



PROFESSIONAL
OEM & ODM PNEUMATIC CYLINDERS



Wenzhou Qiaosen Pneumatic Co., Ltd

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DNC系列ISO6431标准气缸 DNC Series ISO6431 Standard Cylinder



DNC40X50

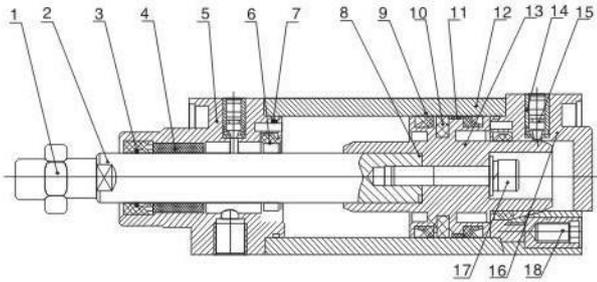
订购码 Ordering Code

DNC	63	×	50	—	25	—	S	—	LB
系列代号 Series Code	缸径 Bore		行程 Stroke		可调行程 Adjustable Stroke		磁石代号 Magnet		固定形式 Mountings
DNC:ISO6431标准复动型					25:25mm		S: 附磁石		空白: 基本型
DNCD:ISO1552标准双轴复动型					50:50mm		空白: 不附磁石		LB: 前后固定型
DNCJ:ISO6431双轴行程可调型					75:75mm		S: With magnet		FA: 前盖固定型(前法兰)
DNC:ISO6431 Standard Double Action Type							Blank: Without magnet		FB: 后盖固定型(后法兰)
DNCD:ISO6431 Standard Double-shaft, Double Acting									CA: 后盖固定型(单耳环)
DNCJ:ISO6431 Double-shaft With Adjustable Stroke									CB: 后盖固定型(双耳环)
									SDB: 后盖固定型(斜耳环)
									TC: 中间摇摆式
									Blank: Basic type
									LB: Front & 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
									TC: Central trunnion type

规格 Specification

内径 Bore (mm)	32	40	50	63	80	100	125
动作型式/Motion Pattern	复动 Double Action						
工作介质/Working Medium	经过滤的空气 Filtered Air						
耐压实验压力/Compression Pressure	1.5MPa						
最高使用压力/Max. Operating Pressure	1.0MPa						
最低工作压力/Min. Operating Pressure	0.1MPa						
缓冲/Buffer	气缓冲(标准) Air Buffer(Standard)						
环境温度/Condition Temperature	5~60℃						
使用速度/Operating Speed	50~500mm/s						
行程误差/Margin of Stroke Error(mm)	0~250		251~1000		1001~1500		
使用寿命/Operating Life	不低于 Not Less Than 4000km						
润滑/Lubricate	不需要 Not Necessary+1.0						
接管口径/Port Size	G1/8"	G1/4"	G3/8"			G1/2"	

内部结构 Internal Structure

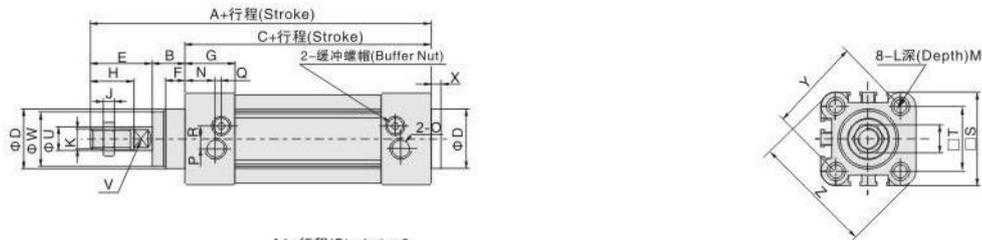


零件表 Parts

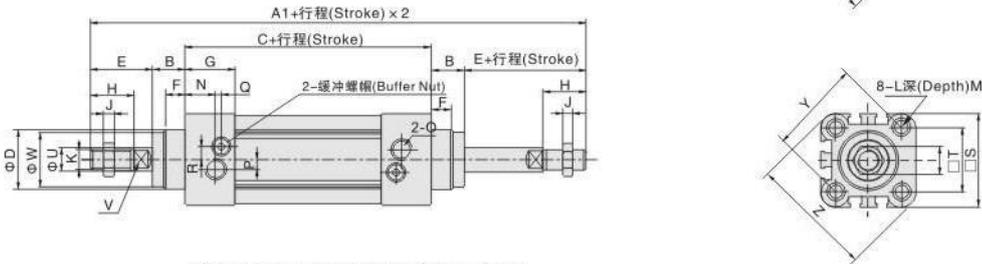
序号 NO.	名称 Designation	序号 NO.	名称 Designation
1	活塞杆螺母 Piston Rod Nut	10	磁铁(可选) Magnet(Optional)
2	活塞杆 Piston Rod	11	耐磨环 Wear Ring
3	前盖防尘圈 Front Cover Seal Ring	12	缸筒 Barrel
4	含油轴套 Bushing	13	活塞 Piston
5	前盖 Front Cover	14	缓冲针密封圈 Buffer Seal
6	缓冲密封圈 Cushion O-ring	15	缓冲调节针 Buffer Needle
7	管壁O型圈 O-ring	16	后盖 Cover
8	活塞杆密封圈 Piston rod O-ring	17	内六角螺栓 Hex Socket Screw
9	活塞O型圈 Piston O-ring	18	端盖固定螺母 Profile Bolts

外形尺寸 Overall Dimension

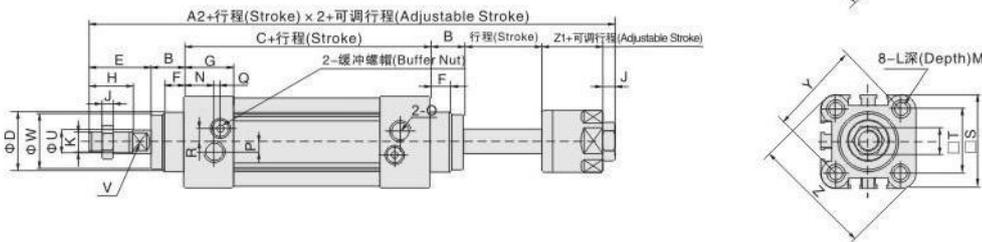
DNC



DNCD



DNCJ



尺寸表 Dimension Sheet

内径Bore/符号Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L
32	142	190	185	16	94	30	32	10	26	22	17	6	M10×1.25	M6
40	159	213	207	21	105	35	34	10	29.5	24	17	7	M12×1.25	M6
50	175	244	233	27	106	40	42	10	30	32	23	8	M16×1.5	M8
63	190	258	247	27	122	45	42	10	35.5	32	23	8	M16×1.5	M8
80	214	301	288	35	127	45	54	10	36	40	26	10	M20×1.5	M10
100	229	321	308	38	137	55	54	10	39	40	26	10	M20×1.5	M10
125	277	394	378	46	160	60	71	10	45	54	40	10	M27×2	M12

