter of compressed dry air,pressure about 2-7kg/cm2
- The temperature range is -5~+60C for air-oil power cylinder,special requirements with OEM.
- It will be loss power oil after use of long-term,it need add in time.

Instructions:

First step:Preloading

N1 Admission air
M1 Fall
N4 Exhaust air

Second step:Boost

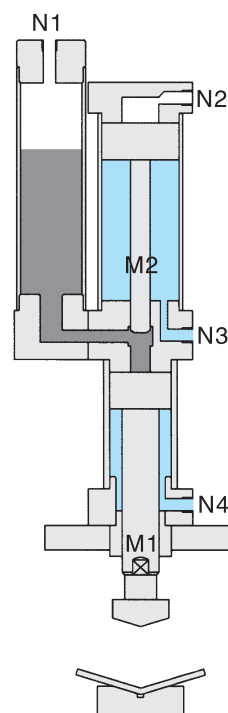
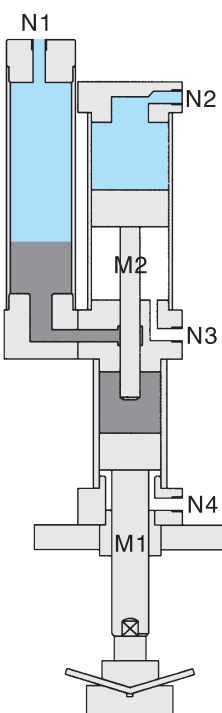
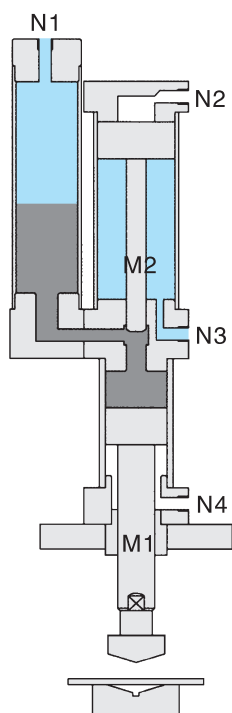
N2 Admission air
M2 fall boost
N3 Exhaust air

Third step:Reset

N3 N4 Admission air
M1 M2 Reset
N1 N2 Exhaust air

Compressed Air

Hydraulic Fluid

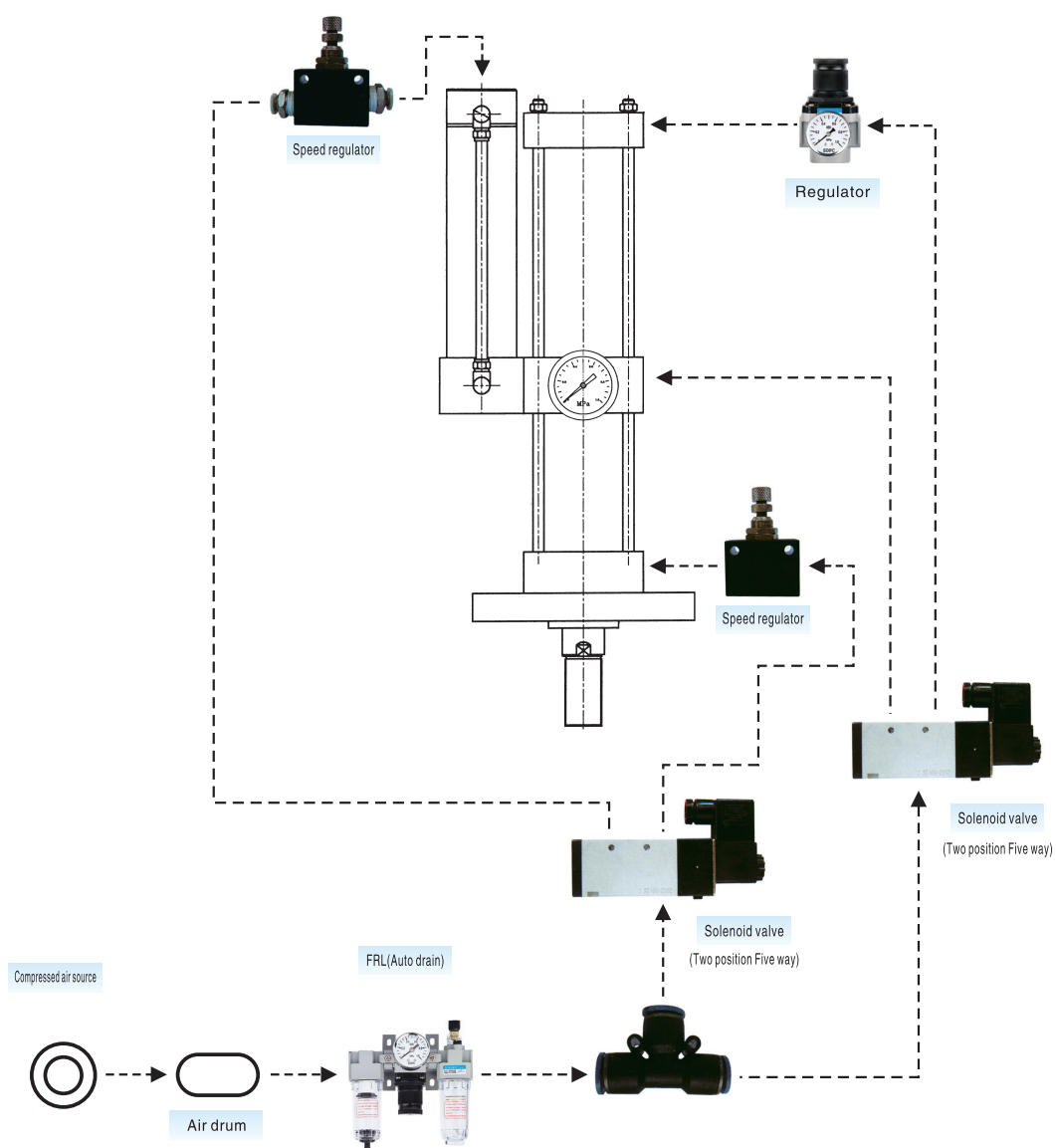


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Air-oil Power Cylinder



Recommend circuit diagram for standard air-oil power pressure

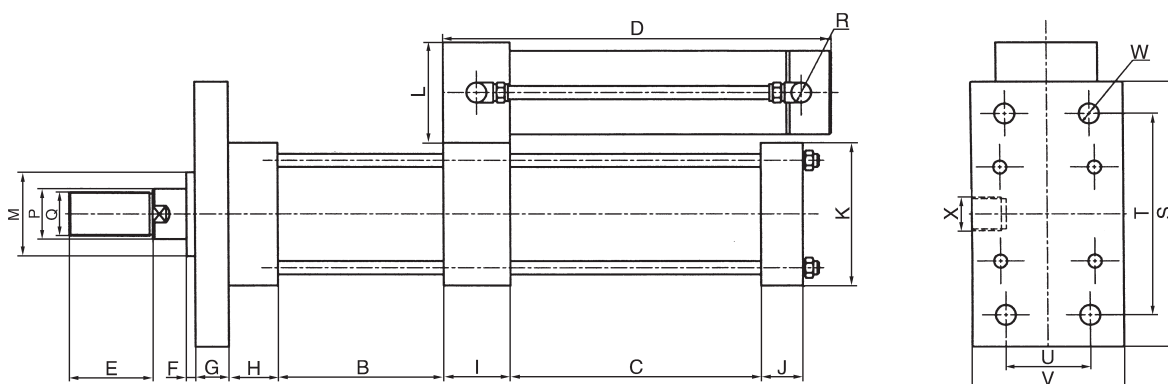


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Air-oil Power Cylinder

■ Dimension(mm):

