

Product Index

233/251



255/268



269/282



283/299



301/335



XQ/QE Series Quick Exhaust Valve	248
XKP Series Quick Exhaust Valve	249
XST Series Shuttle Valve/CV Series Vacuum Valve	250
HSV Series Hand Sliding Valve/MQ Series Precision Flow Control Valve	251
2V Series 2/2 Solenoid Valve	255~256
2P Series 2/2 Solenoid Valve (Plastic Steel Type)	257
2W(UD) Series 2/2 Direct Drive Type Solenoid Valve (Small Aperture)	258~259
2W(UW) Series 2/2 Direct Drive Type Solenoid Valve(Large Aperture)	260~261
2S Series Stainless Steel Solenoid Valve	262
2W/2S Normal Open Series Solenoid Valve	263
2L(US) Series 2/2 Solenoid Valve	264
PU220 Series 2/2 Solenoid Valve(Direct Drive Type)	265~266
PU 225 Series 2/2 Solenoid Valve(Guide Type)	267
PU 225 Series Solenoid Valve(Steam Type)	268
VX Series 2/2 Solenoid Valve	269
VXF Series Solenoid Valve	270
XC22/23 Series Solenoid Valve	271
XC5404 Series High Pressure,High Temperature Solenoid Valve	272
XC6213 Series Diaphragm Type Solenoid Valve	273
2Q Series Air Control Two-Way Valve	274
SLP Series 2/2 Solenoid Valve(Normal Close)	275~276
SLP Series 2/2 Solenoid Valve(Normal Open)	277~278
THP Series 2/2 Solenoid Valve(Normal Close)	279~280
THP Series 2/2 Solenoid Valve(Normal Open)	281
XPT Series Electronic-drain Valve	282
XMfZ Series Right Angle Pulse Valve	283
XMfY Series In Line Pulse Valve	284
XMf Series Insert Pipe Type Pulse Valve	285
XCP Series Plastic Actuator Bevel Valve	286
XC Series Stainless Steel Bevel Valve	287
XQ22HD Series Right Angle Valve	288
XGV200 Series Process Valve	289
PAV Series Pneumatic Axial Valve	290~291
HLP Series Pressure Controller	292
XGT/XK/XR Series Pneumatic Gear Vibrator	293~294
XNTP Series Pision Reciprocating Type Ball Vibrator	295
XFP-M/XBVP/XSK Series Pision Type Pneumatic Hamm	295~296
Other Solenoid Valve / Solenoid Valve Accessories	297
Solenoid Valve Accessories	298~299
Pneumatic Tube Fittings/ With G Thread(O-ring)	301~308
Speed Controls	309
Mini Fittings	310~311
Hand Valve	311~312
Stop Fittings/Check Valves	313
Metal Push-In Fittings/With G Thread(O-ring)	314~318
Stainless Steel Push-In Fittings/With G Thread(O-ring)	318~320
Metal Speed Controls	321
Rapid Fittings For The Plastic Tubings	321~324
Pipe Joint Fittings	324~326
Pipe Fittings	326~329
Quick Coupler	330
PU/PE/NY Tube	331~333
Silencer/Air Gun/Tube Cutter	334~335

Standard Cylinders

Standard cylinder is composed of Front &End Cover, Barrel, Piston, Piston Rod and Seal Rings, which is most regular pneumatic cylinder. XCPC manufactured standard cylinder for over 20 years, it became to be the leader in this filed in China. The bore range is from 32mm to 320mm. Our standard cylinder include: DNC(ISO6431, VDMA24562,)DNG(SO15552),SI(506431) SC/SU, MB,CA2(Japanese Standard). we can also produce specialized cylinder according to customer's requirement.



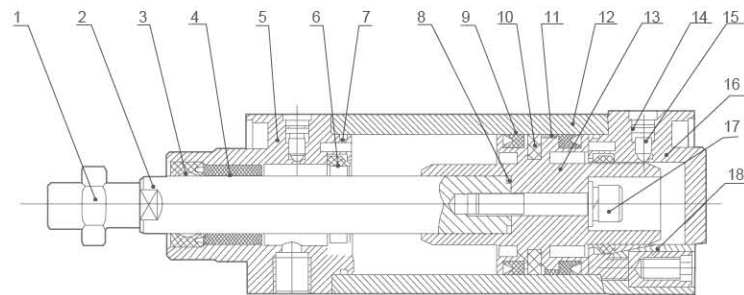
DNC Series ISO15552 Standard Cylinder



Ordering Code

TubeType	Series Code	Cylinder Bore	Stroke	Adjust Storke	Magnet Code	Fixed Type
Blank: Square Type T: Tie-rod Type M: Mickey Mouse Type	DNC: ISO15552 Standard Double Action Type DNT: ISO15552 Standard With Mickey Mouse (Groove) Tube DNCD: ISO15552 Standard Two Axis Double Action Type DNCJ: ISO15552 Two Axis Stroke Adjust Type	32mm-125mm	25: 25mm 50: 50mm 75: 75mm		Blank: Without Magnet S: With Magnet	Blank: Normal Type LB: Front and back fixed type FA: Front cover fixed type (Front flange type) FB: Back cover fixed type (Back flange type) CA: Back cover fixed type (Single earring) CB: Back cover fixed type (Double earring) SDB: Back cover fixed type

Internal structure



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

Specification

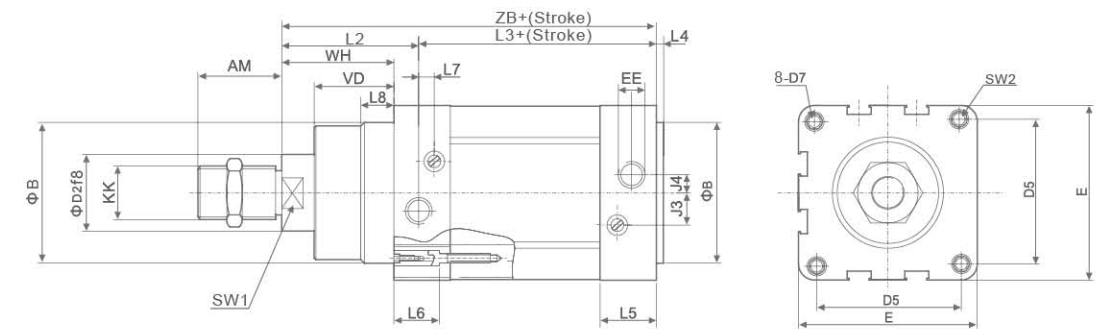
Bore(mm)	32	40	50	63	80	100	125
Motion Pattern	Double Action						
Working Medium	Filtered Air						
Compression Pressure	1.5MPa						
Max. Operating Pressure	1.0MPa						
Min. Operating Pressure	0.1MPa						
Buffer	Air Buffer(Standard)						
Condition Temperature	-5~70℃						
Operating Speed	50~800mm/s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

Stroke

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

DNC Series ISO15552 Standard Cylinder

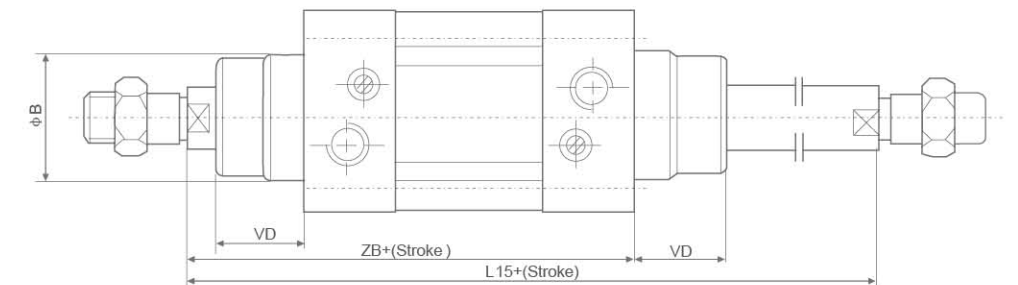
Overall Dimensions

Normal Type
DNC-S

Dimension Sheet

Bore	AM	B	D2	D5	D7	E	EE(G)	J3	J4	KK	L2	L3	L4	L5	L6	L7	L8	SW1	SW2	VD	WH	ZB
32	22	30	12	32.5	M6	45	1/8	6	5.2	M10×1.25	40	80	4	26	22	3.3	8	10	6	16	26	120
40	24	35	16	38	M6	54	1/4	8	6	M12×1.25	46	89	4	29.6	22	3.6	10	13	6	20	30	135
50	32	40	20	46.5	M8	64	1/4	10	8.5	M16×1.5	54	90	4	30	22	5.1	10	17	8	27	37	144
63	32	45	20	56.5	M8	75	3/8	12.4	10	M16×1.5	57	101	4	35.5	22	6.6	10	17	8	27	37	158
80	40	45	25	72	M10	93	3/8	12.5	8	M20×1.5	65	109	4	36	25	10.5	10	22	10	34.5	46	174
100	40	55	25	89	M10	110	1/2	11.8	10	M20×1.5	71	118	4	39	25	8	12.5	22	10	38	51	189
125	54	60	32	110	M12	134	1/2	13	8	M27×2	95	128	6	44.7	30	14	12.5	28	12	46	65	223

Overall Dimensions

Double Piston Rod Type
DNC-D-S

Dimension Sheet

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

DNCB Series Booster Cylinder



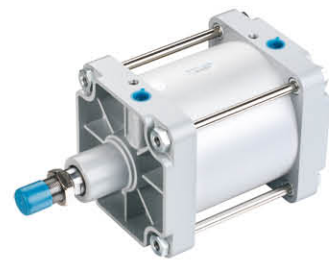
Specification

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

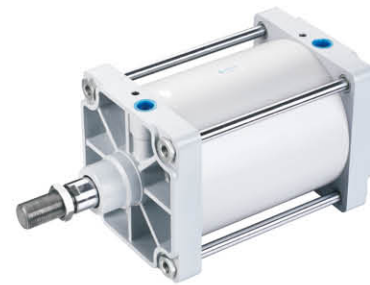
Product instruction

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

DNG Series ISO15552 Standard Cylinder



DNG 200 × 100-S



DNG 250 × 200-S

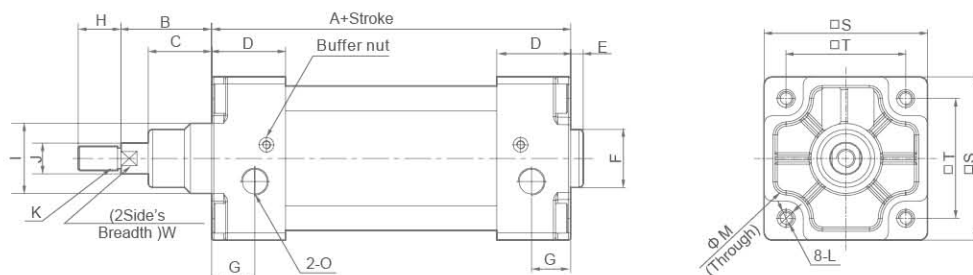
Ordering Code

DNG	160	×	100	—	25	—	S	—	□
Series Code	Cylinder Bore		Stroke		Adjust Storke		Magnet Code		Fixed Type
DNG:ISO15552 Standard Double Action Type	160mm-320mm				25: 25mm 50: 50mm 75: 75mm		Blank: Without Magnet S: With Magnet		Blank:Normal type LB:Front and back fixed type FA:Front cover fixed type(Front flange type) FB:Back cover fixed type(Back flange type) CA:Back cover fixed type (Single earring) CB:Back cover fixed type(Double earring)

Specification

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

Overall Dimensions



Dimension Sheet

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

SI Series ISO6431 Standard Cylinder



SI 50X100

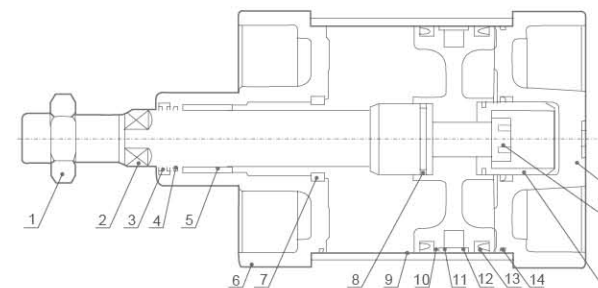


SIJ 50X100-25

Ordering Code

SI	50	×	50	—	25	—	S	—	□
Series Code	Cylinder Bore		Stroke		Adjust Storke		Magnet Code		Fixed Type
SI:ISO6431 Standard Double Action Type	32mm-200mm				25: 25mm 50: 50mm 75: 75mm		Blank: Without Magnet S: With Magnet		Blank:Normal type LB:Front and back fixed type FA:Front cover fixed type(Front Flange Type) FB:Back cover fixed type(Back Flange Type) CA:Back cover fixed type (Single Earring) CB:Back cover fixed type(Double Earring) TC:Central trunnion type TC-M:Central trunnion type attaching foot seat

Internal structure



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

Specification

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

SI Series ISO6431 Standard Cylinder

Cylinder theory output

Cylinder inside Diameter	External Diameter of Piston Rod	Motion Pattern	Compression Area(cm ²)	Air Pressure(kgf/cm ²)								
				1	2	3	4	5	6	7	8	9
32	12	Double Action	Press Side	8.04	8.04	16.08	24.12	32.16	40.20	48.24	56.28	64.32
			Pull Side	6.90	6.90	13.80	20.07	27.60	34.50	41.40	48.30	55.20
40	16	Double Action	Press Side	12.56	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100.24
			Pull Side	10.55	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40
50	20	Double Action	Press Side	19.63	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04
			Pull Side	16.49	16.49	32.98	49.47	65.96	82.45	98.94	115.43	131.92
63	20	Double Action	Press Side	31.17	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36
			Pull Side	28.03	28.03	56.06	84.09	112.12	140.15	168.18	196.21	224.24
80	25	Double Action	Press Side	50.26	50.26	100.52	150.70	201.04	251.30	301.56	351.82	402.08
			Pull Side	45.36	45.36	90.72	136.08	181.44	226.80	272.16	317.52	362.88
100	25	Double Action	Press Side	78.53	78.53	157.06	235.59	314.12	392.65	471.18	549.71	628.24
			Pull Side	71.47	71.47	142.94	214.41	285.88	357.35	428.82	500.29	571.76
125	32	Double Action	Press Side	122.72	122.72	245.44	368.16	490.88	613.60	736.32	859.04	981.76
			Pull Side	114.68	114.68	229.36	344.04	458.72	573.40	688.08	802.76	917.44
160	40	Double Action	Press Side	201.06	201.06	402.12	603.18	804.24	1005.3	1206.36	1407.42	1608.48
			Pull Side	188.49	188.49	376.98	565.47	753.96	942.45	1130.94	1319.43	1507.92
200	40	Double Action	Press Side	314.16	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.28
			Pull Side	301.57	301.57	603.14	904.71	1206.28	1507.80	1809.42	2100.99	2402.56

Stroke

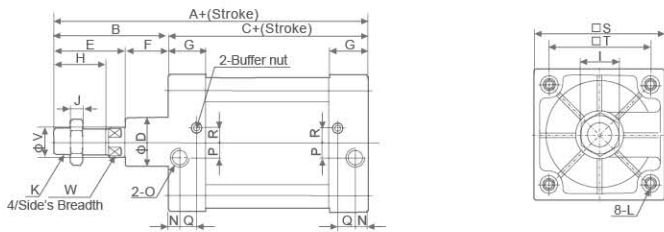
Bore(mm)	Standard Stroke	Max.Stroke	Permissible Stroke
32	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500	1000	2000
40	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800	1200	2000
50	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
63	25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

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

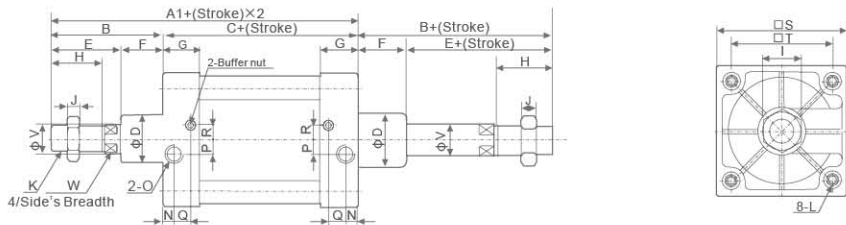
SI Series ISO6431 Standard Cylinder

Overall Dimensions

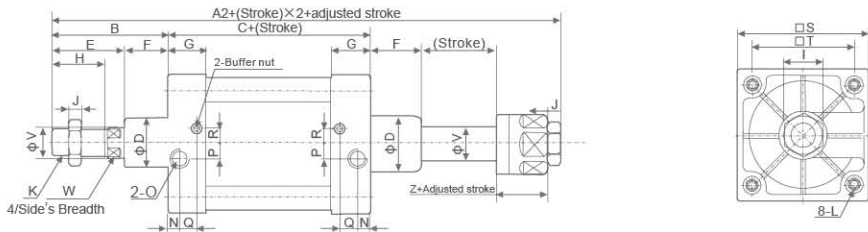
SI



SID



SIJ



Dimension Sheet

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

Bore/Symbol	N	O	P	Q	R	S	T	V	W	Z
32	13.5	G1/8"	4	7.5	7	47	32.5	12	10	21
40	16	G1/4"	6	8.5	9	53	38	16	13	21
50	15.5	G1/4"	8.5	7.5	7.5	65	46.5	20	17	23
63	16.5	G3/8"	7.5	8.5	9	75	56.5	20	17	23
80	16.5	G3/8"	11	8.5	13.5	95	72	25	22	29
100	18.5	G1/2"	13.5	9.5	14.5	115	89	25	22	29
125	23	G1/2"	14	12	14	140	110	32	28	35
160	25	G3/4"	15	12	20	180	140	40	36	40
200	25	G3/4"	15	12	20	220	175	40	36	40

SC/SU Series Standard Cylinder



SC 50 × 100



SU 50 × 100



SCJ 50 × 100-25

Ordering Code

SC

50

×

50

—

25

—

S

□

Series Code

SC:Standard double Action(Tie-rod Type) 32mm-200mm

SCD:Double-shaft Double Action
(Tie-rod Type)

SCJ:Double Axis Double Acting

Adjustable Type(Tie-rod Type)

SU:Standard Double Acting

(Micky Mouse Type)

Cylinder Bore

Stroke

Adjust Storke

25:25mm

50:50mm

75:75mm

Magnet Code

Blank:Without Magnet

S:With Magnet

Fixed Type

Blank:Normal type

LB:Front and fack fixed type

FA:Front cover Fixed type(Front flange type)

FB:Back cover Fixed type(Back flange type)

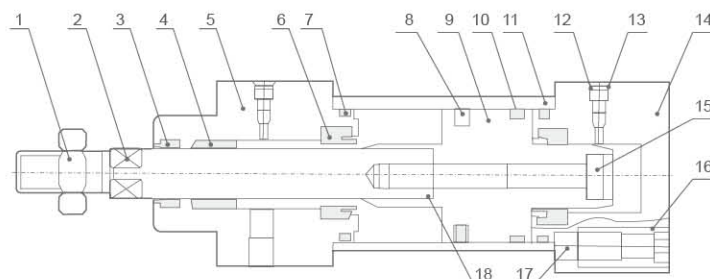
CA:Back cover Fixed type (Single earring)

CB:Back cover Fixed type(Double earring)

TC:Central trunnion Type

TC-M:Central trunnion type attaching foot seat

Internal structure



NO	Designation	NO	Designation
1	Piston Rod Nut	10	Wear Ring
2	Piston rod	11	Barrel
3	Front cover seal ring	12	Buffering Barrel o-ring
4	Bearing	13	Damping adjustable screw
5	Front cover	14	Back cover
6	Buffering o-ring	15	Hex socket screw
7	Pipe wall o-ring	16	Tie Rod Nut
8	Piston o-ring	17	Tie rod
9	Piston	18	Piston rod o-ring

Specification

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

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

SC/SU Series Standard Cylinder

Cylinder theory output

Cylinder inside Diameter	External Diameter of Piston Rod	Motion Pattern	Compression Area(cm ²)	Air Pressure(kgf/cm ²)								
				1	2	3	4	5	6	7	8	9
32	12	Double Action	Press Side	8.04	8.04	16.08	24.12	32.16	40.20	48.24	56.28	64.32
			Pull Side	6.90	6.90	13.80	20.07	27.60	34.50	41.40	48.30	55.20
40	16	Double Action	Press Side	12.56	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100.24
			Pull Side	10.55	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40
50	20	Double Action	Press Side	19.63	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04
			Pull Side	16.49	16.49	32.98	49.47	65.96	82.45	98.94	115.43	139.92
63	20	Double Action	Press Side	31.17	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36
			Pull Side	28.03	28.03	56.06	84.09	112.12	140.15	168.18	196.21	224.24
80	25	Double Action	Press Side	50.26	50.26	100.52	150.70	201.04	251.30	301.56	351.82	402.08
			Pull Side	45.36	45.36	90.72	136.08	181.44	226.80	272.16	317.52	362.88
100	25	Double Action	Press Side	78.53	78.53	157.06	235.59	314.12	392.65	471.18	549.71	628.24
			Pull Side	71.47	71.47	142.94	214.41	285.88	357.35	428.82	500.29	571.76
125	32	Double Action	Press Side	122.72	122.72	245.44	368.16	490.88	613.60	736.32	859.04	981.76
			Pull Side	114.68	114.68	229.36	344.04	458.72	573.40	688.08	802.76	917.44
160	40	Double Action	Press Side	201.06	201.06	402.12	603.18	804.24	1005.3	1206.36	1407.42	1608.48
			Pull Side	188.49	188.49	376.98	565.47	753.96	942.45	1130.94	1319.43	1507.92
200	40	Double Action	Press Side	314.16	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.28
			Pull Side	301.57	301.57	603.14	904.71	1206.28	1507.80	1809.42	2100.99	2412.56

Stroke

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

SCT Series Multi-Position/Booster Cylinder



SCT 100 × 60 × 100

Specification

Working Medium	Air
Operating Temperature Range	0.1~0.9kgf/cm ²
Ensured Pressure Resistance	1.35Mpa
Operating Temperature Range	-5~70℃

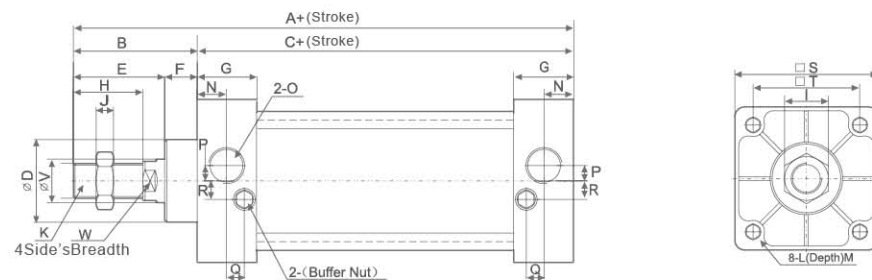
Product instruction

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

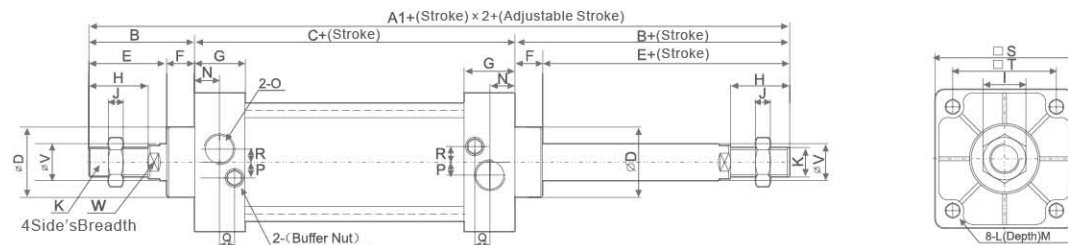
SC/SU Series Standard Cylinder

Overall Dimensions

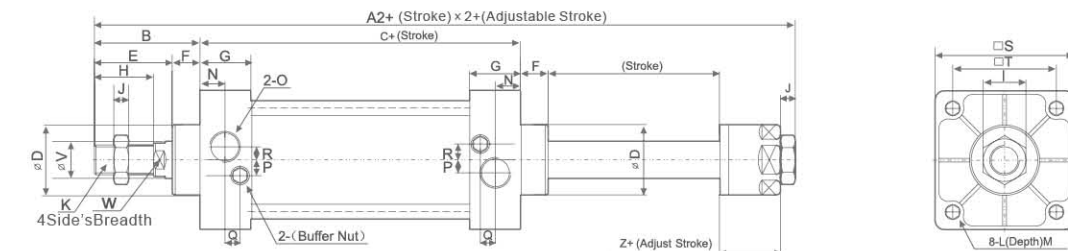
SC



SCD



SCJ



Dimension Sheet

Bore/Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32	140	187	182	47	93	28	32	15	27.5	22	17	6	M10×1.25
40	142	191	185	48	93	32	34	15	27.5	24	17	7	M12×1.25
50	150	207	196	57	93	36	42	15	27.5	32	23	8	M16×1.5
63	153	210	199	57	96	36	42	15	27.5	32	23	8	M16×1.5
80	183	258	242	75	108	47	54	21	33	40	26	10	M20×1.5
100	183	258	248	75	108	47	54	21	33	40	26	10	M20×1.5
125	239	342	363	104	136	56	71	32	40	54	36	10	M27×2
160	289	412	450	121	166	65	93	30	50	72	50	16	M36×2
200	337	494	451	132	180	75	100	57	50	72	50	16	M36×2

Bore/Symbol	L	M	N	O	P	Q	R	S	T	V	W	Z
32	M6×1	9.5	13.7	G1/8"	3.5	7.5	7	45	33	12	10	21
40	M6×1	9.5	13.5	G1/4"	6	8.2	9	50	37	16	14	21
50	M8×1	9.5	13.5	G1/4"	8.5	8.2	9	62	47	20	17	23
63	M8×1.25	9.5	13.5	G3/8"	7	8.2	8.5	75	56	20	17	23
80	M10×1.5	11.5	16.5	G3/8"	10	9.5	14	94	70	25	22	29
100	M10×1.5	11.5	16.5	G1/2"	11	9.5	14	112	84	25	22	29
125	M12×1.75	21	16.5	G1/2"	/	/	/	140	4110	32	28	33
160	M16×2	25	26	G3/4"	/	/	/	180	140	40	36	38
200	M16×2	25	22.5	G3/4"	/	/	/	220	175	40	42	42

MB Series Standard Cylinder(Japanese standard)

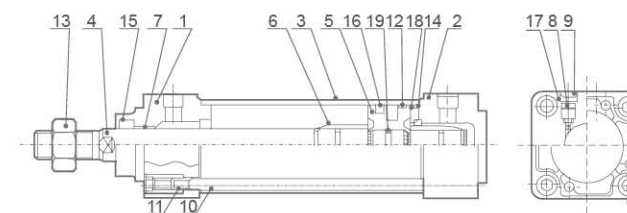


Ordering Code

MB 50 × 50 S

Series Code: Japanese standard, Double Action Type
Cylinder Bore: 32mm-100mm
Stroke: 50
Magnet Code: Blank: Without Magnet, S: With Magnet
Fixed Type: Blank: Basic type, LB: Front and back fixed type, FA: Front cover fixed type (Front flange type), FB: Back cover fixed type (Rear flange type), CA: Back cover fixed type (Single earring), CB: Back cover fixed type (Double earring), TC: Central trunnion type, TC-M: Central trunnion type attaching foot seat

Internal structure



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

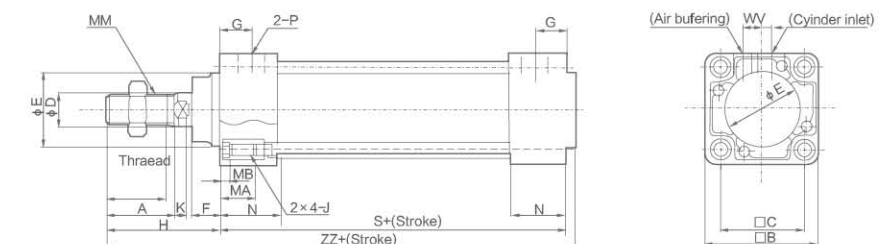
Specification

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

Stroke

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

Overall Dimensions



Dimension Sheet

Bore/Symbol	Stroke range	Thread Length Available	A	□B	□C	ΦD	ΦE	F	G	MA	MB	J	K	MM	N	P	S	V	W	H	ZZ
32	~500	19.5	22	46	32.5	12	30	13	13	16	4	M6×1.0	6	M10×1.25	27	1/8	84	4	6.5	47	135
40	~500	27	30	52	38	16	35	13	14	16	4	M6×1.0	6	M14×1.5	27	1/4	84	4	9	51	139
50	~600	32	35	65	46.5	20	40	14	15.5	16	5	M8×1.25	7	M18×1.5	31.5	1/4	94	5	10.5	58	156
63	~600	32	35	75	56.5	20	45	14	15.5	16	5	M8×1.25	7	M18×1.5	31.5	3/8	94	9	12	58	156
80	~750	37	40	95	72	25	45	20	19	16	5	M10×1.5	10	M22×1.5	38	3/8	114	11.5	14	72	190
100	~750	37	40	114	89	30	55	20	19	16	5	M10×1.5	10	M26×1.5	38	1/2	114	17	15	72	190

XEN/XENG Series Guide Units



Ordering Code

CA2

Series Code

CA2B:Normal Type
CDA2B:Attach Magnet Type

40

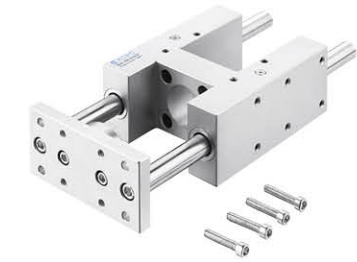
Cylinder Bore
40mm-100mm

100

Stroke



XEN 25-100-GF

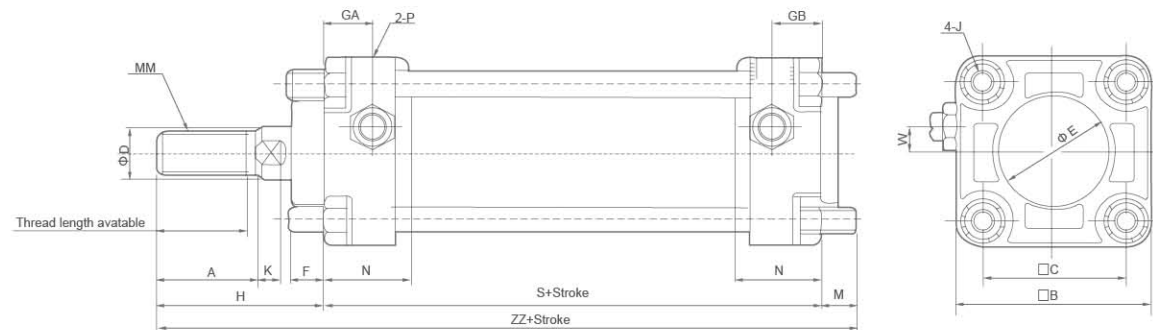


XENG 40-100-GF

Specification

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

Overall Dimensions

Dimension Sheet 

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

Ordering Code

XENG

Series Code

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

50

Bore

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

100

Stroke

GF

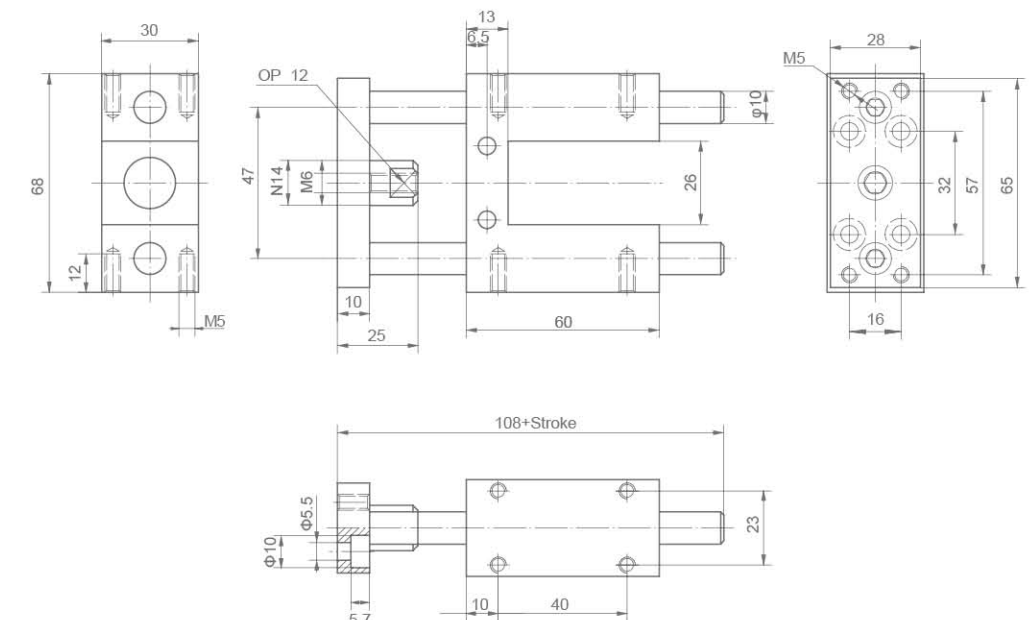
Guide

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

Specification

[illegible]

Overall Dimensions



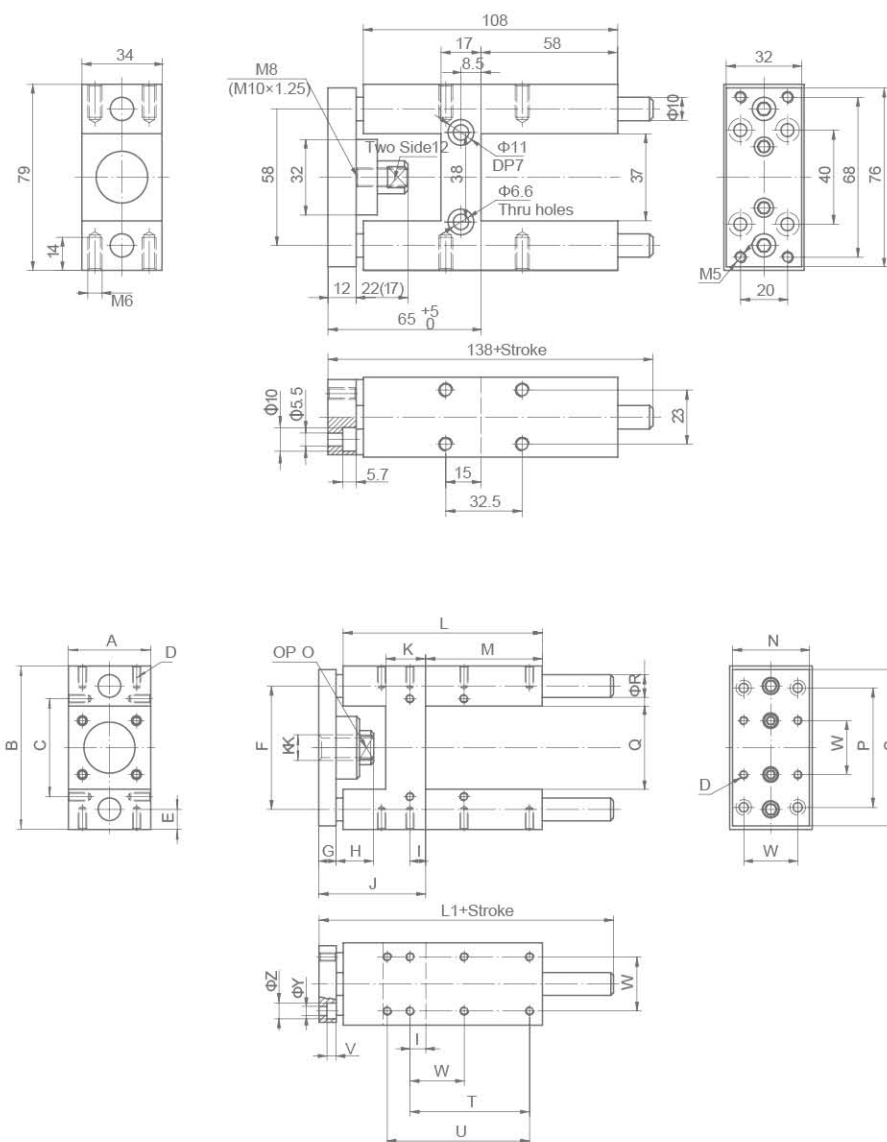
XEN12~16

XEN/XENG Series Guide Units

Overall Dimensions

XEN20-25

*ln()
is the size of 25

Dimension Sheet

Bore(mm)	J	Q	W	P	S	T	U	ΦZ	ΦY	V	L1	O	D	E
32	67 ^{+0.5 0}	50.5 ^{±0.3}	32.5 ^{±0.2}	78 ^{±0.2}	90	70.3 ^{±0.2}	78 ^{±0.2}	11	6.6	6.5	155	14	M6	12
40	75 ^{+0.5 0}	58.5 ^{±0.3}	38 ^{±0.2}	16 ^{±0.2}	110	84 ^{±0.2}	-	11	6.6	6.5	170	17	M6	14
50	89 ^{+1.0 0}	70.5 ^{±0.3}	46.5 ^{±0.2}	20 ^{±0.2}	130	81.8 ^{±0.2}	100 ^{±0.2}	13	9	9	188	22	M8	16
63	89 ^{+1.0 0}	85.5 ^{±0.3}	56.5 ^{±0.2}	20 ^{±0.2}	145	105 ^{±0.2}	-	13	9	9	220	22	M8	16
80	111 ^{+1.0 0}	106 ^{±0.6}	72 ^{±0.2}	25 ^{±0.2}	180	-	-	18	11	11	258	27	M10	20
100	111 ^{+1.0 0}	131 ^{±0.6}	89 ^{±0.2}	25 ^{±0.2}	200	-	-	18	11	11	263	27	M10	20

Bore(mm)	A	B	C	ΦR	F	KK	L	K	M	G	H	I	N
32	50 ^{+0.3}	97 ^{0 -0.4}	61 ^{+0.2}	12	74 ^{+0.2}	M10×1.25	125	24	76	12	20	4.3	45
40	58 ^{+0.3}	115 ^{0 -0.4}	69 ^{+0.2}	16	87 ^{+0.2}	M12×1.25	140	28	81	12	22	11	54
50	70 ^{+0.3}	137 ^{0 -0.5}	85 ^{+0.2}	20	104 ^{+0.2}	M16×1.5	150	34	79	15	25	18.8	63
63	85 ^{+0.3}	152 ^{0 -0.1}	100 ^{+0.2}	20	119 ^{+0.2}	M16×1.5	182	34	111	15	25	15.3	80
80	105 ^{+0.3}	189 ^{0 -0.5}	130 ^{+0.2}	25	147.5 ^{+0.2}	M20×1.5	215	40	128	20	32	21	100
100	130 ^{+0.3}	213 ^{0 -0.5}	150 ^{+0.2}	25	172 ^{+0.2}	M20×1.5	220	40	128	20	32	24.5	120



Mini/Compact Cylinders

Mini/Compact cylinder can save the mounting space maximally, they are widely used on the compact and well-designed machines, the demand is growing fast in the world, Mini cylinder include: MA6432(ISO6432), MA, CM2, CJ2(Stainless Steel), MAL(Aluminum), the bore range is from 8mm to 40mm, Compact cylinder include: ADN, ADVU(ISO standard) CQ2(Japanese Standard) and SDA. the bore range is from 10 mm to 100mm.

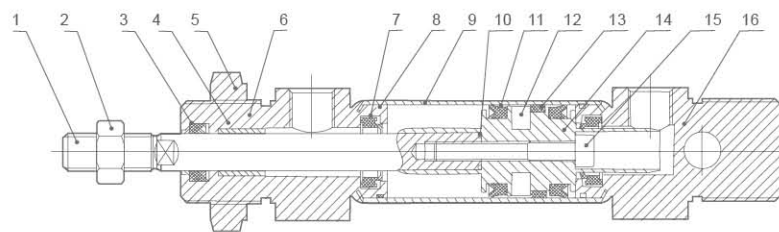
MA6432 Series Stainless Steel Mini Cylinder(ISO6432)



Ordering Code

MA6432		20	×	50	—	25	S	
Series Code	Back Cover Type	Cylinder Bore	Stroke	Adjustable Stroke Type	Magnet Code	Fixed Type		
MA:Double Action Type MSA:Single-Extrusion Type MTA:Single Drawing-in Type MAD:Double-shaft Double ActionType MACD:Double-shaft Double Action Damping Type(Above Φ16) MAJ:Double-shaft and adjustable stroke type MAC:With Cushion Type(Above Φ16)	Blank:Fishtail Type CM:Rounded Type U:Horizontal Type F: Copper Bush Type	8mm-25mm		0~100mm	Blank:Without Magnet S:With Magnet	Blank:Normal type LB:Front and back fixed type FA:Front cover fixed type SDB:Back cover swinging type U:Back cover fixed type		

Internal structure



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

Specification

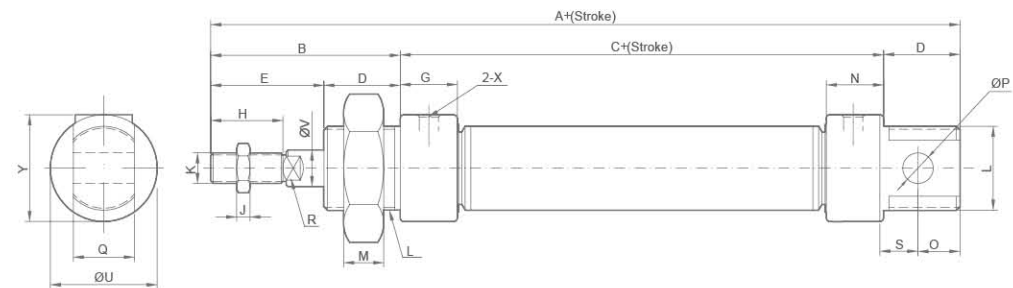
Bore(mm)	8	10	12	16	20	25
Fluid	Air					
Motion pattern	Double Action or single Action					
Ensured Pressure Resistance	15.3kgf/cm ² (1.5Mpa)					
Max.pressure	10.2kgf/cm ² (1.0Mpa)					
Min.pressure	0.5kgf/cm ² (0.05Mpa) 1kgf/cm ² (0.1Mpa)					
Environment and fluid temp	-10~+80°C (Internal Magnetic Install by Tach strap:Type Max:60°C)					
Piston velocity	Rubber Buffer(Standard),Air Buffer(Optional)					
Buffering	50~750mm/s					
Kinetic energy Tolerance(kgf/cm)	0.2	0.3	0.4	0.9	2.7	4
Port Size	M5×0.8			G1/8"		

Stroke

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

MA6432 Series Stainless Steel Mini Cylinder(ISO 6432)

Overall Dimensions



Dimension Sheet

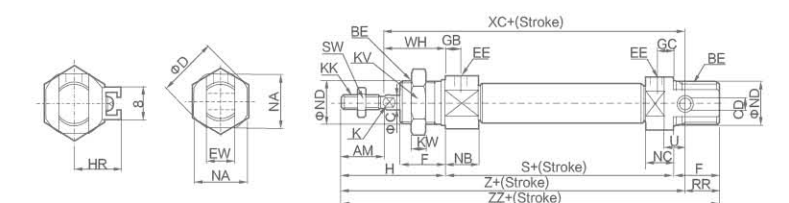
Bore/Symbol	A	B	C	D	E	G	H	M	J	O	K	N	P	S	R	U	V	Q	Y	L	X
8	86	28	46	12	16	9	12	7	3	10	M4×0.7	9	4	6	-	15	4	8	15	M12×1.5	M5
10	86	27	47	12	15	9	12	7	3	10	M4×0.7	9	4	6	-	15	4	8	15	M12×1.5	M5
12	105	37	51	17	20	9	16	6	4.5	14	M6×1	9	6	9	5	20	6	12	20	M16×1.5	M5
16	111	38	56	17	21	12.5	16	6	4.5	13	M6×1	10.5	6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