内径Bore/符号Symbol	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Z1
32	12	15	G1/8	5	3	6.5	45	32.5	12	10	28	4	46	58.7	21
40	12	17.5	G1/4	7	3	7	52	38	16	13	33	4	53.7	68	21
50	12	20	G1/4	7	3	9	65	46.5	20	17	38	4	65.8	84.5	23
63	12	22	G3/8	8	5	9	76	56.5	20	17	38	4	79.9	99.6	23
80	15	23	G3/8	10	5	12	94	72	25	22	43.5	5	101.8	123.8	29
100	15	26	G1/2	10	5	14	112	89	25	22	47	6	125.9	148.9	29
125	20	29	G1/2	10	5	14	134	110	32	27	53	7	156.9	179.6	40.5

SDNC不锈钢系列ISO6431标准气缸 SDNC Stainless Steel Series ISO6431 Standard Cylinder



SDNC40×75S

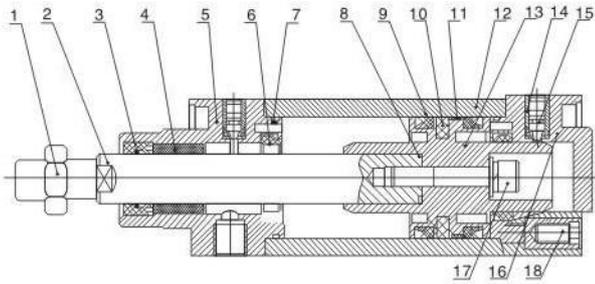
订购码 Ordering Code

S	DNC	63	×	50	—	25	—	S	—	LB
材料 Magnet	系列代号 Series Code	缸径 Bore		行程 Stroke		可调行程 Adjustable Stroke		磁石代号 Magnet		固定形式 Mountings
S: 不锈钢 S: Stainless steel	DNC:ISO6431标准复动型 DNCD:ISO6431标准双轴复动型 DNCJ:ISO6431双轴行程可调型 DNC:ISO6431 Standard Double Action Type DNCD:ISO6431 Standard Double-shaft, Double Acting DNCJ:ISO6431 Double-shaft With Adjustable Stroke					25:25mm 50:50mm 75:75mm		S: 附磁石 空白: 不附磁石 S: With magnet Blank: Without magnet		空白: 基本型 LB: 前后固定型 FA: 前盖固定型(前法兰) FB: 后盖固定型(后法兰) CA: 后盖固定型(单耳环) CB: 后盖固定型(双耳环) SDB: 后盖固定型(斜耳环) TC: 中间摇摆式 Blank: Basic type LB: Front & 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 TC: Central trunnion type

规格 Specification

内径 Bore (mm)	32	40	50	63	80	100	125
动作型式/Motion Pattern	复动 Double Action						
工作介质/Working Medium	经过滤的空气 Filtered Air						
耐压实验压力/Compression Pressure	1.5MPa						
最高使用压力/Max. Operating Pressure	1.0MPa						
最低工作压力/Min. Operating Pressure	0.1MPa						
缓冲/Buffer	气缓冲(标准) Air Buffer(Standard)						
环境温度/Condition Temperature	5~60℃						
使用速度/Operating Speed	50~500mm/s						
行程误差/Margin of Stroke Error(mm)	0~250		251~1000		1001~1500		
使用寿命/Operating Life	不低于 Not Less Than 4000km						
润滑/Lubricate	不需要 Not Necessary+1.0						
接管口径/Port Size	G1/8"	G1/4"		G3/8"		G1/2"	

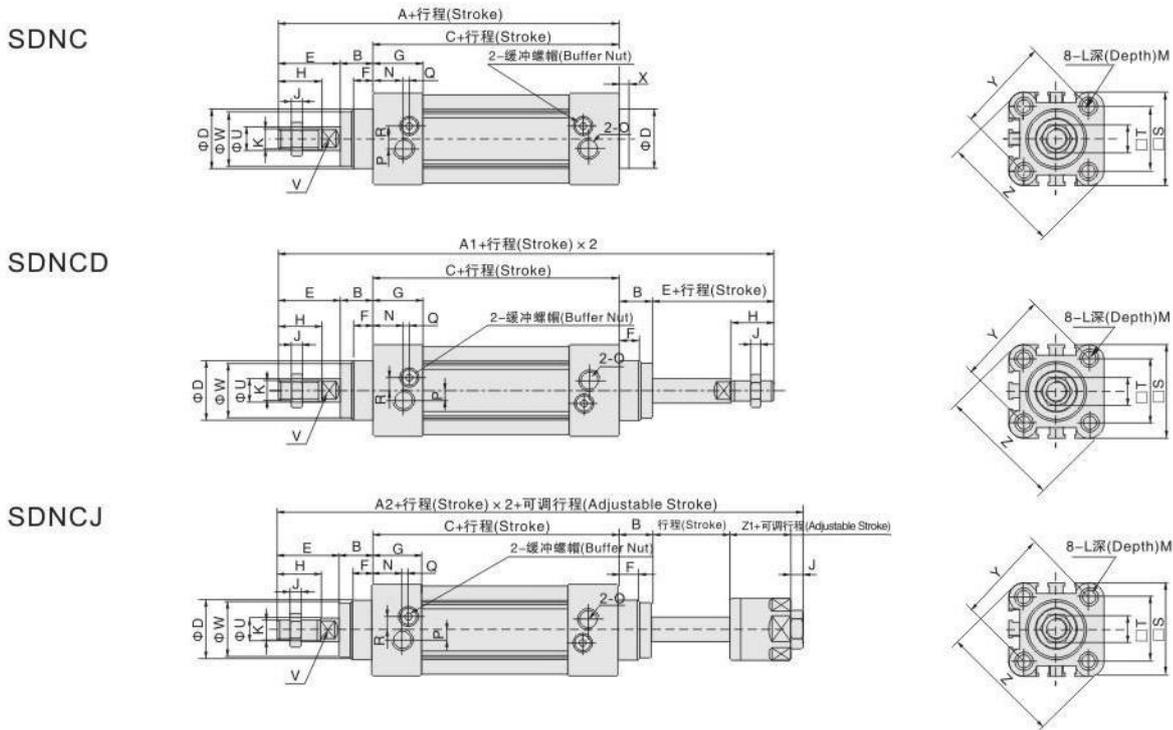
内部结构 Internal Structure



零件表 Parts

序号 NO.	名称 Designation	序号 NO.	名称 Designation
1	活塞杆螺母 Piston Rod Nut	10	磁铁(可选) Magnet(Optional)
2	活塞杆 Piston Rod	11	耐磨环 Wear Ring
3	前盖防尘圈 Front Cover Seal Ring	12	缸筒 Barrel
4	含油轴套 Bushing	13	活塞 Piston
5	前盖 Front Cover	14	缓冲针密封圈 Buffer Seal
6	缓冲密封圈 Cushion O-ring	15	缓冲调节针 Buffer Needle
7	管壁O型圈 O-ring	16	后盖 Cover
8	活塞杆密封圈 Piston rod O-ring	17	内六角螺栓 Hex Socket Screw
9	活塞O型圈 Piston O-ring	18	端盖固定螺母 Profile Bolts