Standard



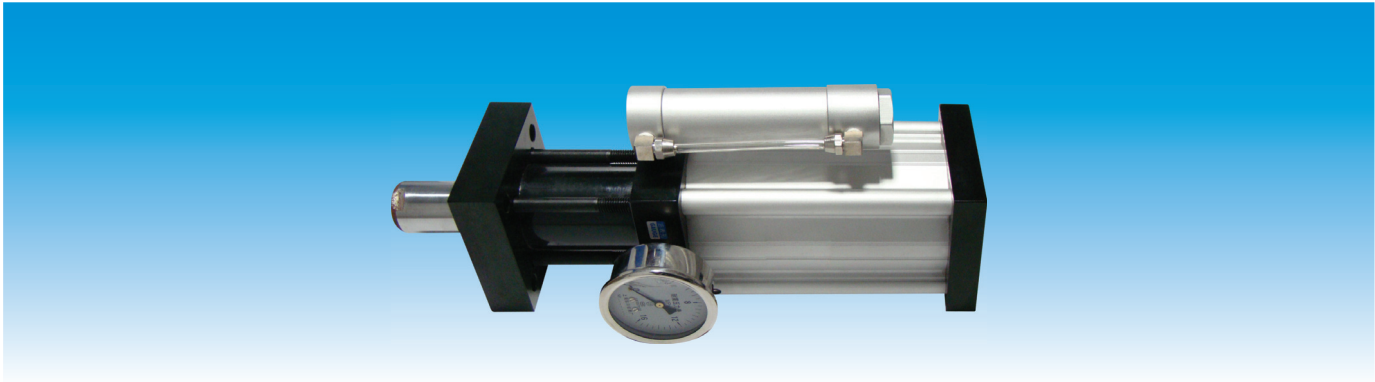
Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
50(1T)	50	5	20	30	30	25	85×85	60×60	Φ50	75	Φ30	M26×1.5	G1/4"	156	120	90	50	Φ12	G1/4"
63(3T)	50	5	20	35	40	25	100×100	69×69	Φ55	75	Φ35	M30×1.5	G3/8"	190	150	105	65	Φ14	G3/8"
80(5T)	50	5	20	35	40	25	114×114	90×90	Φ55	90	Φ35	M30×1.5	G3/8"	220	170	120	70	Φ16	G3/8"
100(10T)	55	5	25	40	40	30	140×140	112×112	Φ65	90	Φ45	M40×2	G1/2"	250	200	145	80	Φ20	G1/2"
100(13T)	55	5	25	40	40	30	140×140	112×112	Φ65	90	Φ45	M40×2	G1/2"	250	200	145	80	Φ20	G1/2"
125(15T)	55	5	25	40	50	30	180×180	112×112	Φ80	90	Φ60	M50×2	G1/2"	320	250	190	120	Φ22	G1/2"
125(20T)	55	5	25	40	50	30	180×180	112×112	Φ80	90	Φ60	M50×2	G1/2"	320	250	190	120	Φ22	G1/2"
160(30T)	55	5	30	40	60	40	210×210	140×140	Φ100	90	Φ60	M63×2	G3/4"	355	290	218	140	Φ30	G3/4"
160(40T)	55	5	40	40	60	40	250×250	140×140	Φ100	90	Φ80	M63×2	G3/4"	390	320	240	160	Φ35	G3/4"

Tonnage	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D
1T	50	5	350	105	110	260	100	5	400	105	110	310	155	5	450	205	110	360	100	5	500	255	110	410
		10	400					10	450					10	500					10	550			
		15	450					15	500					15	550					15	600			
		20	500					20	550					20	600					20	650			
3T	50	5	360	110	110	260	100	5	410	110	110	310	160	5	460	210	110	360	200	5	510	260	110	410
		10	410					10	460					10	510					10	560			
		15	460					15	510					15	560					15	610			
		20	510					20	560					20	610					20	660			
5T	50	5	380	110	130	290	100	5	430	110	130	340	160	5	480	210	130	390	200	5	500	260	130	440
		10	445					10	495					10	545					10	550			
		15	510					15	560					15	610					15	600			
		20	575					20	625					20	675					20	650			
10T	50	5	360	125	130	295	100	5	465	125	130	345	175	5	515	225	130	395	200	5	565	275	130	445
		10	410					10	530					10	580					10	630			
		15	460					15	595					15	645					15	695			
		20	510					20	660					20	710					20	760			
13T	50	5	430	125	145	295	100	5	480	125	145	310	175	5	530	225	145	395	200	5	580	275	145	445
		10	510					10	560					10	610					10	660			
		15	590					15	640					15	690					15	740			
		20	670					20	720					20	770					20	820			
15T	50	5	443	130	138	295	100	5	493	130	138	345	180	5	543	230	138	395	200	5	593	280	138	445
		10	508					10	558					10	608					10	658			
		15	573					15	623					15	673					15	723			
		20	638					20	688					20	738					20	788			
20T	50	5	468	130	163	295	100	5	518	130	163	345	180	5	568	230	163	395	200	5	618	280	163	445
		10	558					10	608					10	658					10	708			
		15	648					15	698					15	748					15	798			
		20	738					20	788					20	838					20	888			
30T	50	5	526	130	191	300	100	5	576	130	191	350	180	5	626	230	191	400	200	5	676	280	191	450
		10	631					10	681					10	731					10	781			
		15	738					15	786					15	836					15	886			
		20	841					20	891					20	941					20	991			
40T	50	5	536	130	191	300	100	5	586	130	191	350	180	5	636	230	191	400	200	5	686	280	191	450
		10	641					10	691					10	741					10	791			
		15	746					15	796					15	846					15	896			
		20	851					20	901					20	951					20	1001			