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

Overall Dimensions



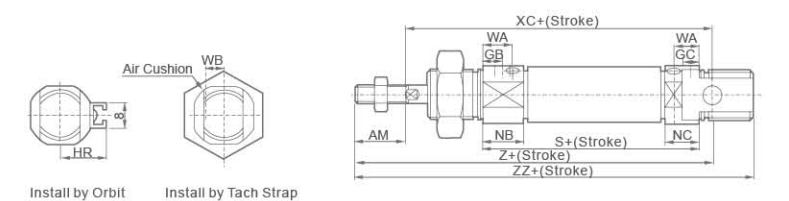
Non Magnet Inside Magnet Rubber Buffer



Dimension Sheet

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

Non Magnet Inside Magnet Rubber Buffer



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

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

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



MAC6432 50 × 50-S



MAC6432 63 × 50-S

Ordering Code

MA6432



50

×

50

—

25

—

S

—



Series Code

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

Back Cover Type

Blank:Fishtail type
CM:Rounded type
U:Horizontal type

Cylinder Bore

32mm-63mm

Stroke

0~100mm

Adjustable Stroke Type

0~100mm

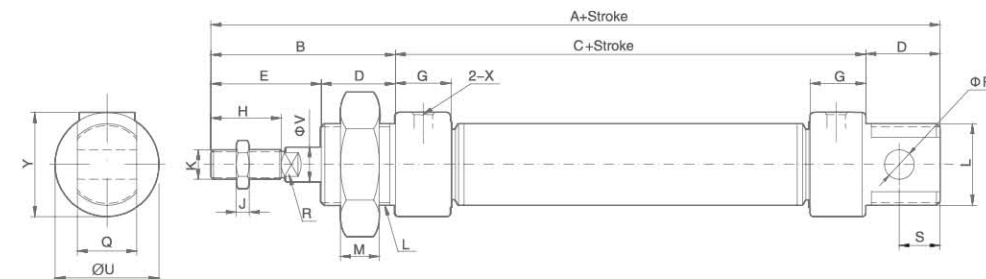
Magnet Code

Blank:Without Magnet
S:With Magnet

Fixed Type

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

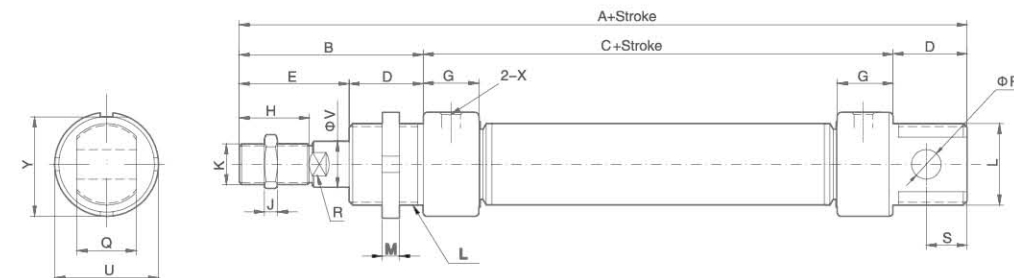
Overall Dimensions



Dimension Sheet

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

Overall Dimensions



Dimension Sheet

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

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

MA Series Stainless Steel Mini Cylinder



MA 25 × 50



MAJ 25 × 50-25

Ordering Code

MA



20

×

50

—

25

—

S

—



Series Code

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

Back Cover Type

Blank:Fishtail type
CM:Rounded type
U:Horizontal type

Cylinder Bore

16mm~40mm

Stroke

0~100mm

Adjustable Stroke Type

0~100mm

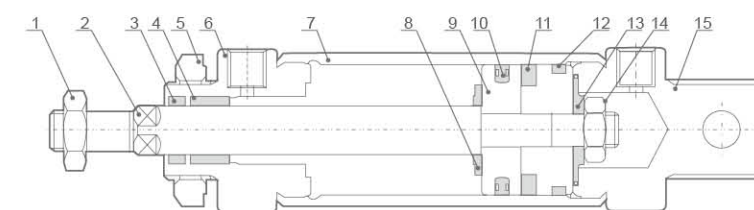
Magnet Code

Blank:Without Magnet
S:With Magnet

Fixed Type

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

Internal structure



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

Specification

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

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

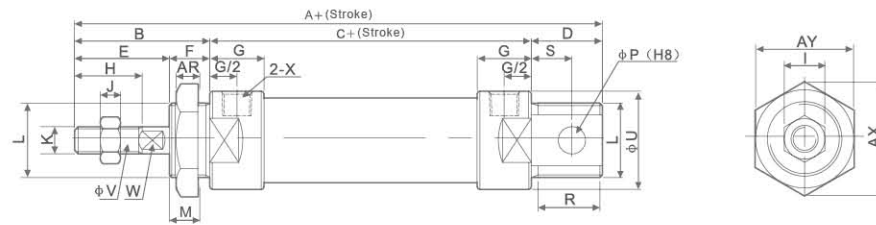
Stroke

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

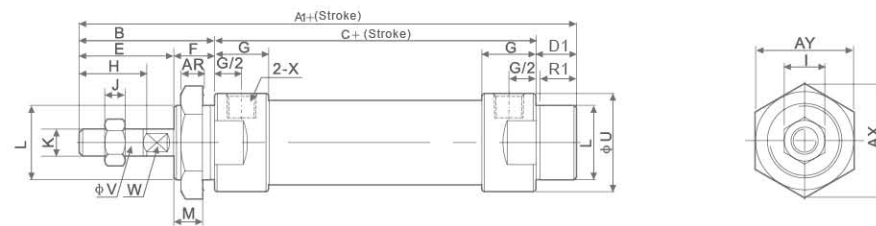
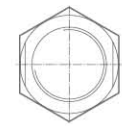
MA Series Stainless Steel Mini Cylinder

Overall Dimensions

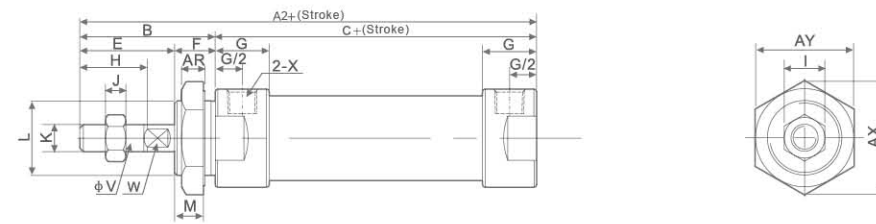
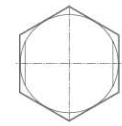
MA



MA-CM



MA-U



Dimension Sheet

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

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

MAL6432 Series Aluminum alloy Mini Cylinder(ISO 6432)



MAL6432 20 × 75

Specification

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

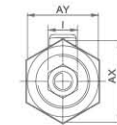
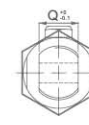
Product instruction

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

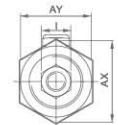
MA Series Stainless Steel Mini Cylinder

Overall Dimensions

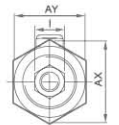
MSA



MSA-CM



MSA-U



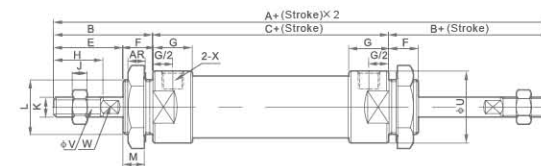
Dimension Sheet

Symbol	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
Bore/Stroke	0-50	51-100	0-50	51-100	0-50	51-100		0-50	51-100								
16	114	139	128	153	98	123	38	60	85	16	16	22	16	10	16	10	5
20	137	162	134	159	116	141	40	76	101	21	12	28	12	16	20	12	6
25	141	166	134	159	120	145	44	76	101	21	14	30	14	16	22	17	6
32	147	172	136	161	120	145	44	76	101	27	14	30	14	16	22	17	6
40	149	174	122	144	122	147	46	76	101	27	14	32	14	16.7	24	17	7

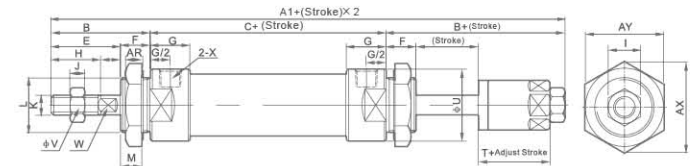
Bore/Symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M6×1	M16×1.5	14	6	12	14	14	9	21	6	5	M5	6	24	22
20	M8×1.25	M22×1.5	10	8	16	19	10	12	27	8	6	G1/8"	7	33	29
25	M10×1.25	M22×1.5	12	8	16	19	12	12	30	10	8	G1/8"	7	33	29
32	M10×1.25	M24×2.0	12	10	16	25	12	15	35	12	10	G1/8"	8	37	32
40	M12×1.25	M30×2.0	12	12	20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

Overall Dimensions

MAD



MAJ



Dimension Sheet

Bore/Symbol	A	A1	B	C	E	F	G	H	I	J	K
16	136	135	38	60	22	16	10	16	10	5	M6×1
20	156	153	40	76	28	12	16	20	12	6	M8×1.25
25	164	161	44	76	30	14	16	22	17	6	M10×1.25
32	164	161	44	76	30	14	16	22	17	6	M10×1.25
40	168	164	46	76	32	14	16.7	24	17	7	M12×1.25

Bore/Symbol	L	M	U	V	W	X	AR	AX	AY	T
16	M16×1.5	14	21	6	5	M5	6	25	22	16
20	M22×1.5	10	29	9	6	G1/8"	7	33	29	19
25	M22×1.5	12	34	10	8	G1/8"	7	33	29	21
32	M24×1.5	12	39.5	12	10	G1/8"	8	37	32	21
40	M30×2.0	12	41.6	16	12	G1/8"	9	47	41	21

MAL Series Aluminum alloy Mini Cylinder



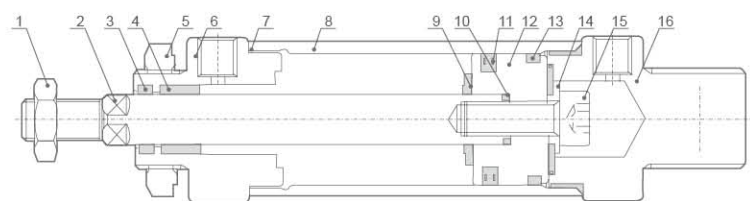
MAL 25 x 50

MALJ 25 x 50-25

Ordering Code

MAL	—	□	20	×	50	—	25	—	S	—	□
Series Code		Back Cover Type	Cylinder Bore	Stroke		Adjustable Stroke Type	Magnet Code		Fixed Type		
MAL: Double Action type		Blank:Fishtail type	16mm-40mm			0~100mm	Blank:Without Magnet		Blank:Normal type		
MSAL: Single Extrusion Type		CM:Rounded type					S:With Magnet		LB:Front and back fixed type		
MTAL:Single Drwing-in Type		U:Horizontal type							FA:Front cover fixed type		
MALD: Double-shaft Double Action Type									SDB:Back cover swinging type		
MALCD: Double-shaft Action Damping Type											
MALJ:Double-shaft And Adjustable Stroke Type											
MALC:With Cushion Type											

Internal structure



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

Specifcation

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

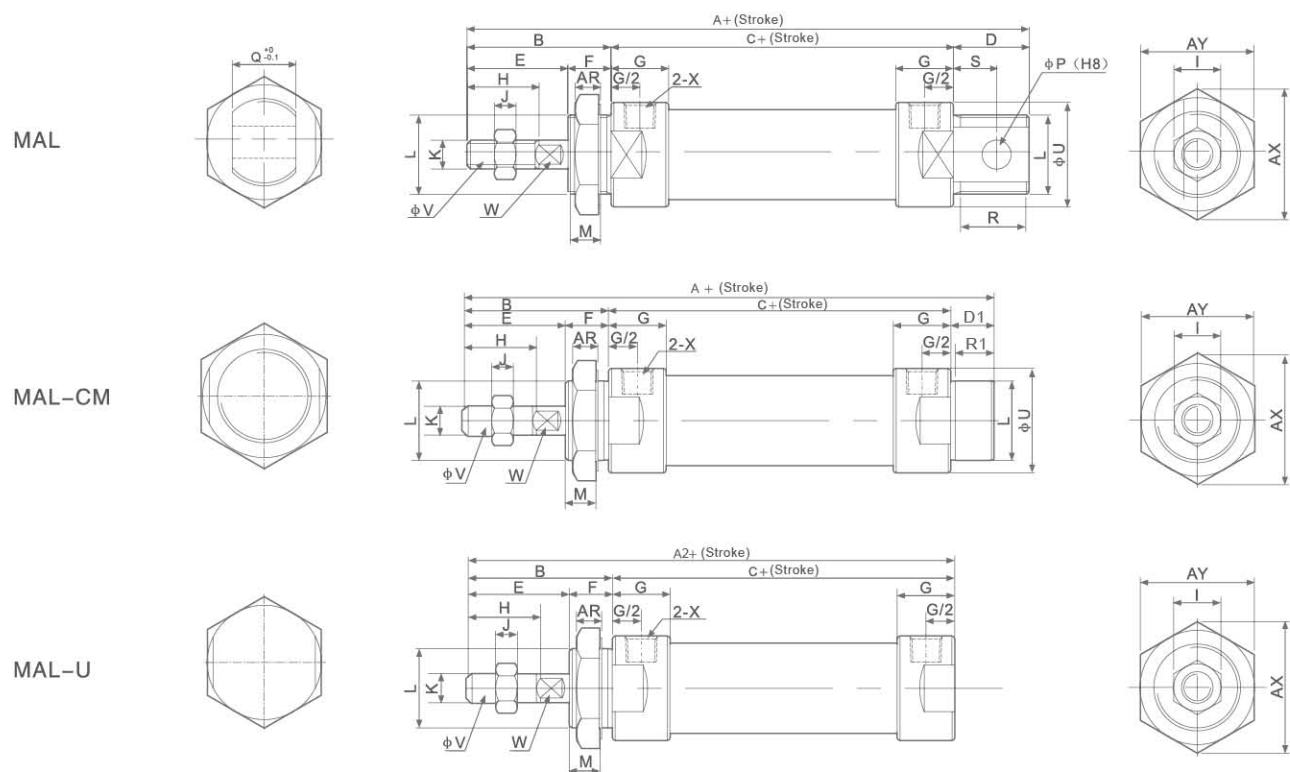
Our Company can also make flat for cylinder covers inlet and outlet position. If you require this, it should be specified.

MAL Series Aluminum alloy Mini Cylinder

Stroke

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

Overall Dimensions



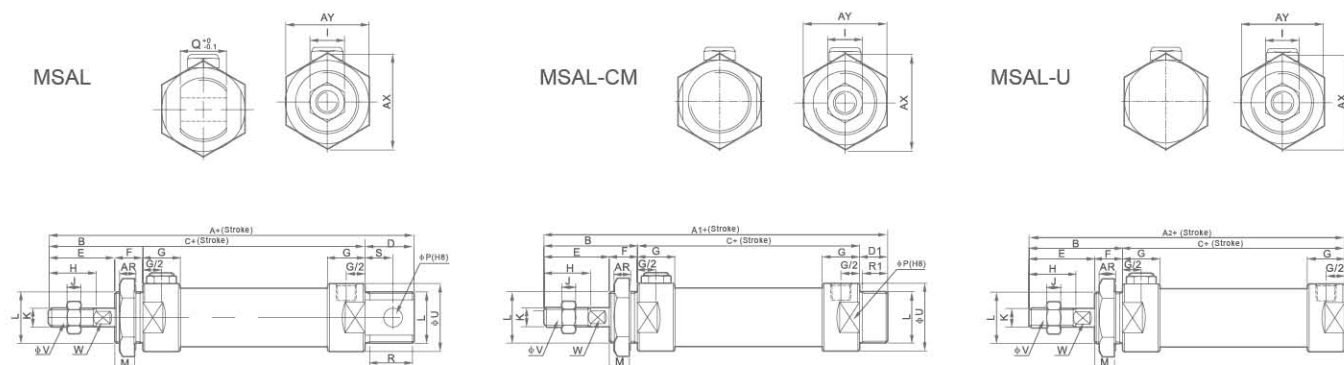
Dimension Sheet

Bore/Symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	110	114	98	38	56	16	16	22	16	10	16	10	5	M6×1
20	131	122	110	40	70	21	12	28	12	16	20	12	6	M8×1.25
25	135	128	114	44	70	21	14	30	14	16	22	17	6	M10×1.25
32	141	128	114	44	70	27	14	30	14	16	22	17	6	M10×1.25
40	165	152	138	46	92	27	14	32	14	22	24	17	7	M12×1.25

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

MAL Series Aluminum alloy Mini Cylinder

Overall Dimensions

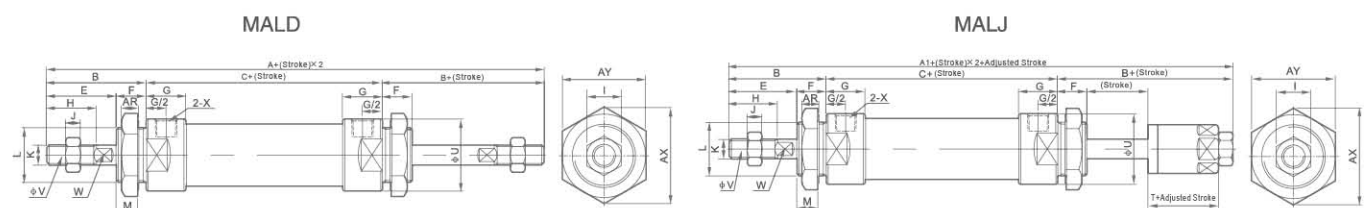


Dimension Sheet

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

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

Overall Dimensions



Dimension Sheet

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

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

CM2 Series Stainless Steel Mini Cylinder

Ordering Code

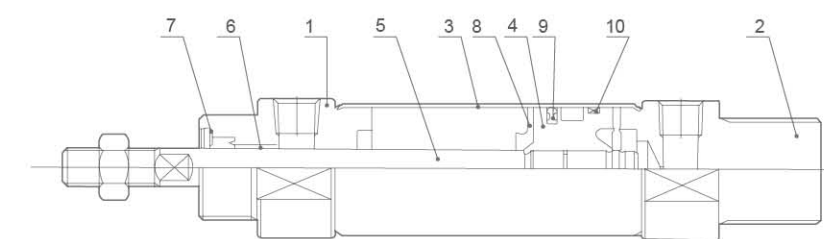


CDM2B 32 x 50

CDM2B 20 x 50

CM2	32	×	150	—	A
Series Code CM2B:Normal Type CDM2B:Attach magnet Type	Cylinder Bore 20mm-40mm		Stroke 0~1000mm		Buffer Blank:Rubber Buffer A:Air Buffer

Internal structure

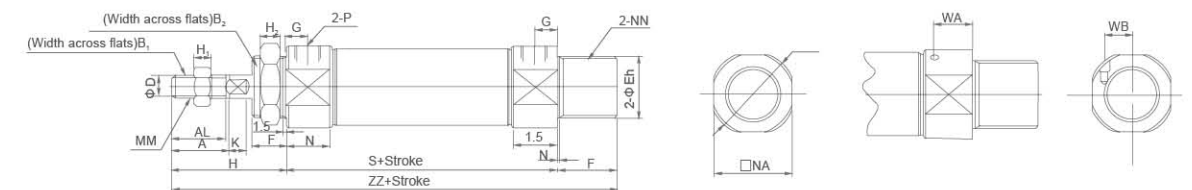


NO	Designation
1	Front Cover
2	Back Cover
3	Barrel
4	Piston
5	Piston rod
6	Oiled Bearing
7	Front Cover Seal Ring
8	Anti-crash cushion
9	Piston Seal
10	Wear Ring

Specification

Bore(mm)	20	25	32	40
Working Medium	Air			
Motion Pattern	Double action			
Ensured Pressure Resistance	15.3kgf/cm ² (1.5Mpa)			
Max.pressure	10.2kgf/cm ² (1.0Mpa)			
Min.pressure	0.5kgf/cm ² (0.05Mpa)			
Operating Temperature Range	-10~+70℃			
Operating Speed Range	50~750mm/s			
Buffering	Rubber buffer(Standard),Air buffer(Optional)			
Margin of Stroke Error(mm)	+1.4 0mm			
Port size	G1/8"	G1/8"	G1/8"	G1/4"

Overall Dimensions



Dimension Sheet

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

CJ2 Series Stainless Steel Type Cylinder



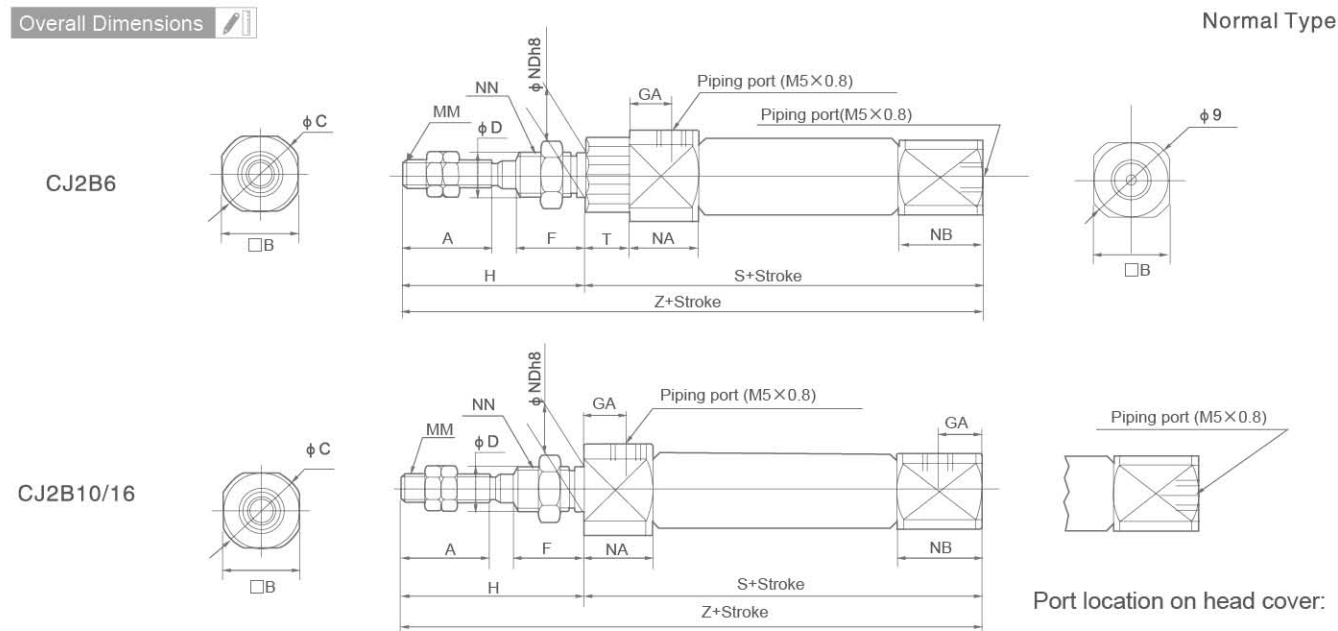
Ordering Code

CJ2	16	×	50	-	S	□
Series Code	Cylinder Bore		Stroke		Action	The type of air hole on the head cover end
CJ2B:Normal Type CDJ2B:Attach Magnet Type	6mm-16mm		0~200mm		S: Single action (with spring return) T: Single action (with spring extent)	Mark Bore φ6 φ10 φ16 BLANK - Vertical R Horizontal

Specification

Bore(mm)	6	10	16
Working Medium	Air		
Motion Pattern	Double action/Single Action Extrusion type/Single Action Drawing-in Type		
Ensured Pressure Resistance	1.05Mpa(10.5kgf/cm ²)		
Max.pressure	0.7Mpa(7.1kgf/cm ²)		
Min.pressure	0.25Mpa(2.5kgf/cm ²)	0.15Mpa(1.5kgf/cm ²)	
Operating Temperature Range	-10~+70℃		
Operating Speed Range	50~750mm/s		
Buffering	Both side Rubber buffer(Standard)		
Margin of Stroke Error(mm)	+1.0 0mm		
Port size	M5×0.8		

Overall Dimensions

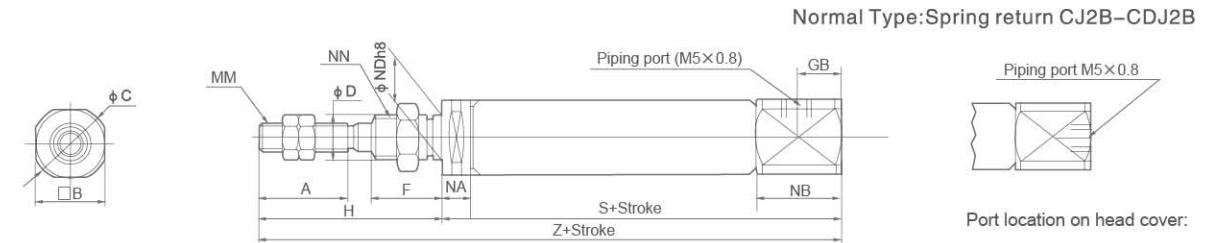


Dimension Sheet

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

CJ2 Series Stainless Steel Type Cylinder

Overall Dimensions

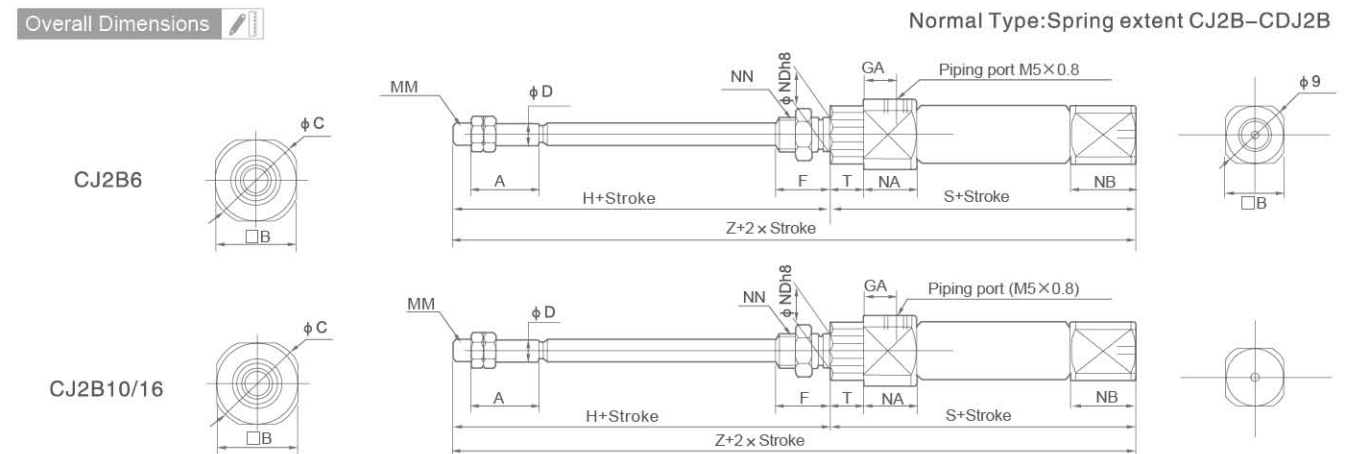


Dimension Sheet

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

Attach Magnet size

Overall Dimensions



Dimension Sheet

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

Attach Magnet size

Special Cylinder



Product instruction

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

ADVU Series Compact Cylinder(ISO6431)



ADVU 40 x 50-S

Ordering Code

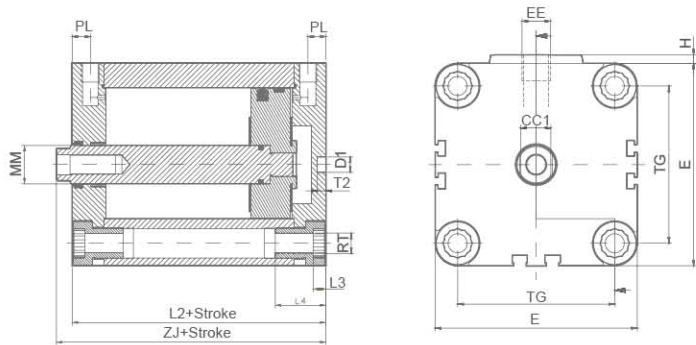
ADVU	50	×	80	—	S	—	B
Series Code	Cylinder Bore		Stroke		Magnet Code		Cog Type
ADVU:Double Action Type	16mm-100mm		Normal Type:		Blank:Without Magnet		Blank:Inner Thread
AEVUZ:Single-Action type			16-25:1-200mm		Magnet		B:Outer Thread
ADVUD:Double-shaft Double Action Type			32-63:1-300mm		S:With Magnet		
ADVUJ:Double-Shaft And Adjustable Stroke Type			80-100:1-400mm				
			Single Action:				
			16-100:1-25mm				

Specification

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

Overall Dimensions

ADVU ADVUS /Type



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

Dimension Sheet

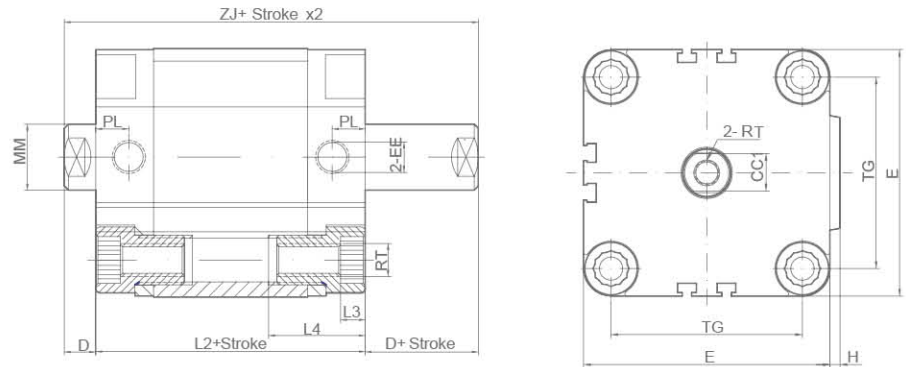
Bore(mm)	D1	E	EE	H	L2	L3	L4	MM	PL	RT	T2	TG	ZJ	CC1
16	6	29	M5	1	38	4	18.5	8	8	M4	4	18	44	6
20	6	36	M5	1.5	38	4	18.5	10	8	M5	4	22	43.5	8
25	6	40	M5	1.5	39.5	4	18.5	10	8	M5	4	26	46	8
32	6	50	G1/8	2	44.5	5	22	12	8	M6	4	32	51.5	10
40	6	60	G1/8	2.5	45.5	5	22	12	8	M6	4	42	52	10
50	6	68	G1/8	2.8	46.5	5	22	16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

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

ADVU Series Compact Cylinder(ISO6431)

Overall Dimensions

ADVUD

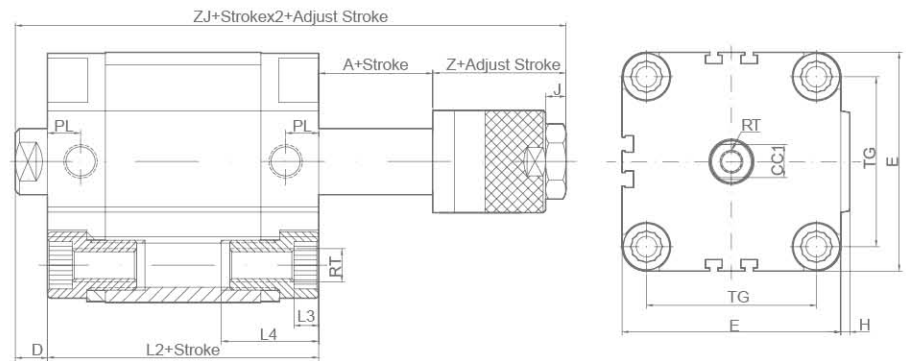


Dimension Sheet

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

Overall Dimensions

ADVUJ



Dimension Sheet

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

ADN Series Compact Cylinder(ISO21287)



ADN 32 × 30-S

Ordering Code

ADN

Series Code

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

50

Cylinder Bore

12mm~63mm

50

Stroke

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

S

Magnet Code

Blank: Without Magnet
S: With Magnet

B

Cog Type

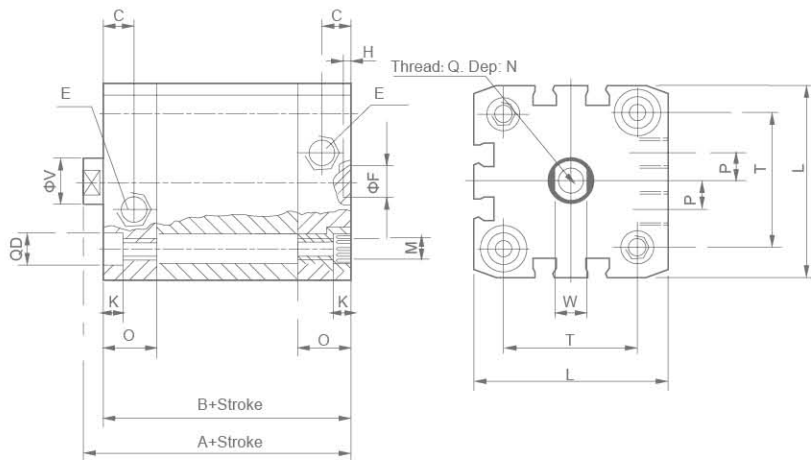
Blank: Inner Thread
B: Outer Thread

Specification

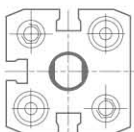
Bore(mm)	12	16	20	25	32	40	50	63
Operation	Double Acting							
Workinh Medium	Air							
Operating Pressure Range	0.1~1.0MPa							
Proof Pressure	1.5MPa							
Operating Temperature Range	-20~70℃							
Operating Speed Range	30~500mm/s							
Port Size	M5×0.8				G1/8"			

Overall Dimensions

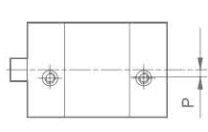
Φ32~63



Φ12~25



Φ12



Dimension Sheet

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

SDA Series Thin Type(Compact) Cylinder



SDA 32 × 25



SDAJ 32 × 25-10

Ordering Code

SDA

Series Code

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

20

Cylinder Bore

12mm~100mm

30

Stroke

5

Adjust Stroke

5mm
15mm
25mm

S

Magnet Code

Blank:Without Magnet
S:With Magnet

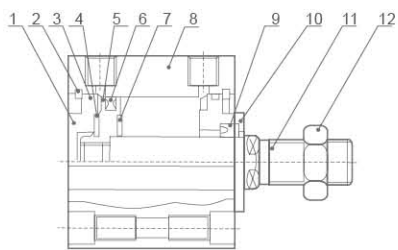
B

Cog Type

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

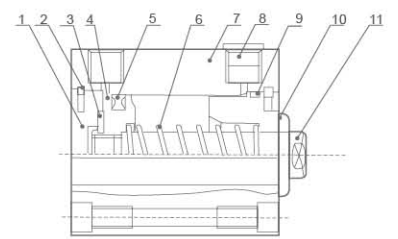
Internal structure

SDA Type



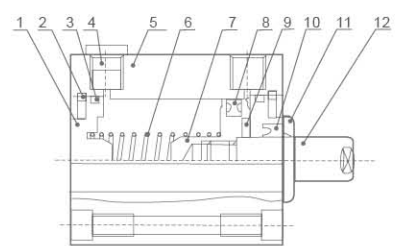
NO	Designation	NO	Designation
1	Back cover	2	Type C buckle ring
3	O-ring	4	Anti-crash cushion
5	Piston	6	Piston O-ring
7	Anti-crash cushion	8	Barrel
9	Front cover seal ring	10	Front cover
11	Piston rod	12	Piston Rod Nut

SSA Type



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

STA Type



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

SDA Series Thin Type(Compact) Cylinder

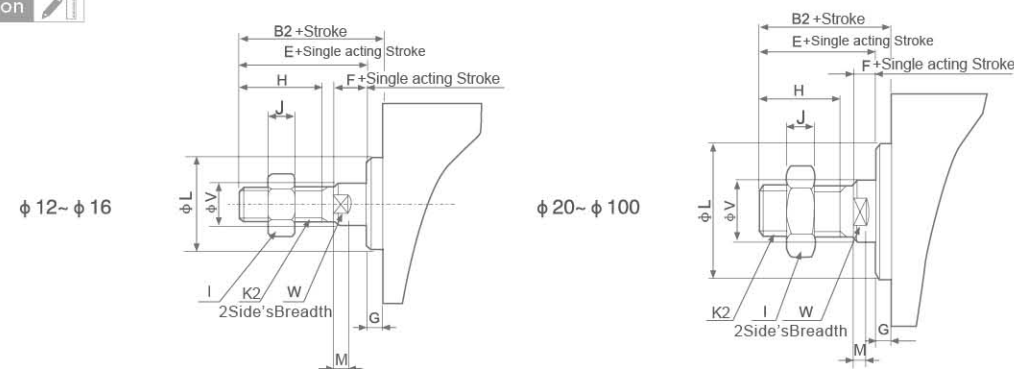
Specification

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

Stroke

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

Outer Thread Dimension



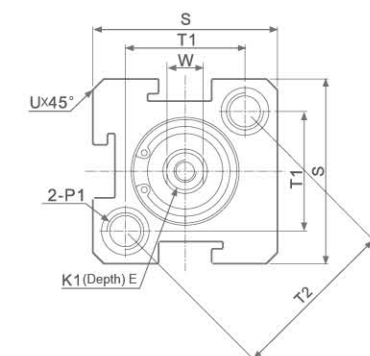
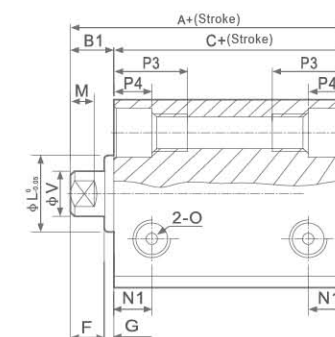
Dimension Sheet

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

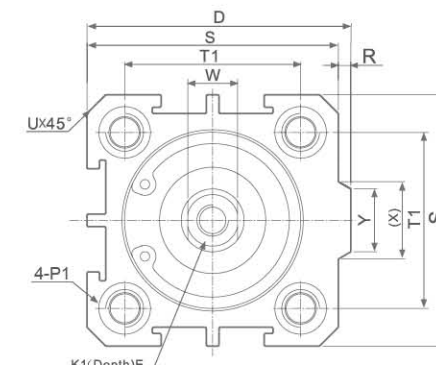
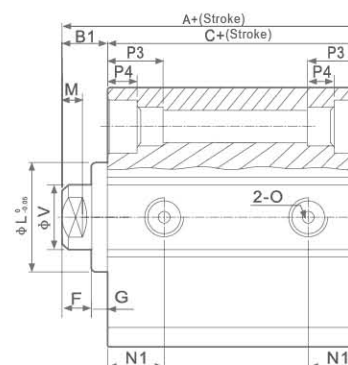
SDA Series Thin Type(Compact) Cylinder

Overall Dimensions

SDA.SDAS Type
Φ12-Φ16



SDA.SDAS Type
Φ20-Φ100



Dimension Sheet

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

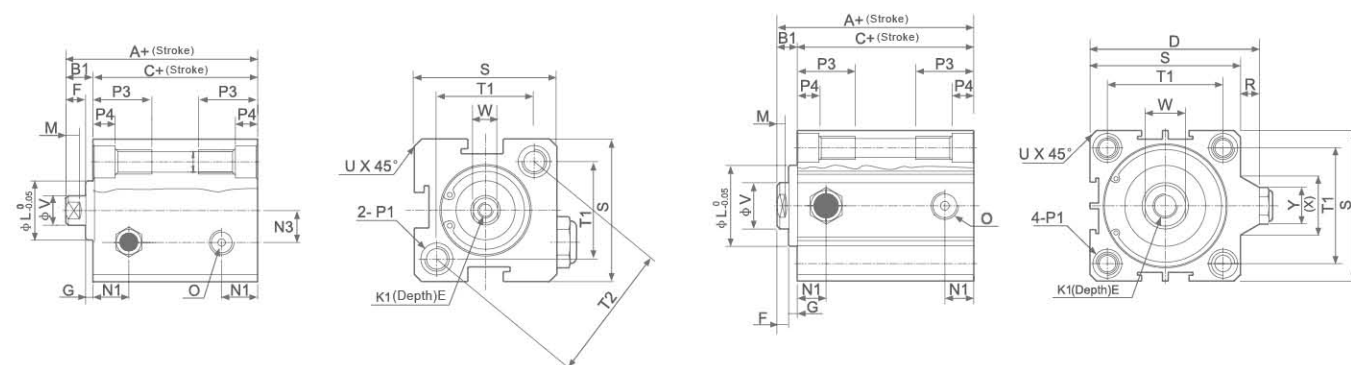
Bore Size/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	Double Sides:Φ10/Thread:M8×1.25/Through ports:Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	Double Sides:Φ11/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	28.7	20
63	-	G1/4"	Double Sides:Φ11/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	Double Sides:Φ14/Thread:M12×1.75/Through ports:Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	Double Sides:Φ17.5/Thread:M14×2/Through ports:Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26

SDA Series Thin Type(Compact) Cylinder

Overall Dimensions

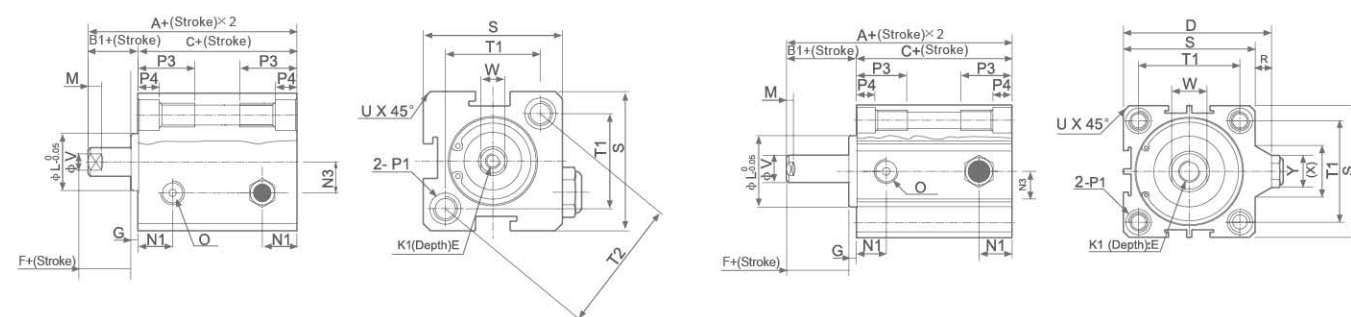
SSA.SSAS Type $\phi 12-\phi 16$

SSA.SSAS Type $\phi 20-\phi 40$



STA.STAS Type $\phi 12-\phi 16$

STA.STAS Type $\phi 20-\phi 40$



Dimension Sheet

Type	Standard Type					Attach Magnet					D	E	F	G	K1	L	M	N1
Bore Stroke/ Symbol	A		B1	C		A		B1	C									
	≤10	>10		≤10	>10	≤10	>10		≤10	>10								
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3×0.5	10.2	2.8	6.3
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3×0.5	11	2.8	7.3
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4×0.7	16	2.8	7.5
25	37	47	6	34	41	47	57	6	41	51	42	10	4	2	M5×0.8	17	2.8	8
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.4	50	12	4	3	M6×1	22	2.8	9
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8×1.25	28	2.8	10

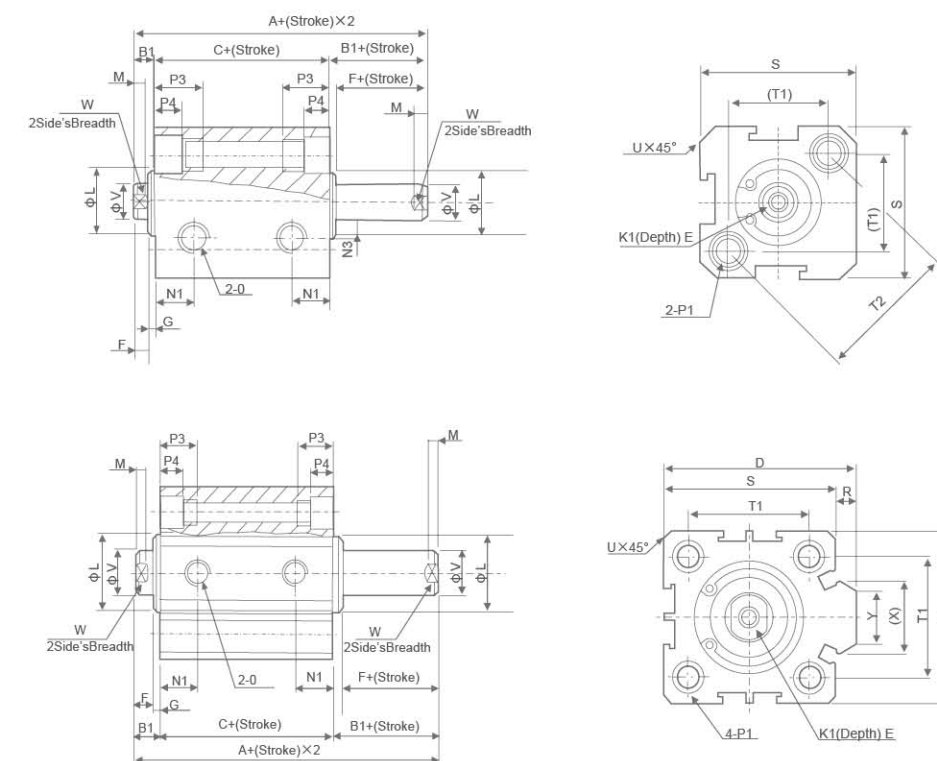
Bore Stroke/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	Double Sides:Φ10/Thread:M8×1.25/Through ports:Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

SDA Series Thin Type(Compact) Cylinder

Overall Dimensions

SDAD.SDADS Type
 $\phi 12-\phi 16$

SDAD.SDADS Type
 $\phi 20-\phi 100$



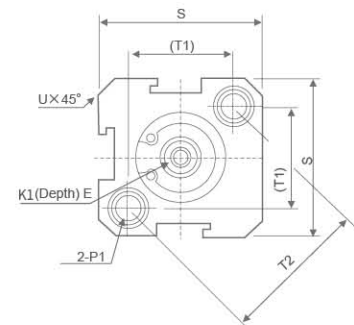
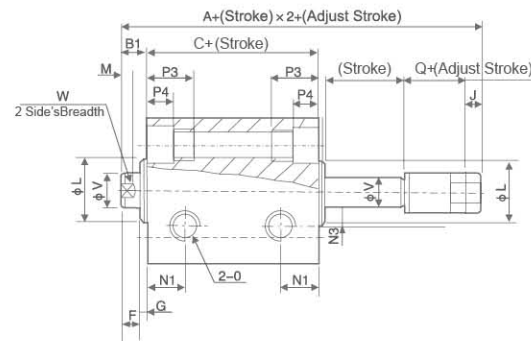
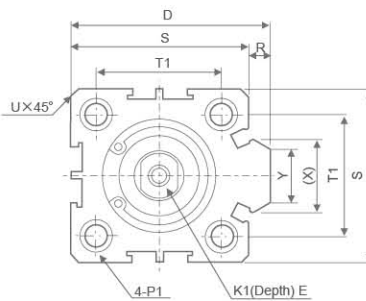
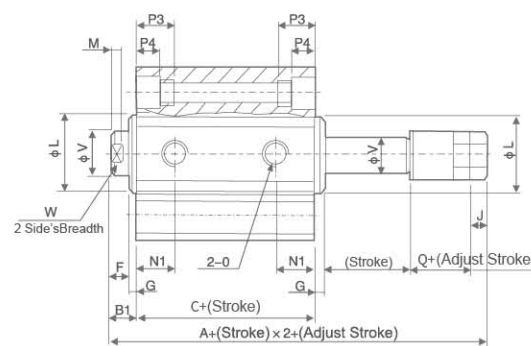
Dimension Sheet

Type Bore Size/Symbol	Standart Type			Attach Magnet			D	E		F	G	K1	L	M	N1
	A	B1	C	A	B1	C		Stroke≤10	Stroke>10						
12	27	5	17	37	5	27	-	6		4	1	M3×0.5	10.2	2.8	6.3
16	29.5	5.5	18.5	39.5	5.5	28.5	-	6		4	1.5	M3×0.5	11	2.8	7.3
20	30.5	5.5	19.5	40.5	5.5	29.5	36	8(Stroke=5/itis6.5)		4	1.5	M4×0.7	16	2.8	7.5
25	33	6	21	43	6	31	42	10(Stroke=5/itis7)		4	2	M5×0.8	17	2.8	8
32	38.5	7	24.5	48.5	7	34.5	50	8	12	4	3	M6×1	22	2.8	9
40	40	7	28	50	7	36	58.5	9	12	4	3	M8×1.25	28	2.8	10
50	46	9	28	56	9	38	71.5	11	15	5	4	M10×1.5	38	2.8	10.5
63	50	9	32	60	9	42	84.5	11	15	5	4	M10×1.5	40	2.8	11.8
80	63	11	41	73	11	51	104	14	20	6	5	M14×1.5	45	4	14.5
100	75	12	51	85	12	61	124	18	20	7	5	M18×1.5	55	4	20.5