外形尺寸 Overall Dimension



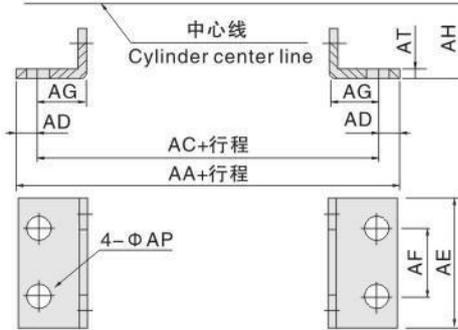
尺寸表 Dimension Sheet

内径Bore/符号Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L
32	142	190	185	16	94	30	32	10	26	22	17	6	M10×1.25	M6
40	159	213	207	21	105	35	34	10	29.5	24	17	7	M12×1.25	M6
50	175	244	233	27	106	40	42	10	30	32	23	8	M16×1.5	M8
63	190	258	247	27	122	45	42	10	35.5	32	23	8	M16×1.5	M8
80	214	301	288	35	127	45	54	10	36	40	26	10	M20×1.5	M10
100	229	321	308	38	137	55	54	10	39	40	26	10	M20×1.5	M10
125	277	394	378	46	160	60	71	10	45	54	40	10	M27×2	M12

内径Bore/符号Symbol	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Z1
32	12	15	G1/8	5	3	6.5	45	32.5	12	10	28	4	46	58.7	21
40	12	17.5	G1/4	7	3	7	52	38	16	13	33	4	53.7	68	21
50	12	20	G1/4	7	3	9	65	46.5	20	17	38	4	65.8	84.5	23
63	12	22	G3/8	8	5	9	76	56.5	20	17	38	4	79.9	99.6	23
80	15	23	G3/8	10	5	12	94	72	25	22	43.5	5	101.8	123.8	29
100	15	26	G1/2	10	5	14	112	89	25	22	47	6	125.9	148.9	29
125	20	29	G1/2	10	5	14	134	110	32	27	53	7	156.9	179.6	40.5

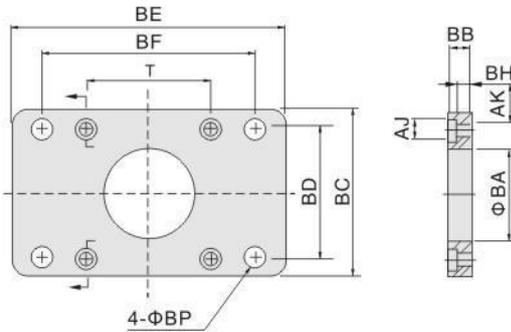
DNC系列ISO6431标准气缸安装附件 DNC Series ISO6431 Standard Cylinder Accessories

LB支架 / LB



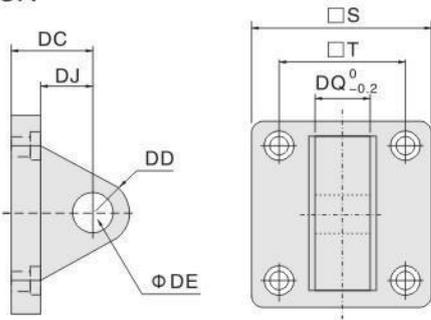
内径 Bore	32	40	50	63	80	100	125
AA	158	179	190	209	248	258	290
AC	142	161	170	185	210	220	250
AD	8	9	10	12	19	19	20
AE	47	53	65	75	95	115	140
AF	32	36	45	50	63	75	90
AG	24	28	32	32	41	45	45
AH	32	36	45	50	63	71	90
AP	7	9	9	9	12.5	14.5	16.5
AT	3	3	3	3	4	4	6

FA、FB法兰板 / FA、FB



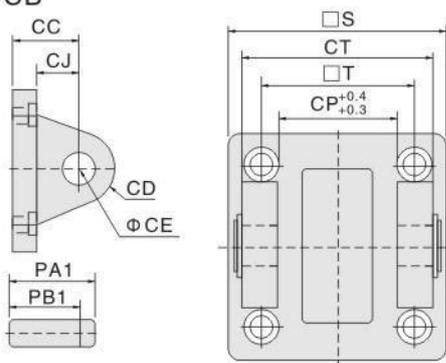
内径 Bore	32	40	50	63	80	100	125
AJ	11	11	14	14	17	17	19
AK	7	7	9	9	11	11	13
BA	30.5	35.5	40.5	45.5	45.5	55.5	60.5
BB	10	10	12	12	16	16	20
BC	47	53	65	75	95	115	140
BD	32	36	45	50	63	75	90
BE	80	90	110	125	154	186	224
BF	64	72	90	100	126	150	180
BH	4	4	4	6	6	6	8
BP	7	9	9	9	12.5	14.5	16.5
T	32.5	38	46.5	56.5	72	89	110

CA单耳 / CA



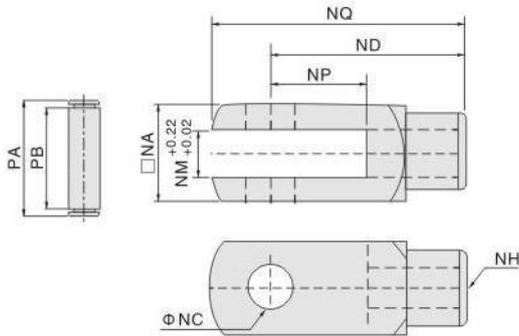
内径 Bore	32	40	50	63	80	100	125
S	47	53	65	75	95	115	140
T	32.5	38	46.5	56.5	72	89	110
DC	22	25	27	32	36	41	50
DD	9	12	12	15	15	20	25
DE	10	12	12	16	16	20	25
DJ	13	16	17	22	22	27	33
DQ	25.8	27.8	31.7	39.7	49.7	59.7	69.7