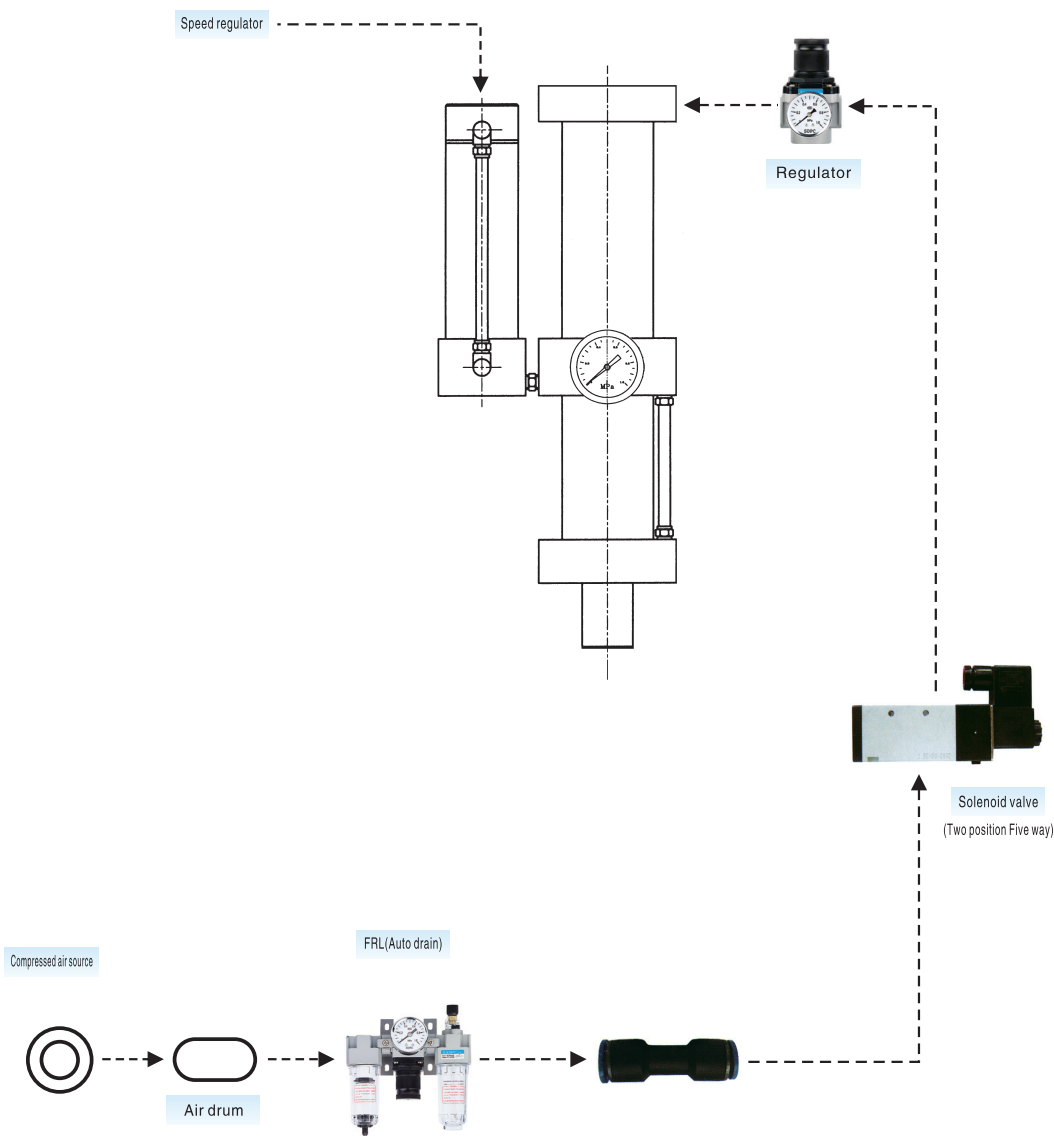


BS

Air-oil Power Cylinder



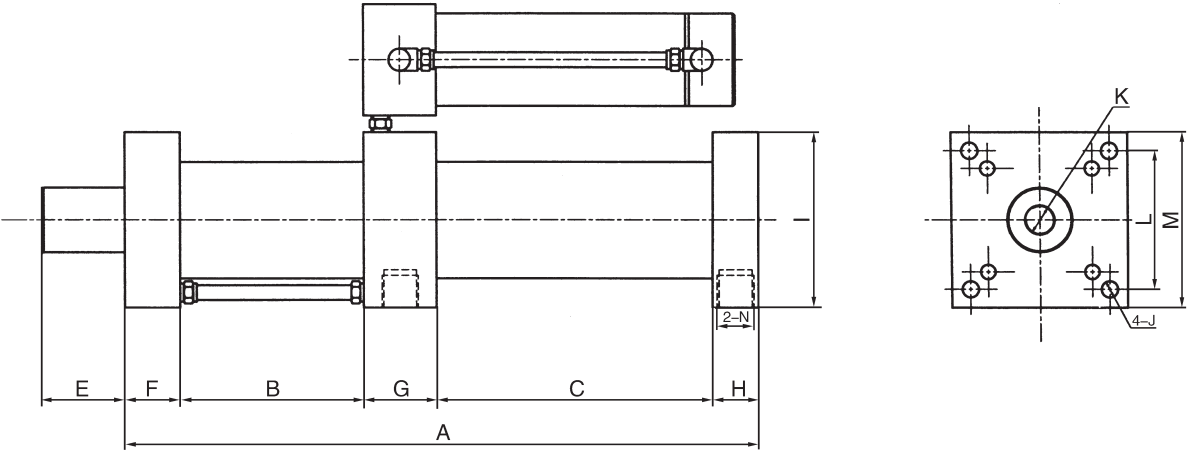
Recommend circuit diagram for vertical compression air-oil power pressure



Air-oil Power Cylinder

Dimension(mm):

Vertical compression



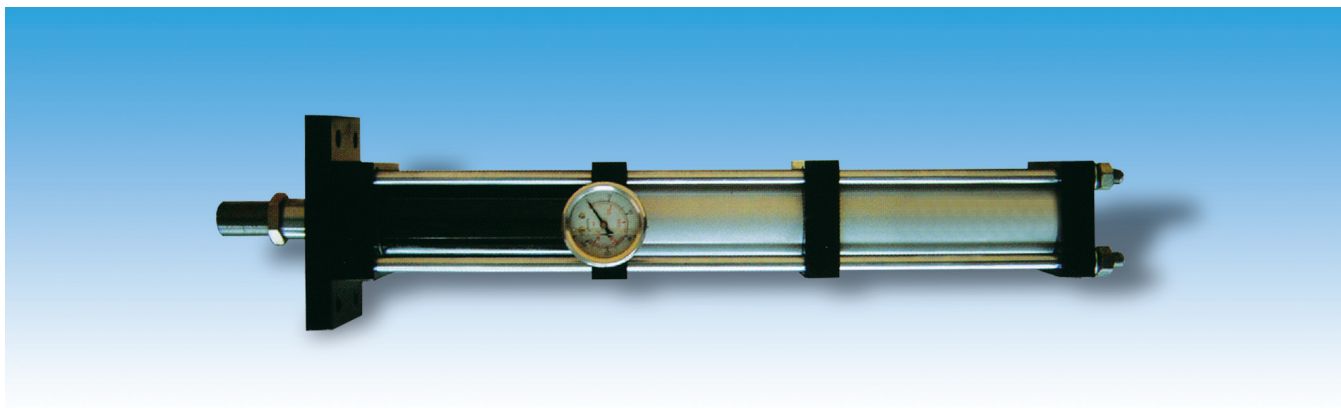
Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N
50(1T)	50	30	30	20	95×95	Φ9	M16 depth 25	75×75	95×95	G1/4"
50(2T)	50	30	30	20	95×95	Φ9	M16 depth 25	75×75	95×95	G1/4"
63(3T)	50	30	30	20	114×114	Φ11	M16 depth 25	92×92	114×114	G1/4"
63(5T)	50	30	30	20	114×114	Φ11	M16 depth 25	92×92	114×114	G1/4"
80(5T)	50	40	40	30	140×140	Φ13	M16 depth 25	110×110	140×140	G3/8"