Bore Size/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	Double Sides:Φ10/Thread:M8×1.25/Through ports:Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	Double Sides:Φ11/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	Double Sides:Φ11/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	Double Sides:Φ14/Thread:M12×1.75/Through ports:Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	Double Sides:Φ17.5/Thread:M14×2/Through ports:Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26

SDA Series Thin Type(Compact) Cylinder

Overall Dimensions

SDAJ.SDAJS Type
Φ12~Φ16SDAJ.SDAJS Type
Φ20~Φ100

Dimension Sheet

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

Bore Size/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	Double Sides:Φ6.5/Thread:M6×1.0/Through ports:Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	Double Sides:Φ6.5/Thread:M6×1.0/Through ports:Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	Double Sides:Φ6.5/Thread:M8×1.25/Through ports:Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	Double Sides:Φ6.5/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	Double Sides:Φ6.5/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	Double Sides:Φ6.5/Thread:M12×1.75/Through ports:Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	Double Sides:Φ6.5/Thread:M12×1.75/Through ports:Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26

ACQ Series Thin Type(Compact) Cylinder



ACQ 32 × 25



ACQJ 32 × 25-10

Ordering Code

ACQ

20

30

30

S

B

Series Code

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

Cylinder Bore

12~100mm

Stroke

Adjust Stroke

10mm
20mm
30mm
40mm
50mm

Magnet Code

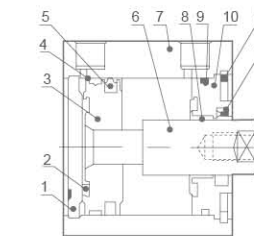
Blank: Without Magnet
S: With Magnet

Cog Type

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

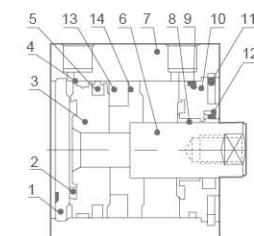
Internal structure

ACQ Type



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

ACQS Type



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

Specification

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

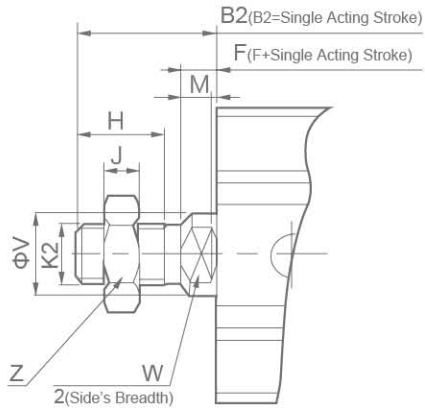
ACQ Series Thin Type(Compact) Cylinder

Stroke

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

Overall Dimensions

Φ20-100
Strokes≤100



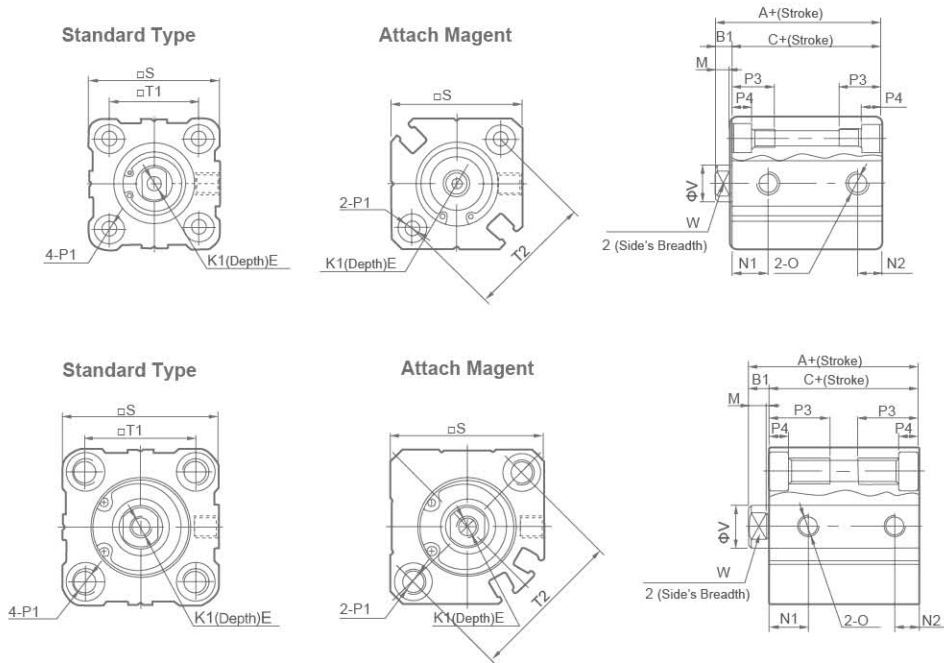
Dimension Sheet

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

ACQ Series Thin Type(Compact) Cylinder

Overall Dimensions

ACQ, ACQS Type:
Φ12~Φ16



ACQ, ACQS Type:
Φ20,Φ25

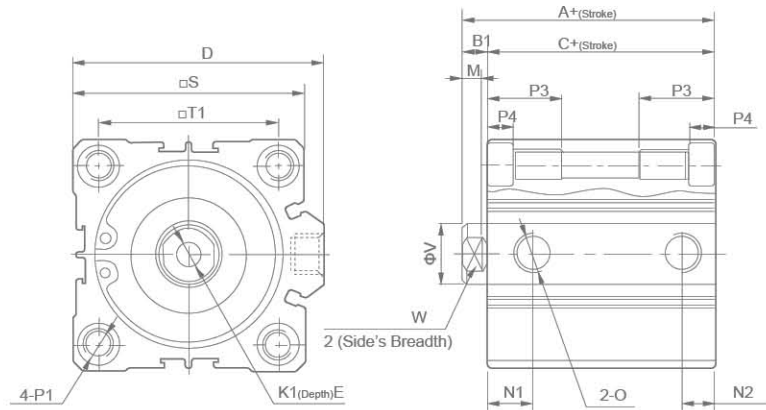
Dimension Sheet

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

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

Overall Dimensions

ACQ Φ32-Φ100
Strokes≤100



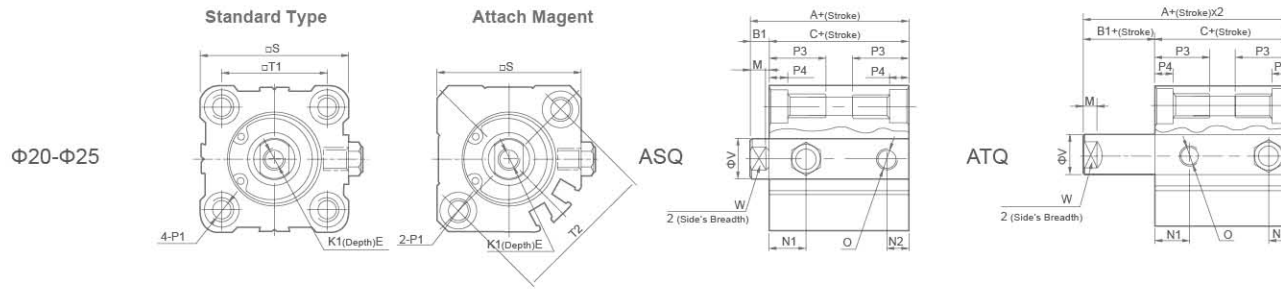
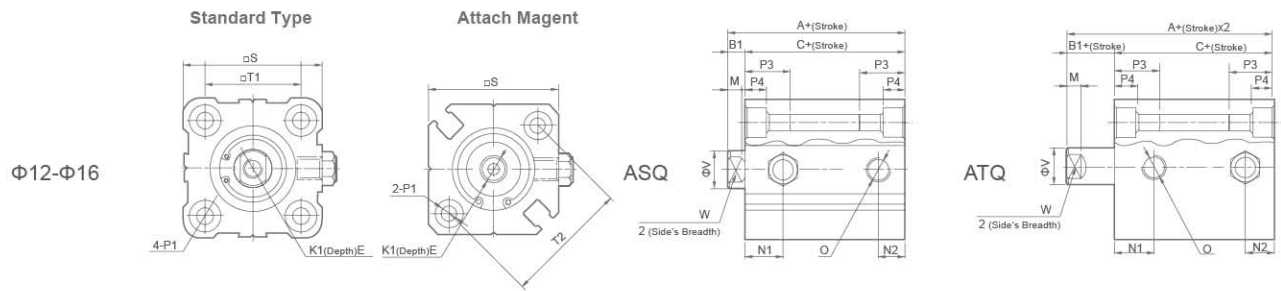
ACQ Series Thin Type(Compact) Cylinder

Dimension Sheet

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

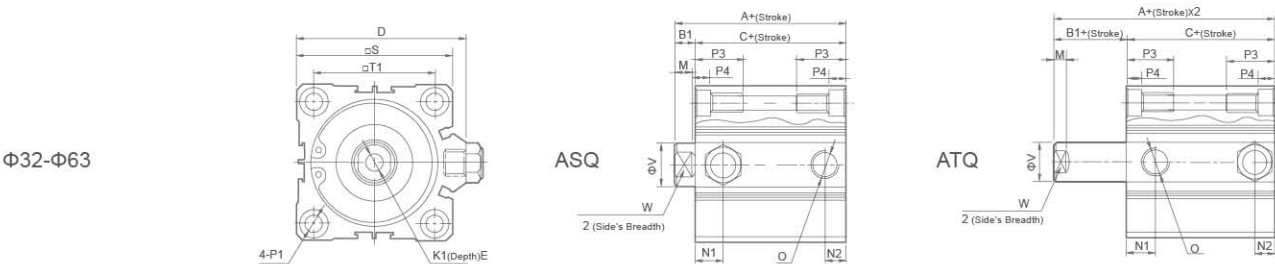
Bore (mm)/Symbol	O	P1	P3	P4	S	T1	T2	V	W
32	G1/8"	Double Sides:Φ9/Thread:M6×1.0/Through ports:Φ5.2	17	7	45	34	-	16	14
40	G1/8"	Double Sides:Φ9/Thread:M6×1.0/Through ports:Φ5.2	17	7	53	40	-	16	14
50	G1/4"	Double Sides:Φ11/Thread:M8×1.25/Through ports:Φ6.5	22	8	64	50	-	20	17
63	G1/4"	Double Sides:Φ14/Thread:M10×1.5/Through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

Overall Dimensions



ACQ Series Thin Type(Compact) Cylinder

Overall Dimensions



Dimension Sheet

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

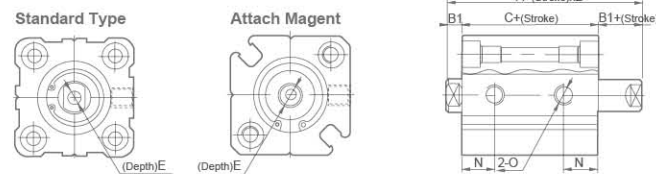
Type	B1	D	E	K1	M	Standard Type	Attach Magnet	Standard Type	Attach Magnet
Bore(mm)/Symbol						N1		N2	
12	3.5	-	6	M3×0.5	3.5	7.5	9	5	7
16	3.5	-	8	M4×0.7	3	8	9.5	5.5	
20	4.5	-	7	M5×0.8	4	9	9.5	5.5	
25	5	-	12	M6×1.0	4.5	11		5.5	
32	7	49.5	13	M8×1.25	6	10.5		7.5	
40	7	57	13	M8×1.25	6	11		8	
50	8	71	15	M10×1.5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

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

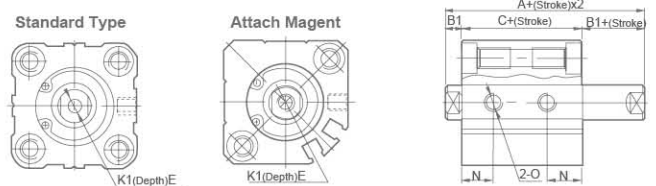
ACQ Series Thin Type(Compact) Cylinder

Overall Dimensions

ACQD Type Φ12-Φ16



ACQD Type Φ20-Φ25



ACQD Type Φ32-Φ100



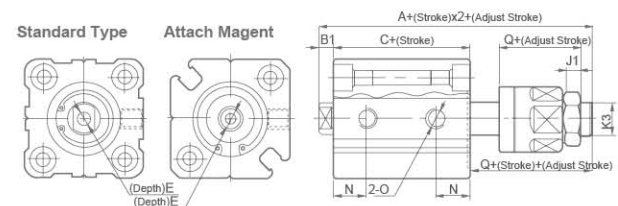
Dimension Sheet

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

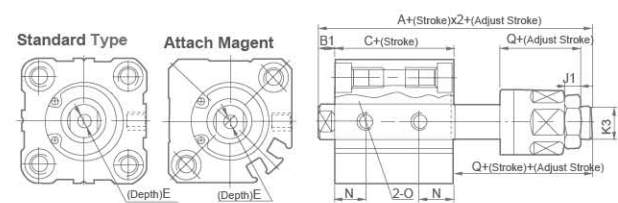
Note: If dimension not remarked, it is same as standard.

Overall Dimensions

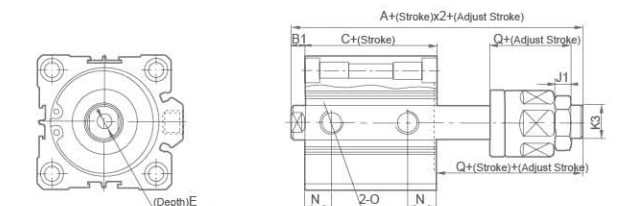
ACQJ Φ12-Φ16



ACQJ Φ20-Φ25



ACQJ Φ32-Φ100



Dimension Sheet

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

CQ2 Series Compact Cylinder



CDQ2B 20 × 25D

CDQ2B 40 × 25

CQ2B 32 × 30-M

Ordering Code

CQ2

Series Code

CQ2: Normal Type
CDQ2: Attach magnet Type

Mounting Style

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

12

Cylinder Bore

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

×

10

Stroke

0~100mm

D

Action

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

Cylinder body (optional)

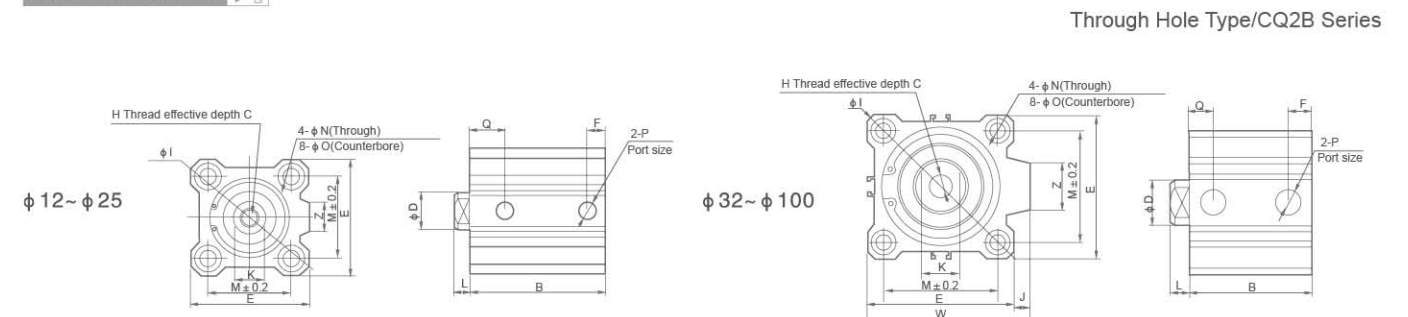
Blank: Inner Thread
M: Outer Thread
C: With Cushion

Specification

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

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

Overall Dimensions



CQ2 Series Compact Cylinder

Dimension Sheet(Double Action)

		Note 2) Long Stroke																	
Model	Stroke range (mm)	B	ΦD	E	F	H	C	ΦI	J	K	L	M	ΦN	ΦO	P	Q	W	Z	
CQ2B12-□D	5~30	17+st	6	25	5	M3×0.5	6	32	-	5	3.5	15.5	3.5	6.5 depth 3.5	M5×0.8	7.5	-	-	
CQ2B16-□D	5~30	18.5+st	8	29	5.5	M4×0.7	8	38	-	6	3.5	20	3.5	6.5 depth 3.5	M5×0.8	8	-	10	
CQ2B20-□D	5~50	19.5+st	10	36	5.5	M6×0.8	7	47	-	8	4.5	25.5	5.5	9 depth 7	M5×0.8	9	-	10	
CQ2B25-□D	5~50	22.5+st	12	40	5.5	M8×1.0	12	52	-	10	5	28	5.5	9 depth 7	M5×0.8	11	-	10	
CQ2B32-□D	5 10~50	23+st	16	45	5.5 7.5	M8×1.25	13	60	4.5	14	7	34	5.5	9 depth 7	M5×0.8 1/8	11.5 10.5	49.5	18	
CQ2B40-□D	5~50	29.5+st	16	52	8	M8×1.25	13	69	5	14	7	40	5.5	9 depth 7	1/8	11	57	18	
CQ2B50-□D	10~50	30.5+st	20	64	10.5	M10×1.5	15	86	7	17	8	50	6.6	11 depth 8	1/4	10.5	71	22	
CQ2B63-□D	10~50	36+st	20	77	10.5	M10×1.5	15	103	7	17	8	60	9	14 depth 10.5	1/4	15	84	22	
CQ2B80-□D	10~50	43.5+st	25	98	12.5	M16×2.0	21	132	6	22	10	77	11	17.5 depth 13.5	3/8	16	104	26	
CQ2B100-□D	10~50	53+st	30	117	13	M20×2.5	27	156	6.5	27	12	94	11	17.5 depth 13.5	3/8	23	123.5	26	

Note 1)The standard stroke is at a distance of each 5 mm.

Note 2)The stroke between 55mm-100mm(55,60,65,70,80,85,90,95,)need to be added thickness of 5,10,15 or 20mm pad.

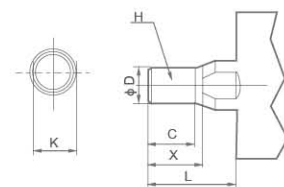
Note 3)External dimensions with bumper are same as standard type as shown above.

Dimension Sheet(Single Action)

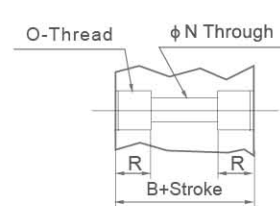
Model	B			ΦD	E	F		H	C	ΦI	J	K	L	M	ΦN	ΦO	P			Q		W	Z
	5st	10st	20st			5st	10st										5st	10st	20st	5st	10st		
CQ2B12-□S	22	27	-	6	25	5	5	M3×0.5	6	32	-	5	3.5	15.5	3.5	6.5 depth 3.5	M5×0.8	-	7.5	7.5	-	-	
CQ2B16-□S	23.5	28.5	-	8	29	5.5	5.5	M4×0.7	8	38	-	6	3.5	20	3.5	6.5 depth 3.5	M5×0.8	-	8	8	-	10	
CQ2B20-□S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

St=Stroke

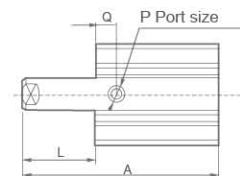
Outer Thread Type



(Inner Thread Type)/CQ2A



Single Action (with Spring extent) φ 12~φ 50



Outer Thread Type

Bore(mm)	C	X	ΦD	H	L	K
12	9	10.5	6	M5×0.8	14	5
16	10	12	8	M6×1.0	15.5	6
20	12	14	10	M8×1.25	18.5	8
25	15	17.5	12	M10×1.25	22.5	10
32	10.5	13.5	16	M14×1.5	28.5	14
40	20.5	23.5	16	M14×1.5	28.5	14
50	26	28.5	20	M18×1.5	33.5	17
63	26	28.5	20	M18×1.5	33.5	17
80	32.5	35.5	25	M22×1.5	43.5	22
100	32.5	35.5	30	M26×1.5	43.5	27

Note3)Inner Thread Type

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

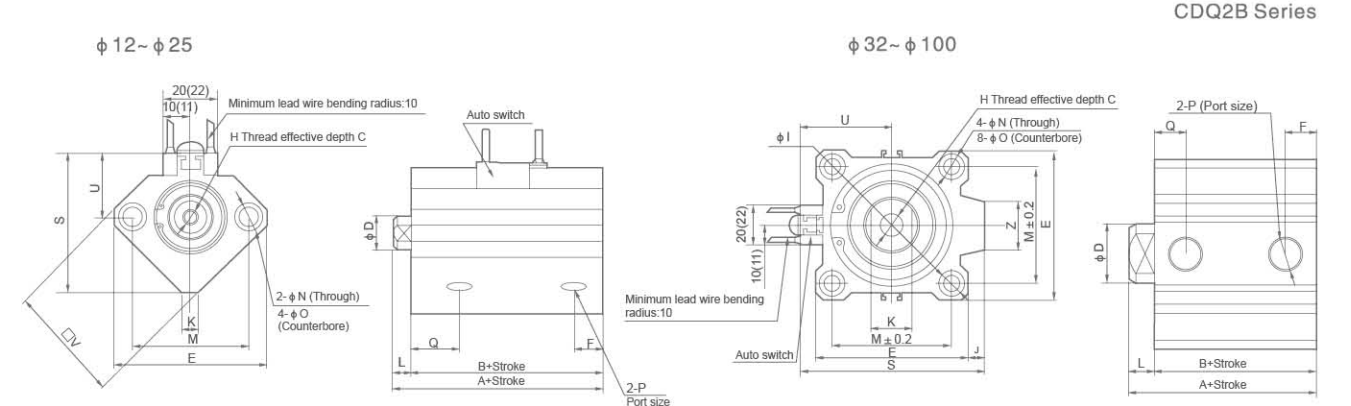
Single Action (with Spring extent)

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

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

CQ2 Series Compact Cylinder

Overall Dimensions



Dimension Sheet(Double Action)

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

Note2) (Long Stroke)

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

Note 1)The standard stroke is at a distance of each 5 mm.

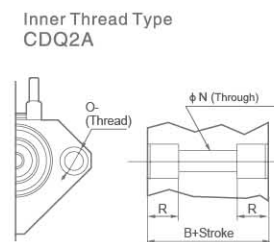
Note 2)The stroke between 55mm-100mm(55,60,65,70,80,85,90,95,)need to be added thickness of 5,10,15 or 20mm pad.

Note 3)External dimensions with rumper are same as standard type as shown above.

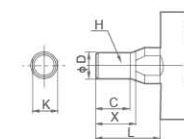
Note 4)The stroke of cylinder in 5 mm can be fixed only one magnetism switch

Note3)Inner Thread Type

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



Outer Thread type



Outer Thread type

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

CJP Series Needle Cylinder



CJPB 10 × 15

Ordering Code

CJP

10

×

5

—

B

Series Code

CJPB:Panel Mount Type

CJPS:Invisible Type

CJPD:Double Action Type

Cylinder Bore

6mm

10mm

15mm

Stroke

0~30mm

Thread Type

Blank:With Thread

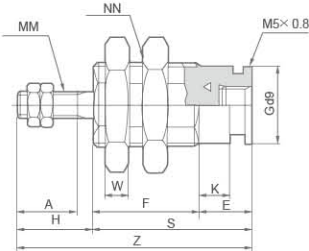
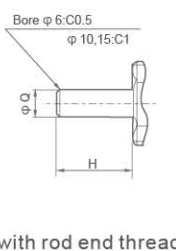
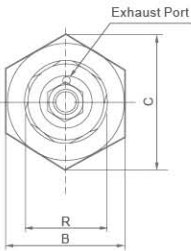
B:No. Thread

Specification

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

Overall Dimensions

Panel Mounting Style
CJPB

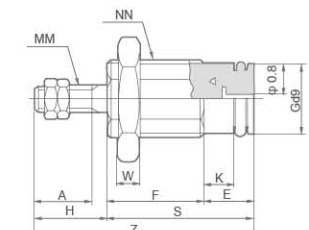
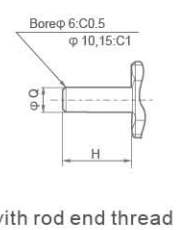
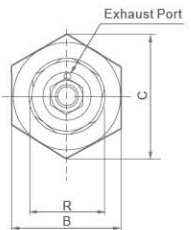


Dimension Sheet

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

Overall Dimensions

(Plug Mounting Style)
CJPS



Dimension Sheet

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

Rotary table/Air gripper/Rodless Cylinders

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



TN Series Double-Shaft Cylinder



TN 20 × 25

Ordering Code

TN **20** × **50** — **S**

Series Code
Double-Shaft
Double Action Type

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

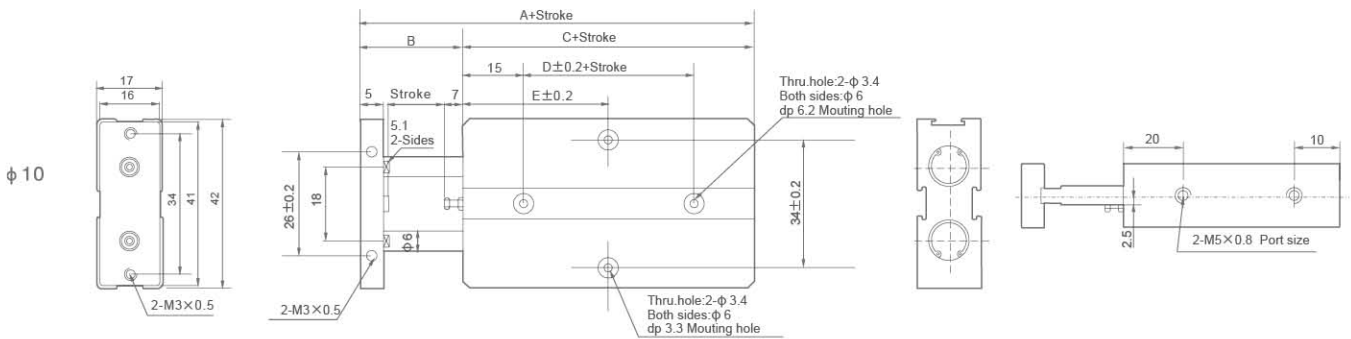
Stroke

Magnet Code
Blank: Without Magnet
S: Attach Magnet

Specification

Bore(mm)	10	16	20	25	32
Motion Pattern	Double action				
Working Medium	Air				
Operating Pressure Range	1~9kgf/cm ²				
Ensured Pressure Resistance	10.5kgf/cm ²				
Operating Temperature Range	-5~+70℃				
Operating Speed Range	100~500mm/s				
Adjustable Stroke	-10~0mm				
Cushion Type	Adjustable Cushion				
Non-rotating Precision	0.4°		0.3°		
Port Size	M5×0.8				G1/8"

Overall Dimensions

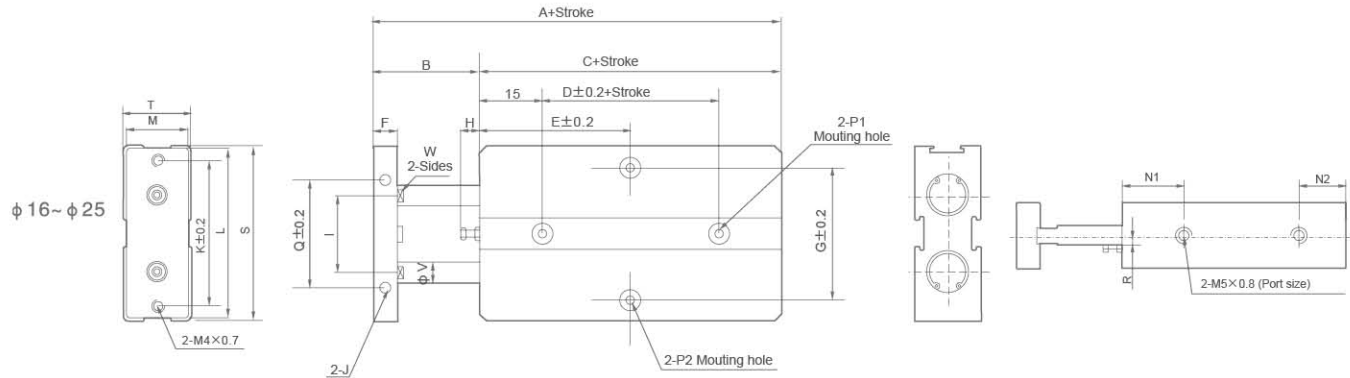


Dimension Sheet

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

TN Series Double-Shaft Cylinder

Overall Dimensions

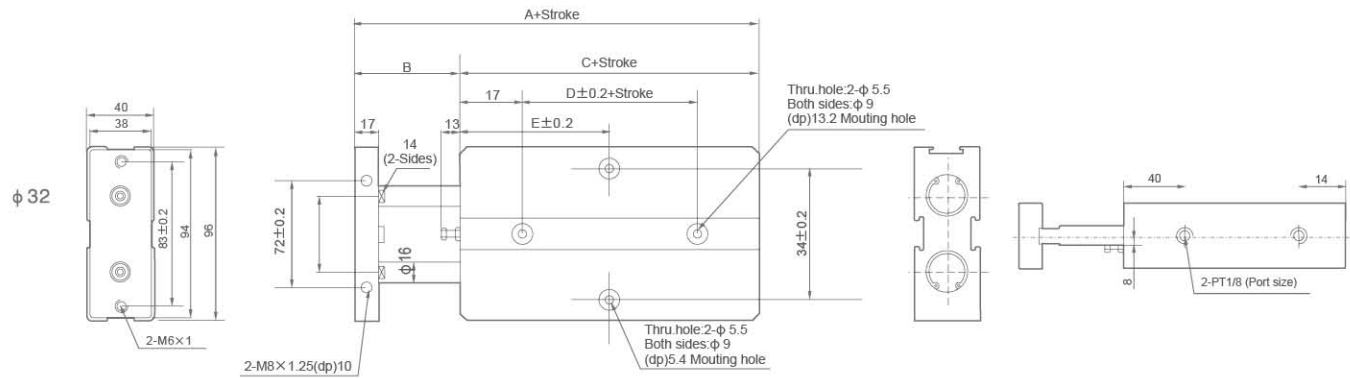


Dimension Sheet

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

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

Overall Dimensions



Dimension Sheet

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

CXS Series Double-Shaft Cylinder



Stroke
 $\Phi 6$: 0~50mm
 $\Phi 10 \sim 32$:
 0~100mm

Bore(mm)	6	10	15	20	25	32
Working Medium	Air					
Motion Pattern	Double action					
Ensured Pressure Resistance	1.05Mpa(10.7kgf/cm ²)					
Max.pressure	0.7Mpa(7.1kgf/cm ²)					
Min.pressure	0.15Mpa(1.5kgf/cm ²)	0.1Mpa(1.0kgf/cm ²)	0.05Mpa(0.51kgf/cm ²)			
Operating Temperature Range	5~+60℃					
Buffering	Both ends buffer					
Structure	Double Power					
Stroke Adjustable Range	Return Stroke: 0~5mm					
Bearing	Slide Bearing/Ball Guide Bearing					
Precision of Slide Bearing	±0.1	±0.15	±0.13	±0.11	±0.1	±0.08
Piston rod Non-rotating Ball Guide Bearing	±0.1	±0.1	±0.07	±0.06	±0.05	±0.04
Port size	M5×0.8 G1/8"					

[illegible]

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

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

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

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

CU Series Free Installation Cylinder



CDU 25 × 30



CDUK 16 × 30

Ordering Code

CU

Series Code
CU:Normal Type
CDU:Attach
Magnet Type

□

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

10

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

×

30

Stroke
0~50mm

—

□

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

Specification

Bore(mm)		6	10	16	20	25	32
Working Medium		Air					
Motion Pattern		Double action/Single Action Extrusion type/Single Action Drawing-in Type					
Ensured Pressure Resistance		1.05Mpa(10.5kgf/cm ²)					
Max. Working-pressure		0.7Mpa(7.1kgf/cm ²)					
Min. operating pressure	Single	0.2MPa	0.15MPa			0.13MPa	
	Double	0.12MPa	0.06MPa			0.05MPa	
Ambient and Medium Temperature		Without auto switch:-10~70℃ (No freezing) With auto switch:-10~60℃ (No freezing)					
Lubrication		Non-lube					
Piston speed		50-500 mm/s					
Cushion		Rubber bumper ^{Note)}					
Rod end thread		Male thread					
Thread tolerance		Class 2					
Cushion		Both ends buffer					
Margin of Stroke Error(mm)		+1.0 0 mm					
Precision of Piston rod with Non-rotating		±0.8°				±0.5°	
Port Size		M5×0.8				G1/8"	

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

Standard Stroke

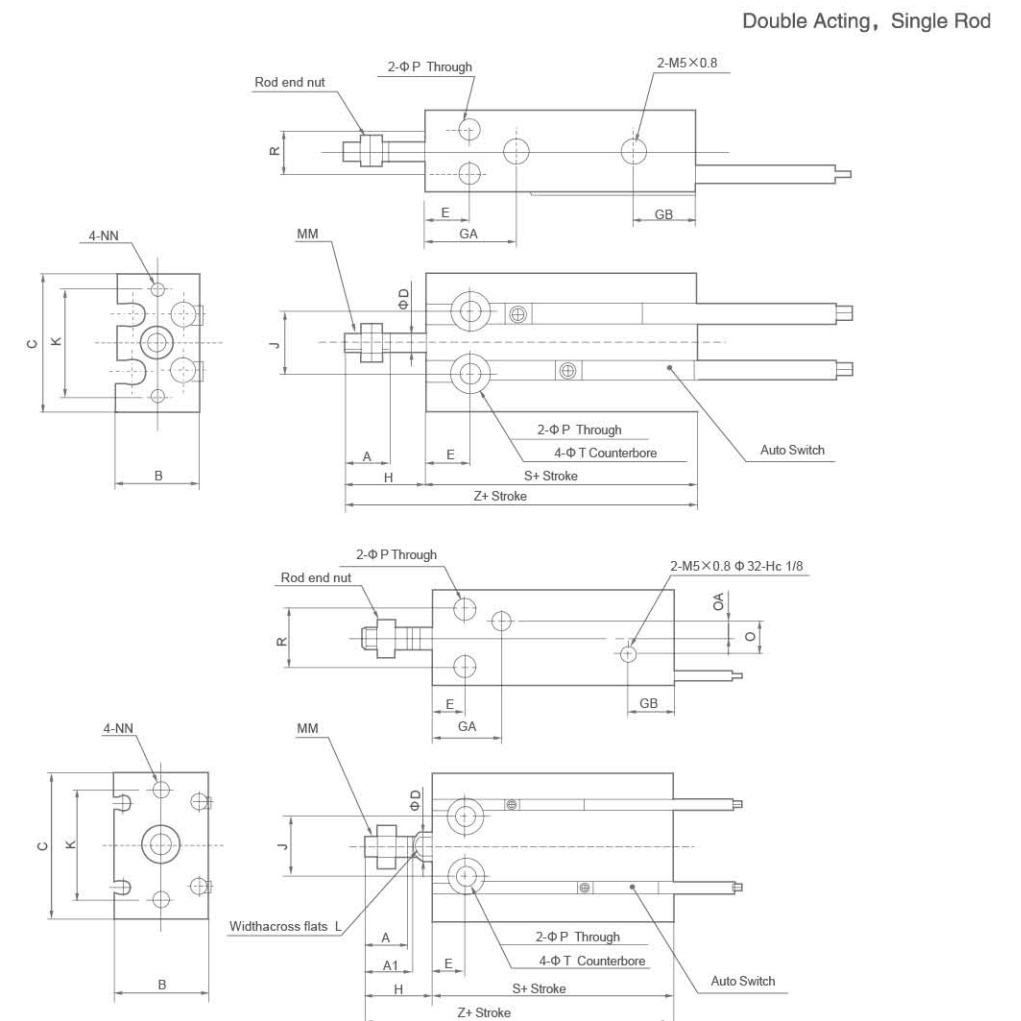
Action Type	Bore size(mm)	Standard stroke(mm)
Double Acting	6,10,16	5,10,15,20,25,30
	20,25,32	5,10,15,20,25,30,40,50
Single Acting	6,10,16,20,25,32	5,10,15

CU Series Free Installation Cylinder

Overall Dimensions

φ 6~φ 10

φ 16~φ 32



Dimension Sheet

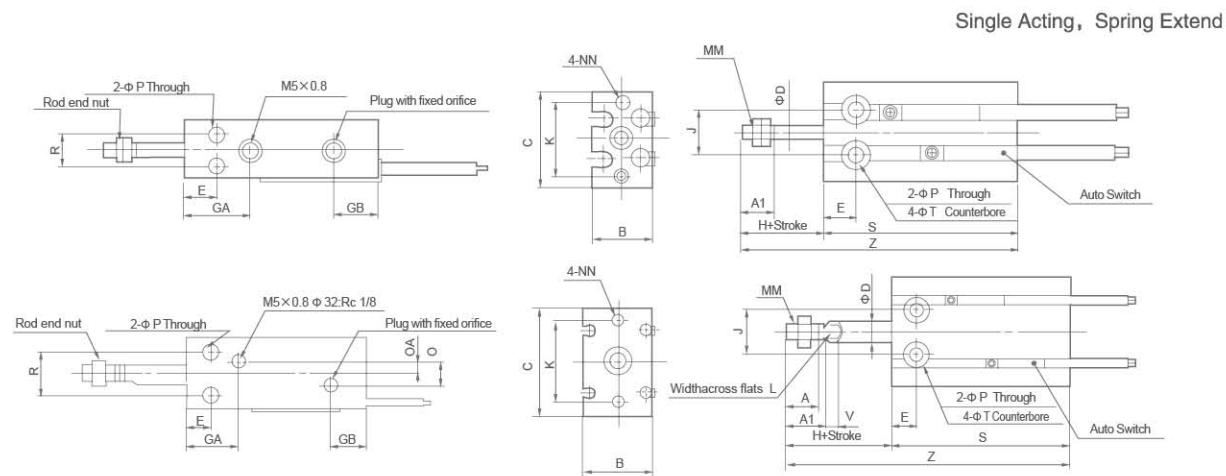
Bore size(mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	MM
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4×0.7
16	11	12.5	20	32	6	7	16.5 ^{Note)}	11.5	16	25	14	5	M5×0.8
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25
32	19.5	22	40	62	12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

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

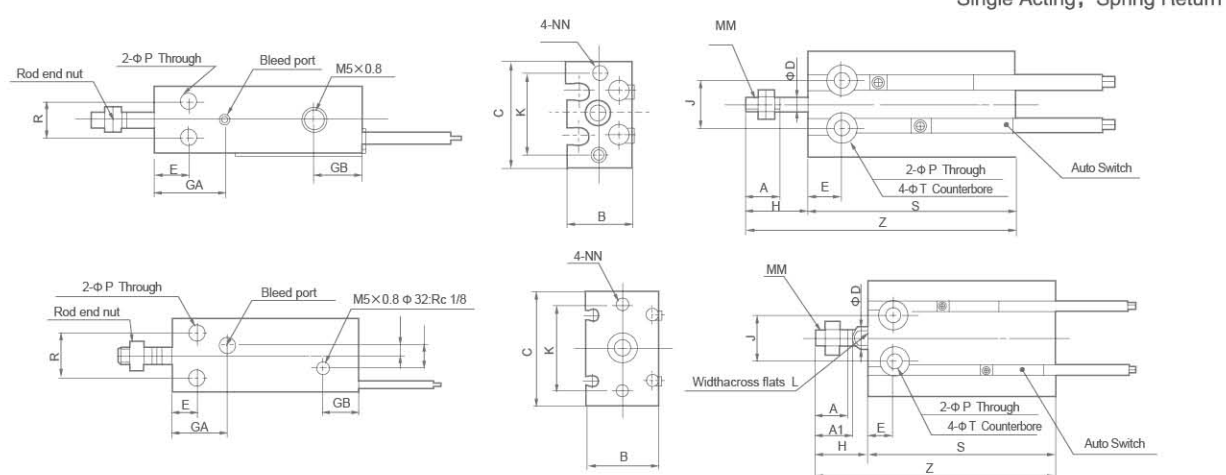
■ Note)5 Stroke(CU16-5D):14.5mm

CU Series Free Installation Cylinder

Overall Dimensions



Overall Dimensions



Dimension Sheet

Bore size(mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	MM	NN	P
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5	M3×0.5 (depth) 5	3.2
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4×0.7	M3×0.5 (depth) 5	3.2
16	11	12.5	20	32	6	7	16.5	11.5	16	25	14	5	M5×0.8	M4×0.7 (depth) 6	4.5
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0	M5×0.8 (depth) 8	5.5
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25	M5×0.8 (depth) 8	5.5
32	19.5	22	40	62	12	11	23	12.5	27	48	24	10	M10×1.25	M6×1.0 (depth) 9	6.6

Bore size (mm)	Q	QA	R	T	V (Note)	Without Auto Switch						With Auto Switch					
						S			Z			S			Z		
						5st	10st	15st	5st	10st	15st	5st	10st	15st	5st	10st	15st
6	-	-	7	6 (depth) 4.8	-	38	43	48	56	66	76	38	43	48	56	66	76
10	-	-	9	6 (depth) 5	-	41	46	56	62	72	87	41	46	56	62	72	87
16	4	2	12	7.6 (depth) 6.5	3.5	45	50	60	66	76	91	45	50	60	66	76	91
20	9	4.5	16	9.3 (depth) 8	5	41	46	56	65	75	90	51	56	66	75	85	100
25	9	4.5	20	9.3 (depth) 9	5	45	50	60	73	83	98	55	60	70	83	93	108
32	13.5	4.5	24	11 (depth) 11.5	5	47	52	62	79	89	104	57	62	72	89	99	114

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

STM Series Slide Bearing Cylinder



STMB 16 × 50

STMS 16 × 125

Ordering Code

STM

Series Code
Sliding Type

B

Mounting type
B: Body fixed Type
S: Sliding Block Fixed Type

16

×

50

Cylinder Bore
10mm
16mm
20mm
25mmStroke
0~250mm

Specification

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

Standard Stroke

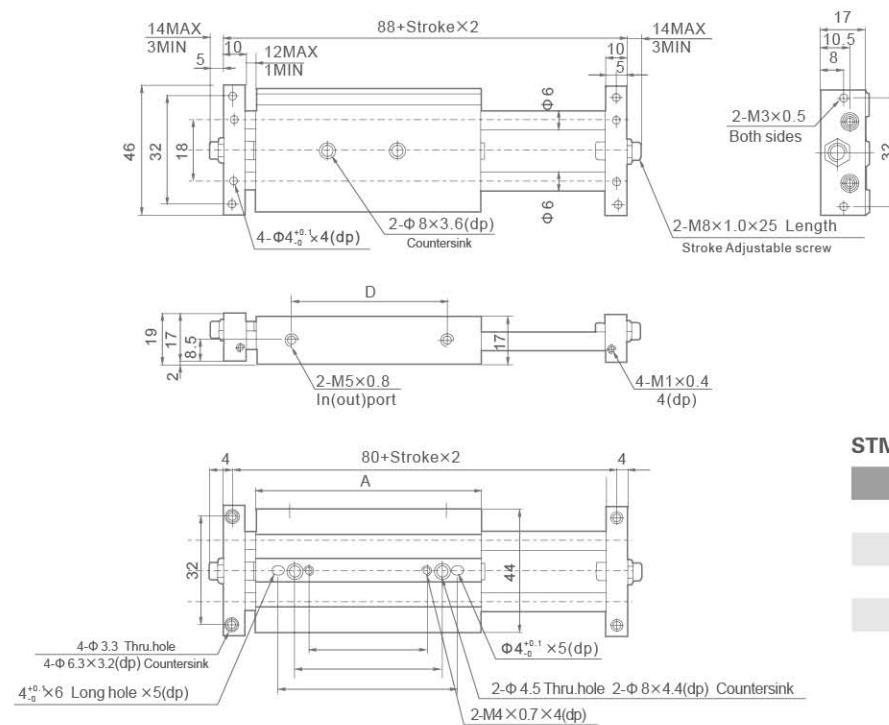
Bore size(mm)	Standard stroke(mm)											
10	25	50	75	100								
16	25	50	75	100	125	150	175	200				
20	25	50	75	100	125	150	175	200	250			
25	25	50	75	100	125	150	175	200	250			