CB双耳 / CB



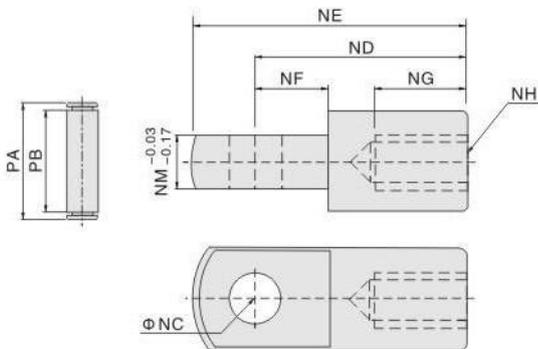
内径 Bore	32	40	50	63	80	100	125
CC	22	25	27	32	36	41	50
CD	9	12	12	15	15	20	25
CE	10	12	12	16	16	20	25
CJ	13	16	17	22	22	27	31
CP	26	28	32	40	50	60	70
CT	45	52	60	70	90	110	130
PA1	51	59	67	77	97	119	139
PB1	45.5	52.5	60.5	70.5	90.5	110.5	130.5
S	47	53	65	75	95	115	140
T	32.5	38	46.5	56.5	72	89	110

Y型 / Y



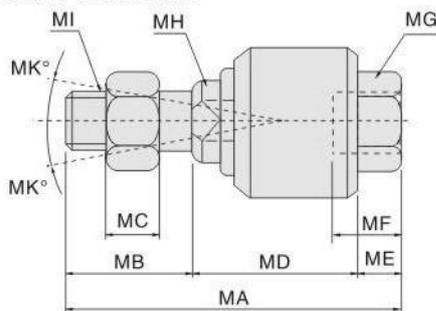
内径 Bore	NA	NC	ND	NE	NF	NG
32	19	10	40	52	15	20
40	25.4	12	48	67	24	20
50	32	16	64	89	32	23
63	32	16	64	89	32	23
80	44.4	20	80	112	40	30
100	44.4	20	80	112	40	30
125	55	20	100	130	50	56

I型 / I



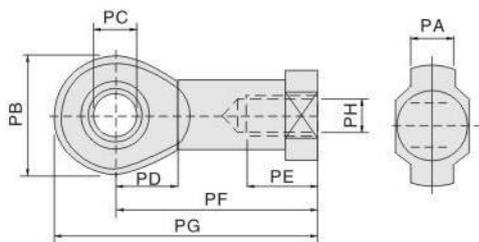
内径 Bore	NH	NM	NP	NQ	PA	PB
32	M10 × 1.25	10	20	52	26.2	20
40	M12 × 1.25	12	24	62	32.8	26.5
50	M16 × 1.5	16	32	83	39.3	33
63	M16 × 1.5	16	32	83	39.3	33
80	M20 × 1.5	20	40	105	53.3	45
100	M20 × 1.5	20	40	105	53.3	45
125	M27 × 2.0	30	45	130	64	55.6

UJ浮动接头 / Float Joint



内径 Bore	MA	MB	MC	MD	ME	MF	MG	MH	MI
32	73	20	6	45	8	26	M10 × 1.25	12	M10 × 1.25
40	77	24	7	46	7	26	M12 × 1.25	12	M12 × 1.25
50	106	32	8	62	12	34	M16 × 1.5	19	M16 × 1.5
63	106	32	8	62	12	34	M16 × 1.5	19	M16 × 1.5
80	122	40	10	68	14	42	M20 × 1.5	19	M20 × 1.5
100	122	40	10	68	14	42	M20 × 1.5	19	M20 × 1.5
125	147	54	13.5	77	16	40	M27 × 2.0	24	M27 × 2.0

PHS鱼眼接头 / Fisheyes



内径 Bore	PA	PB	PC	PD	PE	PF	PG	PH
32	14	28	10	15	20	43	57	M10 × 1.25
40	16	32	12	17	22	50	66	M12 × 1.25
50	21	42	16	22	28	64	85	M16 × 1.5
63	21	42	16	22	28	64	85	M16 × 1.5
80	25	50	20	26	33	77	102	M20 × 1.5
100	25	50	20	26	33	77	102	M20 × 1.5
125	37	70	30	36	51	110	145	M27 × 2.0

SI系列ISO6431标准气缸 SI Series ISO6431 Standard Cylinder



SI63X100S

订购码 Ordering Code

SI	50	×	50	—	25	—	S	—	LB
系列代号 Series Code	缸径 Bore		行程 Stroke		可调行程 Adjustable Stroke		磁石代号 Magnet		固定形式 Mountings
SI: ISO6431 标准复动型					25:25mm		S: 内置磁环		空白: 基本型
SID: ISO6431 标准双轴复动型					50:50mm		空白: 标准型		LB: 前后固定型
SIJ: ISO6431 双轴行程可调型					75:75mm		S: With magnet		FA: 前盖固定型(前法兰)
SI: ISO6431 Standard Double Action Type							Blank: Without magnet		FB: 后盖固定型(后法兰)
SID: ISO6431 Standard Double-shaft, Double Acting									CA: 后盖固定型(单耳环)
SIJ: ISO6431 Double-shaft With Adjustable Stroke									CB: 后盖固定型(双耳环)
									SDB: 后盖固定型(斜耳环)
									TC: 中间摇摆式
									Blank: Basic type
									LB: Front & 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
									TC: Central trunnion type

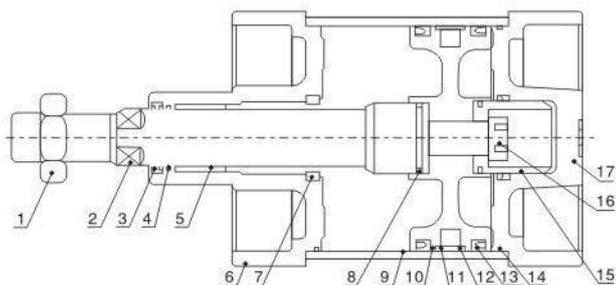
规格 Specification

内径 Bore(mm)	32	40	50	63	80	100	125	160	200
动作型式 Motion Pattern	复动型 Double Action								
工作介质 Working Medium	经过滤的空气 Filtered Air								
固定型式 Fixed Type	基本型/Normal type FA型/Type FB型/Type CA型/Type CB型/Type SDB型/Type LB型/Type TC型/Type								
使用压力范围 Working pressure Range	0.1~ 1.0MPa								
保证耐压力 Ensured Pressure Resistance	1.5MPa								
使用温度范围 Operating Temperature Range	-5~70℃								
使用速度范围 Operating Speed Range	50 ~ 800 mm/s								
缓冲型式 Buffer Type	可调节缓冲/Adjustable Buffer								
缓冲行程/Buffer Stroke	20mm			26mm			45mm		
接管口径/Port Size	G1/8 "	G1/4 "	G3/8 "		G1/2 "		G3/4 "		

行程 Stroke

内径 Bore(mm)	标准行程 Standard Stroke	最大行程 Max.Stroke	容许行程 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
250	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
320	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000