Tonnage	Boost stroke	A	B	C	Tonnage	Boost stroke	A	B	C	Tonnage	Boost stroke	A	B	C	Tonnage	Boost stroke	A	B	C	Tonnage	Boost stroke	A	B	C
1T	5	231	60	91	2T	5	241	60	101	3T	5	251	65	106	5T	5	275	65	130	8T	5	306	65	131
	10	261	65	116		10	286	65	141		10	296	70	146		10	375	105	190		10	401	95	196
	15	291	70	141		15	356	90	181		15	366	100	186		15	495	165	250		15	531	160	261
	20	326	80	166		20	436	135	221		20	446	140	226		20	615	225	310		20	661	225	326

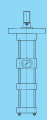
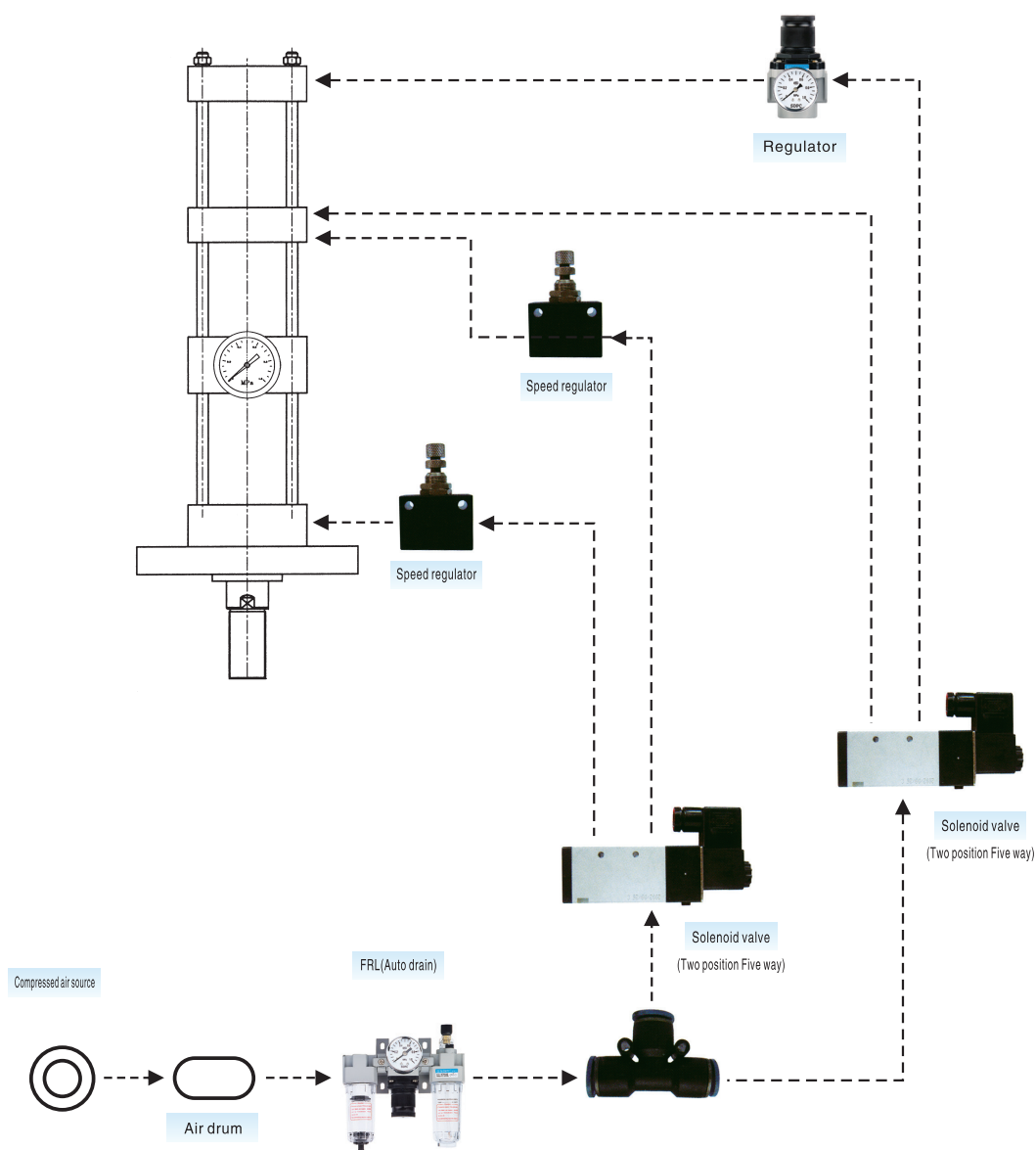


BS

Air-oil Power Cylinder



Recommend circuit diagram for built-in air-oil power pressure

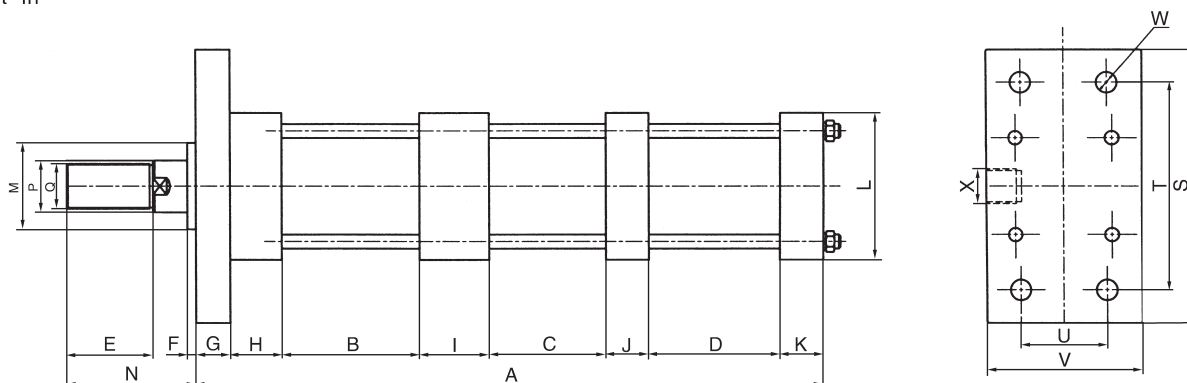


BS

Air-oil Power Cylinder

 Dimension(mm):