Theoretical thrust

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

STM Series Slide Bearing Cylinder

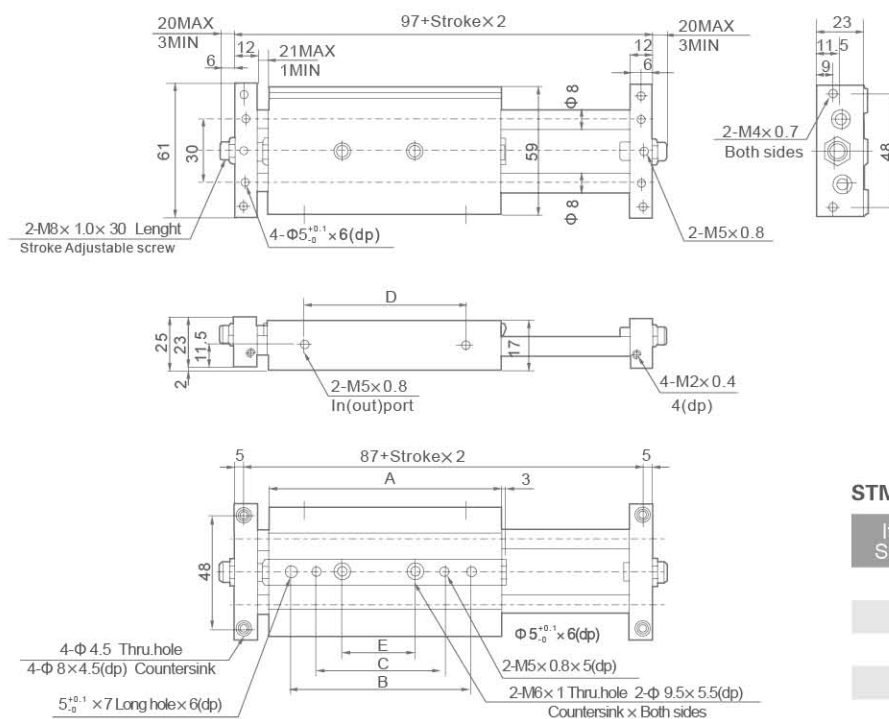
Overall Dimensions



STMB-10

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

Overall Dimensions

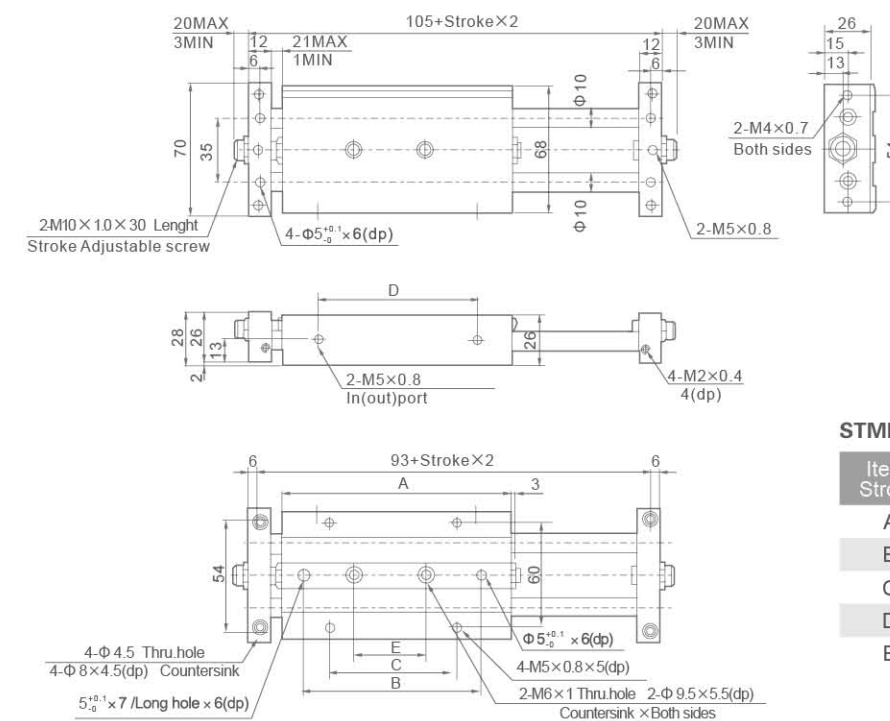


STMB-16

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

STM Series Slide Bearing Cylinder

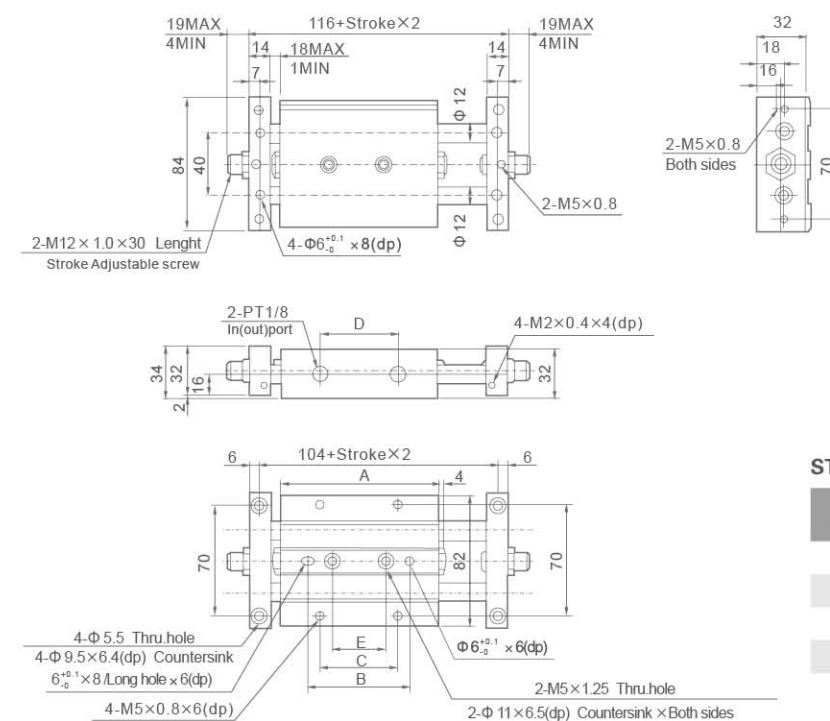
Overall Dimensions



STMB-20

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

Overall Dimensions

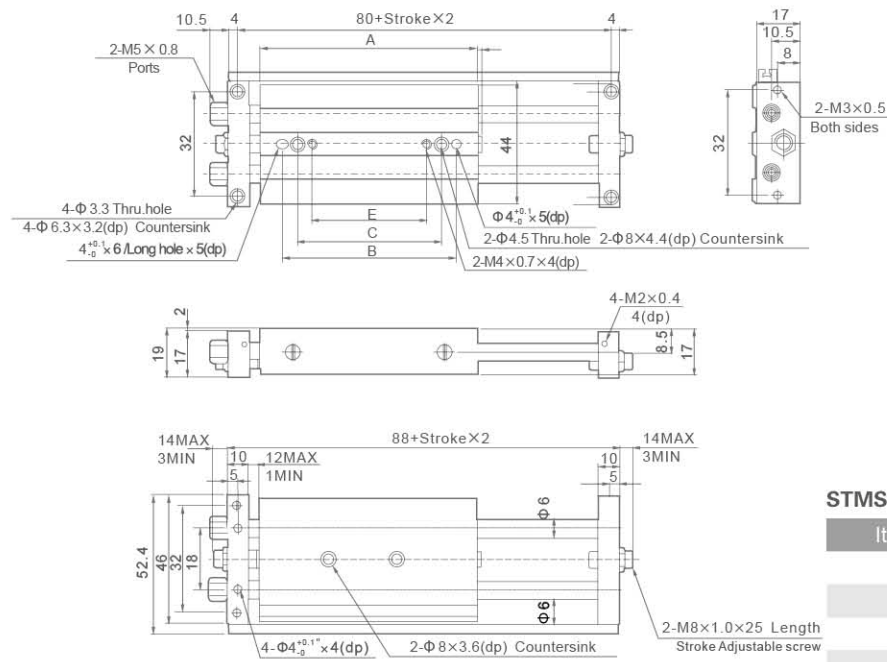


STMB-25

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

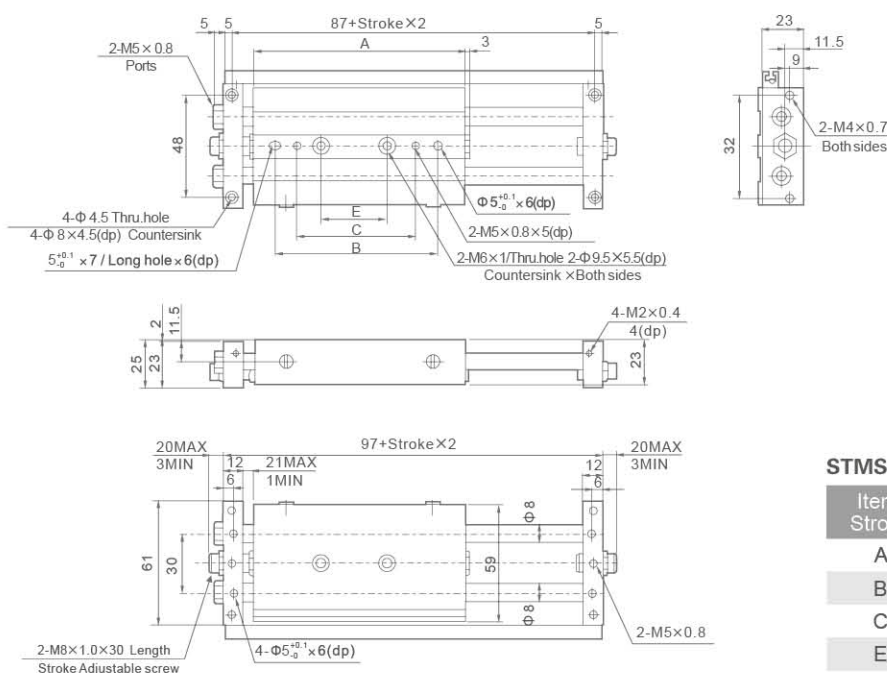
STM Series Slide Bearing Cylinder

Overall Dimensions



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

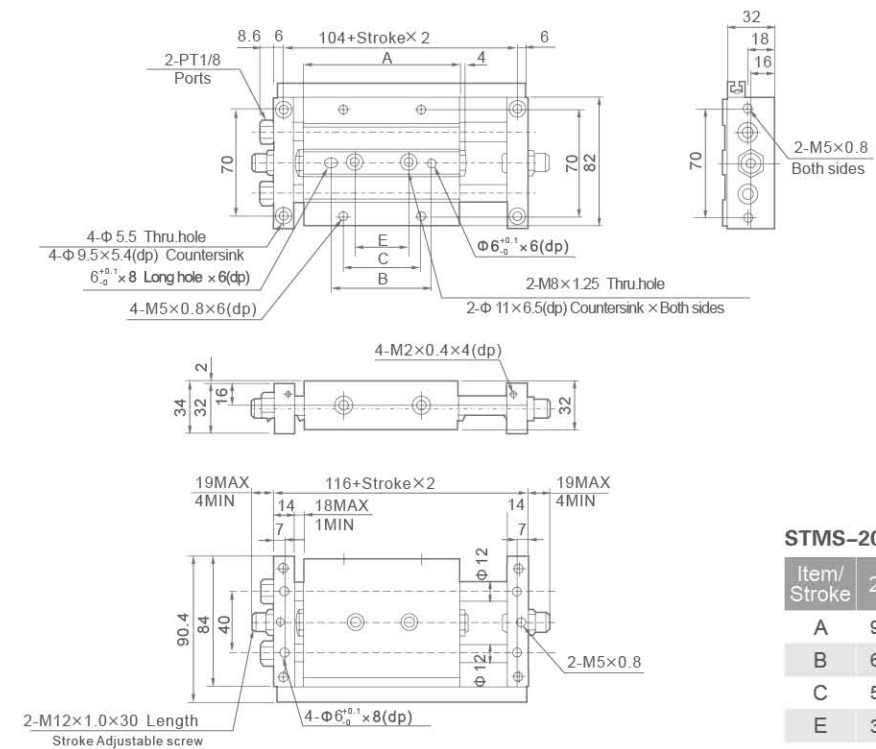
Overall Dimensions



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

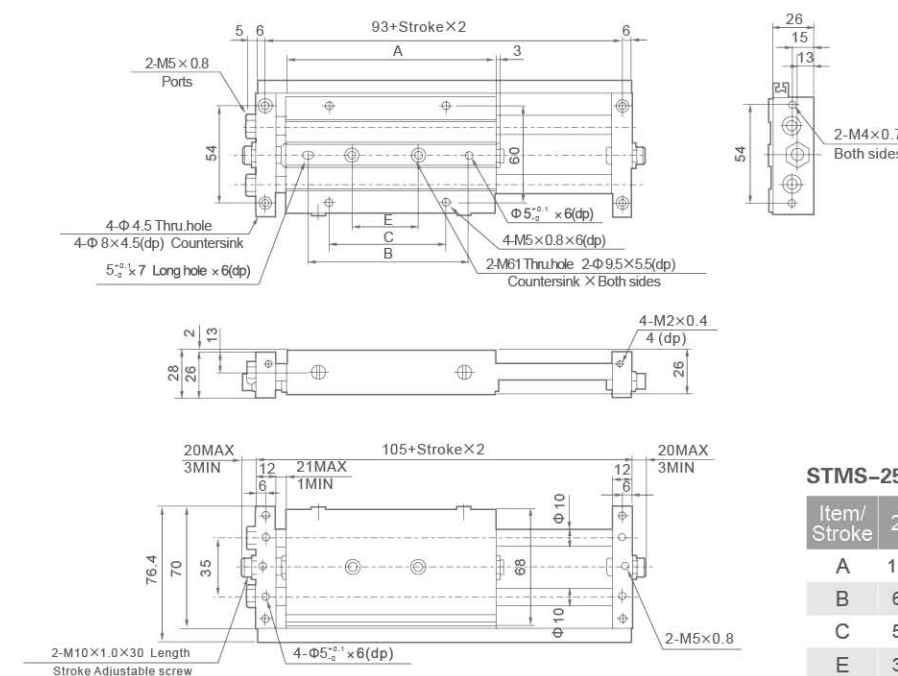
STM Series Slide Bearing Cylinder

Overall Dimensions



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

Overall Dimensions



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

MGP Series Three-Shaft Cylinder



MGPM 20 × 30



MGPM 25 × 50

Ordering Code

MGP

Series Code
MGP: Attach
magnet Type

M

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

25

Cylinder Bore
12mm-100mm

×

40

Stroke
10~200mm
Note: Non-standard stroke like
(5,10,15,20,35.....) we are
add subplate of 5,10,15,
20mm on standard stroke.

Specification

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

Standard Stroke

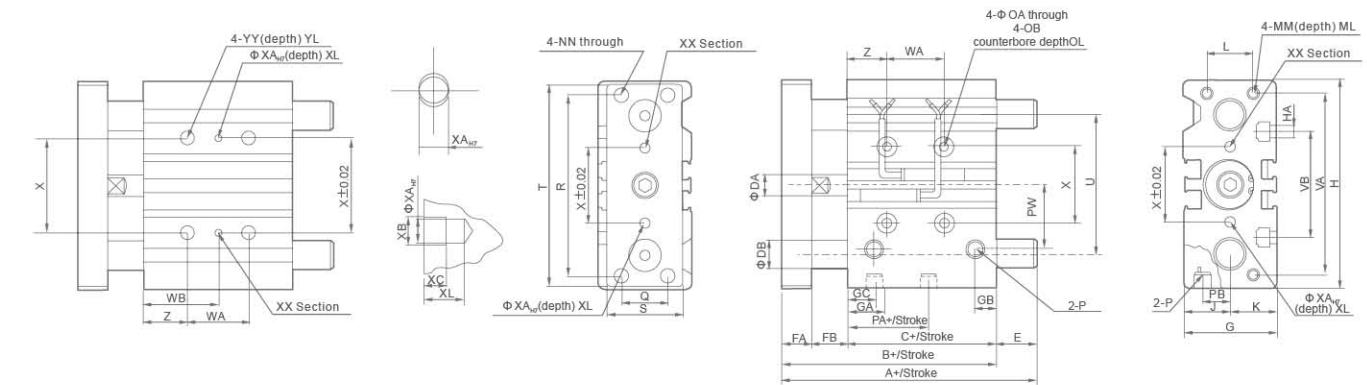
Bore size(mm)	Standard stroke(mm)
12,16	10,20,30,40,50,75,100,125,150,175,200,250
20,25	20,30,40,50,75,100,125,150,175,200,250,300,350,400
32 to 100	25,50,75,100,125,150,175,200,250,300,350,400

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

MGP Series Three-Shaft Cylinder

Overall Dimensions

φ 12~φ 25



MGPM、MGPL Common Dimension Sheet

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

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

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

MGPG Slide bearing

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

MGPL Ball bushing bearing

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

MGPM Slide bearing

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

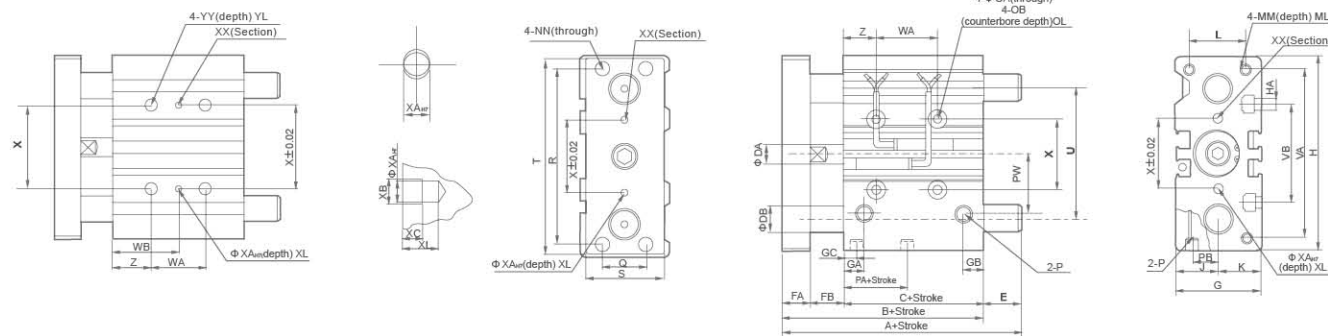
MGPL Ball bushing bearing

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

MGP Series Three-Shift Cylinder

Overall Dimensions

φ 32~φ 63



MGPM、MGPL Common Dimensions Sheet

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

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

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

MGPM Slide bearing

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

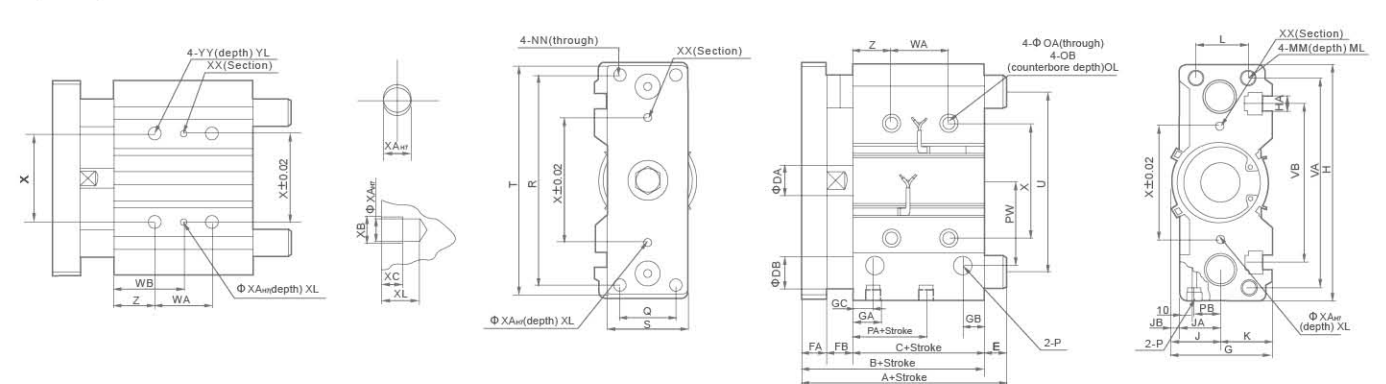
MGPL Ball bushing bearing

Bore size	A				DB	E			
	30st≥	30st<100st≥	100st<200st≥	200st<		30st≥	30st<100st≥	100st<200st≥	200st<
32	81	98	118	140	16	21.5	38.5	58.5	80
40	81	98	118	140	16	15	32	52	74
50	93	114	134	161	20	21	42	62	89
63	93	114	134	161	20	16	37	57	84

MGP Series Three-Shift Cylinder

Overall Dimensions

φ 80~φ 100



Dimension Sheet

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

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

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

MGPM Slide bearing

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

MGPL Ball bushing bearing

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

RSQ Series Stopper Cylinder



RSQA 50 x 75R

Ordering Code

RSQ

Series Code
RSQ Series

□

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

□

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

20

× 15

—

S

Magnet Code
Blank:Without
Magnet
S:With Magnet

□

Rod end Type
Blank:Round bar type
K:Chamfered type
R:Roller type
L:Level roller type
(with shock absorber)Cylinder Bore
20mm
32mm
40mm
50mm

Specification

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

Model

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

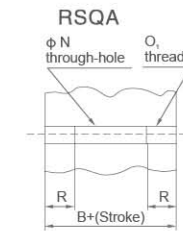
Φ12 tubes can have both through-hole and tap mountings in the same tube.

Standard Stroke

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

RSQ Series Stopper Cylinder

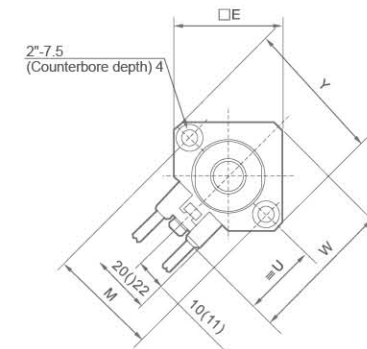
Overall Dimensions

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

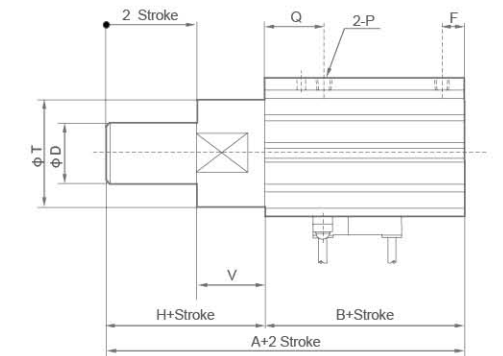
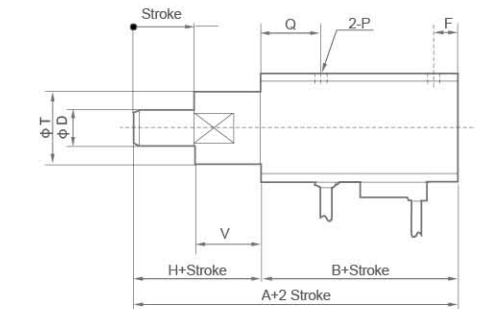
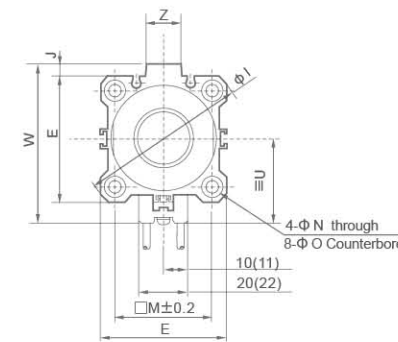
Screw mounting style:Both ends tapped style (mm)

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

Φ 20



Φ 32~Φ 50



Dimension Sheet

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

Note1)Dimensions without auto switch are the same as drawing above.

Note2)These figures show the dimensions when equipped with D-A 73 or D-A 80 auto switches.

Note3)These figures show the piston rod extened.

MSQ Series Rotary Table,Rack & Pinion Cylinder



MSQB 20-A



MSQB 30-A

Ordering Code

MSQ

Series Code

B

Basic Type

B:Basic Type

A:High Precision Type

10

Size Code

10mm~200mm

A

Type

A:With Adjustable Angle Screw

R:With Shock Absorber

S

Always With Magnet

Specification

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

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

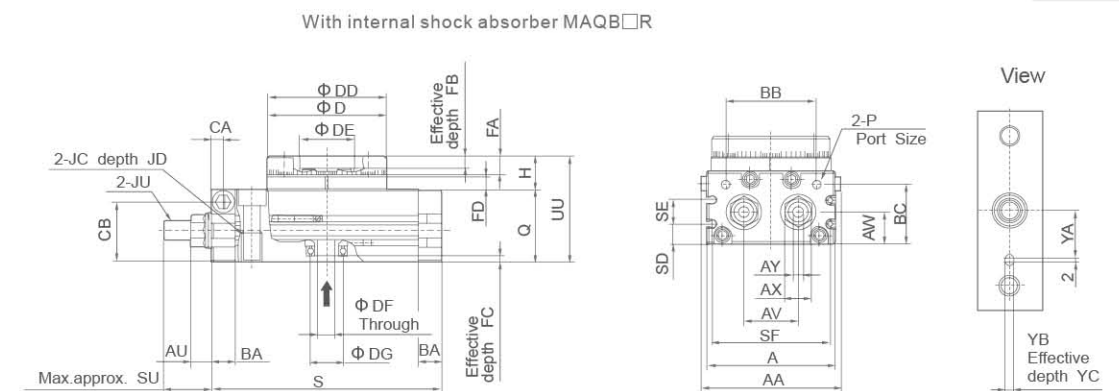
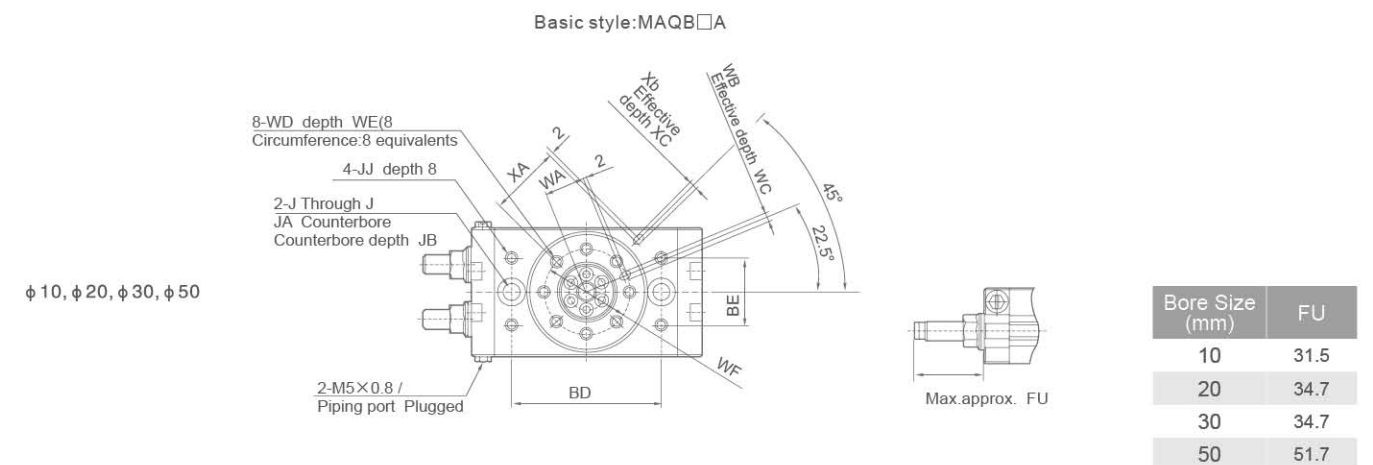
Allowable Kinetic Energy and Rotation Time Adjustment Range

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

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

MSQ Series Rotary Table,Rack & Pinion Cylinder

Overall Dimensions



Dimension Sheet

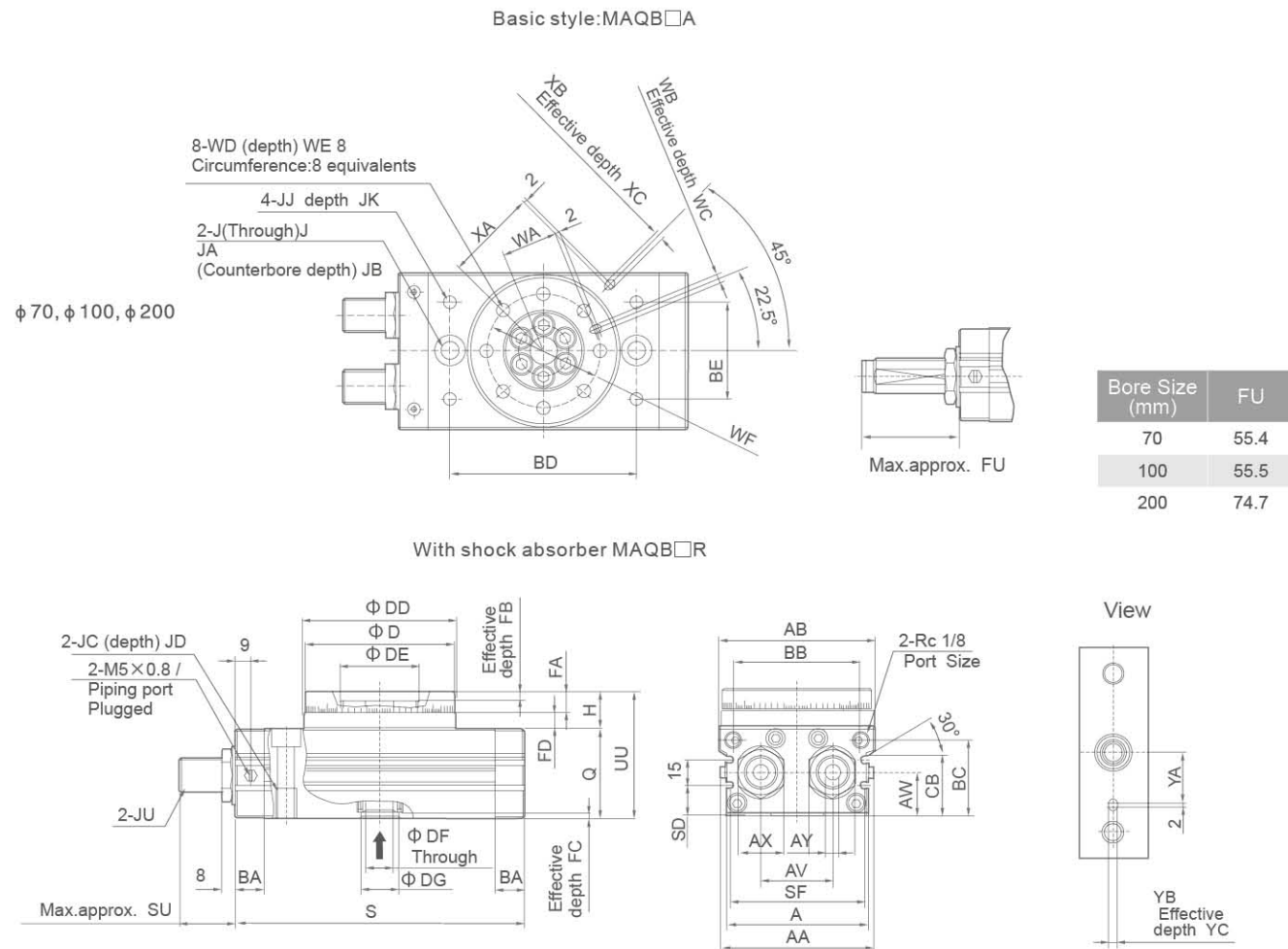
Bore size(mm)	AA	A	AU	AV	AW	AX	AY	BA	BB	BC	BD	BE	CA	CB	D	DD	DE	DF
10	55.4	50	8.6	20	15.5	12	4	9.5	34.5	27.8	60	27	4.5	28.5	46h9	46h9	20H9	5
20	70.8	65	10.6	27.5	16	14	5	12	46	30	67	34	6	30.5	60h9	61h9	28H9	9
30	75.4	70	10.6	29	18.5	14	5	12	50	32	84	37	6.5	33.5	65h9	67h9	32H9	9
50	85.4	80	14	38	22	19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

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

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

MSQ Series Rotary Table, Rack & Pinion Cylinder

Overall Dimensions



Dimension Sheet

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

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

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

CRQ2 Series Rotary Actuator (Pin Type)



CRQ2BS20-180

Ordering Code

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

Specification

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

CRA1 Series Rotary Actuator(Rack & pinion type)



CDRA1BS30-90

Ordering Code

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

Specification

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

XHZ Series Style Air Gripper



XHZ2-25D

Graphic Symbol



Double-acting internal grip



Double-acting-External grip



Single acting normally closed · Internal grip



Single acting normally closed-External grip

Specification

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

Gripping force

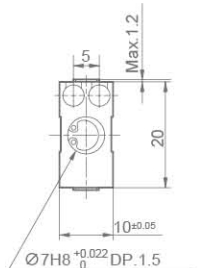
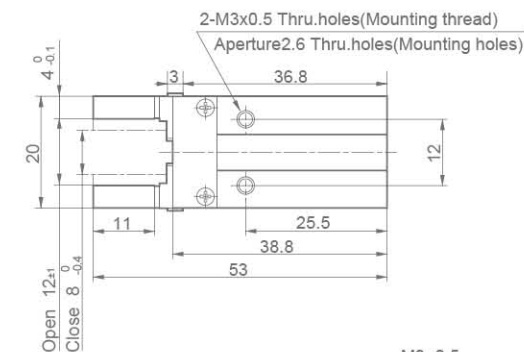
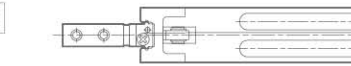
Model	Gripping force N				Opening/Closing (Both sides)mm
	RMS each finger gripping force				
	Double-acting		Single acting	Single acting	
	External	Internal	External	Internal	
XHZ-6□	3.3	6.1	1.9	3.7	4
XHZ-10□	11	17	7.1	13	4
XHZ-16□	34	45	27	38	6
XHZ-20□	42	66	33	57	10
XHZ-25□	65	104	45	83	14
XHZ-32□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

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

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

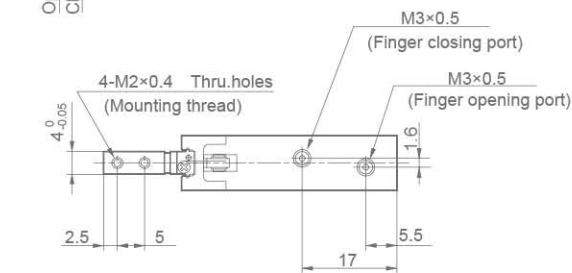
XHZ Series Style Air Gripper

Overall Dimensions

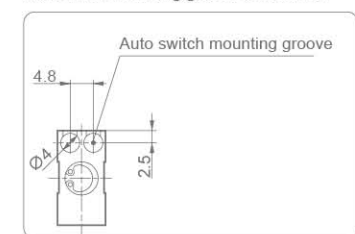


XHZ-6 □ (Φ6)

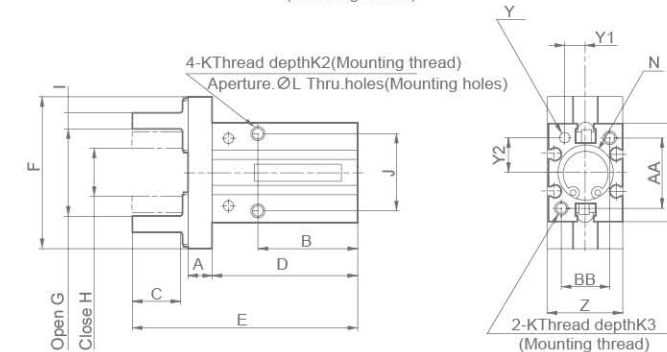
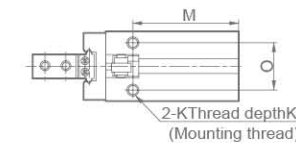
Double acting
Single acting



Auto switch mounting groove dimensions



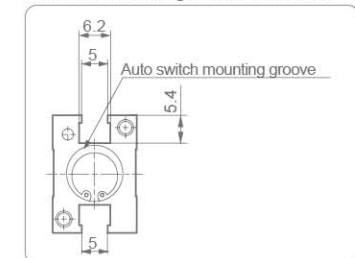
For single acting, the port on one side will turn into breathing hole.



XHZ-□□(Φ10~Φ40)

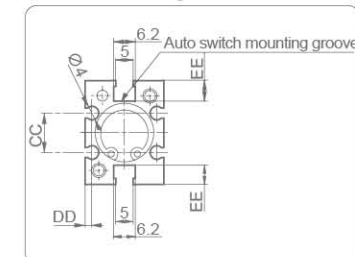
Double acting
Single acting

XHZ-10□
Auto Switch Mounting Groove Dimensions



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

XHZ-□□ Auto Switch Mounting Groove Dimensions



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

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

XHZ Series Style Air Gripper

Dimension Sheet

Bore(mm)	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ΦL	M	N	O	P	Q	
10	6	23	12	37.8	57	29	15.2 ^{+2.2} ₀	11.2 ⁰ _{-0.7}	4 ⁰ _{-0.1}	16	M3×0.5	6	5.5	6	2.6	27	Φ11H9 ^{+0.043} ₀	Dp:2	11.4	M2.5×0.45	3
16	7.5	24.5	15	42.5	67.3	38	20.9 ^{+2.2} _{0.2}	14.9 ⁰ _{-0.7}	5 ⁰ _{-0.1}	24	M4×0.7	4.5	8	8	3.4	30	Φ17H9 ^{+0.043} ₀	Dp:2	16	M3×0.5	4
20	9.5	29	20	52.8	84.8	50	26.3 ^{+2.2} _{0.2}	16.3 ⁰ _{-0.7}	8 ⁰ _{-0.1}	30	M5×0.8	8	10	10	4.3	35	Φ21H9 ^{+0.052} ₀	Dp:3	18.6	M4×0.7	5
25	11	30	25	63.6	102.7	63	33.3 ^{+2.5} _{0.2}	19.3 ⁰ _{-0.8}	10 ⁰ _{-0.1}	36	M6×1	10	12	12	5.1	36.5	Φ26H9 ^{+0.052} ₀	Dp:3.5	22	M5×0.8	6
32	12	40(49)	29	67(76)	113(122)	97	48 ^{+2.5} ₀	26 ⁰ _{-0.5}	12 ⁰ _{-0.1}	46	M6×1	10	13	13	5.1	48(57)	Φ34H9 ^{+0.062} ₀	Dp:4	26	M6×1	7
40	15	49(62)	36	83(96)	139(152)	119	60 ^{+2.7} ₀	30 ⁰ _{-0.5}	14 ⁰ _{-0.1}	56	M8×1.25	13	16	17	6.6	58(71)	Φ42H9 ^{+0.062} ₀	Dp:4	32	M8×1.25	9

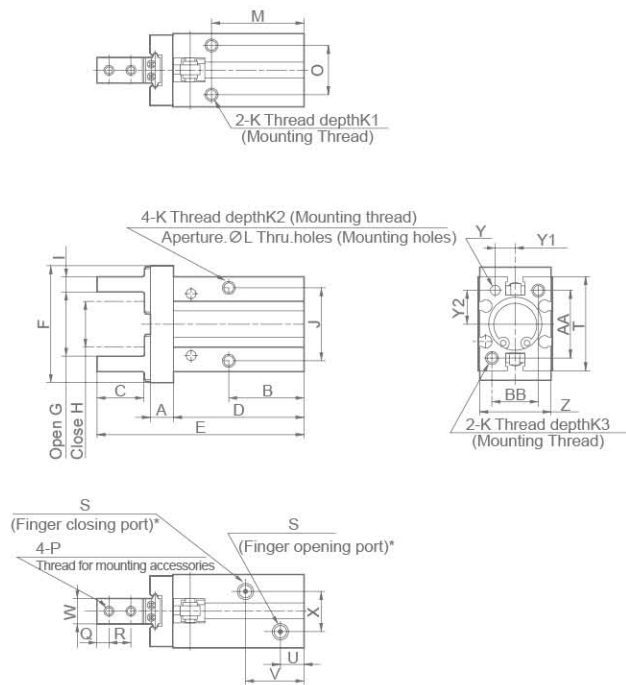
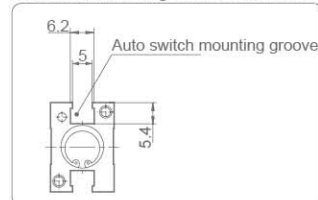
Bore(mm)	R	S	T	U	V	W	X	Y	Z	Y1	Y2	AA	BB	CC	DD	EE
10	5.7	M3×0.5	23	9	19	5 ⁰ _{-0.05}	11	Φ2H9 ^{+0.025} ₀	Dp:3	16.4±0.05	5.2±0.02	7.6±0.02	18	12	-	-
16	7	M5×0.8	30.6	7.5	19	8 ⁰ _{-0.05}	13	Φ3H9 ^{+0.025} ₀	Dp:3	23.6±0.05	6.5±0.02	11±0.02	22	15	11.6	2.1
20	9	M5×0.8	42	10	23	10 ⁰ _{-0.05}	15	Φ4H9 ^{+0.03} ₀	Dp:4	27.6±0.05	7.5±0.02	16.8±0.02	32	18	14	2.1
25	12	M5×0.8	52	10.7	23.5	12 ⁰ _{-0.05}	20	Φ4H9 ^{+0.03} ₀	Dp:4	33.6±0.05	10±0.02	21.8±0.02	40	22	19	3.5
32	14	M5×0.8	60	11	31(37)	15 ⁰ _{-0.05}	24	Φ5H9 ^{+0.03} ₀	Dp:5	40±0.1	12±0.02	23±0.02	46	26	24	3.3
40	17	M5×0.8	72	12	38(45)	18 ⁰ _{-0.05}	28	Φ5H9 ^{+0.03} ₀	Dp:5	48±0.1	14±0.02	29±0.02	56	32	29.4	3.7

Overall Dimensions

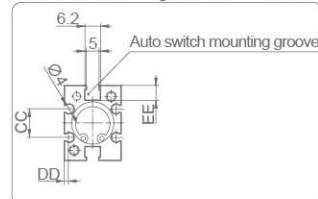
XHZL-□□ (Φ10~Φ25)

Double acting

Single acting

XHZL-10□
Auto Switch Mounting Groove Dimensions

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

XHZL-□□
Auto Switch Mounting Groove Dimensions

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

Dimension Sheet

Bore(mm)	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ΦL	M	N	O	P	Q	
10	6	25(35)	12	37.8(47.8)	57(67)	35	19.2 ^{+2.2} ₀	11.2 ⁰ _{-0.7}	4 ⁰ _{-0.1}	16	M3×0.5	6	5.5	6	2.6	29(39)	Φ11H9 ^{+0.043} ₀	Dp:2	11.4	M2.5×0.45	3
16	7.5	31(36)	15	45.2(50.2)	70(75)	47	26.9 ^{+2.2} _{0.2}	14.9 ⁰ _{-0.7}	5 ⁰ _{-0.1}	24	M4×0.7	4.5	8	8	3.4	36(41)	Φ17H9 ^{+0.043} ₀	Dp:2	16	M3×0.5	4
20	9.5	36(42)	20	58(64)	90(96)	62	34.3 ^{+2.2} _{0.2}	16.3 ⁰ _{-0.7}	8 ⁰ _{-0.1}	30	M5×0.8	8	10	10	4.3	43(49)	Φ21H9 ^{+0.052} ₀	Dp:3	18.6	M4×0.7	5
25	11	40(50)	25	66.9(76.9)	106(116)	75	41.3 ^{+2.5} _{0.2}	19.3 ⁰ _{-0.8}	10 ⁰ _{-0.1}	36	M6×1	10	12	12	5.1	48(58)	Φ26H9 ^{+0.052} ₀	Dp:3.5	22	M5×0.8	6

Bore(mm)	R	S	T	U	V	W	X	Y	Z	Y1	Y2	AA	BB	CC	DD	EE
10	5.7	M3×0.5	23	8	21(31)	5 ⁰ _{-0.05}	11	Φ2H9 ^{+0.025} ₀	Dp:3	16.4±0.05	5.2±0.02	7.6±0.02	18	12	-	-
16	7	M5×0.8	30.6	8	25(30)	8 ⁰ _{-0.05}	13	Φ3H9 ^{+0.025} ₀	Dp:3	23.6±0.05	6.5±0.02	11±0.02	22	15	11.6	2.1
20	9	M5×0.8	42	10	30(36)	10 ⁰ _{-0.05}	15	Φ4H9 ^{+0.03} ₀	Dp:4	27.6±0.05	7.5±0.02	16.8±0.02	32	18	14	2.1
25	12	M5×0.8	52	10	33(43)	12 ⁰ _{-0.05}	20	Φ4H9 ^{+0.03} ₀	Dp:4	33.6±0.05	10±0.02	21.8±0.02	40	22	19	3.5

XHY Series Style Air Gripper



XHY2-25D

Ordering Code

XHY

Series Code
XHY:180° open and
close your fingers

2

Finger
Quantity
2PCS

16

Bore size
10mm~25mm

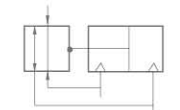
D

Action Type
D:Double Action

2

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

Graphic Symbol



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

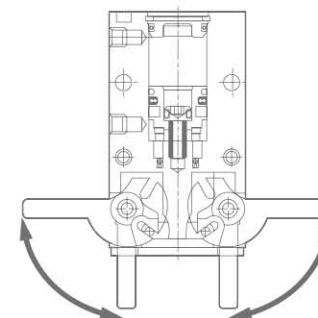
Specification

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

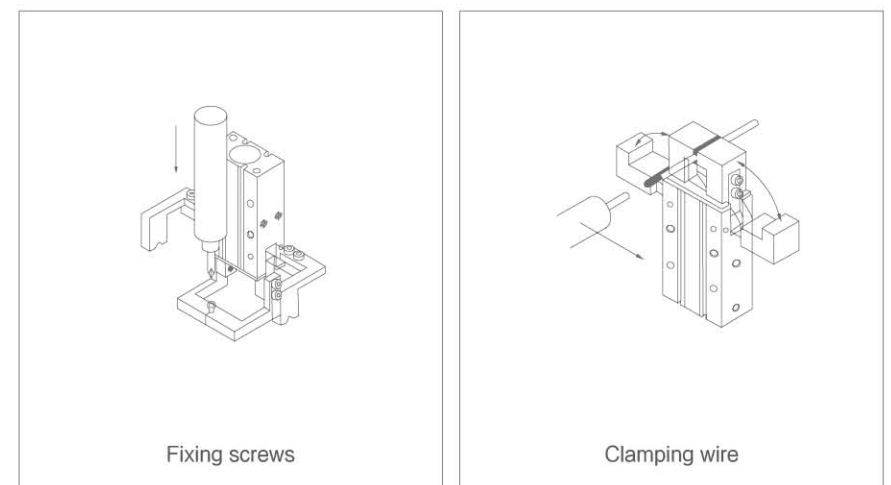
Note 1) At the pressure of 0.5 Mpa

Note 2)If you need lubrication,use turbine No.1 oil ISO VG32.