内部结构 Internal Structure



零件表 Parts

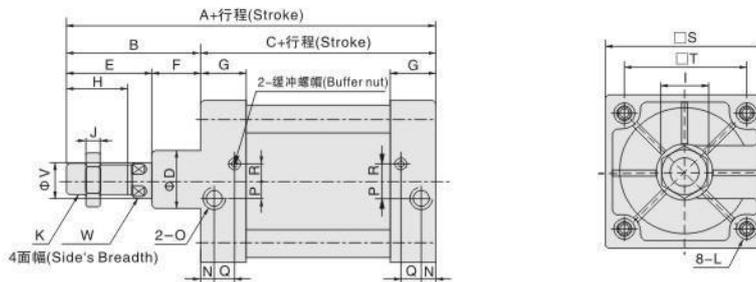
序号 NO.	名称 Designation	序号 NO.	名称 Designation
1	活塞杆螺母 Piston Rod Nut	10	活塞 Piston
2	活塞杆 Piston Rod	11	耐磨环 Wear Ring
3	前盖密封圈 Front Cover Seal Ring	12	磁铁(可选) Magnet(Optional)
4	O型圈 O-ring	13	活塞O型圈 Pistion O-ring
5	含油轴承 Bearing	14	管壁O型圈 Pipe Wall O-ring
6	前盖 Front Cover	15	缓冲体 Damping
7	缓冲体O型圈 Buffering O-ring	16	内六角螺栓 Hex Socket Screw
8	活塞杆 Piston Rod O-ring	17	后盖 Back Over
9	缸筒 Barrel		

气缸理论出力表 Cylinder theory output Sheet

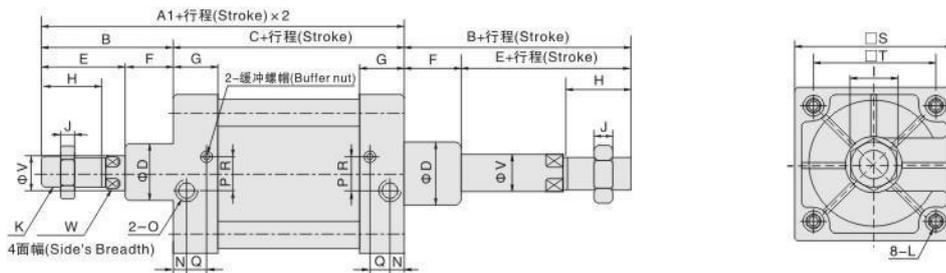
气缸内径 Cylinder Inside Diameter	活塞杆外径 External Diameter of Piston Rod	动作型式 Motion Pattern	受压面积 Compression Area(cm ²)	空气压力 Ari Pressure(Kgf/cm ²)								
				1	2	3	4	5	6	7	8	9
32	12	压侧 Press Side	8.04	8.04	16.08	24.12	32.16	40.20	48.24	56.28	64.32	72.36
		拉侧 Pull Side	6.90	6.90	13.80	20.07	27.60	34.50	41.40	48.30	55.20	62.10
40	16	压侧 Press Side	12.56	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100.24	113.04
		拉侧 Pull Side	10.55	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40	94.95
50	20	压侧 Press Side	19.63	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04	176.67
		拉侧 Pull Side	16.49	16.49	32.98	49.47	65.96	82.45	98.94	115.43	139.92	148.41
63	20	压侧 Press Side	31.17	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36	280.53
		拉侧 Pull Side	28.03	28.03	56.06	84.09	112.12	140.15	168.18	196.21	224.24	252.27
80	25	压侧 Press Side	50.26	50.26	100.52	150.78	201.04	251.30	301.56	351.82	402.08	452.34
		拉侧 Pull Side	45.36	45.36	90.72	136.08	181.44	226.80	272.16	317.52	326.88	408.24
100	25	压侧 Press Side	78.53	78.53	157.06	235.59	314.12	392.65	471.18	428.82	628.24	706.77
		拉侧 Pull Side	71.47	71.47	142.94	214.41	285.88	357.35	428.82	500.29	517.76	643.23
125	32	压侧 Press Side	122.72	122.72	245.44	368.16	490.88	613.60	736.32	859.04	981.76	1104.48
		拉侧 Pull Side	114.68	114.68	229.36	344.04	458.72	573.40	688.08	802.76	917.44	1032.12
160	40	压侧 Press Side	201.06	201.06	402.12	603.18	804.24	1005.30	1206.36	1407.42	1608.48	1809.54
		拉侧 Pull Side	188.49	188.49	376.98	565.47	753.96	942.45	1130.94	1319.43	1507.92	1696.41
200	40	压侧 Press Side	314.16	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.28	2827.44
		拉侧 Pull Side	301.57	301.57	603.14	904.71	1206.28	1507.80	1809.42	2100.99	2412.56	2714.13

外形尺寸 Overall Dimension

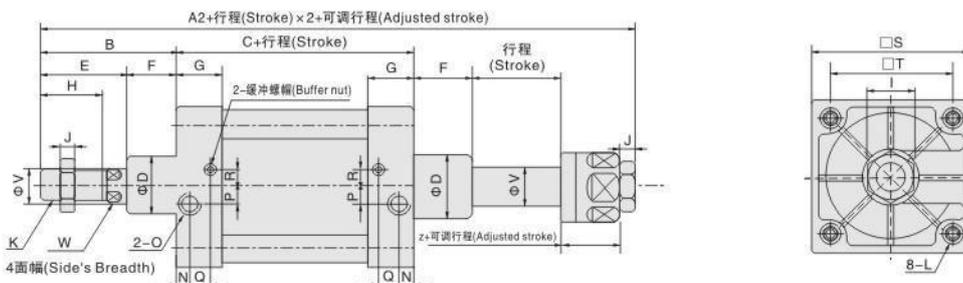
SI



SID



SIJ

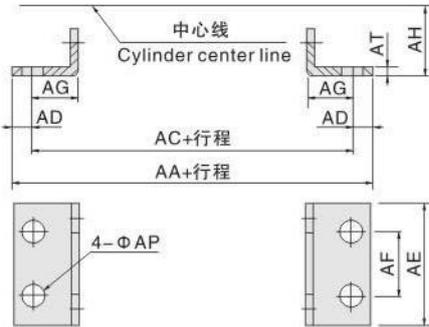


尺寸表 Dimension Sheet

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

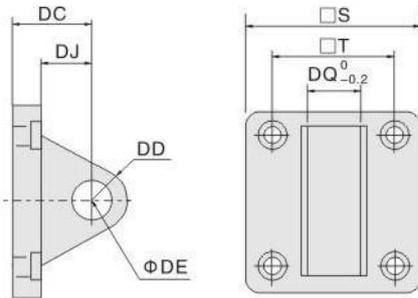
内径 Bore	L	N	O	P	Q	R	S	T	V	W	Z
32	M6	13.5	G1/8"	4	7.5	7	47	32.5	12	10	21
40	M6	16	G1/4"	6	8.5	9	53	38	16	13	21
50	M8	15.5	G1/4"	8.5	7.5	7.5	65	46.5	20	17	23
63	M8	16.5	G3/8"	7.5	8.5	9	75	56.5	20	17	23
80	M10	16.5	G3/8"	11	8.5	13.5	95	72	25	22	29
100	M10	18.5	G1/2"	13.5	9.5	14.5	115	89	25	22	29
125	M12	23	G1/2"	14	12	14	140	110	32	27	35
160	M16	25	G3/4"	15	12	20	180	140	40	36	40
200	M16	25	G3/4"	15	12	20	220	175	40	36	40