Built-in



Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N	P	Q	S	T	U	V	W	X
50(1T)	50	5	20	30	30	25	25	85×85	Φ50	75	Φ30	M26×1.5	156	120	90	50	Φ12	G1/4"
63(3T)	50	5	20	35	40	25	25	100×100	Φ55	75	Φ35	M30×1.5	190	150	105	65	Φ14	G3/8"
80(5T)	50	5	20	35	40	25	25	114×114	Φ55	90	Φ35	M30×1.5	220	170	120	70	Φ16	G3/8"
100(10T)	55	5	25	40	40	30	30	140×140	Φ65	90	Φ45	M40×2	250	200	145	80	Φ20	G1/2"
100(13T)	55	5	25	40	40	30	30	140×140	Φ65	90	Φ45	M40×2	250	200	145	80	Φ20	G1/2"
125(15T)	55	5	25	40	50	30	30	180×180	Φ80	90	Φ60	M50×2	320	250	190	120	Φ22	G1/2"
125(20T)	55	5	25	40	50	30	30	180×180	Φ80	90	Φ60	M50×2	320	250	190	120	Φ22	G1/2"
160(30T)	55	5	30	40	60	40	40	210×210	Φ100	90	Φ60	M63×2	355	290	218	140	Φ30	G3/4"
160(40T)	55	5	40	40	60	40	40	250×250	Φ100	90	Φ80	M63×2	390	320	240	160	Φ35	G3/4"

Tonnage	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D
1T	50	5	475	110	110	110	100	5	565	160	135	110	150	5	640	210	170	110	200	5	720	260	110	
		160	10			605		160	10			690		160	10			770		160				
		210	15			655		210	15			740		210	15			820		210				
		260	20			705		260	20			790		260	20			870		260				
3T	50	5	495	115	105	110	100	5	575	165	135	110	150	5	660	215	170	110	200	5	740	265	105	
		160	10			625		160	10			710		160	10			790		160				
		210	15			675		210	15			760		210	15			840		210				
		260	20			725		260	20			810		260	20			890		260				
5T	50	5	520	115	110	130	100	5	605	165	145	130	150	5	685	215	175	130	200	5	770	265	110	
		195	10			670		195	10			750		195	10			835		195				
		260	15			735		260	15			815		260	15			900		260				
		325	20			800		325	20			880		325	20			965		325				
10T	50	5	565	130	110	130	100	5	650	180	145	130	150	5	730	230	175	130	200	5	815	280	110	
		195	10			715		195	10			795		195	10			880		195				
		260	15			780		260	15			860		260	15			945		260				
		325	20			845		325	20			925		325	20			1010		325				
13T	50	5	580	130	110	145	100	5	665	180	145	145	150	5	745	230	175	145	200	5	830	280	110	
		225	10			745		225	10			825		225	10			910		225				
		308	15			825		305	15			905		305	15			990		305				
		385	20			905		385	20			985		385	20			1070		385				
15T	50	5	583	135	110	138	100	5	668	185	145	138	150	5	748	235	175	138	200	5	833	285	110	
		203	10			733		203	10			813		203	10			898		203				
		268	15			798		268	15			878		268	15			963		268				
		333	20			863		333	20			943		333	20			1028		333				
20T	50	5	608	135	110	163	100	5	693	185	145	163	150	5	773	235	175	163	200	5	858	285	110	
		253	10			783		253	10			863		253	10			948		253				
		343	15			873		343	15			953		343	15			1038		343				
		433	20			963		433	20			1043		433	20			1128		433				
30T	50	5	686	135	125	191	100	5	776	185	165	191	150	5	866	235	205	191	200	5	956	285	125	
		296	10			881		296	10			971		296	10			1061		296				
		401	15			986		401	15			1076		401	15			1166		401				
		506	20			1091		506	20			1181		506	20			1271		506				
40T	50	5	691	135	120	191	100	5	776	185	155	191	150	5	856	235	185	191	200	5	941	285	120	
		296	10			881		296	10			961		296	10			1046		296				
		401	15			988		401	15			1066		401	15			1151		401				
		506	20			1091		506	20			1171		506	20			1256		506				