Chart

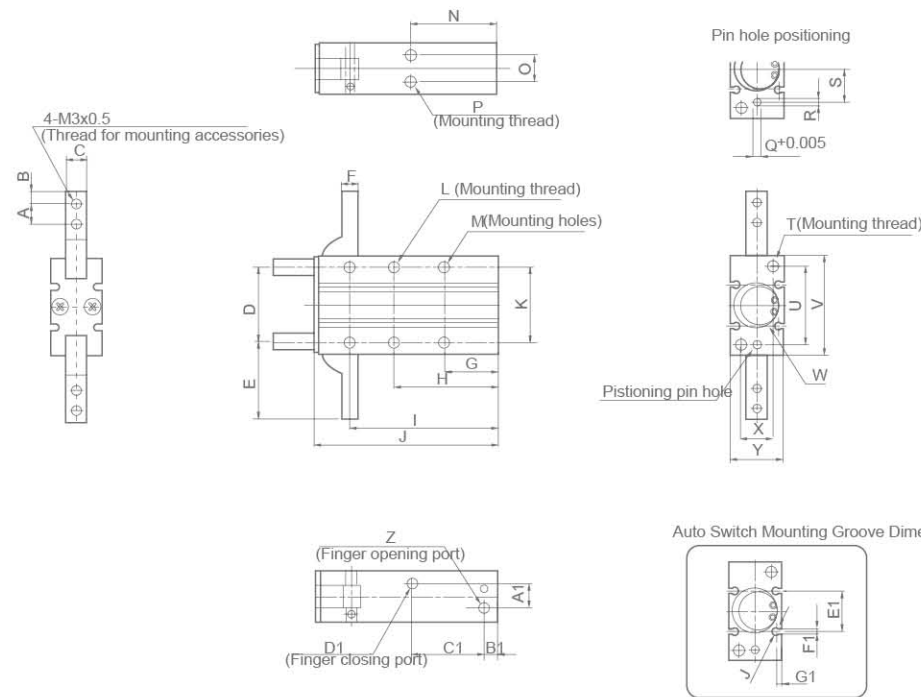


Function Example



XHY Series Style Air Gripper

Overall Dimensions



Dimension Sheet

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

Bore(mm)	I	J	K	L	M	N	O	P
10	47.5	58	24	4-M3x0.5/Thread dep 6	2- Φ 3.4	30	19	2-M3x0.5/Thread dep 6
16	55.5	69	30	4-M3x0.7/Thread dep 8	2- Φ 4.5	33	12	2-M4x0.7/Thread dep 5
20	69	86	36	4-M5x0.8/Thread dep 10	2- Φ 5.5	42	14	2-M5x0.8/Thread dep 10
25	86	107	30	4-M6x1/Thread dep 12	2- Φ 6.6	52	12	2-M6x1/Thread dep 10

Bore(mm)	Q	R	S	T	U	V	W	X
10	3H9 ^{+0.05/0}	4	9	2-M3x0.5/Thread dep 6	24	30	Φ 11h9 ^{+0.043/0}	9
16	3H9 ^{+0.025/0}	4	19	2-M3x0.7/Thread dep 8	30	38	Φ 17h9 ^{+0.043/0}	12
20	4h9 ^{+0.030/0}	5	19	2-M5x0.8/Thread dep 10	38	48	Φ 21h9 ^{+0.052/0}	16
25	4h9 ^{+0.052/0}	5	23	2-M6x1/Thread dep 12	46	58	Φ 26h9 ^{+0.052/0}	18

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

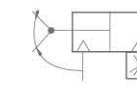
XHC Series Style Air Gripper



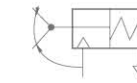
XHC2-25D

Graphic Symbol

Double Action



Single Action



Ordering Code

XHC

2

16

D

Series Code

XHC:fulcrum opening and closing fingers

Finger Quantity

2PCS

Bore Size

10mm~25mm

Action Type

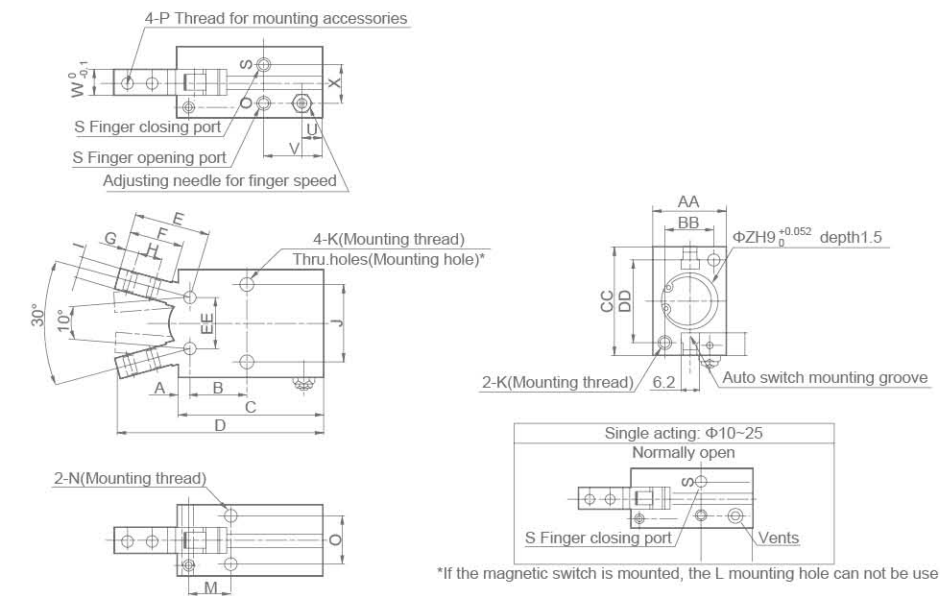
D:Double Action
S:Single Action

Specification

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

Overall Dimensions

Double acting



Dimension Sheet

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	EE	
																	S	T												
10	2.8	12.8	38.6	52.4	17.2	12	3	5.7	4	16	M3×0.5	Dp.5	2.6	8.8	M3×0.5	Dp.6	11.4	M2.5×0.45	M3×0.25	7.2	18.8	6.4	10.4	5.4	11	16.4	12	23	18	10
16	3.9	16.2	44.6	62.5	22.6	16	4	7	7	24	M4×0.7	Dp.8	3.4	10.7	M4×0.7	Dp.8	16	M3×0.5	M5×0.8	7	18.3	8	13	5.8	17	23.6	15	30.6	22	16
20	4.5	21.7	55.2	78.7	28	20	5.2	9	8	30	M5×0.8	Dp.10	4.3	15.7	M5×0.7	Dp.8	18.6	M4×0.7	M5×0.8	7.5	22.2	10	15	9	21	27.6	18	42	32	20
25	4.6	25.8	60.2	92	37.5	27	8	12	10	36	M6	Dp.12	5.1	19.3	M6	Dp.10	22	M5 Dp.0.8	M5×0.8	7.7	23.5	12	20	11.5	26	33.6	22	52	40	25

XHT Series Angle Style Air Gripper (ToggleType)



XHT2-32D

Ordering Code

XHT

Series Code
XHT:Toggle Type Air Gripper

2

Finger Quantity
2PCS

32

Cylinder Bore
32mm~63mm

D

Action Type
D: Double Action

Specification

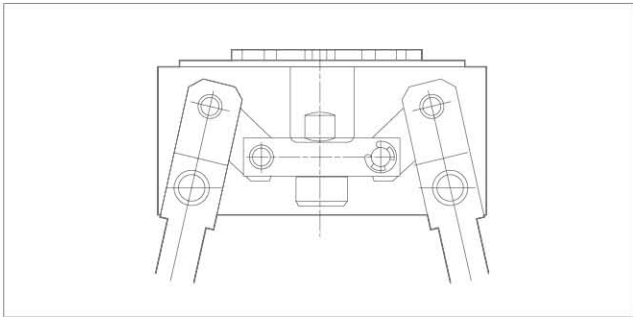
Bore(mm)	32	40	50	63
Motion Pattern	Double acting			
Fluid	Air			
Operating Voltage Range	0.1~0.6 MPa			
Ambient and fluid temperature	5~60℃			
Lubrication	Not required			
Finger opening angle (Total)	-3°~28°	-3°~27°	-2°~23°	-2°~23°
Effective gripping force (N-m) at 0.5 Mpa	12.4	36.0	63.0	106

Magnetism Switch Model

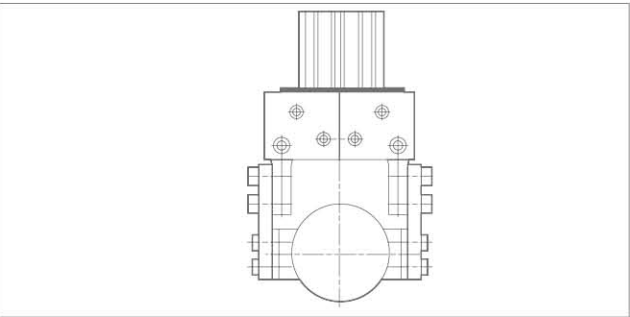
Bore Size	Track Mouth		
32			① Fit for grip heavy equipment
40	D-A72L D-A73L	D-A80L D-F79L	② Toggle structure unless lost the pressure suddenly the gripper still can work
50	D-A76L	D-J79L	③ Magnet inside, can install magnetism switch
63			

Note:Magnetism switch model can refer to magnetism switch series

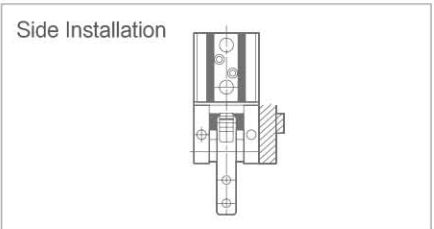
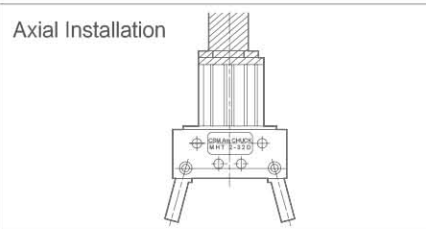
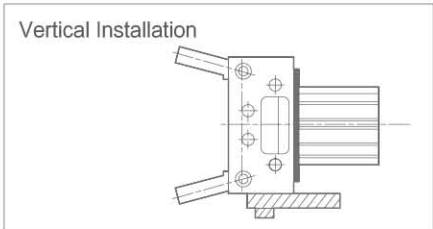
Lever Structure



Example

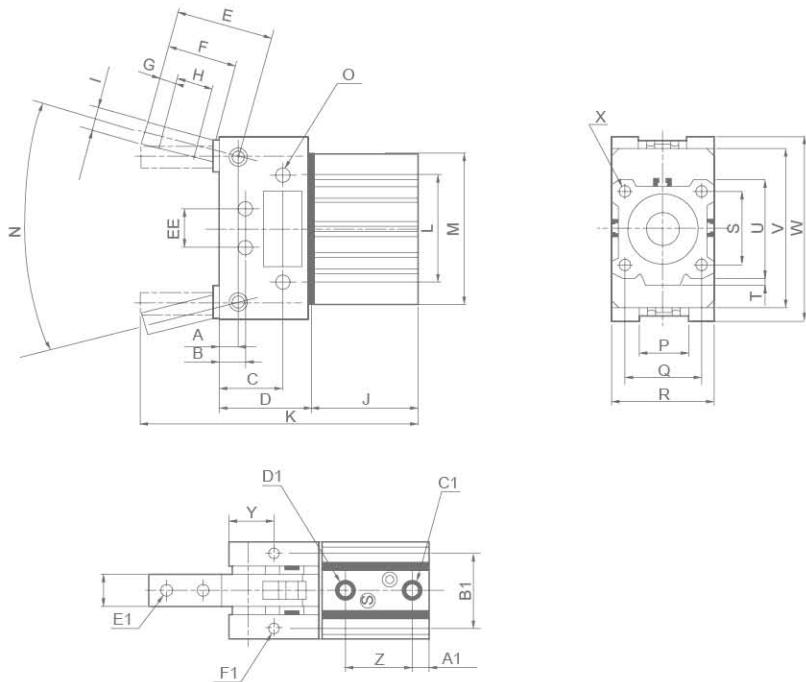


Installation pattern



XHT Series Angle Style Air Gripper (ToggleType)

Overall Dimensions



Dimension Sheet

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

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

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

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

XHL Series Parallel Style Wide Opening Air Gripper



Ordering Code

XHL **2** × **16** **D** 

Series Code **Finger Quantity** **Cylinder Bore** **Action Type** **Finger Open/Close Stroke**

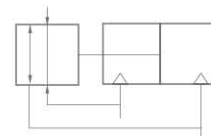
XHL: Wide Opening Air Gripper 2PCS 10mm~40mm D: Double Action

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

XHL 2-20D

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

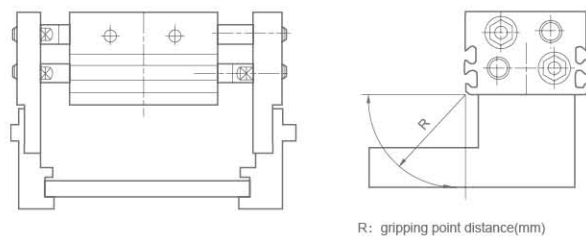
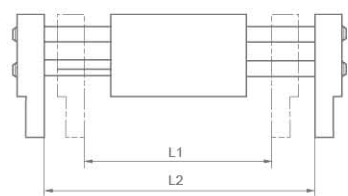
Graphic Symbol



Specification

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

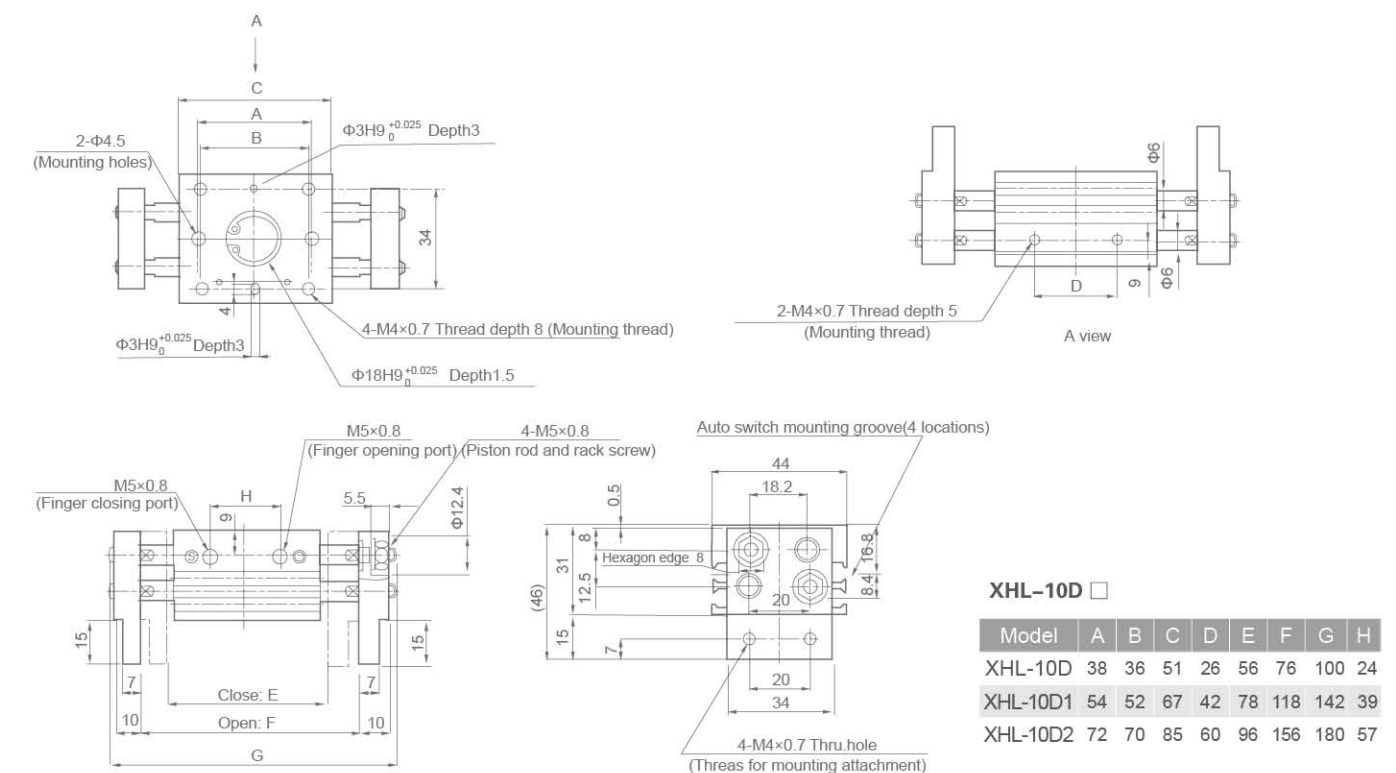
Stroke



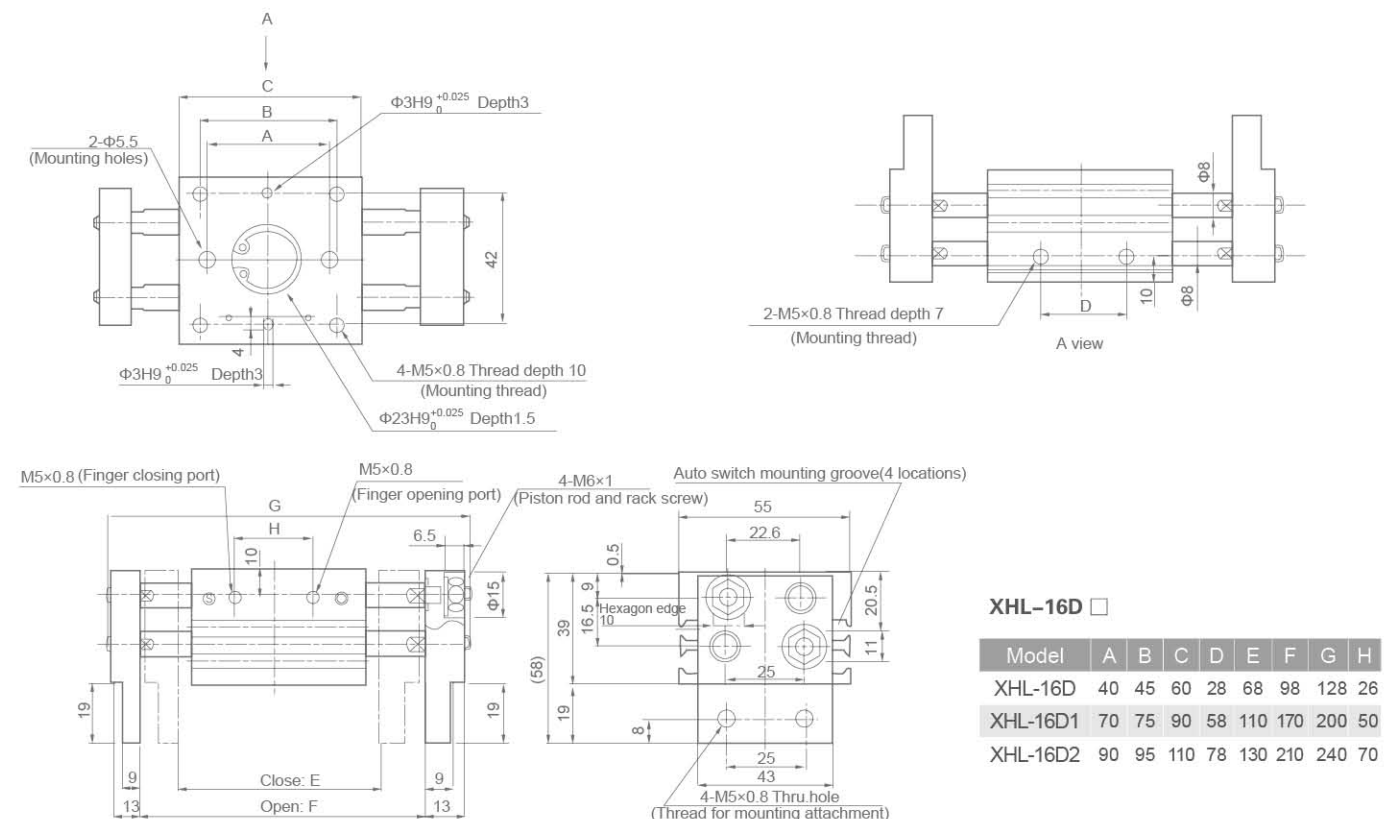
Model	Bore size (mm)	Max. operating frequency c.p.m	Opening/ Closing stroke (L1- L2)mm	Width at closing(mm) L1	Width at the opening (mm) L2
XHL-10D	10	60	20	56	76
XHL-10D1		40	40	78	118
XHL-10D2			60	96	156
XHL-16D	16	60	30	68	98
XHL-16D1		40	60	110	170
XHL-16D2			80	130	210
XHL-20D	20	60	40	82	122
XHL-20D1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

XHL Series Parallel Style Wide Opening Air Gripper

Overall Dimensions

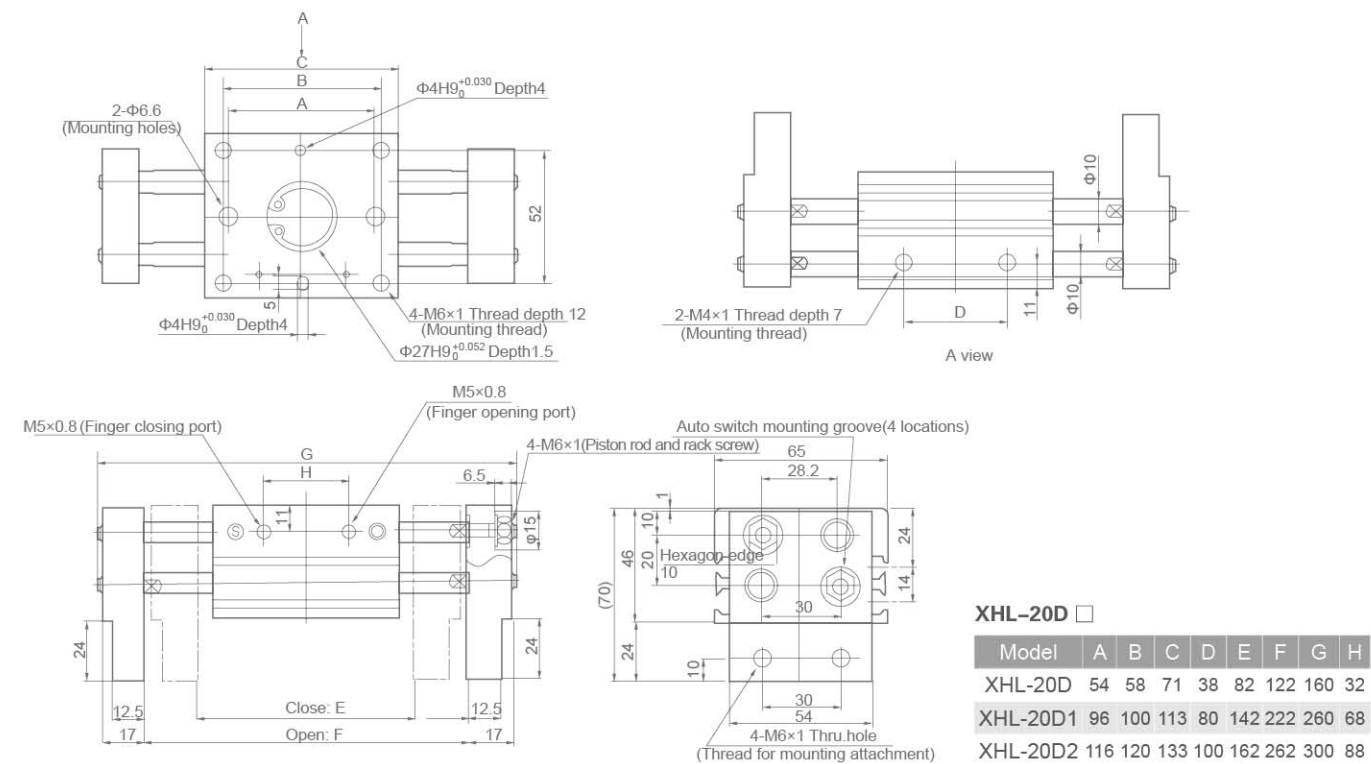


Overall Dimensions

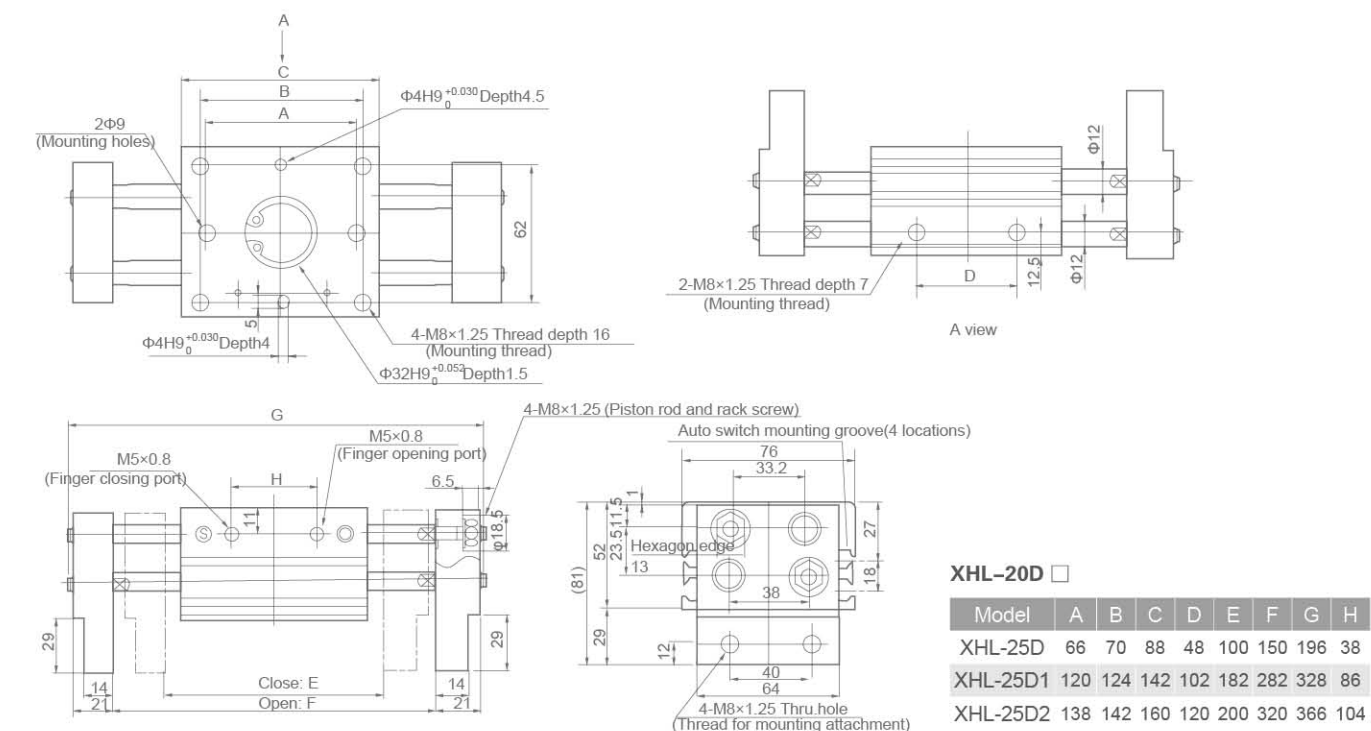


XHL Series Parallel Style Wide Opening Air Gripper

Overall Dimensions

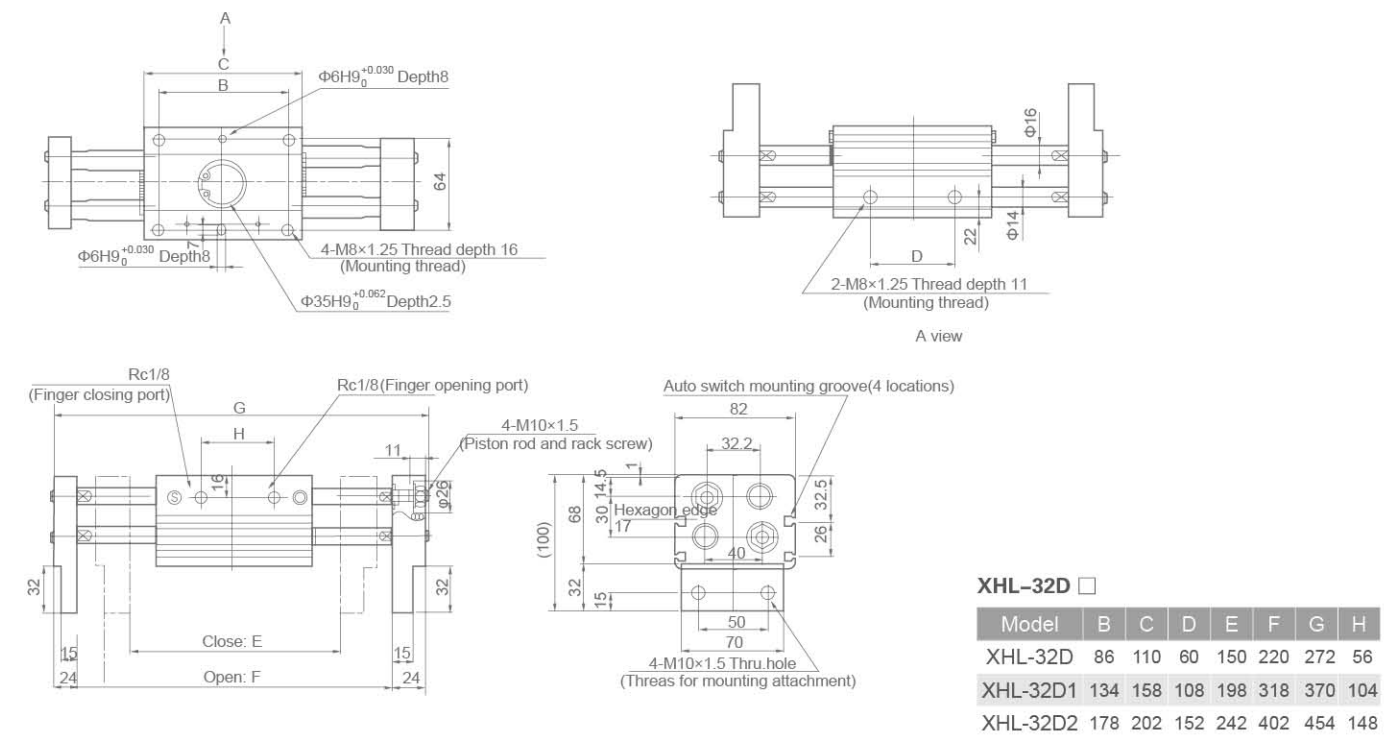


Overall Dimensions

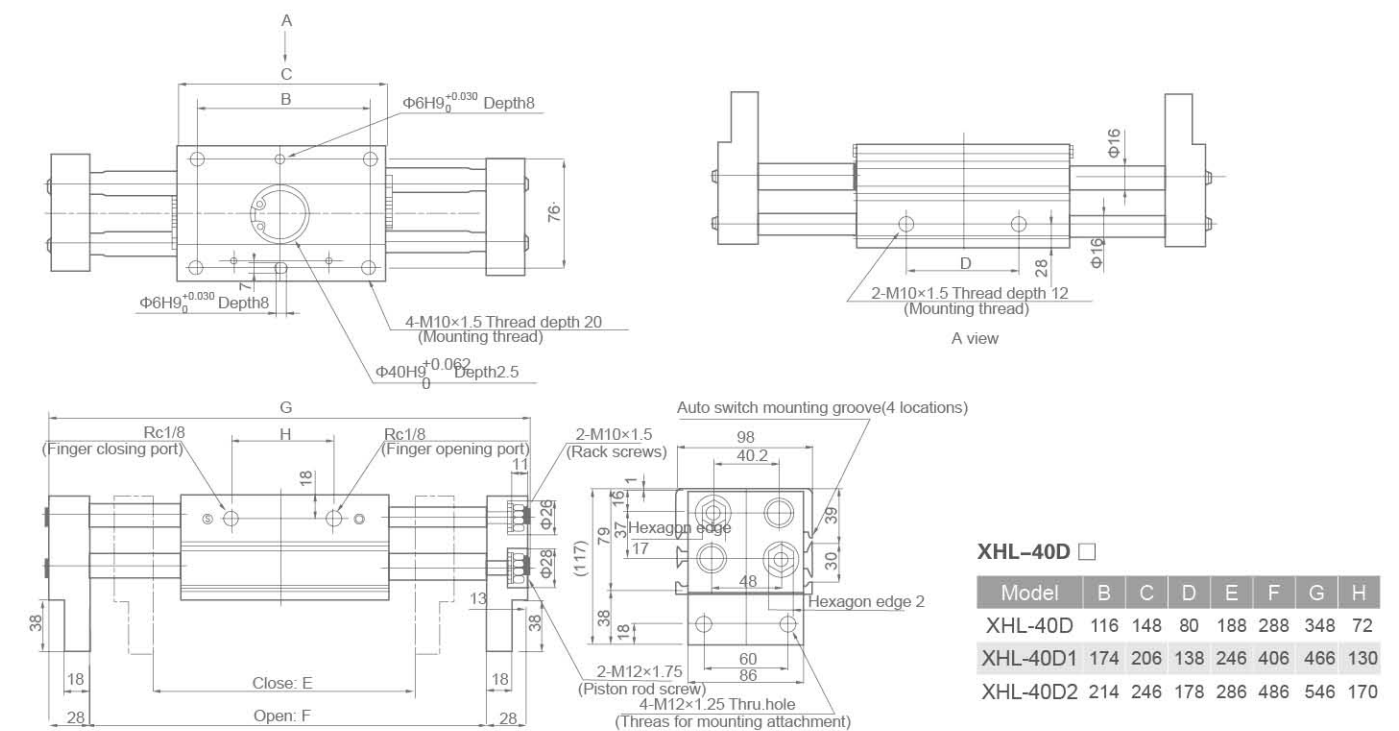


XHL Series Parallel Style Wide Opening Air Gripper

Overall Dimensions



Overall Dimensions



XHF Series Low Profile Air Gripper(Parallel Type)



XHF2-20D

Ordering Code

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

Specification

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

① If gripper have unbalance loading,for the gear distance,the max,is ±0.15mm

② When plessure is 0.5 mpa,grip power distance is 20mm

XHW Series Angular Air Grippers (Rack & Pinion Type)



XHW2-32D

Ordering Code

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

Specification

Bore(mm)	20	25	32	40	50
Working Medium	Air				
Motion Pattern	Double acting				
Max.operating Pressure Range(Mpa)	0.7				
Min.operating Pressure Range(Mpa)	0.15				
Ambient And Fluid	-10~+60℃ (Not frezzing)				
Max.motion Frequency	60c.p.m		30c.p.m		
Repeatability Precision	±0.2mm				
Note1) Grip Moment	0.30	0.73	1.61	3.70	8.27
Note2) Lubrication	Not required				
Port Size	M5×0.8		Rc ¹ / ₈		Rc ¹ / ₄

Note 1) At 0.5MPa pressure amnient

Note 2) If need lubrication please use ISOVG32

XHS2 Series Slide Guide Air Gripper(Round Body)

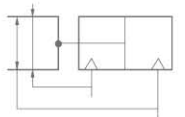


XHS2-32D

Ordering Code

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

Graphic Symbol



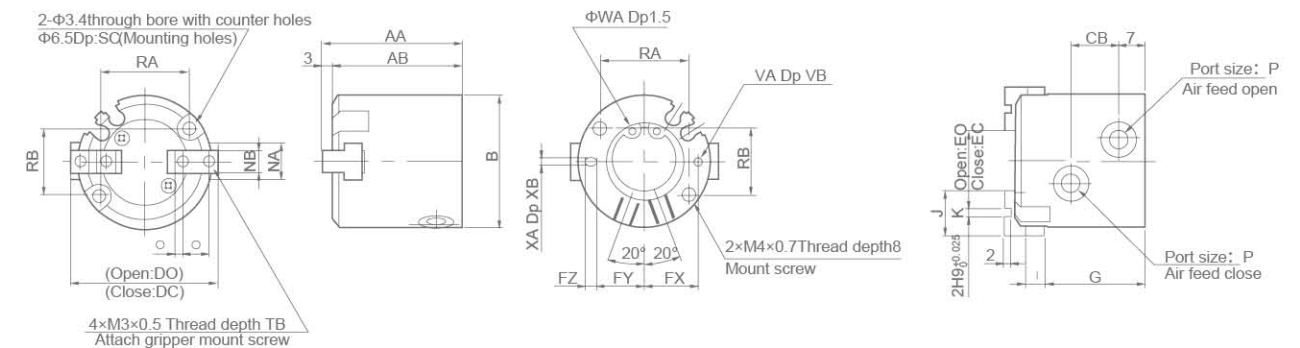
Specification

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

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

Overall Dimensions

XHS2-16D~25D



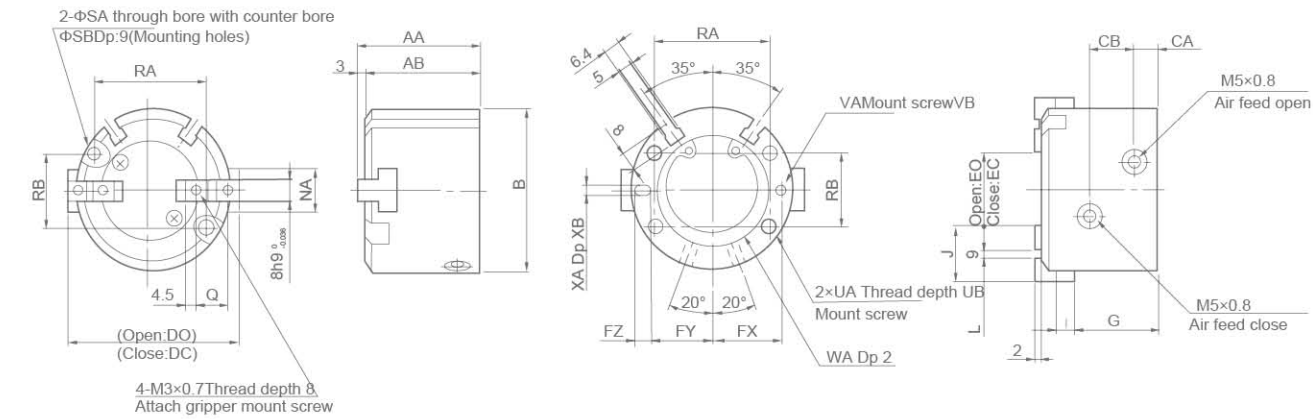
Dimension Sheet

Bore(mm)	AA	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	O	P	Q
16	35	32	30	11	30	34	10	14	12.5	11	3	25	4	10	4	8	5h9 ⁰ _{-0.030}	2	M3x0.5	6
20	38	35	25	13	36	40	12	16	14.5	13	3	27	5	12	5	10	6h9 ⁰ _{-0.030}	2.5	M5x0.8	7
25	40	37	42	15	42	48	14	20	17	14.5	5	28	5	14	6	12	6h9 ⁰ _{-0.030}	3	M5x0.8	8
Bore(mm)	RA	RB	SC	TB	VA	VB	WA	XA	XB											
16	18	16	8	5	2H9 ^{+0.025} ₀	2	17H9 ^{+0.043} ₀	2H9 ^{+0.025} ₀	2											
20	24	18	9.5	6	2H9 ^{+0.025} ₀	2	21H9 ^{+0.052} ₀	2H9 ^{+0.025} ₀	2											
25	26	22	10	6	3H9 ^{+0.025} ₀	3	3H9 ^{+0.052} ₀	3H9 ^{+0.025} ₀	3											

XHS2 Series Slide Guide Air Gripper(Round Body)

Overall Dimensions

XHS2-32D~40D

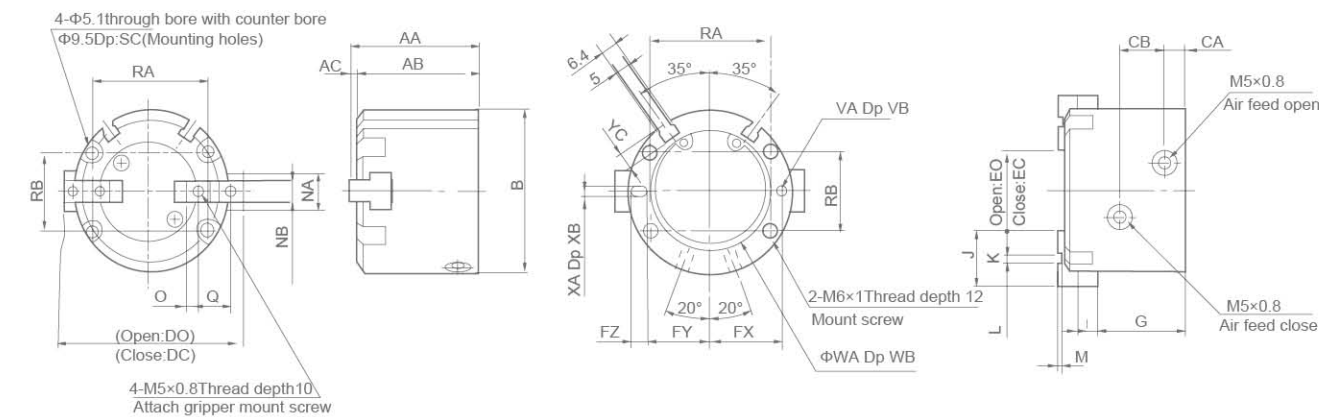


Bore(mm)	AA	AB	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	L	NA
32	44	41	56	8	16	56	64	16	24	23	20.5	5	30.5	6	20	2H9 ^{+0.025} ₀	14
40	47	44	62	9	17	62	70	20	28	26.5	23.5	6	32	7	21	3H9 ^{+0.025} ₀	16

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

Overall Dimensions

XHS2-50D~63D



Dimension Sheet

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

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

XHS3 Series Slide Guide Air Gripper(Round Body)

Ordering Code

XHS

3

□

32

D

Series Code

XHS: Round Body
Type

Finger uantity

3: 3PCS

Type

Blank: Standard
J: With Cover
L: Long Stroke

Cylinder Bore

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

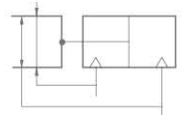
Action

D: Double Action



XHS3-20D

Graphic Symbol



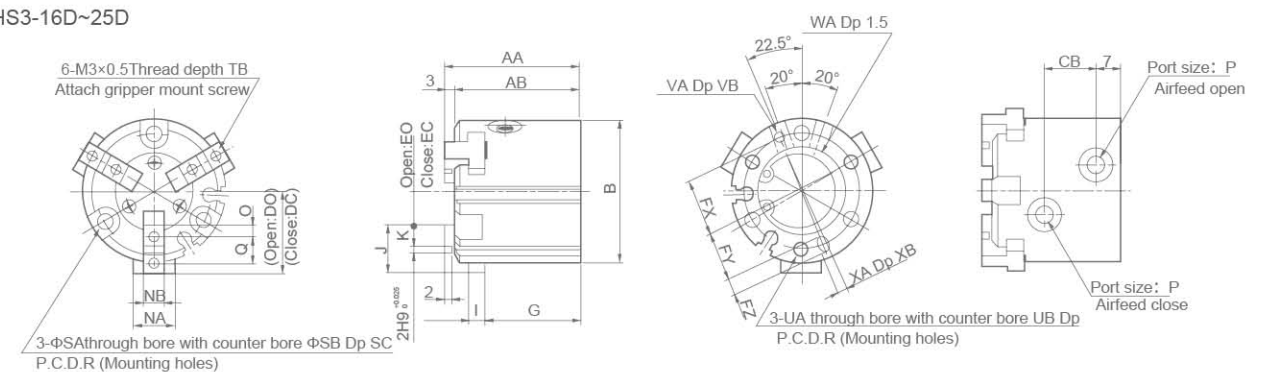
Specification

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

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

Overall Dimensions

XHS3-16D~25D



Dimension Sheet

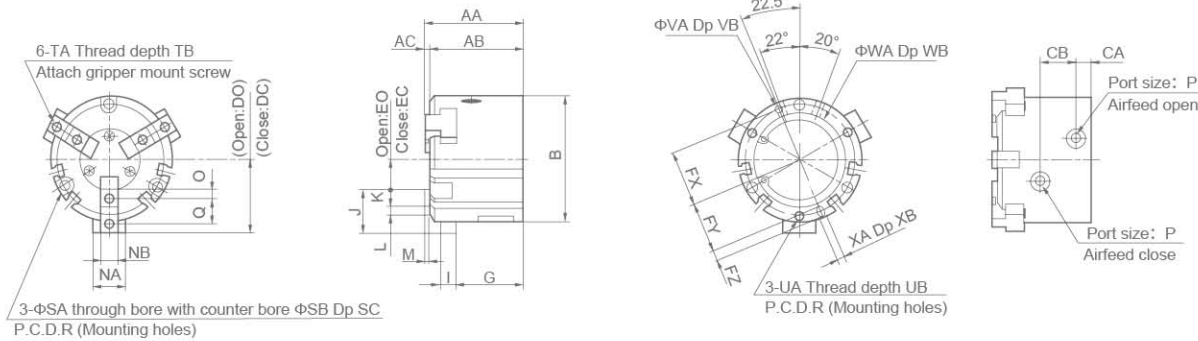
Bore(mm)	AA	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	O	P	Q	R
16	35	32	30	11	15	17	5	7	12.5	11	3	25	4	10	4	8	5h9 ⁰ _{-0.030}	2	M3x0.5	6	25
20	38	35	36	13	18	20	6	8	14.5	13	3	27	5	12	5	10	6h9 ⁰ _{-0.030}	2.5	M5x0.8	7	29
25	40	37	42	15	21	24	7	10	17	14.5	5	28	5	14	6	12	6h9 ⁰ _{-0.030}	3	M5x0.8	8	34

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

XHS3 Series Slide Guide Air Gripper(Round Body)

Overall Dimensions

XHS3-32D~80D



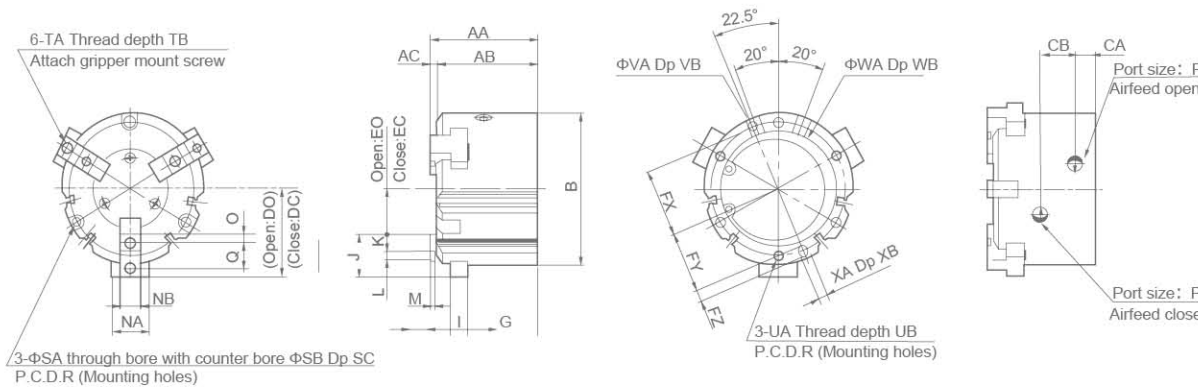
Overall Dimensions

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

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

Overall Dimensions

XHS3-100D~125D



Dimension Sheet

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

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

XHS4 Series Slide Guide Air Gripper(Round Body)