LB支架 /LB



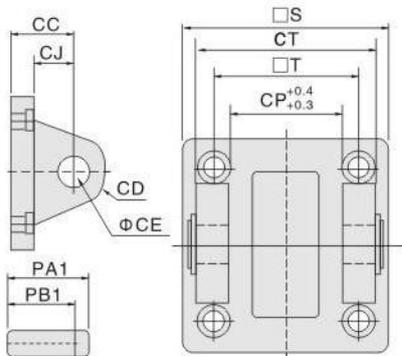
内径 Bore	32	40	50	63	80	100	125	160	200
AA	158	179	190	209	248	266	290	340	380
AC	142	161	170	185	210	228	250	300	320
AD	8	9	10	12	19	19	20	20	30
AE	47	53	65	75	95	115	140	180	220
AF	32	36	45	50	63	75	90	115	135
AG	24	28	32	32	41	45	45	60	70
AH	32	36	45	50	63	71	90	115	135
AP	7	9	9	9	12	14.5	16.5	18.5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

CA单耳/CA



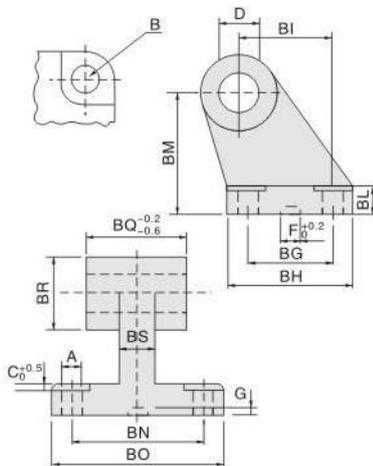
内径 Bore	32	40	50	63	80	100	125	160	200
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175
DC	22	25	27	32	36	41	50	55	60
DD	9	12	12	15	15	20	25	30	30
DE	10	12	12	16	16	20	25	30	30
DJ	13	16	17	22	22	27	33	35.5	36
DQ	25.8	27.8	31.7	39.7	49.7	59.7	69.7	89.7	89.7

CB双耳/CB



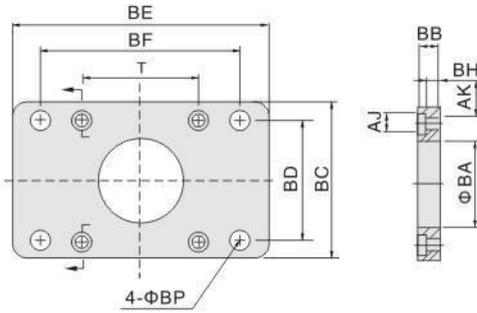
内径 Bore	32	40	50	63	80	100	125	160	200
CC	22	25	27	32	36	41	50	55	60
CD	9	12	12	15	15	20	25	30	30
CE	10	12	12	16	16	20	25	30	30
CJ	13	16	17	22	22	27	31	35.5	36
CP	26	28	32	40	50	60	70	90	90
CT	45	52	60	70	90	110	130	170	170
PA1	51	59	67	77	97	119	139	181	181
PB1	45.5	52.5	60.5	70.5	90.5	110.5	130.5	170.5	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

SDB后盖固定型(斜耳环)/SDB



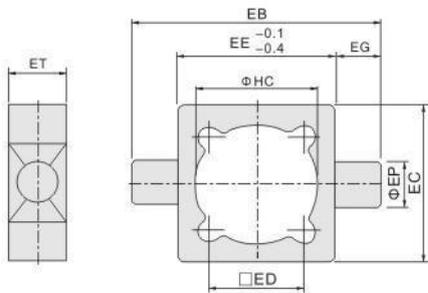
内径 Bore	32	40	50	63	80	100	125
A	6.6	6.6	9	9	11	11	14
B	11	11	15	15	18	18	20
BG	18	22	30	35	40	50	60
BH	31	35	45	50	60	70	90
BI	21	24	33	37	47	55	70
BL	8	10	10.5	12	14	17	20
BM	32	36	45	50	63	71	90
BN	38	41	50	52	66	76	94
BO	51	54	65	67	83	96	124
BS	12	15	18	22	20	20	30
BR	20	22	26	30	30	38	45
C	1.6	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	25	28	32	40	50	60	70

FA、FB法兰板 / FA、FB



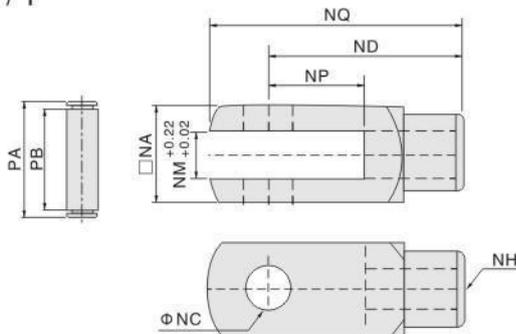
内径 Bore	32	40	50	63	80	100	125	160	200
AJ	11	11	14	14	17	17	19	25	25
AK	7	7	9	9	11	11	13	17	17
BA	30.5	35.5	40.5	45.5	45.5	55.5	60.5	65.5	75.5
BB	10	10	12	12	16	16	20	20	25
BC	47	53	65	75	95	115	140	180	220
BD	32	36	45	50	63	75	90	115	135
BE	80	90	110	125	154	186	224	280	320
BF	64	72	90	100	126	150	180	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

TC中摆 / TC



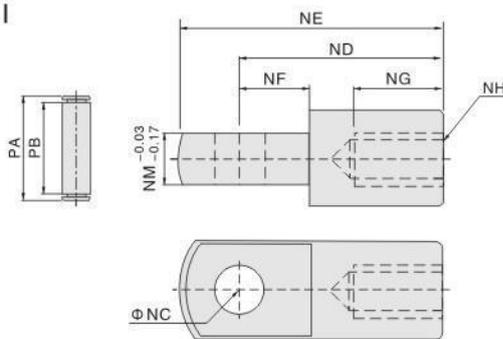
内径 Bore	32	40	50	63	80	100	125	160	200
EB	100	113	125	140	160	182	-	-	-
EC	52	63	74	80	105	128	-	-	-
ED	32.5	38	46.5	56.5	72	89	-	-	-
EE	52	63	75	90	105	128	-	-	-
EG	25	25	25	25	25	25	-	-	-
EP	12	16	16	20	20	25	-	-	-
ET	20	22	22	28	28	34	-	-	-
HC	37	45	55	68	87	107.5	-	-	-