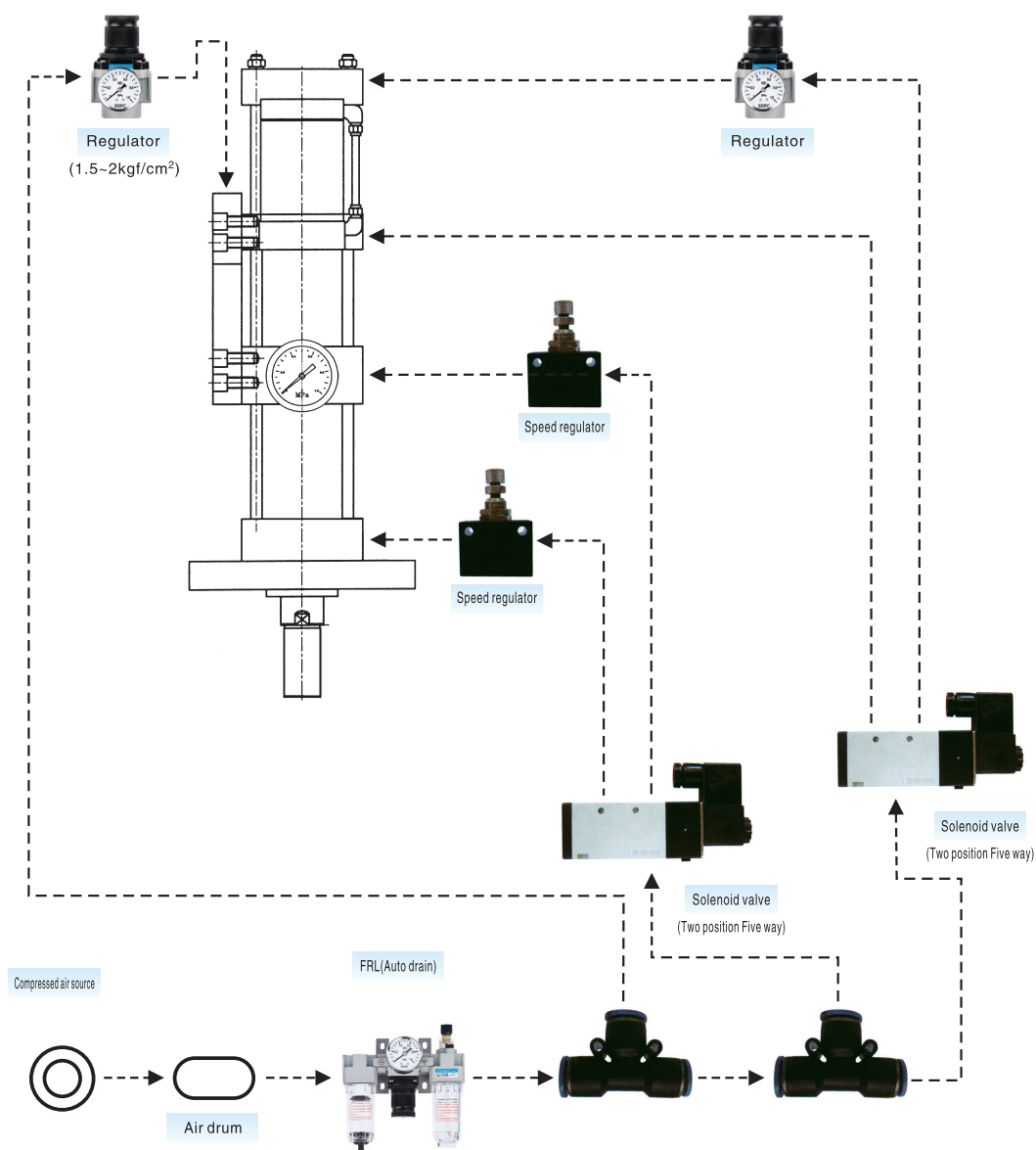


BS

Air-oil Power Cylinder



Recommend circuit diagram for speed air-oil power pressure

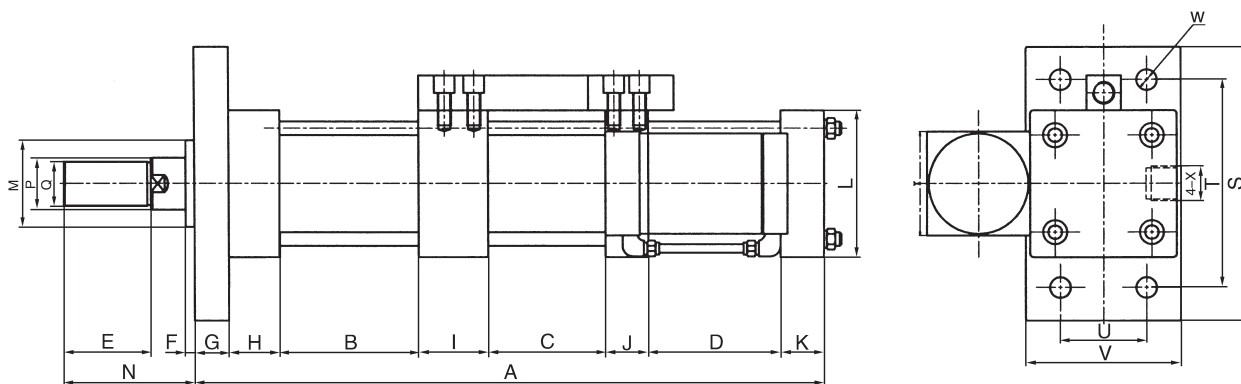


BS

Air-oil Power Cylinder

■ Dimension(mm):

Speed



Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N	P	Q	S	T	U	V	W	X	L
50(1T)	50	5	20	30	30	25	25	85×85	Φ50	75	Φ30	M26×1.5	156	120	90	50	Φ12	G1/4"	60×60
63(3T)	50	5	20	35	40	25	25	100×100	Φ55	75	Φ35	M30×1.5	190	150	105	65	Φ14	G3/8"	69×69
80(5T)	50	5	20	35	40	25	25	114×114	Φ55	90	Φ35	M30×1.5	220	170	120	70	Φ16	G3/8"	69×69
100(10T)	55	5	25	40	40	30	30	140×140	Φ65	90	Φ45	M40×2	250	200	145	80	Φ20	G1/2"	69×69
100(13T)	55	5	25	40	40	30	30	140×140	Φ65	90	Φ45	M40×2	250	200	145	80	Φ20	G1/2"	69×69
125(15T)	55	5	25	40	50	30	30	180×180	Φ80	90	Φ60	M50×2	320	250	190	120	Φ22	G1/2"	69×69
125(20T)	55	5	25	40	50	30	30	180×180	Φ80	90	Φ60	M50×2	320	250	190	120	Φ22	G1/2"	69×69
160(30T)	55	5	30	40	60	40	40	210×210	Φ100	90	Φ60	M63×2	355	290	218	140	Φ30	G3/4"	69×69
160(40T)	55	5	40	40	60	40	40	250×250	Φ100	90	Φ80	M63×2	390	320	240	160	Φ35	G3/4"	69×69

Tonnage	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D
1T	50	5	485	95	95	110	100	5	585	145	145	110	150	5	685	195	195	110	200	5	785	245	245	110
		10	535			160		10	635			160		10	735			160		10	835			160
		15	585			210		15	685			210		15	785			210		15	885			210
		20	635			260		20	735			260		20	835			260		20	935			260
3T	50	5	490	95	100	110	100	5	590	145	150	110	150	5	690	195	200	110	200	5	790	245	250	110
		10	540			160		10	640			160		10	740			160		10	840			160
		15	590			210		15	690			210		15	790			210		15	890			210
		20	640			260		20	740			260		20	840			260		20	940			260
5T	50	5	510	95	100	130	100	5	610	145	150	130	150	5	710	195	200	130	200	5	810	245	250	130
		10	575			195		10	675			195		10	775			195		10	875			195
		15	640			260		15	740			260		15	840			260		15	940			260
		20	705			325		20	805			325		20	905			325		20	1005			325
10T	50	5	545	95	110	130	100	5	645	145	160	130	150	5	745	195	210	130	200	5	845	245	260	130
		10	610			195		10	710			195		10	810			195		10	910			195
		15	675			260		15	775			260		15	875			260		15	975			260
		20	740			325		20	840			325		20	940			325		20	1040			325
13T	50	5	560	95	110	145	100	5	660	145	160	145	150	5	760	195	210	145	200	5	860	245	260	145
		10	640			225		10	740			225		10	840			225		10	940			225
		15	720			308		15	820			305		15	920			305		15	1020			305
		20	800			385		20	900			385		20	1000			385		20	1100			385
15T	50	5	578	105	110	138	100	5	678	155	160	138	150	5	778	205	210	138	200	5	878	255	260	138
		10	643			203		10	743			203		10	843			203		10	943			203
		15	708			268		15	808			268		15	908			268		15	1008			268
		20	773			333		20	873			333		20	973			333		20	1073			333
20T	50	5	603	105	110	163	100	5	703	155	160	163	150	5	803	205	210	163	200	5	903	255	260	163
		10	693			253		10	793			253		10	893			253		10	993			253
		15	783			343		15	883			343		15	983			343		15	1083			343
		20	873			433		20	973			433		20	1073			433		20	1173			433
30T	50	5	696	115	115	191	100	5	796	165	165	191	150	5	896	215	215	191	200	5	996	265	265	191
		10	801			296		10	901			296		10	1001			296		10	1101			296
		15	906			401		15	1006			401		15	1106			401		15	1206			401
		20	1011			506		20	1111			506		20	1211			506		20	1311			506
40T	50	5	716	120	115	199	100	5	816	170	165	199	150	5	916	220	215	199	200	5	1016	270	265	199
		10	821			301		10	921			301		10	1021			301		10	1121			301
		15	926			406		15	1026			406		15	1126			406		15	1226			406
		20	1031			511		20	1211			511		20	1231			511		20	1331			511