Ordering Code

XHS

Series Code
XHS: Round Body Type

4

Finger uantity
4: 4PCS

32

Cylinder Bore
16mm~63mm

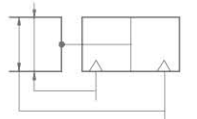
D

Action
D: Double Action



XHS4-32D

Graphic Symbol

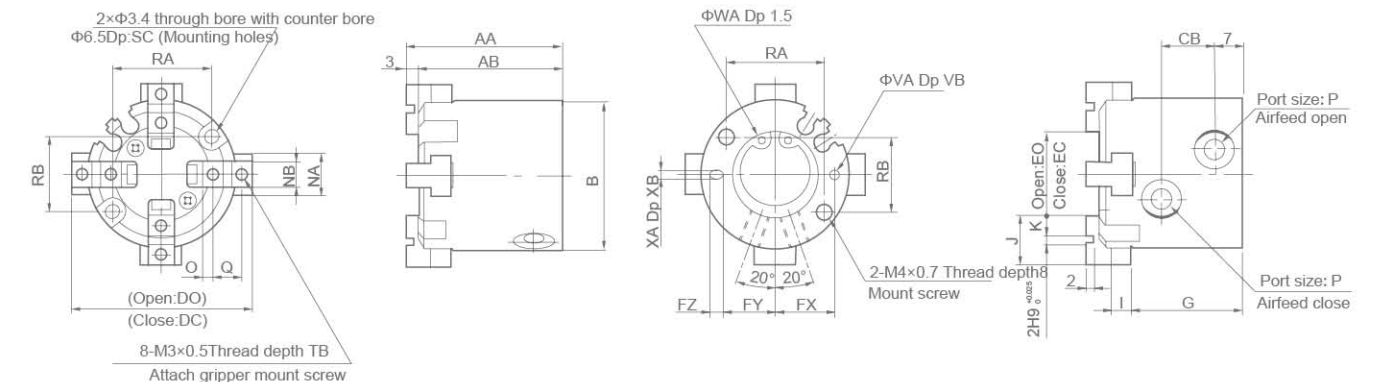


Specification

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

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

Overall Dimensions



Dimension Sheet

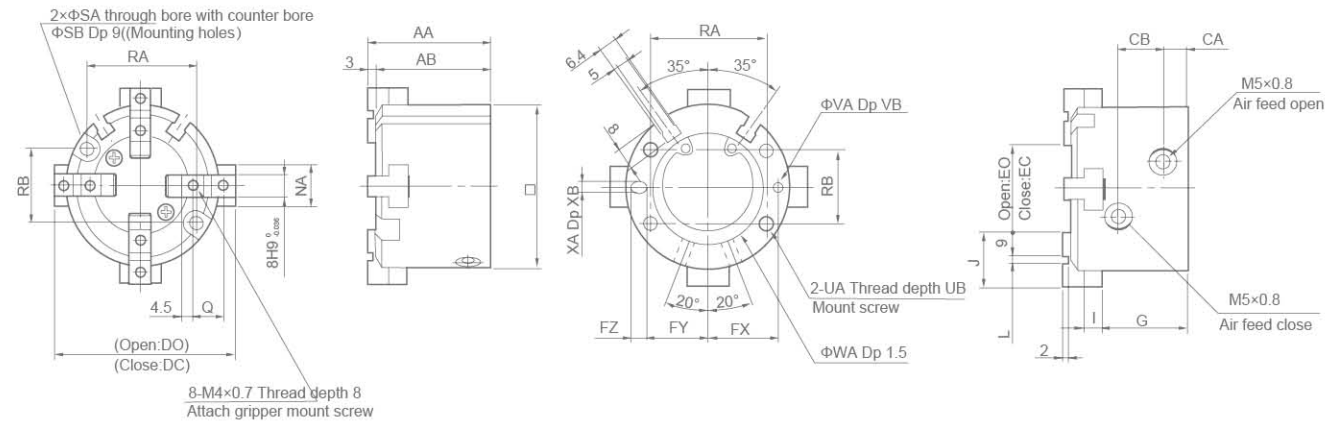
Bore(mm)	AA	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	O	P	Q
16	35	32	30	11	33	37	13	17	12.5	11	3	25	4	10	4	8	5h9 ⁰ _{-0.030}	2	M3x0.5	6
20	38	35	36	13	39	43	15	19	14.5	13	3	27	5	12	5	10	6h9 ⁰ _{-0.030}	2.5	M5x0.8	7
25	40	37	42	15	48	54	20	26	17	14.5	5	28	5	14	6	12	6h9 ⁰ _{-0.030}	3	M5x0.8	8

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

XHS4 Series Slide Guide Air Gripper (Round Body)

Overall Dimensions

XHS4-32D~40D

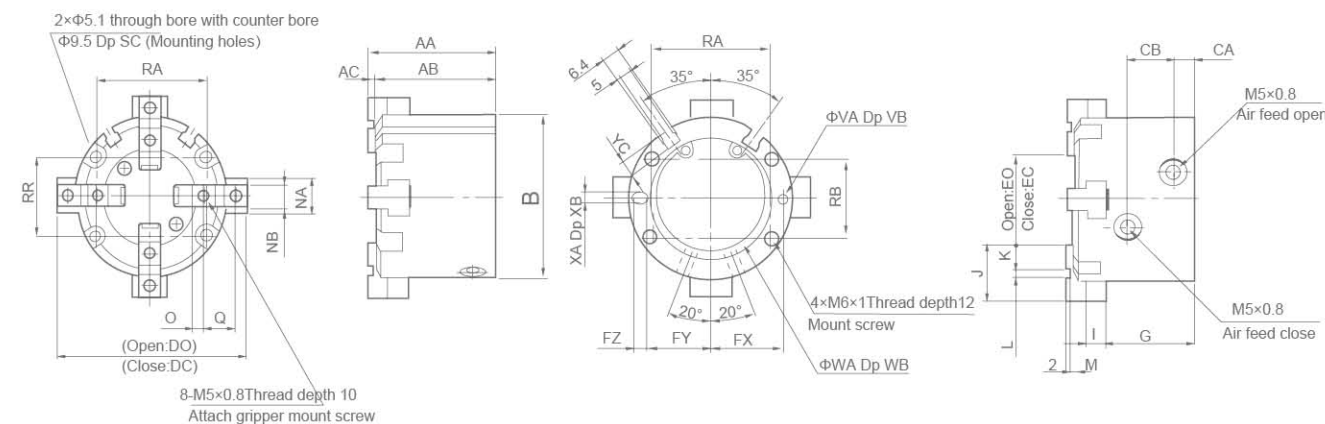


Bore(mm)	AA	AB	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	L	NA	Q	RA	RB	SA
32	44	41	56	8	16	60	68	20	28	23	20.5	5	30.5	6	20	2H9 ^{+0.025} ₀	14	11	38	25	4.5
40	47	44	62	9	17	66	74	24	32	26.5	23.5	6	32	7	21	3H9 ^{+0.025} ₀	16	12	44	28	5.5

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

Overall Dimensions

XHS4-50D~63D



Dimension Sheet

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

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

CY3B Series Rodless Cylinder

Ordering Code

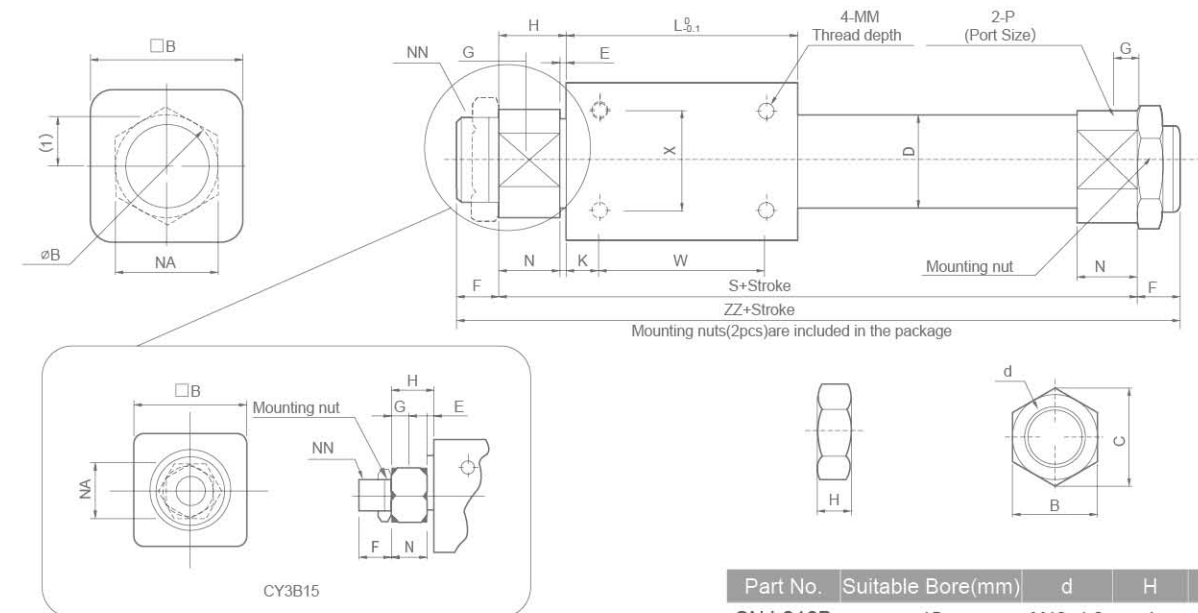
Series code	Piping Form	Bore Size	Stroke
CY3: Standard	B: Normal Type	15mm~40mm	See Stroke List



Specification

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

Overall Dimensions



Dimension Sheet

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

CY3R Series Rodless Cylinder



CY3R 25×300

Ordering Code

CY3R

G

25

50

Series code

CY3R: Magnetically
Coupled-Direct mount
Type

Piping Form

Blank: Both sides of the pipe
G: Centralized piping

Bore size

15mm~40mm

Stroke

See Stroke List

Specification

Bore(mm)	15	20	25	32	40
Fluid	Air(Non Lub)				
Max.operating pressure	0.7				
Min.operating pressure	0.16		0.15	0.14	0.12
Environment and fluid temperature	-10~60℃ (No freezing)				
Piston speed mm/s	50~500				
Cushion type	Rubber cushion on both ends				
Stroke tolerance	0~250 ₀ ^{+1.0} , 251~1000 ₀ ^{+1.4} , 1001~1500 ₀ ^{+1.8}				
Magnet holding force N	137	231	363	588	922
Port Size	M5×0.8			Rc1/8	

Stroke

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

70% longer wear ring length achieving an improvement in bearing performance compared to CY3B.

A special resin Lub-retainer is installed on the dust seal to achieve idea lubrication on the external surface of the cylinder tube.

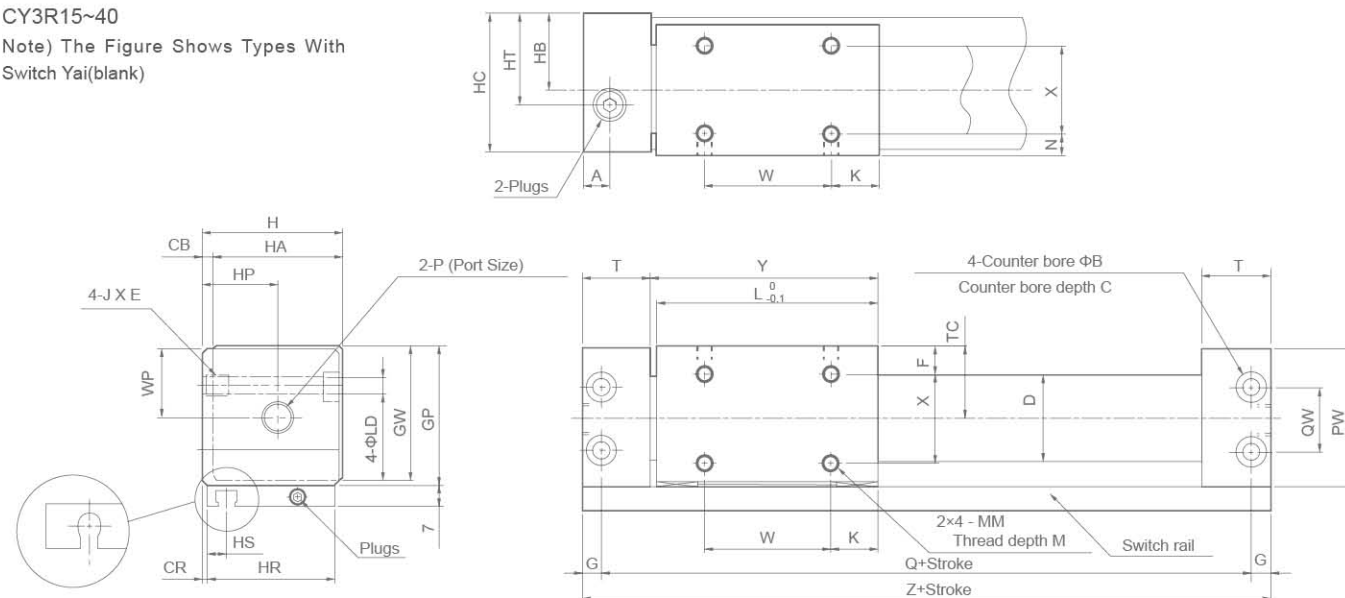
By using a Lub-retainer, the minimum operating pressure is reduced by 30%.

The mounting dimensions are the same as CY3B series.

Overall Dimensions

CY3R15~40

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



CY3R15,20

CY3R25,32,40

CY3R Series Rodless Cylinder

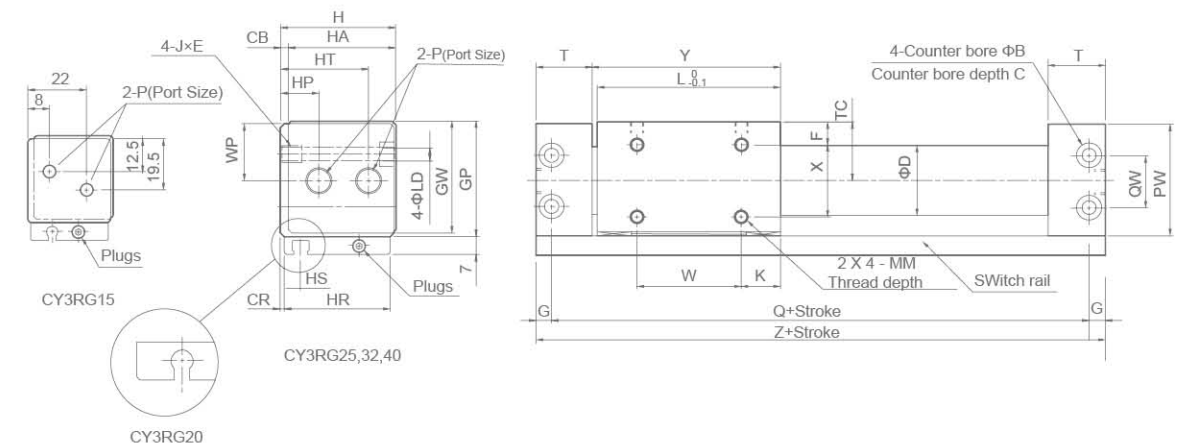
Dimension Sheet

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

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

Overall Dimensions

CY3RG15~40

Dimension Sheet

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

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

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

CY3S Series Rodless Cylinder



CY3S 25×300

Ordering Code

CY3S

— 20

H

× 50

BS

Series code

CY3S: Sliding Type
CDY3S: With
Switch Rail

Bore size

6mm~40mm

Magnet Holding

Force Type

H: High
L: Lower(Φ6-Φ10.
No.L)

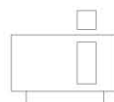
Stroke

See Stroke List

Stopper Form

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

Graphic Symbol



Specification

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

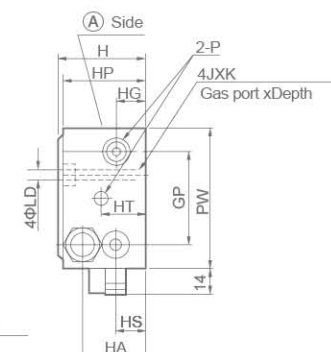
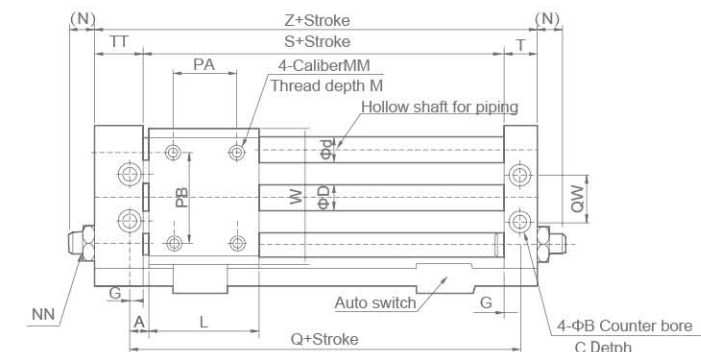
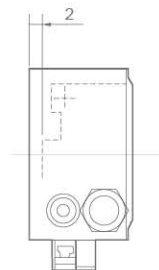
Stroke

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

CY3S Series Rodless Cylinder

Overall Dimensions

CY3S6~10



Dimension Sheet

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

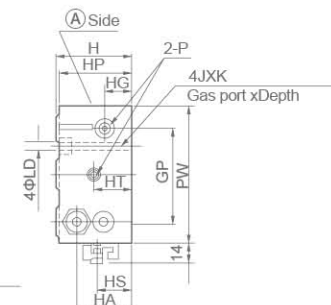
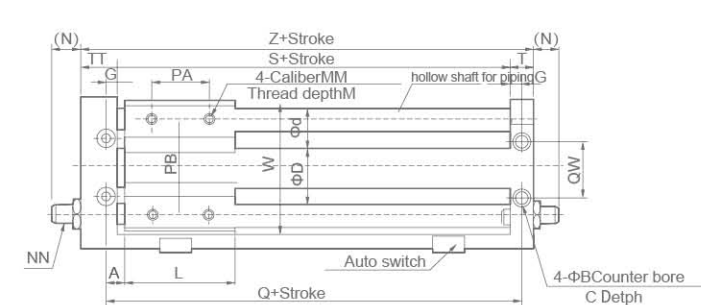
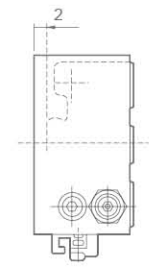
Bore(mm)	MM	NN	(N)	P	*PA	PB	PW	QW	Q	S	TT	Z	W
6	M4×0.7	M8×1.0	10	M5×0.8	25	25	50	16	52	42	16	68	46
10	M4×0.7	M8×1.0	9.5	M5×0.8	25	38	60	24	60	47	20.5	80	58

Note) Auto switch can also be mounted on (A) side

Equle about center for PA and L

Overall Dimensions

CY3S15~40



Dimension Sheet

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

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

Note) Auto switch can also be mounted on (A) side

Equle about center for PA and L

CY3L Series Rodless Cylinder



CY3L 15×200

Ordering Code

CY3L

20

—

H

×

50

BS

Series code

CY3L: Sliding Type
Ball Guide Bearing
Type

Bore Size

15mm~40mm

Magnet Holding

Force Type

H: High
L: Lower(Φ6-Φ10.No.L)

Stroke

See Stroke List

Stopper Form

No mark: With adjusting screw
B: 2 hydraulic shock absorbers
BS: 1 pcs hydraulic shock
absorber

Specification

Bore(mm)	6	10	15	20	25	32	40
Working Medium	Air(to be filtered by 40μm filter element)						
Action Type	Double-acting						
Max.operating Pressure	0.7MPa						
Min.operating Pressure	0.18MPa						
Environment and Fluid Temperature	-10~60℃ (No freezing)						
Piston Speed	50~1000mm/s						
Cushion Type	Rubber cushion on both ends Shock absorber(Optional)						
Stroke Tolerance(mm)	0~250 ₀ ^{+1.0} , 251~1000 ₀ ^{+1.4} , 1001~1500 ₀ ^{+1.8}						
Lubrication	Not required (Non-lube)						
Port Size	M5×0.8			Rc1/8			Rc1/4
Mounting Method	Unlimited						

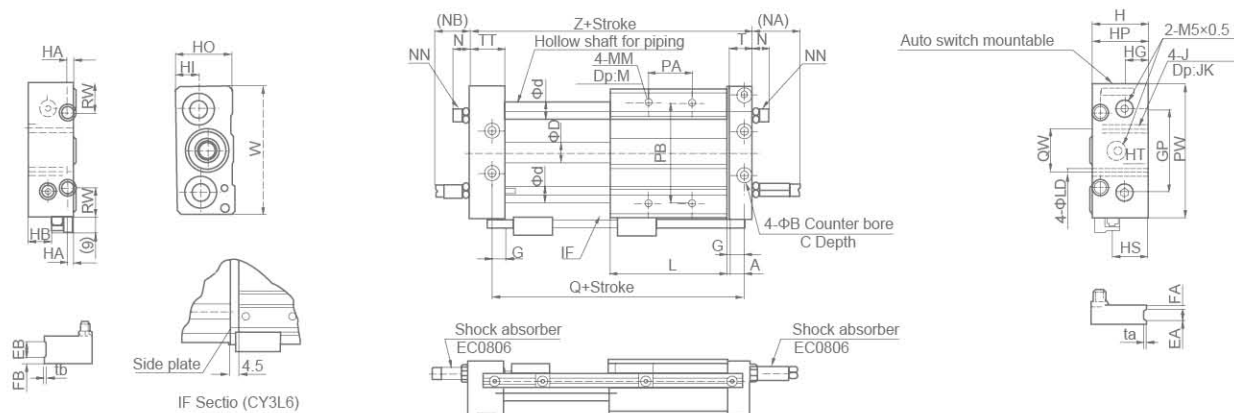
Such as the need for oil, please use turbine No.1 oil ISO VG32.

Stroke

Bore(mm)	Standard stroke(mm)	Longest stroke(mm)
6	50, 100, 150, 200	300
10	50, 100, 150, 200, 250, 300	500
15	50, 100, 150, 200, 250, 300, 350, 400, 450, 500	750
20		1000
25	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	
32		1500
40	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000	

Overall Dimensions

CY3L 6~10



CY3L Series Rodless Cylinder

Dimension Sheet

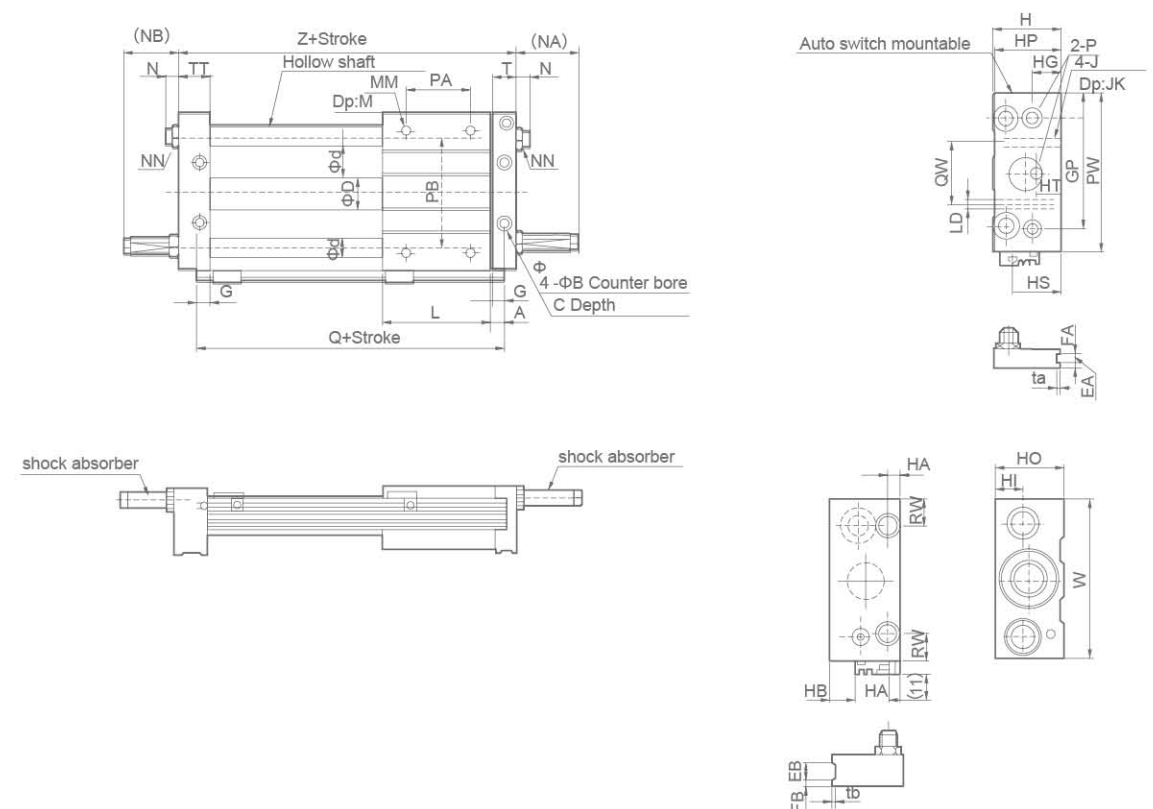
Bore(mm)	Travel range	A	B	C	D	d	EA	EB	FA	FB	G	GP	H	HA	HB	HG	HI	HO	HP	HS	HT
6	~300	7	6.5	3	7.6	8	-	-	-	-	6	36	27	6	10	11	9	25	26	14	16
10	~300	8.5	8	4	12	10	6	12	3	5	7.5	50	34	6	17.5	14.5	13.5	33	33	21.5	18

Bore(mm)	J	JK	L	D	M	MM	N	(NA)	(NB)	NN	*PA	PB	PW	Q	QW	RW	T	TT	ta	tb	W	Z
6	M4×0.7	6.5	40	3.5	6	M4×0.7	10	30	24	M8×1.0	24	40	60	54	20	12	10	16	-	-	56	68
10	M5×0.8	9.5	68	4.3	8	M4×0.7	9.5	27	19	M8×1.0	30	60	80	85	26	17.5	12.5	20.5	0.5	1.0	77	103

Note: Equale about center for PA and L.

Overall Dimensions

CY3L15~40



Dimension Sheet

Bore(mm)	Travel range	A	B	C	D	d	EA	EB	FA	FB	G	GP	H	HA	HB	HG	HI	HO	HP	HS	HT	J	JK	L	LD
15	~750	7.5	9.5	5	16.6	12	6	13	3	6	6.5	65	40	6.5	4	16	14	38	39	25	16	M6×1.0	9.5	75	5.6
20	~1500	9.5	9.5	5.2	21.6	16	-	-	-	-	8.5	80	46	9	10	18	16	44	45	31	20	M6×1.0	10	86	5.6
25	~1500	9.5	11	6.5	26.4	16	8	14	4	7	8.5	90	54	9	18	23	21	52	53	39	20	M8×1.25	10	86	7
32	~1500	10.5	14	8	33.6	20	8	16	5	7	9.5	110	66	12	26.5	26.5	24.5	64	64	47.5	25	M10×1.5	15	100	9.2
40	~1500	11.5	14	8/	41.6	25	10	20	5	10	10.5	130	78	12	35	30.5	28.5	76	74	56	30	M10×1.5	15	136	9.2

Bore(mm)	M	MM	(N)	(NA)	(NB)	NN	P	*PA	PB	PW	Q	QW	RW	T	ta	tb	TT	W	Z	Shock absorber
15	8	M5×0.8	7.5	27	17	M8×1.0	M5×0.8	45	70	95	90	30	15	12.5	0.5	1.0	22.5	92	112	HAC0806
20	10	M6×1.0	10	29	20	M10×1.0	1/8	50	90	120	105	40	28	16.5	-	-	25.5	117	130	HAC1005
25	10	M6×1.0	11	49	40	M14×1.5	1/8	60	100	130	105	50	22	16.5	0.5	1.0	25.5	127	130	HAC1412
32	12	M8×1.25	11.5	52	42	M20×1.5	1/8	70	120	160	121	60	33	18.5	0.5	1.0	28.5	157	149	HAC2020
40	12	M8×1.25	10.5	51	36	M20×1.5	1/4	90	140	190	159	84	35	20.5	1.0	1.0	35.5	187	194	HAC2020

Note: Equale about center for PA and L.

XSHS Series Air Gripper(Through-hole type)

Ordering Code

XSHS ☐ 3 32 D ☐ ☐

Series Code
XSHS: Through-hole Type

Dust Cover
Blank: None
J: With Dust Cover (Φ16, Φ20, Φ25 are not available with Dust cover)

Finger Quantity
3: 3PCS

Cylinder Bore
16mm~80mm

Action
D: Double-acting

Center Pusher
Blank: None
A: Cylinder Type
B: Spring Type (Φ16, Φ20, Φ25 are not available with Dust cover)

Dust Cover Material
Blank: CR
F: FKM
S: Si(with dust cover only)

XSHS3-20D

Specification

Bore(mm)		16	20	25	32	40	50	63	80
Working Medium		Air(No Lubrication)							
Operating Pressure Range		0.2~0.6			0.1~0.6				
Ambient And Fluid		-10~~+60°C (Not frezzing)							
Repeatability Precision		±0.01							
Max.motion Frequency		120			60				30
Lubrication		Not required							
Motion Pattern		Double acting							
Note:grip Power Pressure 0.5Mpa	Outer Diameter Grip	9	21	36	62	97	155	280	400
	Inner Diameter Grip	15	26	45	77	118	187	329	490
Central Hole Diameter		Φ3H10 ^{+0.040} ₀	Φ3H10 ^{+0.040} ₀	Φ4H10 ^{+0.040} ₀	Φ6H10 ^{+0.048} ₀	Φ10H10 ^{+0.058} ₀	Φ12H10 ^{+0.070} ₀	Φ16H10 ^{+0.070} ₀	Φ20H10 ^{+0.084} ₀
Open Close Stroke		4	4	6	8	8	12	16	20

Note: Grip distance, Φ16-Φ25, is 20mm, at Φ32-Φ63, is 30mm, at Φ80, is 50mm

SRC Series Twist Clamp Cylinder

Ordering Code

SRC R 32 × 13 ☐

Series Code
SRC: Twist clamp Cylinder

Rotary Direction
R: Right
L: Left

Cylinder Bore
25mm-63mm

Stroke(push)
25: 11mm
32: 13mm
40: 13mm
50: 15mm
63: 15mm

Plate Type
Blank: Single Plate
D: Double Plate (not available for Φ25)

SRC40-90L

Specification

Bore(mm)	25	32	40	50	63
Motion Pattern	Double Action				
Working Medium	Air				
Operating	1.5~9.5(150-950) kg/cm ² (kpa)				
Operating Temperture	0~60				
Operating Stroke	30~500 mm/sec				
Rotating Stroke	11	13			15
Pushing Stroke	11	13			15
Rotating Angle	90°can be customized(0°, 45°, 90°)				
Rotating Direction	Left-harded rotation [from right to left]-L, Right-handed rotation[from left to right]				
Cushion Direction	Rubber Gasket Buffer				
Lubricating	Self Motion Finish Pattern				
Port Size	M5×0.8				

ACK Series Twist Clamp Cylinder

Ordering Code

ACK L 25 90 ☐

Series Code
ACK: Twist Clamp Cylinder (Double Acting Type)
ACKD: Twist Clmp Cylinder (Double Push Plate Type, only for 90°)

Rotary Direction
L: Push and turn left
When the piston of cylinder moves downward, the swivel arms moves anticlockwise, this is called levorotatory
R: Push and turn right
When the piston of cylinder moves downward, the swivel arms moves clockwise, this is called destrorotary

Cylinder Bore
25mm~63mm

Rotary Angle
90: 90°
180: 180°

Thread Type
Blank: PT
N: NPT
G: G

ACKL25-90

Specification

Bore(mm)	25	32	40	50	63
Metion Pattern	Double Action				
Working Medium	Air				
Operating Pressure Range	0.15~1.0(23~148) kg/cm ² (kpa)				
Compression Resistance	1.5(215) kg/cm ² (kpa)				
Working Temperature °C	-20~80 °C				
Operating Speed Range	30~300 mm/s				
Stroke Tolerance Range	+1.0 0				
Rotating Angle Tolerance Range	±1.5				
*Cushion Model	crash pad				
*Port Size	M5×0.8 PT1/8				

MXH Series Slide Cylinder

Ordering Code

MXH 10 × 30

Series Code
MXH: Air Slide Table

Cylinder Bore
6mm-20mm

Stroke
5mm-60mm

MXH 16-10

Specification

Bore(mm)	6	10	16	20
Guide Bearing Width	5	7	9	12
Working Medium	Air(to be filtered by 40μm filter element)			
Action	Double acting			
Min.operating Pressure	0.15MPa	0.06MPa	0.05MPa	
Max.operating Pressure	0.7MPa			
Ambient And Fluid Temperature	Without auto switch:-10~+70°C With auto switch:-10~+60°C (No freezing)			
Piston Speed	50~500mm/s			
Allowable Kinetic Energy	0.0125	0.025	0.05	0.1
Lubrication	Non-lube			
Cushion	Rubber bumper on both ends			
Stroke Length Tolerance	+1.0 0			
Piping Port Size	M5×0.8			

Such as the need Lubrication, please use turbine No.1 oil ISO VG32.

MXS Series Slide Cylinder



MXS 12 × 50

Ordering Code

MXS

12

×

50

□

—

□

Series Code

MXS: Air Slide
Table

Cylinder Bore

6mm~20mm

Stroke

10mm~150mm

Adjuster Option

Blank: Standard
AS: Adjuster on extension end
AT: Adjuster on retraction end
A: Adjuster on both ends
BS: Absorber on extension end
(not available forΦ6)
BT: Absorber on retraction end
(not available forΦ6)
B: Absorber on both ends
(not available forΦ6)

Function Option

Blank: Standard
F: With buffer
R: With end lock
(not available forΦ6)
P: Axial Piping Type
FR: With buffer and end
lock(not available forΦ6)
FP: With Buffer and
axial Piping Type

Specification

Bore(mm)	6×2 (Equivalent Φ8)	8×2 (Equivalent Φ11)	12×2 (Equivalent Φ17)	16×2 (Equivalent Φ22)	20×2 (Equivalent Φ28)	25×2 (Equivalent Φ35)
Working Medium	Air(to be filtered by 40μm filter element)					
Action Way	Double-acting					
Maximum Operating Pressure	0.7MPa					
Minimum Operating Pressure	0.15MPa					
Environment And Fluid Temperature	-10~+60°C					
Piston Speed	50~500mm/s					
Buffering	Rubber buffer(standard)					
Lubrication	Non-lube					
Port Size	M3×0.5	M5×0.8	Rc1/8			

MXQ Series Slide Cylinder



MXQ 16x20

Ordering Code

MXQ

12

□

×

50

□

—

FR

Series Code

MXQ: Air Slide
Table

Cylinder Bore

6mm~25mm

Body Option

Blank: Standard
L: Symmetric Type

Stroke

10mm~150mm

Adjuster Type(optional)

Blank: Standard
AS: Buffer on extension end
AT: Buffer on retraction end
A: Buffer on Both ends
BS: Absorber on extension end(not available
forΦ6)
BT: Absorber on retraction end(not available
forΦ6)
B: Absorber on both ends(not available forΦ6)
CS: Metal stopper on extension end
CT: Metal stopper on retraction end
C: Metal stopper on both ends

Function Option

Blank: Standard
F: With Buffer
R: With end lock(not
available forΦ6)
P: Axial piping type
FR: With buffer and
end lock(not available
forΦ6)
FP: With buffer and
axial piping type

Specification

Bore(mm)	6×2 (Equivalent Φ8)	8×2 (Equivalent Φ11)	12×2 (Equivalent Φ17)	16×2 (Equivalent Φ22)	20×2 (Equivalent Φ28)	25×2 (Equivalent Φ35)
Working medium	Air(to be filtered by 40μm filter element)					
Action way	Double-acting					
Maximum operating pressure	0.7MPa					
Minimum operating pressure	0.15MPa					
Environment and fluid temperature	-10~+60°C (But not frozen)					
Specifications	50~500mm/s(Adjuster option/Metal stoppe:50~200mm/s)					
Cushion	Rubber buffer(standard,Adjuster option/Rubber stopper) Shock absorber(Adjuster option/Shock absorber) None(Adjuster option/Metal stopper)					
Stroke length tolerance	No need					
Lubricatin	Non-Lub					
Port Size	M3x0.5	M3x0.8	Rc1/8			

CRB2 Series Vane Rotary Actuators



CRB2BW30-270S

Ordering Code

CRB2

B

W

U

10

—

180

S

Series Code

CRB2: Rotary
Vane
CDRB2: With
Magnet

Mounting Type

B: Basic Type
F: Flange Type(Not
available for Φ40)

Shaft Type

S: Single Shaft
W: Double shaft

Angle Adjuster

Blank: Without
U: With

Cylinder Bore

10mm~40mm

Rotation Angle

90: 90°
100: 100°(Double
Vane)
180: 180° (Single
Vane)
270: 270° (Single
Vane)

Vane Type

S: Single Vane
D: Double Vane

Specification

Bore(mm)			10	15	20	30	40
Working medium			Air(to be filtered by 40μm filter element)				
Max.operating pressure			0.7MPa			1.0MPa	
Min.operating pressure			0.2MPa		0.15MPa		
Ambient and fluid temperature			5~60℃				
Rotation time adjustment range			0.03~0.3mm/s		0.04~0.3mm/s		0.07~0.5mm/s
Allowable kinetic energy	Single vane	With cushion	0.00015	0.00025	0.0001	0.015	0.03
		Without cushion		0.001	0.003	0.02	0.04
	Double vane		0.0003	0.0012	0.0033	0.02	0.04
Shaft load		Radial	15	15	25	30	60
		Thrust	10	10	20	25	40
Connection size	Side ported	M3×0.5			M5×0.8		
	Axial ported	(Single-blade cylinder side swing angle 90°、180°-M5×0.8)					
Angle adjustable range of angle adjustment unit	Single vane	0~230°		0~240°			0~230°
	Double vane				0~90°		

MRHQ Series Rotary Gripper(Angular Type)



MRHQ16-180S

Ordering Code

MRHQ

10

D

—

90

S

Series Code

MRHQ: Rotary 2
Fingers Gripper

Cylinder Bore

10mm~25mm

Action

D: Double-acting
S: Single-acting
(Normally Open)
C: Single-acting
(Normally Closed)

Rotation Angle

90: 90°
180: 180°

Single Vane

Single Vane

Specification

Bore(mm)	10	16	20	25
Working Medium	Air(to be filtered by 40μm filter element)			
Claw Motion Pattern	0.7			
Operating Pressure Range (Mpa)	Rotating	0.25~0.7		
	Claw	Double Action	0.25~0.7	0.1~0.7
		Single Action	0.35~0.7	0.25~0.7
Pendulum Angle	90°±10°, 180°±10°			
Claw Gripe Open Close Repeatability Precision	±0.01mm			
Claw Highest Motion Frequency	180c.p.m			
Ambient And Fluid Temperature	5~60°C (Not freezing)			
Pendulum Adjustable Time	0.07~0.3s/90° (0.5MPa)			
Permission Kinetic Energy (J)	0.0046	0.014	0.034	0.074
Gripper Open Close Stroke (mm)	4	61	0	14

MSUB Series Rotary Table (Vane Type)



MSUB7-180S

Ordering Code

MSUB

Series Code

MSUB: Normal Type
MDSUB: Attach
Magnet Type

20

Nominal Size

1: MSUB 1
3: MSUB 3
7: MSUB 7
20: MSUB 20

90

Rotation Angle

90: 90°
180: 180°

S

Vane Type

S: Single Vane
D: Double Vane

Specification

Model		MSUB1		MSUB3		MSUB7		MSUB20	
Vane Pattern				Single Vane					
Rotating angle		90°±10°	180°±10°	90°±10°	180°±10°	90°±10°	180°±10°	90°±10°	180°±10°
Working Medium				Air(No Lubrication)					
Ambient and fluid temperature		5~60℃							
Operating Pressure range (MPa)		0.2~0.7			0.15~0.7			0.15~1.0	
Rotation time adjustable range (0.5MPa)				0.07~0.3s/90°					
Bearing				Bearing					
Port size		Body side		M3×0.5		M5×0.8			
Rotation Precision				Within 0.03mm					
Permission axle Lead	Radial direction	20		40		50		60	
	Axial direction	15		30		60		80	
	Moment (N·m)	0.3		0.7		0.9		2.9	

MU Series Plate Air Cylinder



MDUD 25 × 40

Ordering Code

MU

Series Code

MU: Normal Type
MDU: Attach
Magnet Type

□

Rod Type

Blank: Single rod B: Basic Type
W: Double rod

B

Mounting Type

Blank: Rod end
W: Double rod

25

Cylinder Bore

25mm~63mm

50

Stroke

D

Action

D: Double-acting
S: Single-acting
Extrusion Type
T: Single-acting
Drawing-in Type

□

Rod End Thread

Blank: Rod end
Female Thread
M: Rod end Male
Thread

Specification

Bore(mm)	25	32	40	50	63
Working Medium	Air				
Action way	Double-acting Single-acting Drawing-in Type, Single-acting Extrusion Type				
Maximum operating pressure	0.7MPa				
Minimum operating pressure	Double-acting: 0.05MPa Single-acting: 0.18MPa				
Environment and fluid temperature	-10~60℃				
Piston Speed	50~500mm/s				
Cushion	Two side rubber cushion				
Stroke adjustable Range	+1.4 0				
*Lubricatin	No need				
Precision of Piston rod Non-rotating	±1°			±0.5°	
Port Size Rc	M5×0.8	1/8		1/4	

Such as the need Lubrication, please use turbine No.1 oil ISO VG32.