Y型 / Y



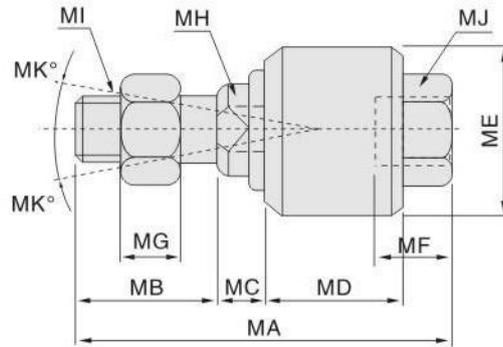
内径 Bore	NA	NC	ND	NE	NF	NG
32	19	10	40	52	15	20
40	25.4	12	48	67	24	20
50	32	16	64	89	32	23
63	32	16	64	89	32	23
80	44.4	20	80	112	40	30
100	44.4	20	80	112	40	30
125	55	20	100	130	50	56
160	80	30	125	155	50	72
200	80	30	125	155	55	72

I型 / I



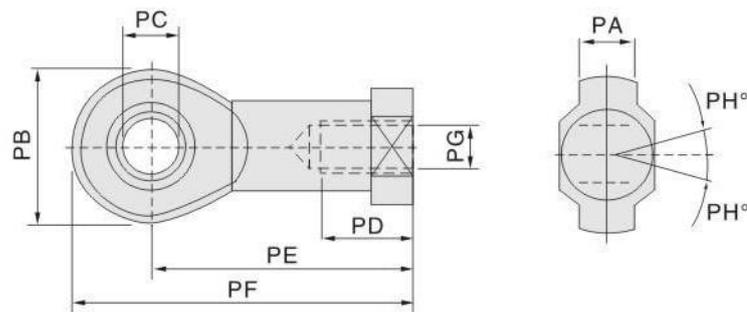
内径 Bore	NH	NM	NP	NQ	PA	PB
32	M10 × 1.25	10	20	52	26.2	20
40	M12 × 1.25	12	24	62	32.8	26.5
50	M16 × 1.5	16	32	83	39.3	33
63	M16 × 1.5	16	32	83	39.3	33
80	M20 × 1.5	20	40	105	53.3	45
100	M20 × 1.5	20	40	105	53.3	45
125	M27 × 2.0	30	45	130	64	55.6
160	M36 × 2.0	40	60	153	80	70.6
200	M36 × 2.0	40	60	153	80	70.6

UJ浮动接头 / Float Joint



内径 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	251	72	22	115	80	80	18	36	M36 × 2.0	4
200	251	72	22	115	80	80	18	36	M36 × 2.0	4

PHS鱼眼接头 / Fisheyes



内径 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

SC/SU系列标准气缸

SC/SU Series Standard Cylinder



SC63 X 75

特点 Features

普通经济型, 结构简单, 安装形式多, 使用范围广; 外形及安装尺寸符合ISO / 6430国际标准; 两端带有可调缓冲装置, 避免冲击; 并可装置行程控制开关, 使气缸在任意位置换向或终止; 工作介质为经过滤并油雾的压缩空气, 气缸无需加油润滑。

General economized type, Simple structure, various installation forms and wide application; external form and installation size conform to ISO/6430 international standard, adjustable buffer fitted at both ends to reduce impact; Stroke control switch can also be fixed to enable the cylinder to reverse or stop at any position; The working medium is the filtered and oil-misted compressed air, The air cylinder without the need to add lube.

产品说明 Product Explain

- ◆ 工作使用中负载不稳, 请选用输出力充裕的气缸, 特殊工作环境中(如高温环境, 结冻环境), 选用相对应或特殊制造气缸。
- ◆ 气缸接进出管前, 必须清除管内杂物(如金属削末)。
- ◆ 使用介质请选用, 经过滤40 μm以上精度的压缩空气。
- ◆ 气缸拆下长时间不使用, 请加防尘堵塞, 防止杂物进入
- ◆ For unstable load in the operation please select a cylinder with sufficient output force. For special work environment (such as high temperature environment and freezing environment), please select a related or special cylinder
- ◆ Before connecting the inlet and outlet pipes of the cylinder any foreign matters (such as metal bits) inside the pipe should be removed
- ◆ Please use compressed air filtered with minimum precision of 40 μm as the medium
- ◆ When the cylinder is moved and left unused for long time, please add dust proof stopper to prevent the entry of foreign matters.

订购码 Ordering Code

SC	D	50	×	50	—	25	—	S	—	LB
系列 Series	系列代码 Series Code	缸径 Bore		行程 Stroke		可调行程 Adjustable Stroke		磁石代号 Magnet		固定形式 Mountings
SC: 拉杆式	空白: 标准复动型	32						S: 附磁石		空白: 基本型
SU: 拉杆式内藏式	D: 双轴复动型	40						空白: 不附磁石		LB: 前后固定型
SC: Tie rod type	J: 双轴可调行程型	50						S: With magnet		FA: 前盖固定型
SU: Profile type	Blank: Standard double acting	63						Blank: Without magnet		FB: 后盖固定型
		80								CA: 后盖单耳固定型
	D: Double-shaft double acting	100								CB: 后盖双耳固定型
		125								TC: 中间摇摆式
	J: Double-shaft with adjustable stroke	160								TC-M: 摇摆式附脚座
		200								Blank: Basic mountings
		250								LB: Front and back mounting
		320								FA: Front mounting flange
										FB: Rear mounting flange
										CA: Rear clevis (Single earring)
										CB: Rear hinge (Double earring)
										CB: Rear hinge
										TC-M: Center trunnion

规格 Specification

内径 Bore (mm)	32	40	50	63	80	100	125	160	200	250	320
动作型式 Operation	复动型 Double Action Type										
工作介质 Working Medium	空气 Air										
*固定型式 Mountings	基本型/BasicType, FA型/Type, FB型/Type, CA型/Type, CB型 / Type, LB型 / Type, YB型 / Type										
使用压力范围 Operating Pressure Range	1~9.0MPa										
保证耐压力 Proof Pressure	13.5MPa										
使用温度范围℃ Operating Temperature Range	-5~70 ℃										
使用速度范围 Operating Speed Range	50~800 mm/s										
缓冲型式 Cushion	可调缓冲 Adjust Buffer										
缓冲行程 Adjustable Cushioning Stroke	20									26	
接管口径 Port Size	G1/8 *		G1/4 *			G3/8 *			G1/2 *		

*SCD、SCJ的固定型工为: FA、FB、LB、TC和TC-M型。SCD,SCJ mountings: FA, FB, LB, TC and TC-M type.