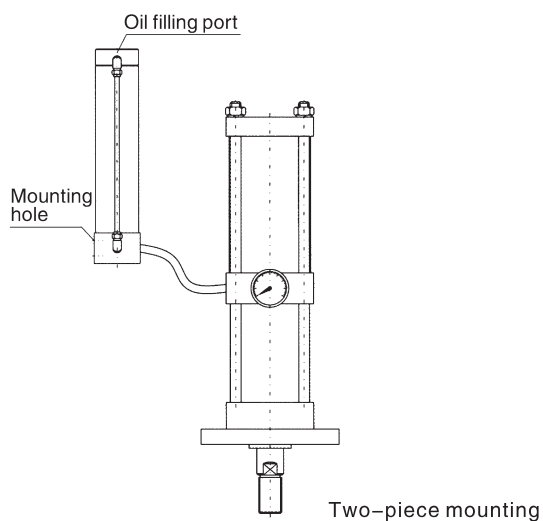
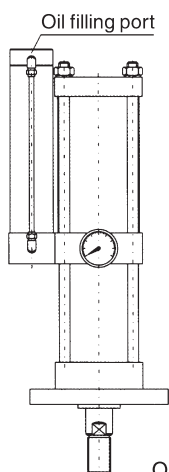
BS

Air-oil Power Cylinder

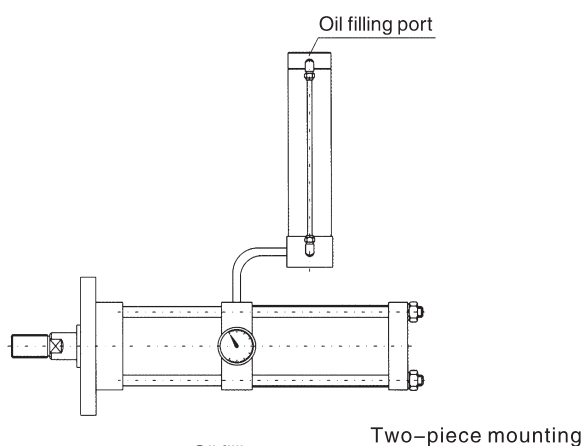
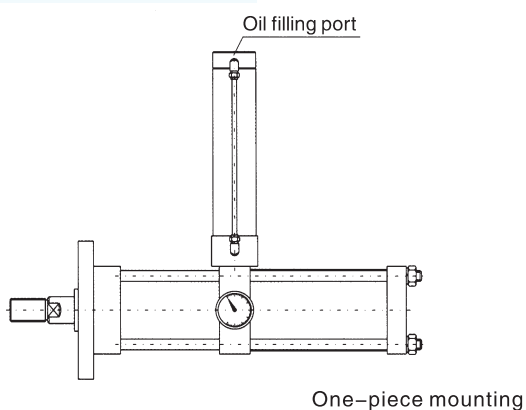
■ Mounting:

■ Mounting as multi-angle, the oil port must ensure upwards when installing.

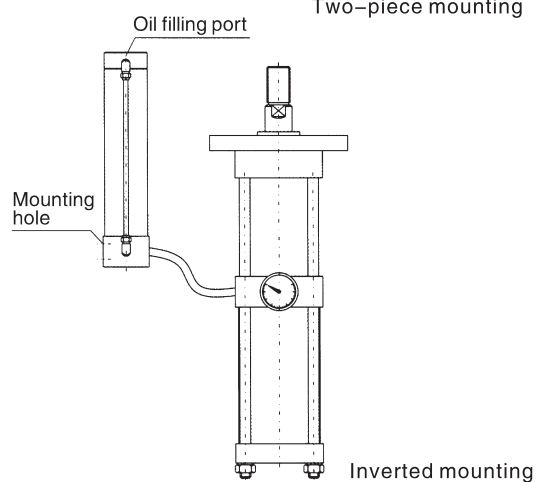
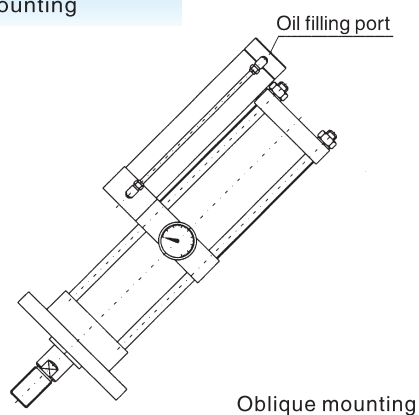
Vertical overhead mounting(Recommend mounting)



Horizontal mounting



Special mounting

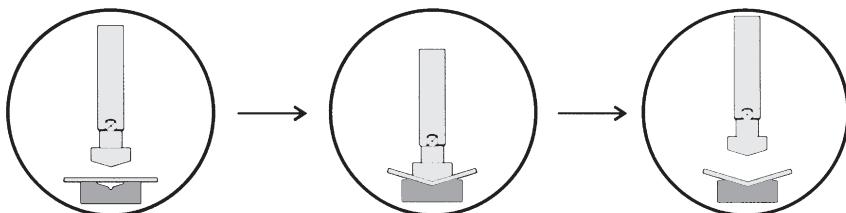


BS

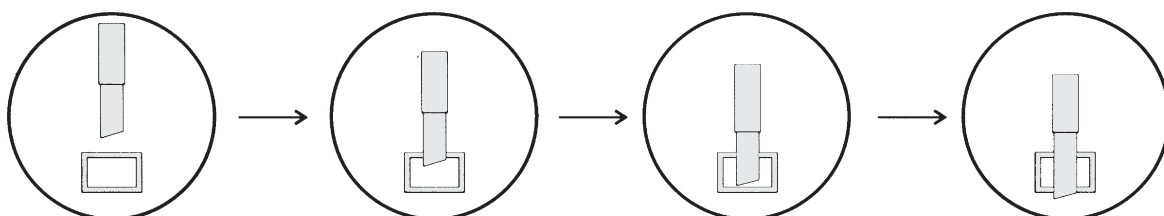
Air-oil Power Cylinder

■ Examples of power cylinder application :