XHTG Series Rotary Indexing Table



XHTG63-12-A

Ordering Code

XHTG

Series Code

Rotary indexing table

90

Cylinder Size

65mm~220mm

2

Indexing

2:2 indexing stations
3:3 indexing stations
4:4 indexing stations
6:6 indexing stations
8:8 indexing stations
12:12 indexing stations
24:24 indexing stations

A

Position Sensing

A: For proximity sensor

P4

Energy through-feed

Blank: None
P4: Pneumatic, 4 ducts
P4L12: Pneumatic, 4 ducts
and electric, 12 cables
P4E4: Pneumatic, 4 ducts
and electric, 4 cables

Specification

Size(mm)	65	90	140	220
Operating Medium	Compressed air			
Mode Of Operation	Double-acting			
Operating Pressure	0.4~0.8MPa			
Ambient Temperature	5~60℃			
Storage Temperature	-20~80℃			
Cushioning	Adjustable shock absorber stroke, hard characteristic curve			
Indexing	2, 3, 4, 6, 8, 12, 24			
Theoretical Torque At 0.6MPa	2.1Nm	4.4Nm	18.1Nm	58.9Nm
Parallelism Of Plate	≤0.04mm			
Axial Eccentricity Of Plate	≤0.02mm			
Concentricity Of Plate	≤0.02mm			
Repetition Accuracy Of Swivel Angle	≤0.03°			
Max. Mass Moment Of Inertia With Out Flow Control	0.016kgm ²	0.03kgm ²	0.3kgm ²	2.5kgm ²
Port Size	M5			

XFM Series Guide Rod Cylinder



XFM16X30-P-A-GF

Ordering Code

XFM

Series

Guided Cylinder
Double-acting

20

Piston Diameter

6mm~100mm

25

Stroke range

10mm~400mm

B

Generation

Blank: Standard
B: Function-optimised

P

Position Sensing

A: For proximity sensor

A

Cushioning

P: Elastic cushioning rings/plates on
both sides
PPV: Pneumatic cushioning,
adjustable at both ends
YSRW: Shock absorber, self
adjusting, progressive

GF

Guide

GF: Plain bearing
KF: Recirculating
ball bearing guide

Specification

Piston Diameter(mm)	6	10	12	16	20	25	32	40	50	63	80	100
Operating Medium	Compressed air											
Operating Pressure (Mpa)	0.2~0.8	0.15~0.8	0.2~1		0.15~1		0.1~1		0.05~1			
Ambient Temperature	XFM-...-GF		-10~60℃				-20~80℃					
	XFM-...-KF		-				-5~60℃					
Cleanroom Class	XFM-...-GF		-		8				6		-	
	XFM-...-KF		-		5						-	
Port Size	M3		M5		G1/8"		G1/4"		G3/8"			

XRRD Series Twin Pistons Semi-rotary Cylinder



XRRD16-180-P

Ordering Code														
XRRD	10	—	180	FH	—	P2	—	P	—	A		PS1		E1
Series	Size			Output Shaft		Energy through-Feed		Position Sensing						End-Position Locking
Twin Pistons	8mm			FH: Flanged		Blank: None		A: For proximity sensor						Blank: None
Semi-rotary	10mm			shaft, hollow		P2								E1: Both sides
Cylinder	12mm					P2E2P4								
						P4E6								
						P8								
						P8E8								
							</							

Specification

Size(mm)		8	10	12
Operating Medium		Compressed air		
Mode of Operation		Double-acting		
Operating Pressure	XRRD-...-P	0.3~0.8MPa		
	XRRD-...-Y9/-Y12	0.2~1MPa		
Ambient Temperature		-10~60℃		
Storage Temperature		-20~60℃		
Swivel Angle		180°		
Repetition Accuracy		≤ 0.03°		
Axial Run-out		≤ 0.02mm		
Max. axial load (static)	Pulling	260N	260N	330N
	Pushing	700N	1100N	1400N
Port Size		M3		M5

XSM Series Semi-Rotary Cylinder



XSM25-270-P-V

Ordering Code							
XSM	T	8	90	P	A	□	□
Series	Design Type	Size	Nominal Swivel Angle	Cushioning	Position Sensing	Adjustable Swivel Angle	Shaft
Semi-rotary Cylinder	Blank: Standard Tandem, vane	6mm 8mm 10mm	90: 90° 180: 180° 200: 200° 240: 240°	P: Elastic cushioning rings /Plater on Both Sides	Blank: None A: For proximity sensor	Blank: Fixed swivel angle FF: Adjustable swivel angle	Blank: Spigot shaft FW: Flanged shaft

Specification

Size(mm)		6	8	10
Operating Medium		Compressed air		
Operating Pressure	XSM	0.35~0.8MPa	0.35~0.8MPa	0.25~0.8MPa
	XSM-T	0.4~0.8MPa	0.4~0.8MPa	0.35~0.8MPa
Ambient Temperature		0~60℃		
Storage Temperature		20℃		
Cushioning		Elastic cushioning rings/plates at both ends		
Swivel Angle	XSM	90° or 180°	90° or 180°	90°, 180° or 240°
	XSM-...-FF	0~180°		0~200°
Max. Swivel Frequency At 0.6 Mpa		3Hz		3Hz (at 240°: 2 Hz)
Cushioning Angle		0.5°		
Air Consumption	XSM	0.6cm ³	0.7cm ³	5.5cm ³
At Swivel Angle Of 90° And 0.6 Mpa	XSM-T	1.2cm ³	1.4cm ³	11cm ³
Port Size		M3		

XRVS Series Semi-Rotary Cylinder



XRVS25-270-P

Ordering Code			
XRVS	12	180	P
Series	Bore Size	Nominal Swivel Angle	Cushioning
Semi-rotary Cylinder, double-acting	6mm~40mm	90: 90° 180: 180° 270: 270°	P: Elastic cushioning rings/plates on both sides

Specification

Size(mm)		6	8	12	16	25	32	40
Operating Medium		Compressed Air						
Operating Pressure		0.35~0.8mpa		0.25~0.8mpa		0.2~0.8mpa		
Ambient Temperature		0~60℃						
Storage Temperature		20℃						
Cushioning		Elastic Cushioning At Both Ends						
Swivel Angle		90°or180°		90°or 180°or 270°				
Cushioning Angle		0.5°						
Repetition Accuracy		1°						
Max. Swivel Frequency At 0.6 Mpa	Swivel Angle 90°, 180°				3Hz			
	Swivel Angle 270°	-			2Hz			
Port Size		M3		M5			G1/8"	

XSR Series Semi-Rotary Cylinder



XSRL16-180-P-FW

Ordering Code				
XSR	16	180	P	FW
Series	Bore Size	Nominal Swivel Angle	Cushioning	Shaft
XSR: Semi-rotary Cylinder XSRL: Semi-rotary Cylinder	10~40mm	180: 180°	P: Elastic cushioning rings/plates on both sides	Blank: Spigot shaft FW: Flanged shaft

Specification

Size(mm)	10	12	16	25	32	40
Operating Medium	Compressed air					
Operating Pressure	0.25~0.8MPa	0.2~0.8MPa			0.15~0.8MPa	
Temperature Range	-10~60℃					
Type Of Mounting	With through-hole					
	Via accessories					
Mounting Position	Optional					
Max. Swivel Angle	0 ~181 °			0~184 °		
Port Size	M3		M5		G1/8"	

XHPS Series Parallel Air Gripper



XHPS2-16-A

Ordering Code

XHPS

Series
Parallel Gripper

2

Fingle Quantity
2 PCS

10

Bore Size
6mm~35mm

A

Position Sensing
A:For Proximity Sensor

□

Gripping Force Backup
Blank:None
NC:N/O Contact
NO:Opening

Specification

Size(mm)		6	10	16	20	25	35
Operating Medium		Compressed Air					
Mode Of Operation		Double-Acting					
Max. Operating Pressure		0.8MPa					
Min. Operating Pressure	XHPS-...-A	0.2MPa					
	XHPS-...-A-N	-	0.4MPa				
Ambient Temperature		5~60℃					
Gripper Function		Parallel					
Guide		Plain-Bearing Guide					
Gripping Force Backup		-	NO, NC	NO, NC	NO, NC	NO, NC	NO, NC
Stroke Per Gripper Jaw		2	3	5	6.5	7.5	12.5
Repetition Accuracy		≤0.02mm					
Max. Interchangeability		≤ ±0.2mm					
Max. Operating Frequency		4Hz		3Hz		2Hz	
Rotational Symmetry		< Φ0.2mm					
Port Size		M3			M5	G1/8"	

XHRS Series Radial Gripper



XHRS2-25-A

Ordering Code

XHRS

Series
Radial Gripper

2

Fingle Quantity
2 PCS

16

Bore Size
10mm~40mm

A

Position Sensing
A:For Proximity Sensor

□

Gripping Force Backup
Blank:None
NC:N/O Contact

Specification

Size(mm)		10	16	25	32	40
Operating Medium				Compressed Air		
Mode Of Operation		Double-Acting				
Max. Operating Pressure				0.8MPa		
Min. Operating Pressure	XHRS-...-A	0.2MPa				
	XHRS-...-A-NC	-	0.4mpa			
Ambient Temperature				5~60℃		
Max. Opening Angle		180°				
Repetition Accuracy				≤ 0.1mm		
Max. Interchangeability		≤±0.2mm				
Max. Operating Frequency			4Hz	3Hz		2Hz
Rotational Symmetry		< Φ0.2mm				
Port Size		M3	M5		G1/8"	

XGPD Series Sealed Parallel Gripper



XGPD2-25-A

Ordering Code

XGPD

Series
Sealed Parallel gripper

2

Fingle Quantity
2 PCS

20

Bore Size
16mm~80mm

A

Position Sensing
A:For Proximity Sensor

□

Gripping Force Backup
Blank:None
NC:N/O Contact
NO:Opening

Specification

Size(mm)		10	20	25	35	40	50	63	80
Operating Medium					Compressed Air				
Mode Of Operation		Double-Acting							
Max. Operating Pressure					0.8MPa				
Min. Operating Pressure	XGPD-...-A				0.3MPa				
	XGPD-...-A-G				0.4MPa				
Operating Pressure For Sealing Air					0~0.5MPa				
Ambient Temperature		5-60℃							
Repetition Accuracy		≤0.03mm	≤0.04mm		≤0.05mm				
Max. Interchangeability					±0.2mm				
Max. Operating Frequency			≤3Hz		≤2Hz				
Rotational Symmetry					Φ0.2mm				
Port Size			M5			G1/8"			G1/4"
Port Size, Sealing Air		M3					M5		
Port Size, Lubrication Nipple		M3					M5		

XGPT-B Series Heavy-Duty Parallel Gripper



XGPT35-A-B

Ordering Code

XGPT

Series
Heavy-Duty
Parallel Gripper

20

Bore Size
16mm~80mm

×

A

Position Sensing
A:For Proximity Sensor

-

B

Generation
B:B Series

-

F

Gripping Force
Blank:Standard
F:High

□

Gripping Force Backup
NC:N/O Contact
NO:Opening

Specification

Size(mm)		16	20	25	35	40	50	63	80
Operating Medium					Compressed Air				
Mode Of Operation		Double-Acting							
Max. Operating Pressure					0.8MPa				
Min. Operating Pressure	XGPT-...-A-B				0.3MPa				
	XGPT-...-A-B-G				0.4MPa				
Operating Pressure For Sealing Air					0~0.05MPa				
Ambient Temperature		5~60℃							
Repetition Accuracy		±0.01mm	±0.02mm		±0.025mm				
Max. Interchangeability					0.2mm				
Max. Operating Frequency			3Hz			2Hz			
Rotational Symmetry					<Φ0.2mm				
Port Size			M5			G1/8"		G1/4"	
Port Size, Sealing Air		M3		M5					

|| XRB Series Servo Electric Cylinder



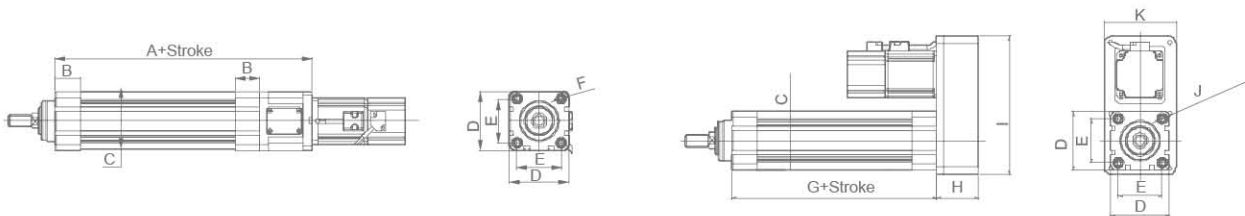
Ordering Code

XRB	50	L10	S100	□	XRW	XRZX	P100W	B
Series Code	Bore	Lead	Stroke	Installation	Front Connector	Input	Servo Motor Type	Brake
	32mm 50mm 63mm 80mm 100mm 120mm		50~500mm	XRQD:Front Flange	XRW: External Thread XRN: Internal Thread XRCX: Fork Pin End XRQT: Hinged Ball Head	XRZX:Linear Mounting Flange P10: Parallel Mounting 1:1 P20: Parallel Mounting 2:1	M: Mitsubishi YF: Yaskawa P: Panaspnic F: Fuji T: Delta	

Specification

Model	XRB32				XRB50			XRB63			XRB80			XRB100			XRB120		
Screw Diameter (mm)	Φ8				Φ16			Φ20			Φ25			Φ32			Φ40		
Screw Lead (mm)	1	2			5	10	20	5	10	20	5	10	25	5	10	20	5	10	20
Rated Dynamic Load (Kgf)	160	85			1112	839	554	1484	1516	764	1650	1638	1232	2730	4680	1901	2990	5170	3959
Maximun Input Speed (r/min)	3000												2000						
Maximun Operating Speed (r/min)	50	100			250	500	1000	250	500	1000	250	500	1000	167	333	666	166	333	666
Adapted Motor power (W)	100				400			400/750			750/1000			1000/1500			1000/1500		
Maximun Output (Kgf)	20				100			300			800			3000			5000		
Repeated Precision (mm)	±0.02																		
Stroke Range (mm)	50~300 (Special stroke can be customized)				50~600 (Special stroke can be customized)							50~500 (Special stroke can be customized)							

Overall Dimensions



Dimension Sheet

Bore(mm)	A	B	C	D	E	F	G	H	I	J	K
32	153.5	-	47	47	32.5	4-M6	100.5	38	109.5	4-M6	-
50	218	30	63	64	46.5	4-M8 Dep18	158	40	143.5	4-M8 Dep18	82
63	231	32	74	76	56.57	4-M8 Dep18	163	54	178	4-M8 Dep18	92
80	284	33	92	93	72	4-M8 Dep18	197	93	213.4	4-M8 Dep18	112
100	332	37	109	110	89	4-M10 Dep18	214	85	326.5	4-M10 Dep18	-
120	381	-	140	140	110	4-M14	237	75	330	4-M14	-

|| X Series Ball-Screw Type Electric Cylinder



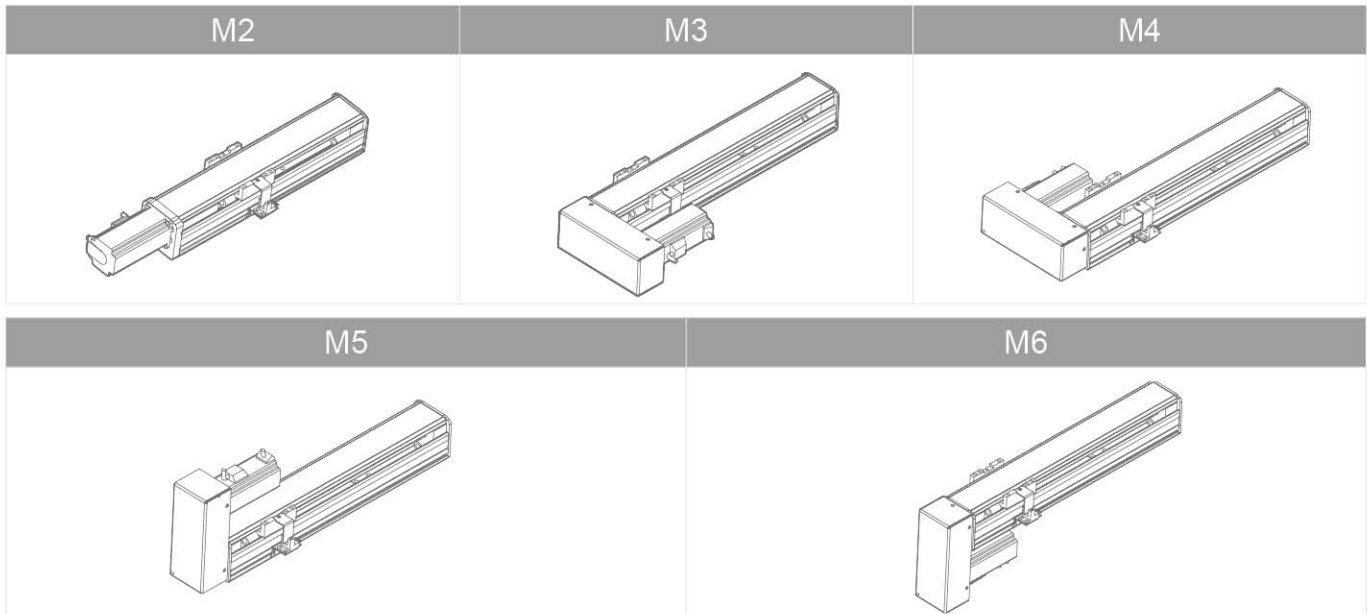
Ordering Code

X50D	L10	S800	M2	M	100W	B
Model	Lead	Stroke	Motor Direction	Motor Brand	Motor Output	Brake
X50D X80D X100S X100D X136D X168D X202D		100~1450mm	M1: Motor inside position (Available for 100,168,202) M2: Motor outside position M3: Motor outside,rightward position M4: Motor outside,leftward position M5: Motor outside,upper position M6: Motor ousided,lower position	H: Hiwin S: Sanyo M: Mitsubishi Y: Yaskawa P: Panasonic F: Fuji B: Belta	100~750W	

Specification

Model		X50D				X80D				X100S/X100D				X136D				X168D				X202D			
AC Servo motor output (W)		100W				400W				200W				400W				750W							
Repeatability (mm)		±0.02																							
B.S (Φ)		12	12	16	16	16	16	16	16	16	16	16	16	16	16	16	25	25	25	25	32	32	32	32	
Lead (mm)		5	10	5	10	16	20	5	10	16	20	5	10	16	20	5	10	20	25	5	10	20	25	32	
Maximun speed (mm/sex)		250	500	250	500	800	1000	250	500	800	1000	250	500	800	1000	250	500	1000	1250	250	500	1000	1250	1600	
Maximun	Level use (H)	9	5.5	35	25	15	10	50	35	25	20	85	70	65	35	110	80	75	65	120	100	85	75	65	
payload (kg)	Vertical use (V)	2.5	1.2	13	9	5	4	15	10	8	5	25	20	15	8	40	35	15	11	55	45	25	23	20	
Rated thrust (N)		70	35	300	150	85	75	300	150	85	75	640	320	225	160	945	480	240	200	2050	1025	560	420	350	
Stroke (mm)		100~800: 50(Interval)				100~1050: 50(Interval)												100~1450: 50(Interval)							

Motor Direction



XC Series Ball-Screw Type Electric Cylinder(Clean Room)



Ordering Code

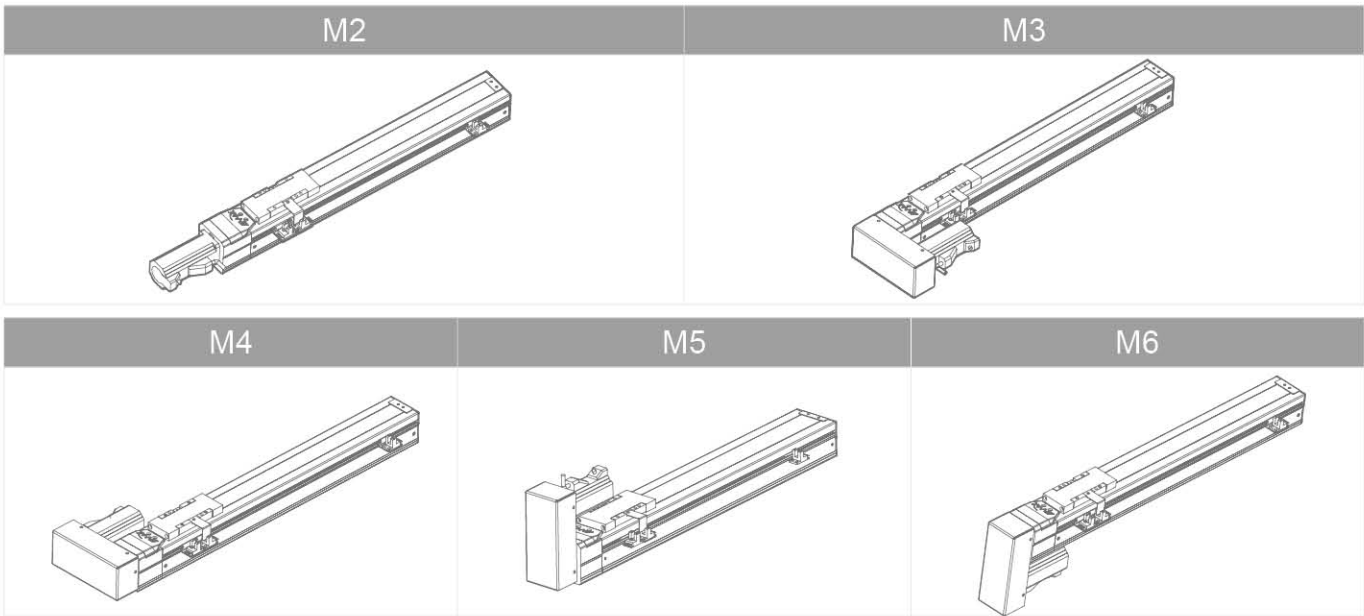
XC50D — L10 — S800 — M2 — M — 100W — B

Model	Lead	Stroke	Motor Direction	Motor Brand	Motor Output	Brake
XC50D XC60D XC100D XC136D XC168D		100~1250mm	M1: Motor inside position (Available for 136) M2: Motor outside position M3: Motor outside, rightward position M4: Motor outside, leftward position M5: Motor outside, upper position M6: Motor outside, lower position	H: Hiwin S: Sanyo M: Mitsubishi Y: Yaskawa P: Panasonic F: Fuji D: Delta	100W~400W	

Specification

Model		XC50D		XC60D		XC100D				XC136D				XC168D			
AC Servo motor output (W)		100W								200W				400W			
Repeatability (mm)		±0.02															
B.S (Φ)		12	12	12	12	16	16	16	16	16	16	16	16	25	20	20	25
Lead (mm)		5	10	5	10	5	10	16	20	5	10	16	20	5	10	20	25
Maximum speed (mm/sec)		250	500	250	500	250	500	800	1000	250	500	800	1000	250	500	800	1250
Maximum payload (kg)	Level use (H)	9	5.5	30	15	50	35	25	20	80	70	65	35	110	80	75	65
	Vertical use (V)	2.5	1.2	9	5	12	10	8	5	25	20	15	8	40	35	15	11
Rated thrust (N)		70	35	250	130	300	150	85	75	640	320	225	160	945	480	240	200
Stroke (mm)		100~800: 50(Interval)						100~1050: 50(Interval)						100~1250: 50(Interval)			

Motor Direction



XB Series Belt Type Electric Cylinder(General)



Ordering Code

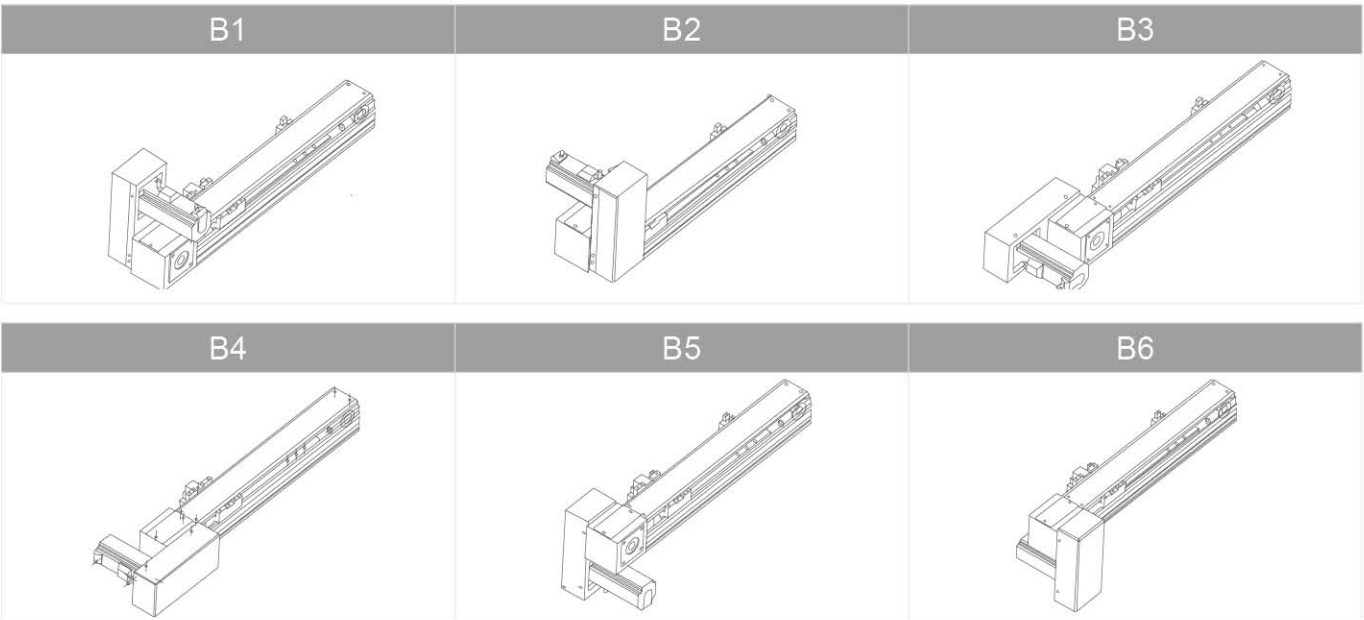
XB50D — L35 — S500 — B1 — M — 100W — B

Model	Equivalent to Lead	Stroke	Motor Direction	Motor Brand	Motor Output	Brake
XB50D XB80D XB100S XB100D XB136D XB168D XB202D		100~3050mm	B1: Motor leftward, upper position B2: Motor rightward, upper position B3: Motor leftward, horizontal position B4: Motor rightward, horizontal position B5: Motor leftward, lower position B6: Motor rightward, lower position	H: Hiwin S: Sanyo M: Mitsubishi Y: Yaskawa P: Panasonic F: Fuji B: Belta	100~400W	

Specification

Model	XB50D		XB80D		XB100S		XB100D		XB136D	XB168D	XB202D
AC Servo motor output (W)		100W	100W	200W	100W	200W	100W	200W	200W		400W
Repeatability (mm)		±0.04									
Equivalent to lead		35	28		35	28		40	76		
Maximum speed (mm/sec)		1718	1400		1600	1400		32	45		
Maximum payload (kg)		8	20	28	10	15	20	25	2000		
Stroke (mm)		100~800: 50(Interval)	100~1500: 50(Interval)		150~1850: 50(Interval)				150~3050: 100(Interval)		

Motor Direction



Cylinder Accessories

Cylinder accessories include the mounting parts to fix the air cylinder, made by aluminum or steel. They are available for Standard Cylinders and Mini Cylinders. Magnetism Switch are used as sensor which connected with PLC, to recognize the position of piston inside of air cylinder.

ISO Standard Cylinder Accessories



ISO-LB Type Foot Bracket

Symbol/Bore	32	40	50	63	80	100	125	160	200
AA	158	179	190	209	248	266	290	340	380
AC	142	161	170	185	210	228	250	300	320
AD	8	9	10	12	19	19	20	20	30
AE	47	53	65	75	95	115	140	180	220
AF	32	36	45	50	63	75	90	115	135
AG	24	28	32	32	41	45	45	60	70
AH	32	36	45	50	63	71	90	115	135
AP	7	9	9	9	12	14.5	16.5	18.5	24
AT	3	3	3	3	4	4	6	6	9



ISO-CA Type Single Earring

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



ISO-CB+Pin Type Double Earring

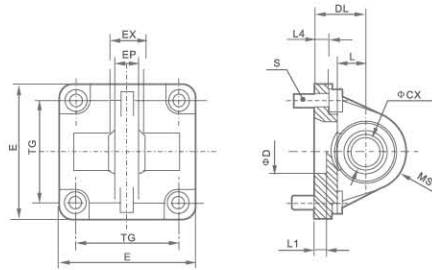
Symbol/Bore	32	40	50	63	80	100	125	160	200
CC	22	25	27	32	36	41	50	55	60
CD	9	12	12	15	15	20	25	30	30
CE	10	12	12	16	16	20	25	30	30
CJ	13	16	17	22	22	27	31	35.5	36
CP	26	28	32	40	50	60	70	90	90
CT	45	52	60	70	90	110	130	170	170
PA1	51	59	67	77	97	119	139	181	181
PB1	45.5	52.5	60.5	70.5	90.5	110.5	130.5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



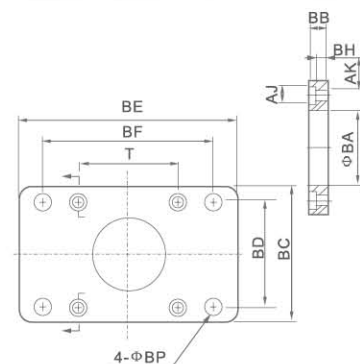
ISO-SDB Type

Symbol/Bore	32	40	50	63	80	100	125
A	6.6	6.6	9	9	11	11	14
B	11	11	15	15	18	18	20
BG	18	22	30	35	40	50	60
BH	31	35	45	50	60	70	90
BI	21	24	33	37	47	55	70
BL	8	10	12	14	14	17	20
BM	32	36	45	50	63	71	90
BN	38	41	50	52	66	76	94
BO	51	54	65	67	86	96	124
BS	10	15	16	16	20	20	30
BR	20	22	26	30	30	38	45
C	1.6	1.6	1.6	1.6	2.5	2.5	3.2
D	10	12	12	16	16	20	25
F	10.5	10.5	10.5	10.5	10.5	10.5	10.5
G	3	3	3	3	3	3	3
BQ	26	28	32	40	50	60	70

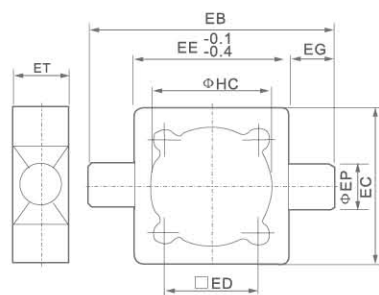
ISO Standard Cylinder Accessories



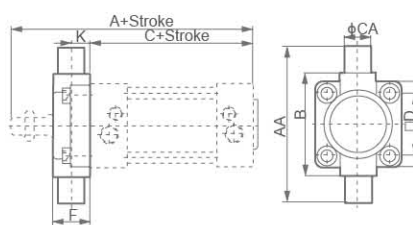
Symbol/Bore	32	40	50	63	80	100
TG	32.5	38	46.5	56.5	72	89
φCX	10	12	16	16	20	20
DL	22	25	27	32	36	41
L	12	15	15	20	20	25
EX	14	16	21	21	25	25
EP	10.5	12	15	15	18	18
S	M6×20	M6×20	M8×20	M8×20	M10×25	M10×25
L4	5.5	5.5	6.5	6.5	10	10
D	30	35	40	45	45	55
L1	7	7	7	7	9	9
E	45	52	65	75	95	115
MS	16	18	21	23	28	30



Symbol/Bore	32	40	50	63	80	100	125	160	200
AJ	11	11	14	14	17	17	19	25	25
AK	7	7	9	9	11	11	13	17	17
BA	30.5	35.5	40.5	45.5	45.5	55.5	60.5	65.5	75.5
BB	10	10	12	12	16	16	20	20	25
BC	47	53	65	75	95	115	140	180	220
BD	32	36	45	50	63	75	90	115	135
BE	80	90	110	125	154	186	224	280	320
BF	64	72	90	100	126	150	180	230	270
BH	4	4	4	6	6	6	8	8	12
BP	7	9	9	9	12.5	14.5	16.5	18.5	24
T	32.5	38	46.5	56.5	72	89	110	140	175



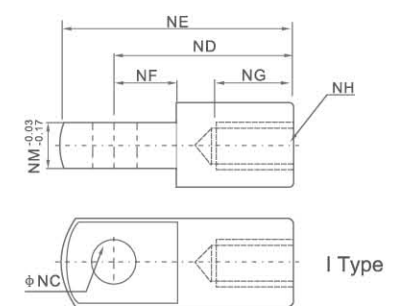
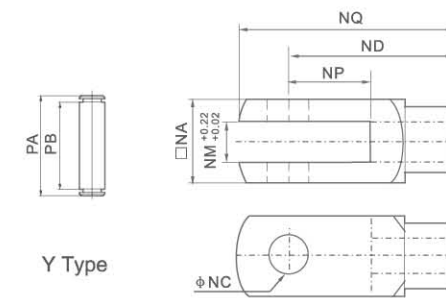
Symbol/Bore	32	40	50	63	80	100
EB	100	113	125	140	160	182
EC	53	63	75	90	105	128
ED	32.5	38	46.5	56.5	72	89
EE	52	63	75	90	110	128
EG	25	25	25	25	25	25
EP	12	16	16	20	20	25
ET	20	22	22	28	28	34
HC	37	45	55	68	87	107.5



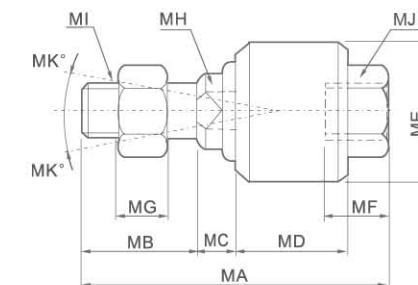
Symbol/Bore	32	40	50	63	80	100	125	160	200
A	142	94	74	50	12	32.5	46	19	10
C	159	105	95	63	16	38	52	21	10
AA	175	106	107	75	16	46.5	64	26	12
B	190	121	130	90	20	56.5	74	28	12
CA	214	128	150	110	20	72	94	31	16
D	229	138	182	132	25	89	114	35	16
E	279	160	210	160	25	110	139	43	20
F	332	180	264	200	32	140	179	56	20
K	347	180	314	250	32	175	218	64	20

ISO Standard Cylinder Accessories

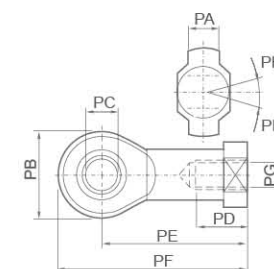
ISO-Y Joint



Symbol/Bore	32	40	50	63	80	100	125	160	200
NA	19	25.4	32	32	44.4	44.4	55	70	70
NC	10	12	16	16	20	20	30	35	35
ND	40	48	64	64	80	80	110	144	144
NE	52	67	89	89	112	112	155	201	201
NF	15	24	32	32	40	40	50	50	55
NG	20	20	23	23	30	30	56	72	72
NH	M10×1.25	M12×1.25	M16×1.5	M16×1.5	M20×1.5	M20×1.5	M27×2.0	M36×2.0	M36×2.0
NM	10	12	16	16	20	20	30	35	35
NP	20	24	32	32	40	40	54	72	72
NQ	52	62	83	83	105	105	148	191	191
PA	26.2	32.8	39.3	39.3	53.3	53.3	64	80	80
PB	20	26.5	33	33	45	45	55.6	70.6	70.6



Symbol/Bore	MA	MB	MC	MD	ME	MF	MG	MH	MI	MK
32	58	22	7	21	26	11.5	7	10	M10×1.25	12
40	58	22	8	21	28	11.5	8	12	M12×1.25	12
50	90	27	10	41	44.5	20	10	17	M16×1.5	7
63	90	27	10	41	44.5	20	10	17	M16×1.5	7
80	102	29	13	46	53	24	13	22	M20×1.5	10
100	102	29	13	46	53	24	13	22	M20×1.5	10
125	147	54	13	64	62	39	14	30	M27×2.0	9
160	147	43	23	58	88	35	13.5	36	M36×2.0	15
200	147	43	23	58	88	35	13.5	36	M36×2.0	15

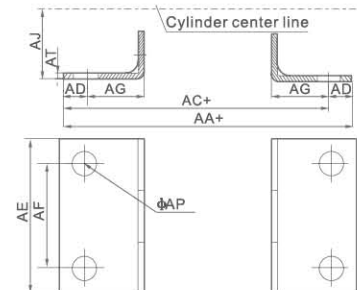


Symbol/Bore	PA	PB	PC	PD	PE	PF	PG	PH
32	11	26	10	21	43	56	M10×1.25	13
40	12	30	12	24	50	65	M12×1.25	13
50	15	38	16	33	64	83	M16×1.5	15
63	15	38	16	33	64	83	M16×1.5	15
80	18	46	20	40	77	100	M20×1.5	15
100	18	46	20	40	77	100	M20×1.5	15
125	37	70	30	51	110	145	M27×2.0	15
160	43	80	35	56	125	165	M36×2.0	16
200	43	80	35	56	125	165	M36×2.0	16

Standard Cylinder Accessories



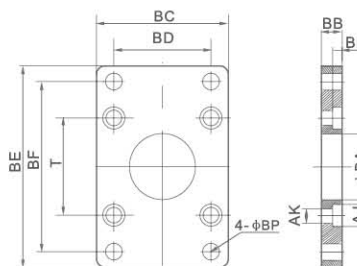
LB Type Foot Bracket



Symbol/Bore	32	40	50	63	80	100	125	160	200
AA	153	169	173	184	199	210	249	328	380
AC	134	140	149	158	167	174	213	288	320
AD	9.5	14.5	12	13	16	18	18	20	30
AE	50	57	68	80	97	112	140	180	220
AF	33	36	47	56	70	84	90	115	135
AG	20.5	23.5	28	31	30	30	45	60	70
AJ	28	30	36.5	41	49	57	90	115	135
AP	9	12	12	12	14	14	16	18	24
AT	3	3	3	3	4	4	8	8	10



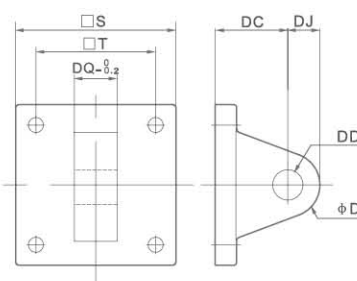
FA/FB Type Flange



Symbol/Bore	32	40	50	63	80	100	125	160	200
BA	28.3	32.3	38.3	38.3	47.3	47.3	56	63	81
BB	10	10	10	12	16	16	16	20	25
BC	47	52	65	76	95	115	140	180	220
BD	33	36	47	56	70	84	90	115	135
BE	72	84	104	116	143	162	224	280	320
BF	58	70	86	98	119	138	180	230	270
BH	6.5	6.5	6.5	8.5	10.5	10.5	10.5	12.5	16.5
AJ	10.5	10.5	13.5	13.5	5	5	19	25	25
AK	6.5	6.5	6.5	8.5	10.5	10.5	12.5	16.5	16.5
BP	7	7	9	9	11	11	16	18	22
T	33	37	47	56	70	84	110	140	175



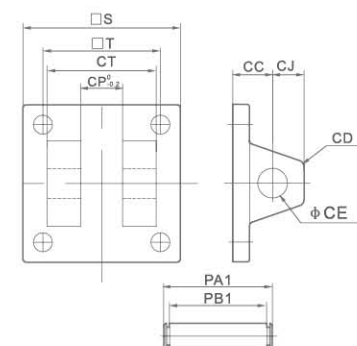
CA Type Single Earring



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



CB +Pin Type Double Earring



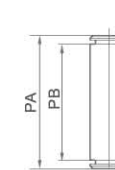
Symbol/Bore	32	40	50	63	80	100	125	160	200
CC	19	19	19	19	32	32	50	55	60
CD	5	5	3	2	8	8	25	30	30
CE	12	14	14	14	20	20	25	30	30
CJ	13	13	15	15	21	21	25	30	30
CP	16	20.5	20.3	20.3	32.3	32.3	70	90	90
CT	32	44	52	52	64	64	120	160	160
PAI	41	51.8	60.3	60.3	73.8	73.8	130	170	170
PBI	33.5	45.8	54	54	65.5	65.5	121.5	161.5	161.5
S	48	50	62	75	94	94	140	180	220
T	33	37	47	56	70	70	110	140	175

Note: CA and CB From 32-100, we can supply two kinds of materials products: 1. Iron 2. Aluminum. When placing order, please indicate product material. From 125-200 are all iron.

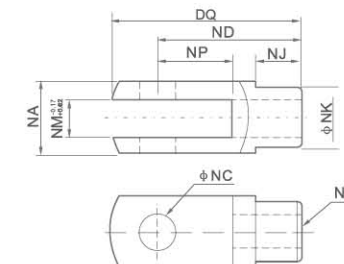
Standard Cylinder Accessories



Y+Pin Type Joint



Y Type

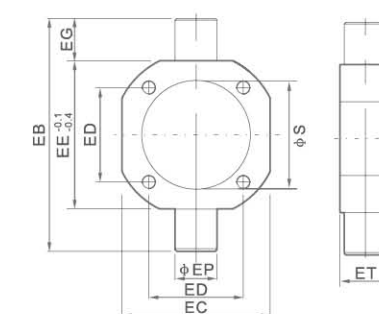


I Type

Symbol/Bore	32	40	50	63	80	100	125	160	200
NA	19	25.4	32	32	44.4	44.4	64	80	80
NB	20	24	32	32	40	40	45	54	54
NC	10	12	16	16	20	20	20	30	30
ND	40	48	64	64	80	80	102	120	120
NE	52	67	89	89	112	112	121	130	130
NF	15	24	32	32	40	40	52	35	35
NG	20	20	23	23	30	30	56	50	50
NH	M10×1.25	M12×1.25	M16×1.5	M16×1.5	M20×1.5	M20×1.5	M27×2	M36×2	M36×2
NJ	12	20	22	22	30	30	27	40	40
NK	18	23	30	30	39	39	38	54	54
NM	10	12	16	16	20	20	32	40	40
MP	20	24	32	32	40	40	35	35	35
NQ	52	62	83	83	105	105	122	150	150
PA	25	32.8	39.3	39.3	53.3	53.3	74	91	91
PB	19.5	26.5	33	33	45	45	63.5	81	81



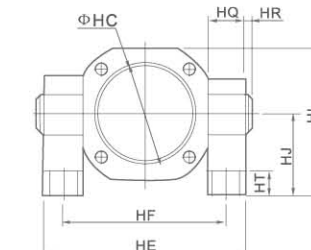
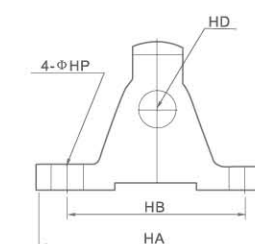
TC Type



Symbol/Bore	32	40	50	63	80	100	125	160	200
EB	88.5	113	126	138	164	182	210	264	320
EC	52	63	76	88	114	132	160	200	248
ED	33	37	47	56	70	84	110	140	175
EE	55	63	76	88	114	132	160	200	248
EG	16.75	25	25	25	25	25	25	32	36
EP	16	25	25	25	25	25	25	32	32
ET	30	30	30	30	30	35	35	41	49
S	37.5	45.5	56.5	68.5	87.5	107.5	134.5	172.5	219.5



TC-M Type

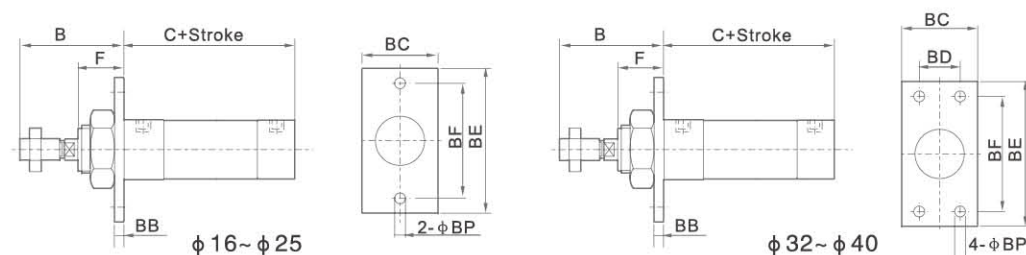


Symbol/Bore	HA	HB	HC	HD	HE	HF	HI	HJ	HQ	HR	HT	HP
40	110	80	45.5	22	109	86	81.5	50	23	2	12	12
50	110	80	55.5	22	122	99	88	50	23	2	12	12
63	110	80	68.5	22	134	111	94	50	23	2	12	12
80	120	85	87.5	22	160	137	127	70	23	2	14	14
100	120	85	107.5	22	178	155	136	70	23	2	14	14

Mini Cylinder Accessories



M-FA Type Flange



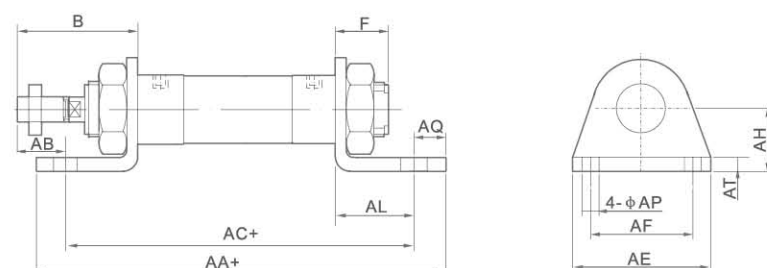
M-FA-A Type

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

Our company can also provide this used for mini cylinder flange from 16~25, if you need, pls add A after all ordering code, like M-FA-20-A



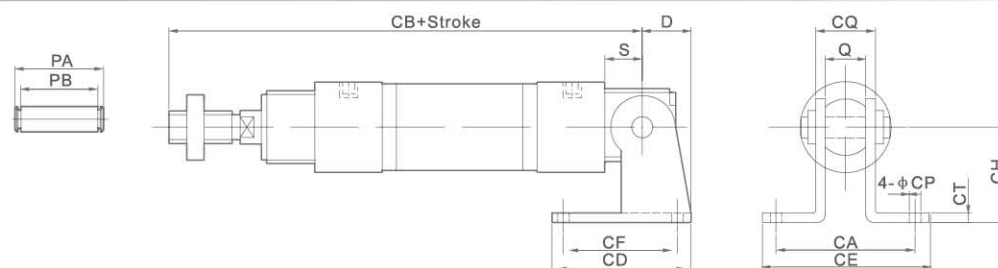
M-LB Type Foot Bracket



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



M-SDB Type Bracket



Symbol Bore	D	S	Q	CA	AA(MSA Series)		CB(MAL Series)		CB(MSA Series)		CD	CE	CF	CH	CT	CP	CQ	PA	PB
					0-50	51-100	0-50	51-100	0-50	51-100									
16	16	9	12	-	107	-	107	132	-	-	23	-	12	20	3	5.5	16.5	21	17
20	21	12	16	51	128	122	128	153	122	147	48	67	32	32	3	6.5	22	27	22.5
25	21	12	16	51	132	126	132	157	126	151	48	67	32	32	3	6.5	22	27	22.5
32	27	15	16	51	135	129	135	160	129	154	52	67	36	36	3	6.5	24	30	24.5
40	27	15	20	55	137	153	137	162	153	178	56	71	40	40	3	6.5	28	34	28.5

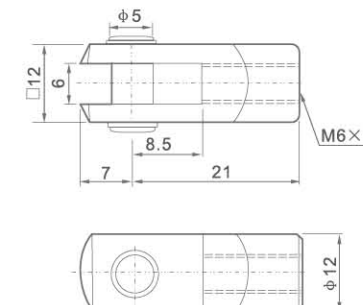
Mini Cylinder Accessories

M-Y Joint

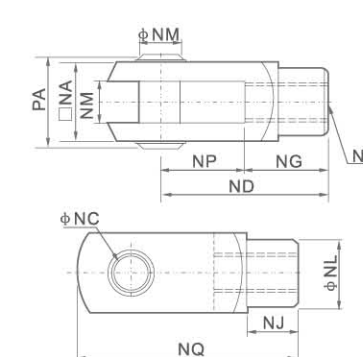


M-Y+Pin

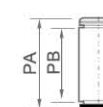
M-Y+Clip



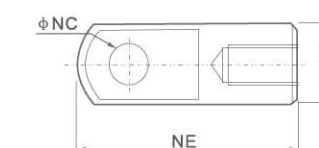
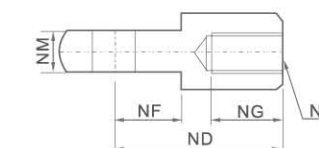
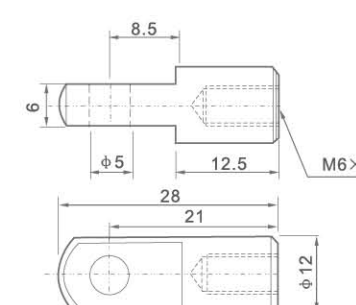
M-I Joint



φ 16



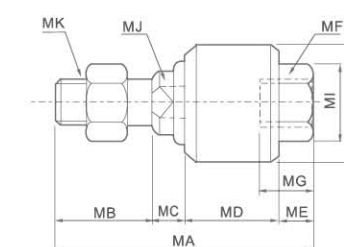
φ 20~φ 40



Symbol/Bore	NA	NC	ND	NE	NF	NG	NH	NJ	NK	NL	NM	NN	NP	NQ	PA	PB
20	16	8	30	40	11	15	M8×1.25	10	16	14	8	8	15	40	21	16.5
25	19	10	40	52	15	20	M10×1.25	12	20	18	10	10	20	52	25	19.5
32	19	10	40	52	15	20	M10×1.25	12	20	18	10	10	20	52	25	19.5
40	25.4	10	45	57	15	25	M12×1.25	15	24	23	14	10	20	57	31	26



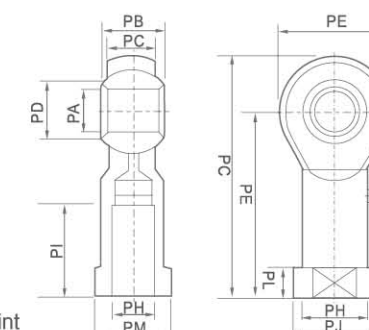
M-UJ Type Float Joint



Symbol/Bore	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK
20	51	20	6	17	8	M8×1.25	12	24	13	8	M8×1.25
25	58	22	7	21	8	M10×1.25	12	26	17	10	M10×1.25
32	58	22	7	21	8	M10×1.25	12	26	17	10	M10×1.25
40	58	22	8	21	7	M12×1.25	12	28	19	12	M12×1.25



M-PHS Type Fish Eye Joint

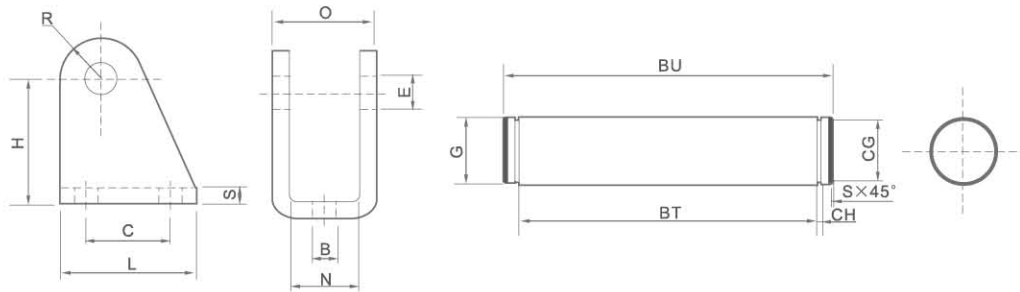


Symbol/Bore	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM
20	8	12	9	10.4	22	36	47	M8×1.25	17	16	12.5	5	14
25	10	14	11	12.9	26	43	56	M10×1.25	21	19	15	6.5	17
32	10	14	11	12.9	26	43	56	M10×1.25	21	19	15	6.5	17
40	12	16	12	15.4	30	50	65	M12×1.25	24	22	17.5	6.5	19

Mini Cylinder Accessories



M-U+Pin



Symbol/Bore	B	E	C	H	L	N	O	R	S	G	BT	CG	CH	BU	S
8/10	4.5	4	12.5	24	20	8.1	13	5	2.5	4	14	2.5	0.5	17	0.2
12/16	5.5	6	15	27	25	13	18	7	2.5	6	19	4	0.8	24	0.4
20/25	6.6	8	20	29.5	32	16.1	24	10	4	8	25.2	5	0.9	29.5	0.5

Special cylinder accessories



Our company can customize all kinds of non-standard cylinder accessories according to your drawing or sample.