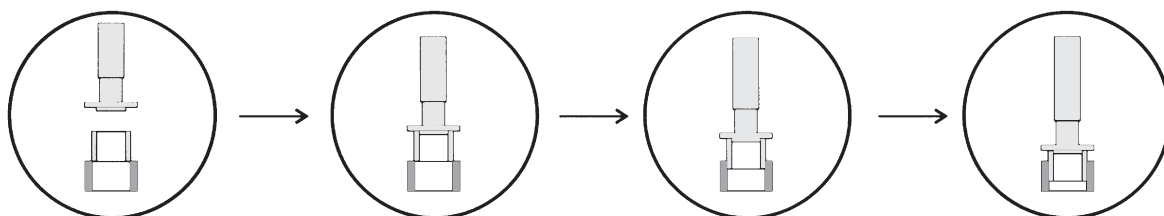
Bend forming



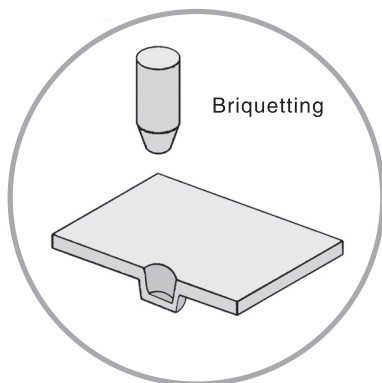
Transfer die



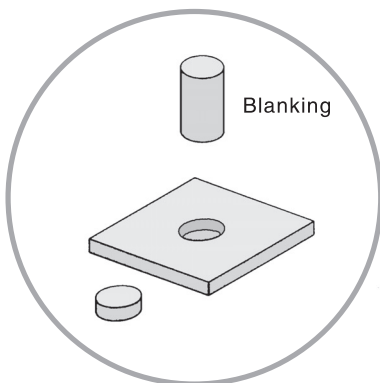
Pressfit



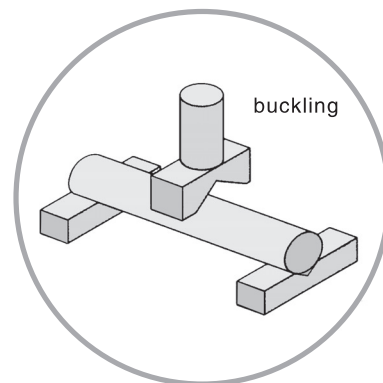
Briquetting



Blanking



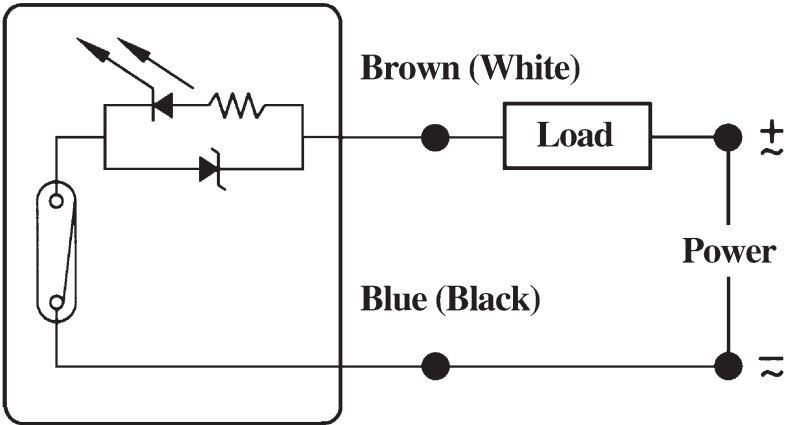
buckling



BS

Magnet Switch

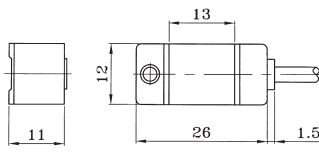
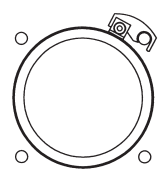
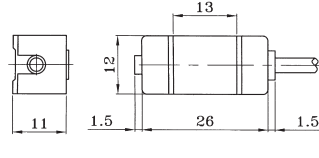
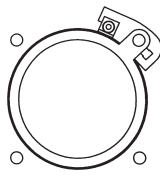
■ Wiring diagram:



■ Technical parameter:

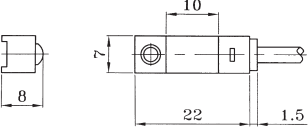
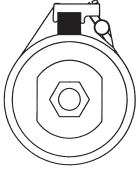
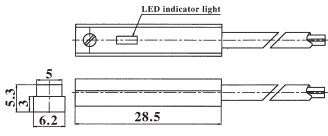
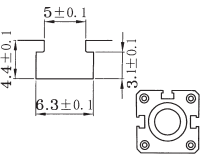
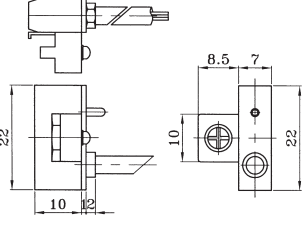
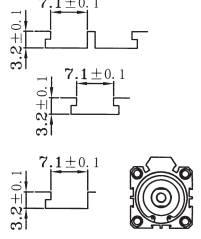
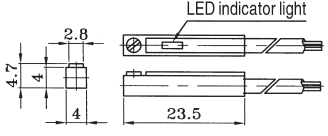
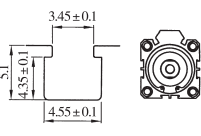
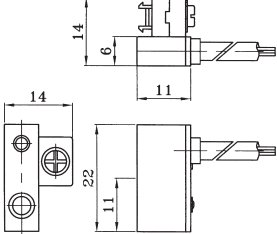
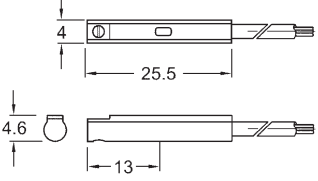
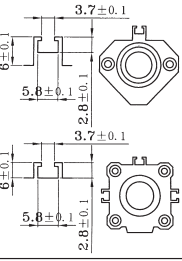
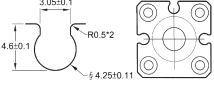
Sensor switch type	Operating voltage range	Max.Flow switch	Max.contact rating	Impact resistance	Vibration resistance	Ambient temperature	Protection grade	Indicator light	Wire length
CS1-U	5~240V DC/AC	100A Max	10W Max	30G	9G	-10~70℃	IP-67	LED	2M
CS1-F	5~240V DC/AC	100A Max	10W Max	30G	9G	-10~70℃	IP-67	LED	2M
CS1-S	5~240V DC/AC	100A Max	10W Max	30G	9G	-10~70℃	IP-67	LED	2M
CS1-J	5~240V DC/AC	100A Max	10W Max	30G	9G	-10~70℃	IP-67	LED	2M
CS1-J1	5~240V DC/AC	100A Max	10W Max	30G	9G	-10~70℃	IP-67	LED	2M
CS1-G	5~240V DC/AC	100A Max	10W Max	30G	9G	-10~70℃	IP-67	LED	2M
CS1-H	5~240V DC/AC	100A Max	10W Max	30G	9G	-10~70℃	IP-67	LED	2M

■ Product application and Dimension :

Product application and dimension	Match magnet switch type	Switch Size	Switch Installation Drawing	Clamp Name & Code
SC  DNG  QGB  SU  SI 	CS1-U 	 11, 12, 13, 26, 1.5		 PAM - 63 Accessories Type Inner diameter of Cylinder
	CS1-F 	 11, 12, 13, 26, 1.5		 PI - 63 Accessories Type Inner diameter of Cylinder

Magnet Switch

Product application and Dimension:

Product application and dimension	Match magnet switch type	Switch Size	Switch Installation Drawing	Clamp Name & Code
MS  MAL 	CS1-S			 BK buckle fastener General type: Suitable for cylinder with 63 bore, bigger than 63 bore, can make to order
DNC 	CS1-M			Clamp Needless
SDA 	CS1-J			Clamp Needless
SDA  ADVU 	CS1-G			
CQ 	CS1-J1  CS1-H 	 	 	Clamp Needless