Seal Kits for Pneumatic Cylinder

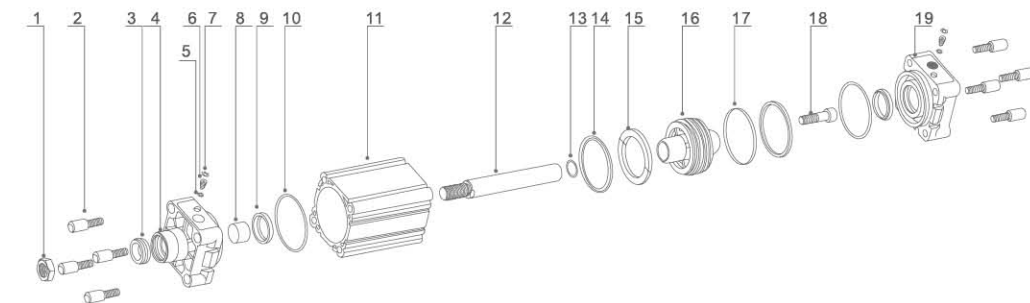
Product	Model	Cylinder bore size	Temperature
	Seal kits-DNC	Φ32~125	-5~75℃
	Seal kits-DNG	Φ160~320	
	Seal kits-SI	Φ32~200	
	Seal kits-SC	Φ32~200	
	Seal kits-MA	Φ10~40	
	Seal kits-MAL	Φ16~40	
	Seal kits-SDA	Φ12~100	
	Seal kits-ADVU	Φ16~80	
	Seal kits-ADN	Φ12~63	

Product	Model	Cylinder bore size	Temperature
	Seal kits-DNC-Viton	Φ32~125	-10~150℃
	Seal kits-DNG-Viton	Φ160~320	
	Seal kits-SI-Viton	Φ32~200	
	Seal kits-SC-Viton	Φ32~200	
	Seal kits-MA-Viton	Φ10~40	
	Seal kits-MAL-Viton	Φ16~40	
	Seal kits-SDA-Viton	Φ12~100	
	Seal kits-ADVU-Viton	Φ16~80	

Assembly Kits for Pneumatic Cylinder

DNC Series Cylinder Kits

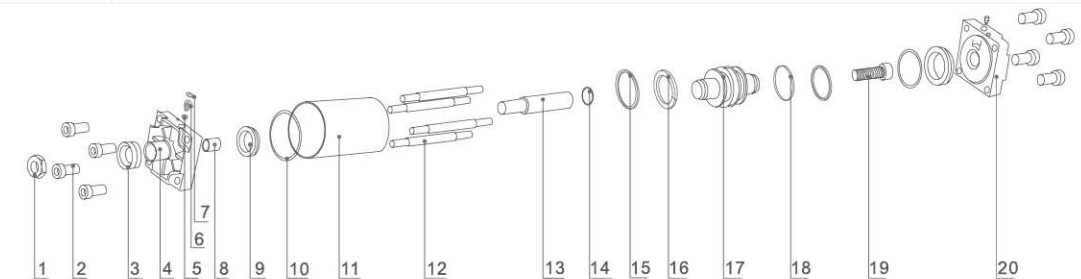
Product	Model/ Specification	Part name	Material	Part name	Material
	DNC Kits (ISO15552) Bore size: Φ32,40, 50,63,80, 100,125	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	PU	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Profile bolt	Carbon steel
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Rod O-ring	17	Wear ring
2	Profile bolt	6	Adjustable screw	10	Cover O-ring	14	Piston seal	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Magnet(optional)	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Piston rod(Without)	16	Piston		

DNG Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	DNG Kits (ISO15552) Bore size: Φ160,200, 250,320	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	PU	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Profile bolt	Carbon steel
		Cover O-ring	NBR		

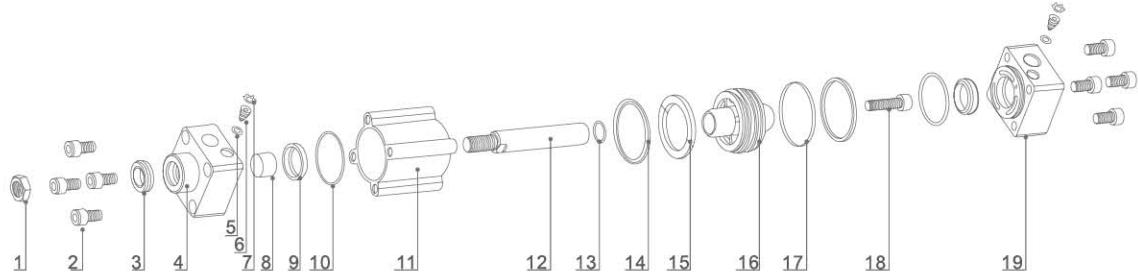


NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Tierod(Without)	17	Piston
2	Profile bolt	6	Adjustable screw	10	Cover O-ring	14	Rod O-ring	18	Wear ring
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Piston seal	19	Hex Socket Screw
4	Front cover	8	Self Lubricating bearing	12	Piston rod(Without)	16	Magnet(optional)	20	Back cover

Assembly Kits for Pneumatic Cylinder

SI Series Cylinder Kits

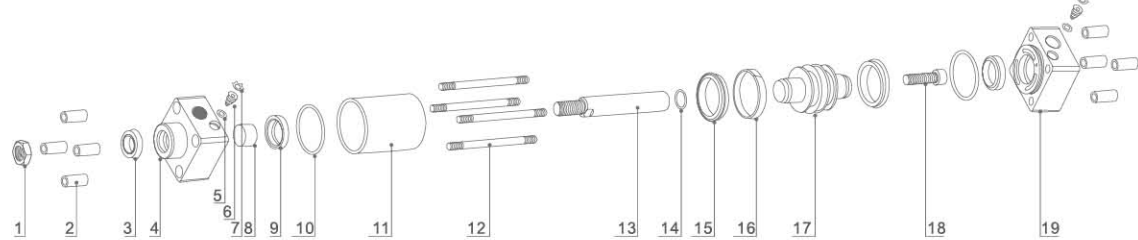
Product	Model/ Specification	Part name	Material	Part name	Material
	SI Kits (ISO6431) Bore size: Φ32,40,50, 63,80,100,125, 160,200	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	NBR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Profile bolt	Carbon steel
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Rod O-ring	17	Wear ring
2	Profile bolt	6	Adjustable screw	10	Cover O-ring	14	Piston seal	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Magnet(optional)	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Piston rod(Without)	16	Piston		

SC Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	SC Kits Bore size: Φ32,40,50, 63,80,100,125, 160,200,	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	NBR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Tie-rod nut	Carbon steel
		Cover O-ring	NBR		

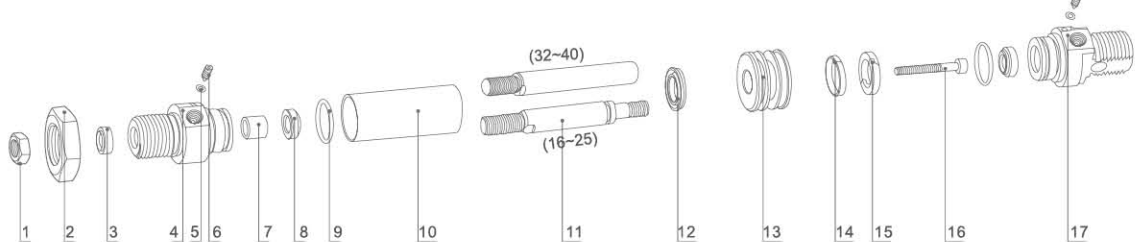


NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Piston rod(Without)	17	Piston
2	Tie-rod nut	6	Adjustable screw	10	Cover O-ring	14	Rod O-ring	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Piston seal	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Tie rod(Without)	16	Wear ring		

Assembly Kits for Pneumatic Cylinder

MA/MA6432 Series Cylinder Kits

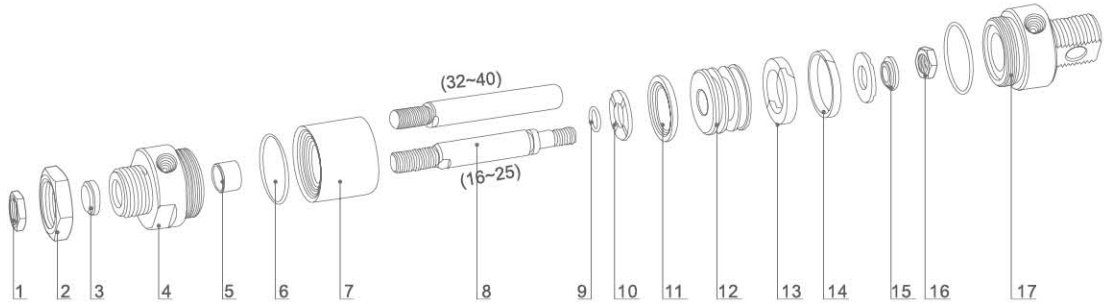
Product	Model/ Specification	Part name	Material	Part name	Material
	MA Kits Bore size: Φ16,20,25,32,40 MA6432 Kits (ISO6432) Bore size: Φ8,10,12, 16,20,25, 32,40,50,63	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Stainless Steel	Cushion needle	Brass
		Front Cover seal	NBR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR		
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Rod nut	5	O-ring	9	Cover O-ring	13	Piston	17	Back cover
2	Cover Nut	6	Adjustable screw	10	Barrel(Without)	14	Wear ring		
3	Front Cover seal	7	Self Lubricating bearing	11	Piston rod(Without)	15	Magnet(optional)		
4	Front cover	8	Cushion ring	12	Piston seal	16	Hexagon Screw		

MAL Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	MAL Kits Bore size: Φ16,20, 25,32,40	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Anti-bump cushion	NBR	Hexagon screw	Carbon steel
		Front Cover seal	NBR	Nut	Carbon steel
		Cover O-ring	NBR	Muffler	Cu

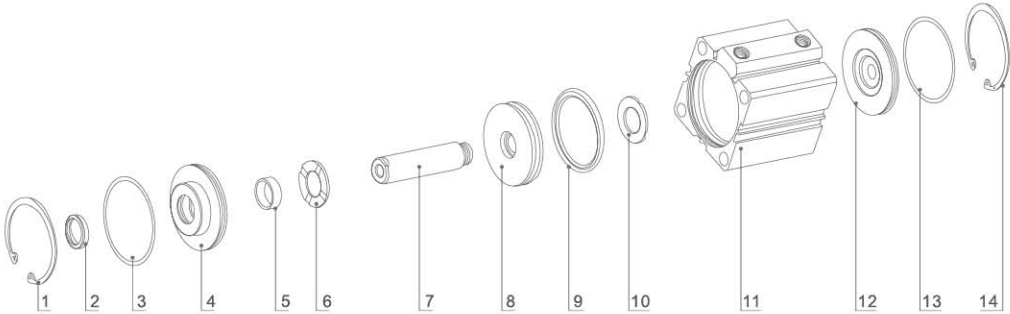


NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Rod nut	5	Self Lubricating bearing	9	Rod O-ring	13	Magnet(optional)	17	Back cover
2	Cover Nut	6	Cover O-ring	10	Anti-bump cushion	14	Wear ring		
3	Front Cover seal	7	Barrel(Without)	11	Piston seal	15	Impact gasket		
4	Front cover	8	Piston rod(Without)	12	Piston	16	Nut		

Assembly Kits for Pneumatic Cylinder

SDA Series Cylinder Kits

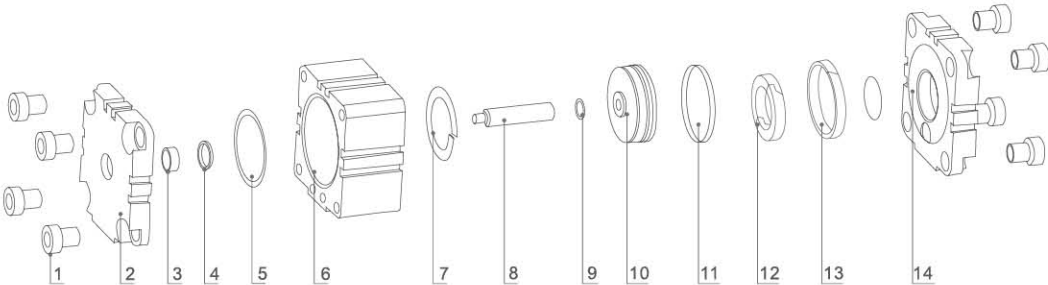
Product	Model/Specification	Part name	Material	Part name	Material
	SDA Kits Bore size: Φ12,16,20, 25,32,40, 50,63,80,100	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston	Aluminum alloy	Magnet(optional)	RbFeb
		Piston rod(Without)	S45C hard chrome carbon steel	C type buckle	Steel
		Barrel(Without)	Hard anodized aluminum	Nut	Carbon steel
		Anti-bump cushion	NBR	Muffler	Cu
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	C type buckle	4	Front cover	7	Piston rod(Without)	10	Anti-bump cushion	13	Cover O-ring
2	Front cover seal	5	Self Lubricating bearing	8	Piston	11	Barrel(Without)	14	C type buckle
3	Cover O-ring	6	Anti-bump cushion	9	Piston Seal	12	Back cover		

ADVU Series Cylinder Kits

Product	Model/Specification	Part name	Material	Part name	Material
	ADVU Kits (ISO6431) Bore size: Φ16,20, 25,32,40,50, 63,80	Front cover	Aluminum alloy	Cover O-ring	NBR
		Back cover	Aluminum alloy	Piston seal	NBR
		Piston	Aluminum alloy	Wear ring	PA66
		Piston rod(Without)	S45C hard chrome carbon steel	Self lubricating bearing	PTFE+Brass
		Barrel(Without)	Hard anodized aluminum	Magnet(optional)	RbFeb
		Front Cover seal	NBR	Nut	Carbon steel
		Cushion seal	NBR	Profile bolt	Carbon steel
		Piston rod O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Profile bolt	5	Front Cover seal	9	Rod O-ring	13	Wear ring
2	Front cover	6	Barrel(Without)	10	Piston	14	Back cover
3	Self Lubricating bearing	7	Backup ring	11	Piston seal		
4	Cushion seal	8	Piston rod(Without)	12	Magnet(optional)		

Assembly Kits for Pneumatic Cylinder

Product	Model/Specification	Product
	MB Kits (Japan Standard) Bore size: Φ32,40,50, 63,80,100	



CQ2 Kits
(Japan Standard)
Bore size:
Φ12,16,20,25,32,40,50,
63,80,100



ADN Kits (ISO 21287)

Bore size: Φ12,16,20,25,32,40,50,63

	XENG Kits (ISO 15552) Bore size:Φ32,40,50, 63,80,100		XEN Kits (ISO 6432) Bore size:Φ8,10,12,16,20,25
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Inch Cylinder Kits
Bore size:4",6",8",10"

■ Our company have R&D departement, can research develop and produce all kinds of cylinders with advanced technology and sufficient professional experience.

■ Apart from the regular pneumatic cylinder assembly kits,our company also can supply other type cylinder assembly kits. We have develop some inch size assembly kits,for example 4", 6",8",10" etc and other size. If you have new requirement and new products need to design and develop,please don't hesistate to contact us,we will try our best to help you.

Tube and Piston Rod for Pneumatic Cylinder

Product	Model/Specification	Product
	DNC Square Aluminum Tube Bore size:Φ32,40,50, 63,80,100,125	DNT Mickey Mouse With Groove Aluminum Tube 
	SI Mickey Mouse Aluminum Tube Bore size:Φ32,40,50, 63,80,100, 125,160,200	Bore size:Φ32,40,50,63,80,100
	DNG,SC,MAL Round Aluminum Tube Bore size:Φ16,20, 25,32,40,50,63, 80,100,125,160, 200,250,320	ADN Aluminum Tube 
	ADVU Aluminum Tube Bore size:Φ,20, 25,32,40,50,63,80	Bore size:Φ12,16,20,25,32,40,50,63
	SDA Aluminum Tube Bore size:Φ12,16,20,25, 32,40,50,63,80,100 Note:Normally we provide SDA un- oxidized aluminum tube, if you need that with oxide, pls be specified, because price is different.	CQ2 Aluminum Tube Bore size:Φ12,16,20,25, 32,40,50,63,80,100 Note:Normally we provide CQ2 un- oxidized aluminum tube, if you need that with oxide, pls be specified, because price is different.
	MA,MA6432 Stainless Steel Tube (High precision) Bore size:Φ8,10,12, 16,20,25,32,40,50,63	Piston rod (45# Steel Chrome-plated) Bore size:Φ6,8,10,12,16,20, 25,32,40,45,50,60,70,etc. Note: XCPC can provide different material and diameters piston rods including stainless steel.

In addition to the above general sales of pneumatic cylinder aluminum tubes, our company also have some other types of aluminum tubes.
If you find the complete cylinder on the catalogue, and only need aluminum tubes, please do not hesitate to contact us,we will try our best to help you.

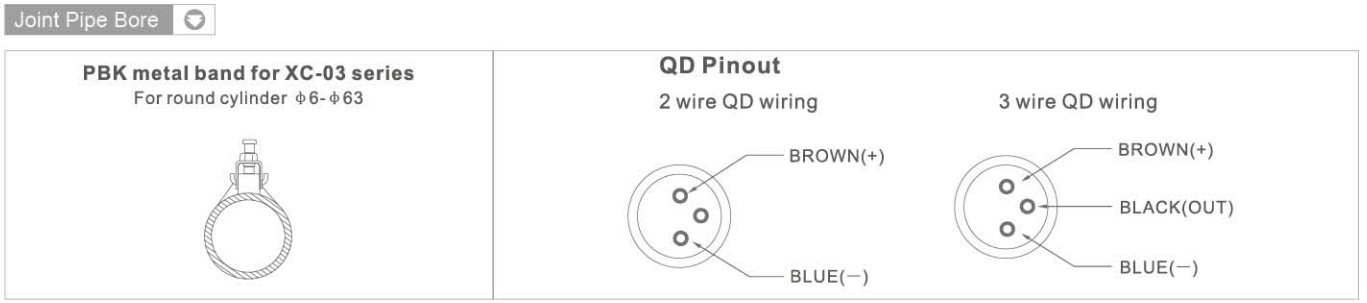
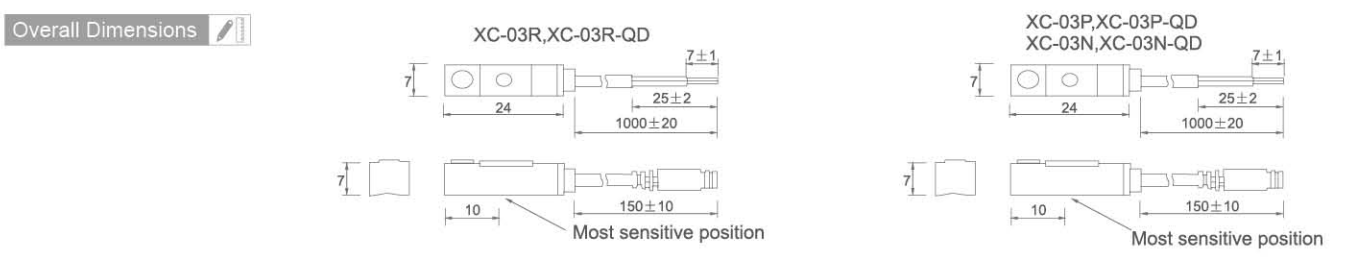
XC-03 Series Magnetism Switch



Features and Applications

- 1.Compact design
- 2.LSU type LED light
- 3.Anti-vibration application
- 4.Simple installation
- 5.BK series metal band together
- 6.Suitable for many kinds of air cylinder.

Specification			
Model	XC-03R	XC-03N	XC-03P
Connect Diagram			
Parameter			
Wiring method	2-WireType	3-WireType	
Switching logic	SPST Normally Open	Solid State Output,Normally Open	
Sensor type	Reed switch	NPN Input	PNP Output
Operating voltage	5-240V DC/AC	5-30V DC	
Max.switching current	100mA max.	200mA max.	
Contact rating	10W max.	6W max.	
Current consumption	None	20mA max @ 24V(Switch Active)	
Voltage drop	3.0V max.	0.5V max @ 200mA	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Max.exchange frequency	200Hz	1000Hz	
Temperature range	-10~70℃		
Shock	30G	50G	
Vibration	9G		
Enclosure classification	IEC 529 IP67(NEMA 6)		
Protection circuit	None	With protection	
Cable	Φ2.8,2C PVC Gray color,oil resistance PVC	Φ2.8,2C PVC Black color,oil resistance PVC	



XC-21R Series Magnetism Switch



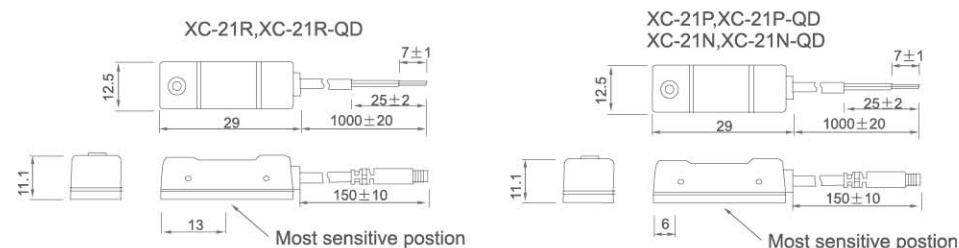
Features and Applications

- 1.Compact design
- 2.LED light
- 3.Anti-vibration application
- 4.PI,PM series clamp together
- 5.Simple installation
- 6.Suitable for all kinds of standard tie-rod and mickey-mouse barrel cylinder.

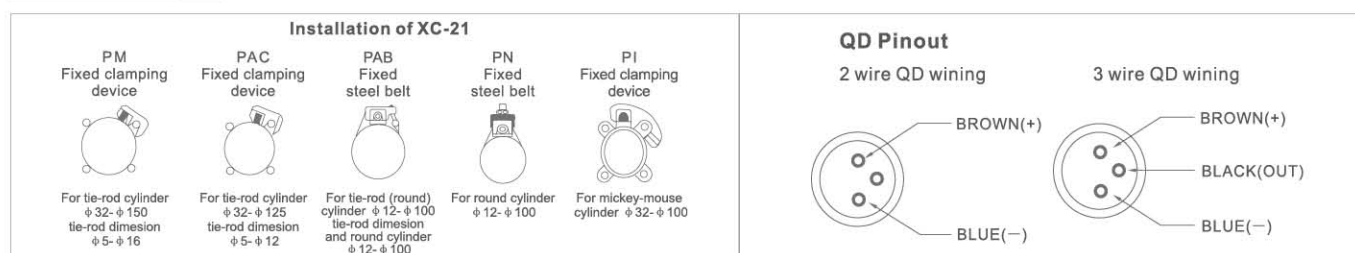
Specification

Model	XC-21R	XC-21N	XC-21P
Connect Diagram			
Parameter			
Wiring method	2-WireType	3-WireType	
Switching logic	SPST Normally Open	Solid State Output,Normally Open	
Sensor type	Reed switch	NPN Input	PNP Output
Operating voltage	5-240V DC/AC	5-30V DC	
Max.switching current	100mA max.	200mA max.	
Contact rating	10W max.	6W max.	
Current consumption	None	20mA max@ 24V(Switch Active)	
Voltage drop	3.5V max.	0.5V max	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Max.exchange frequency	200Hz	1000Hz	
Temperature range		-10~70°C	
Shock	30G	50G	
Vibration		9G	
Enclosure classification		IEC 529 IP67(NEMA 6)	
Protection circuit	None	With protection	
Cable	Φ4.0,2C PVC Gray color,oil resistance PVC	Φ4.0,2C PVC Black color,oil resistance PVC	

Overall Dimensions



Joint Pipe Bore



XC-31R Series Magnetism Switch



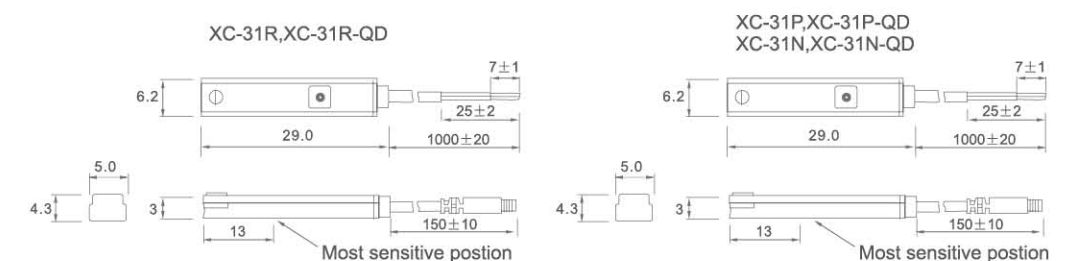
Features and Applications

- 1.Compact design
- 2.LED light
- 3.Anti-vibration application
- 4.For groove and bandage fixing type
- 5.Simple installation
- 6.Suitable for all kinds of groove type and mini type cylinder.

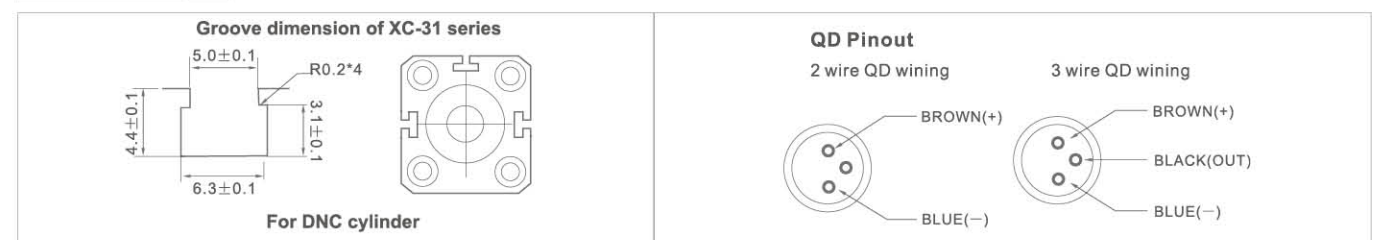
Specification

Model	XC-31R	XC-31N	XC-31P
Connect Diagram			
Parameter			
Wiring method	2-WireType	3-WireType	
Switching logic	SPST Normally Open	Solid State Output,Normally Open	
Sensor type	Reed switch	NPN Input	PNP Output
Operating voltage	5-240V DC/AC	5-30V DC	
Max.switching current	100mA max.	100mA max.	
Contact rating	10W max.	3W max.	
Current consumption	None	17mA max @ 24V(Switch Active)	14mA max@24V(Switch Active)
Voltage drop	2.5V max.@ 100mA	0.5V max @ 200mA	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Max.exchange frequency	200Hz	1000Hz	
Temperature range		-10~70°C	
Shock	30G	50G	
Vibration		9G	
Enclosure classification		IEC 529 IP67(NEMA 6)	
Protection circuit	None	With protection	
Cable	Φ3.0,2C PVC Gray color,oil resistance PVC	Φ3.0,2C PVC Black color,oil resistance PVC	

Overall Dimensions



Joint Pipe Bore



XC-11R Series Magnetism Switch



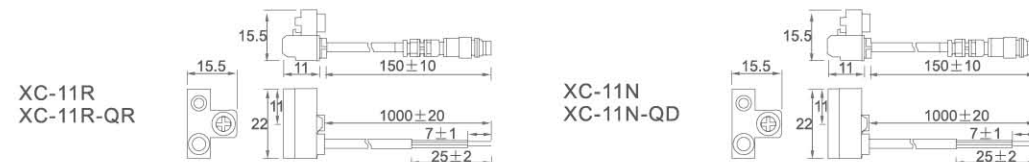
Features and Applications

- 1.Compact design
- 2.LED light
- 3.Anti-vibration application
- 4.PI,PM series clamp together
- 5.Simple installation
- 6.Suitable for all kinds of standard tie-rod and mickey-mouse barrel cylinder.

Specification

Model	XC-11R	XC-11RB	XC-11N	XC-11P
250 320	Connect Diagram			
Parameter				
Switching logic	SPST Normally Open	SPST Normally Closed	Solid State Output,Normally Open	
Sensor type	Reed switch		NPN Input	PNP Output
Operating voltage	5-240V DC/AC	5-240V DC/AC	5-30V DC	
Max.switching current	100mA max.		200mA max.	
Contact rating	10W max.		6W max.	
Current consumption	None		20mA max@ 24V(Switch Active)	
Voltage drop	2.5V max.@100mA		0.5V max @ 200mA	
Leakage current	None		0.01mA max.	
Indicator	Red LED		Red LED	Green LED
Cabel	Φ3.2,2C PVC Gray color,oil resistance PVC		Φ3.2,3C PVC Black color,oil resistance PVC	
Sensitivity			40Gauss	
Max.switch frequency	200Hz		1000Hz	
Temperature range			-10~70℃	
Shock	30G		50G	
Vibration			9G	
Enclosure classification			IEC 529 IP67(NEMA 6)	
Protection circuit	None		With protection	

Overall Dimensions

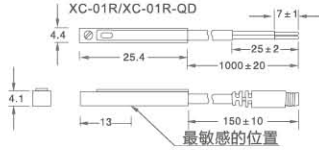
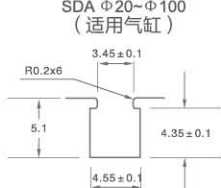
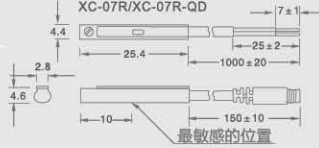
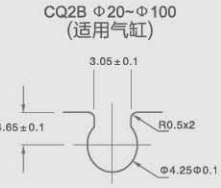
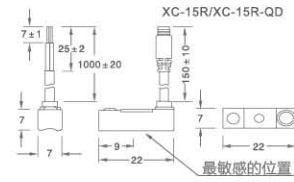
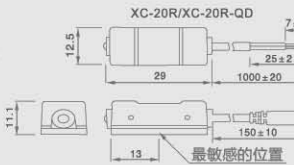
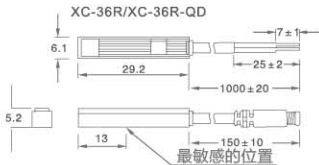
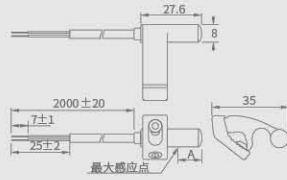
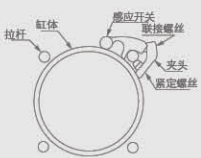
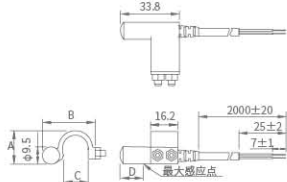


Joint Pipe Bore



Magnetism Switch

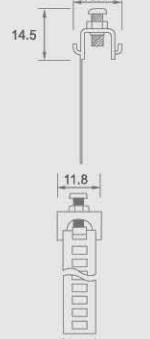
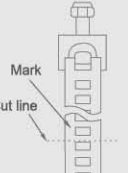
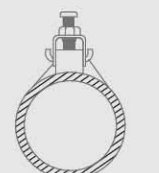
Specification

Model	Product	Contact Type	Working Voltage	Diameter	Joint Pipe Bore
XC-01R Series		Amagnetic reed Switch contact	5~240V DC/AC		
		Contactless NPN transistors	5~30V DC		
		Contactless PNP transistors			
XC-07R Series		Amagnetic reed Switch contact	5~240V DC/AC		
		Contactless NPN transistors	5~30V DC		
		Contactless PNP transistors			
XC-15R Series		Amagnetic reed Switch contact	5~240V DC/AC		
		Contactless NPN transistors	5~30V DC		
		Contactless PNP transistors			
XC-20R Series		Amagnetic reed Switch contact	5~240V DC/AC		
		Contactless NPN transistors	5~30V DC		
		Contactless PNP transistors			
XC-36R Series		Amagnetic reed Switch contact	5~240V DC/AC		
		Contactless NPN transistors	5~30V DC		
		Contactless PNP transistors			
XC-17R Series		Amagnetic reed Switch contact	10~28V DC		
		Contactless NPN transistors	5~30V DC		
		Contactless PNP transistors			
XC-27R Series		Amagnetic reed Switch contact	10~28V DC		
		Contactless NPN transistors	5~30V DC		
		Contactless PNP transistors			

BK / PBN / PN Series Clamp

BK Series Clamp

Clamp is designed for mounting XC-03 series sensor on $\Phi 6$ bore and above round cylinder

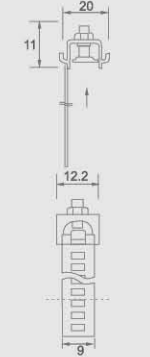
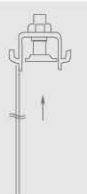
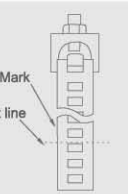
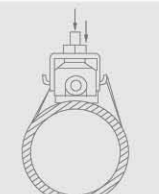
Product	Dimension	Mounting			
		Step 1	Step 2	Step 3	Step 4
		1.Release the screw up 2.Make the screw within the collect	1.Put one end of the band to the hanger 2.Install the switch and strain the metal band. 3.Another end of the band to the hanger and make mark.	1.Cut the metal band at the opposite face of the marked position	1.Put the metal band on the marked position. 2.Install the switch,lock the screw. 3.Finally lock the screw nut.
					

BK-81:For round cylind cylinder and tie-rod cylinder $\Phi 6$ - $\Phi 63$.

BK-82:For round cylind cylinder and tie-rod cylinder $\Phi 6$ - $\Phi 125$.(Speed design for $\geq \Phi 125$)

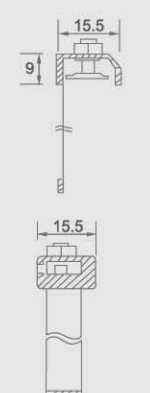
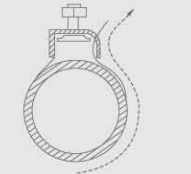
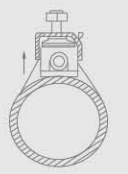
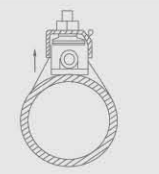
PBN Series Clamp

Clamp is designed for mounting XC-21 series sensor on $\Phi 12$ bore and above round cylinder

Product	Dimension	Mounting			
		Step 1	Step 2	Step 3	Step 4
		1.Release the screw up 2.Make the screw within the collect	1.Put one end of the band to the hanger 2.Install the switch and strain the metal band. 3.Another end of the band to the hanger and make mark.	1.Cut the metal band at the opposite face of the marked position	1.Put the metal band on the marked position. 2.Install the switch,lock the screw. 3.Finally lock the screw nut.
					

PBN Series Clamp

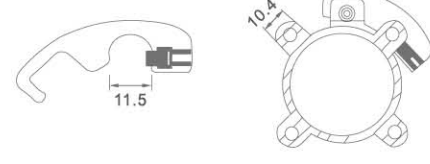
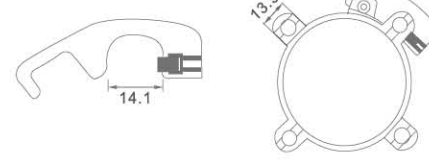
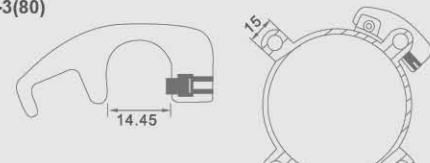
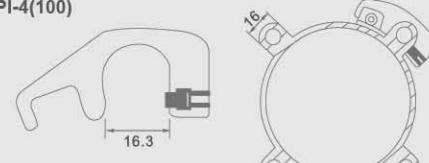
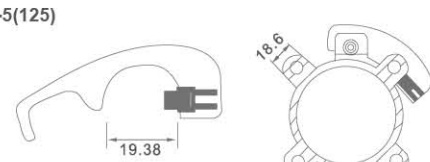
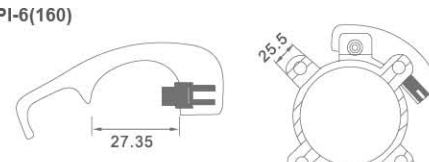
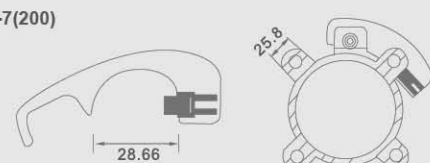
Clamp is designed for mounting XC-21 series sensor on $\Phi 12$ bore and above round cylinder

Product	Dimension	Mounting			
		Step 1	Step 2	Step 3	Step 4
		1.Release the screw up 2.Make the screw within the collect	1.Put one end of the band to the hanger 2.Install the switch and strain the metal band. 3.Another end of the band to the hanger and make mark.	1.Cut the metal band at the opposite face of the marked position	1.Put the metal band on the marked position. 2.Install the switch,lock the screw. 3.Finally lock the screw nut.
					
		PN	S	20	12:Round cylinder $\Phi 12$ 16:Round cylinder $\Phi 16$ 150:Round cylinder $\Phi 150$ S:Stainless steel round cylinder A:Aluminum round cylinder

PI / PAC Series Bracket

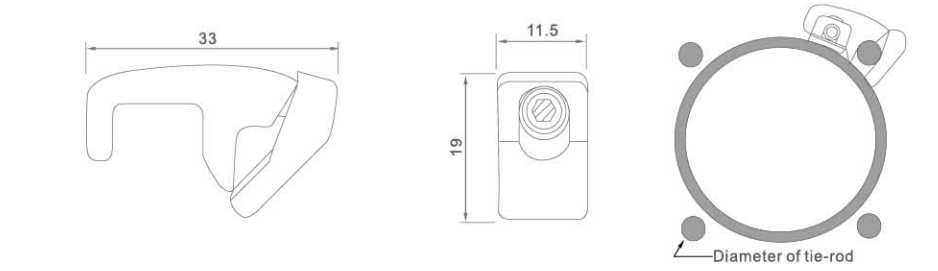
PI Series Bracket

Bracket is designed for mounting XC-21 series sensor on ISO profile cylinder.(mickey mouse Type)

Product	Dimension/Installation	
	PI-1(32/40)	
	PI-2(50/63)	
	PI-3(80)	
	PI-4(100)	
	PI-5(125)	
	PI-6(160)	
	PI-7(200)	

PAC Series Bracket

Bracket is designed for mounting XC-21 series on tie-rod cylinder.

Product	Dimension/Installation	
		
	Using for tie-rod cylinder $\Phi 32$ - $\Phi 100$,hydraulic cylinder(tie-rod bore $\Phi 4$ - $\Phi 10$)	

PM / SU Series Bracket

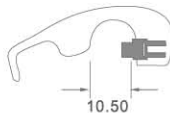
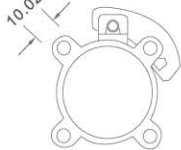
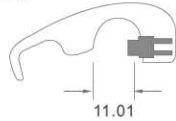
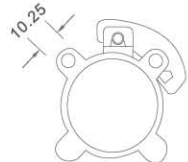
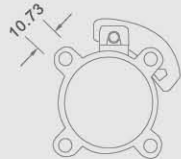
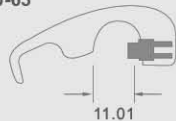
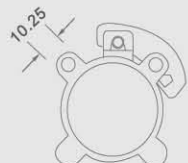
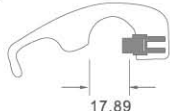
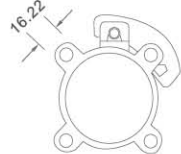
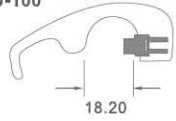
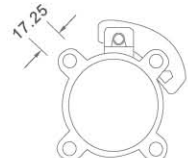
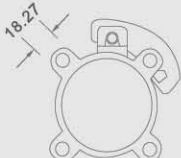
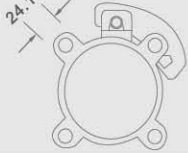
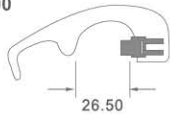
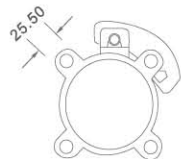
PM Series Bracket

Bracket is designed for mounting XC-21 series on tie-rod cylinder.

Product	Dimension/Installation			
	PM-6(32/40/50) 	 Dia.of Tie rod : $\phi 5\sim\phi 6$	PM-8(63) 	 Dia.of Tie rod : $\phi 8$
	PM-10(80/100) 	 Dia.of Tie rod : $\phi 10$	PM-12(125) 	 Dia.of Tie rod : $\phi 12$
	PM-16(160/200) 	 Dia.of Tie rod : $\phi 16$		

SU Series Bracket

Bracket is designed for mounting XC-21R sensor on mickey mouse Type cylinder (SUType).

Product	Dimension/Installation			
	SU-32  10.50	 10.02	SU-40  11.01	 10.25
	SU-50  11.43	 10.73	SU-63  11.01	 10.25
	SU-80  17.89	 16.22	SU-100  18.20	 17.25
	SU-125  19.10	 18.27	SU-160  25.49	 24.10
	SU-200  26.50	 25.50		

HAC Series Shock Absorbers



HAC2020-2



HAC2525-2



HACD2035

Ordering Code

HAC

Series Code
HAC:Multi Non-Adjustable Type
HACD: Double Direction Cushion Type

25

Outside Diameter

50

Stroke

2

Impact speed
1. High Impact Speed
2. Medium Impact Speed
3. Low Impact Speed

N

Buffer cap
Blank:with buffer cap
N:Without buffer cap

Specification

Model	Stroke	Max.Absorbing Energy (NM)	Max.Absorb. Energy/Hour (NM)	Max.Effective Mass(kg)			Max.Impact Speed (m/s)		
				1	2	3	1	2	3
HAC-0806	6	2	7200	0.5	2	6	2	1	0.5
HAC-1005	5	3	10800	1	3	7	3	1.5	0.8
HAC-1008	8	4	14400	2	4	9	3	1.5	0.8
HAC-1210	10	5	18000	5	10	30	2	1.5	0.8
HAC-1412	12	15	36000	8	50	100	3	1.5	0.8
HAC-1416	16	20	40000	10	70	150	3	1.5	0.8
HAC-1425	25	25	48000	12	80	160	3	1.5	0.8
HAC-2020	20	40	48000	30	200	700	3.5	2	1
HAC-2030	30	50	54000	30	200	700	3.5	2	1
HAC-2050	50	60	66000	60	400	1200	3.5	2	1
HAC-2525	25	80	60000	200	600	1200	4	2.5	1
HAC-2540	40	120	84000	300	800	2000	4	2.5	1
HAC-2550	50	98	98000	15	40	160	4	2.5	1
HAC-2580	80	150	127500	20	50	200	4	2.5	1
HAC-3660	60	250	125000	400	1500	2400	4	2.5	1
HACD-2030	30	45	54000	40	300	900	3.5	2	1
HACD-2050	35	52	64400	40	200	650	3.5	2	1

Working Temperature: -10~85°C

HAD Series Shock Absorber



HAD2025

HAD2540

Ordering Code

HAD

25

25

1

□

Series Code
HAD:Adjustable
Series

Outside
Diameter

Stroke

Impact speed
1:High impact speed
2:Medium impact speed
3:Low impact speed

Buffer cap
Blank:with buffer cap
N:Without buffer cap

Specification

Model	Stroke	Max.Absorbing Energy (NM)	Max.Absorb. Energy/Hour (NM)	Max Effective Mass(kg)	Max Impact speed(m/s)
HAD-1410	10	20	24000	80	3.2
HAD-2016N/2016	16	25	32000	200	3.6
HAD2050-N/2050	25	39	39000	312	3.6
HAD2525-N/2525	25	85	51000	400	3.6
HAD2540	40	100	84000	700	3.6
HAD2550	50	98	98000	720	4.2
HAD3625	25	150	9000	1400	3.2
HAD3650	50	300	108000	1400	4.8
HAD4225	25	260	130000	3000	3.6
HAD4250	50	500	155000	4000	4.8
HAD4275	75	750	187500	6000	4.8
HAD64050	50	12000	1560000	12727	1.6
HAD64100	100	24000	1920000	18181	1.6
HAD64150	150	36000	2520000	23636	1.6

Working Temperature: -10~+85°C

HR Series Speed Regulator



HR30

Ordering Code

HR

30

Series Code
HR:Adjustable
oil speed
regulator

Max.Stroke
15:15mm
30:30mm
60:60mm
80:80mm
100:100mm

Model	A	B	Max.stroke(mm)	Maximum load(kgf)
HR15	157	142	15	350
HR30	208	178	30	350
HR60	286	225	60	350
HR80	342	262	80	350
HR100	396	296	100	350

Working Temperature: -10~+85°C

Pneumatic Actuator

According to ISO5211, VD/VDE3845 and NAMUR international standard, XCPC provide the qualified pneumatic actuator which is compact, modernized design for your selection. Single acting and double acting as optional, size from 32mm to 270mm, and meet the different requirement of application to satisfy our customers.