行程 Stroke

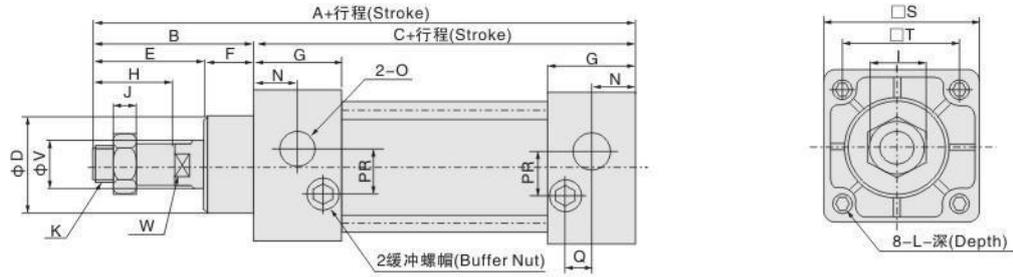
内径 Bore (mm)	标准行程 / Standard Stroke														最大行程 Max.Stroke	容许行程 Permissible Stroke							
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	1000	2000					
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	1200	2000		
50	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1200	2000
63	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
80	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
100	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
125	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
160	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
200	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
250	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
320	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000

气缸理论出力表 Cylinder theory output Sheet

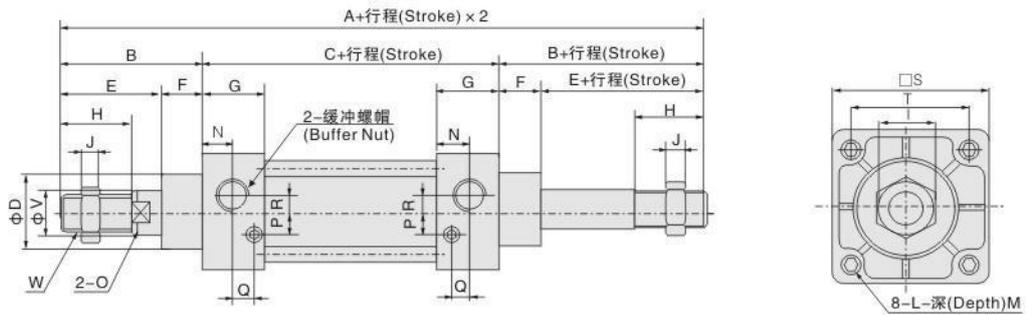
气缸内径 Cylinder Inside Diameter	32	40	50	63	80	100	125	160	200										
活塞杆外径 External Diameter of Piston Rod	12	16	20	20	25	25	32	40	40										
动作型式 Motion Pattern	复动型 Double Action																		
	压侧 Press Side	拉侧 Pull Side																	
受压面积(cm ²) Compression Area	8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	73.62	122.70	114.60	201.00	188.40	314.20	301.40	
空气压力 (Kgf/cm ²) Air Pressure	1	8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	73.62	122.70	114.60	201.00	188.40	314.20	301.40
	2	16.08	13.80	25.12	21.10	39.26	32.98	62.34	56.06	100.52	90.72	157.06	147.24	245.40	229.20	402.00	376.80	628.40	602.80
	3	24.12	20.70	37.68	31.65	58.89	49.47	93.51	84.09	150.78	136.08	235.59	220.86	368.10	343.80	603.00	565.20	942.60	904.20
	4	32.16	27.60	50.24	42.20	78.52	65.96	124.68	112.12	201.04	181.44	314.12	294.48	490.80	458.40	804.00	753.60	1256.80	1205.60
	5	40.20	34.50	62.80	52.75	98.15	82.45	155.85	140.15	251.30	226.80	392.65	368.10	613.50	573.00	1005.00	942.00	1571.00	1507.00
	6	48.24	41.40	75.36	63.30	117.78	98.94	187.02	168.18	301.56	272.16	471.18	441.72	736.20	687.60	1206.00	1130.40	1885.20	1808.40
	7	56.28	48.30	87.92	73.85	137.41	115.43	218.19	196.21	351.82	317.52	549.71	515.34	858.90	802.20	1407.00	1318.80	2199.40	2109.80
	8	64.32	55.20	100.48	84.40	157.04	131.92	249.36	224.24	402.08	362.88	628.24	588.96	981.60	916.80	1608.00	1507.20	2513.60	2411.20
	9	72.36	62.10	113.04	94.95	176.67	148.41	280.53	252.27	452.34	408.24	706.77	662.58	1104.30	1031.40	1809.00	1695.60	2827.80	2712.60

外形尺寸 Overall Dimension

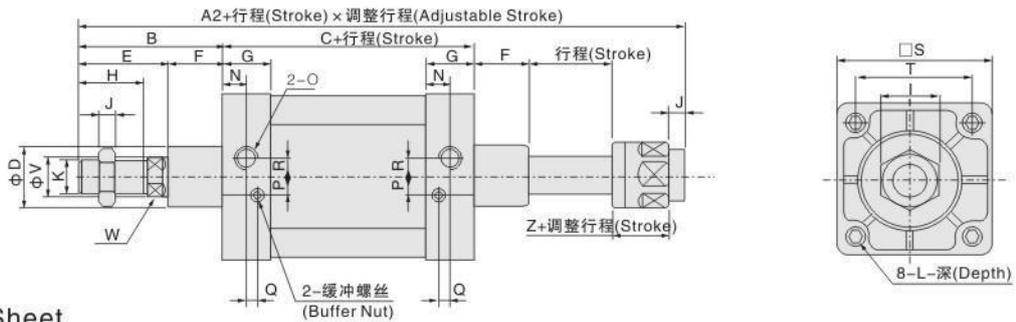
SC/SU



SCD/SUD



SCJ/SUJ



尺寸表 Dimension Sheet

内径/符号 Bore/ Symbol	A	A1	A1	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	38	42	15	27.5	32	23	8	M16 × 1.5
63	153	210	199	57	96	38	42	15	27.5	32	23	8	M16 × 1.5
80	183	258	243	75	108	47	54	21	33	40	26	10	M20 × 1.5
100	189	264	249	75	114	47	54	21	33	40	26	10	M20 × 1.5
125	226	/	/	104	122	55	70	34	33	54	40	10	M27 × 2
160	291	/	/	123	168	62	91	32	50	72	55	18	M36 × 2
200	347	/	/	167	180	80	112	55	50	72	55	18	M36 × 2
250	389	/	/	189	200	90	122	67	54	84	65	21	M42 × 2
320	436	/	/	216	220	110	126	90	65	96	75	24	M48 × 2

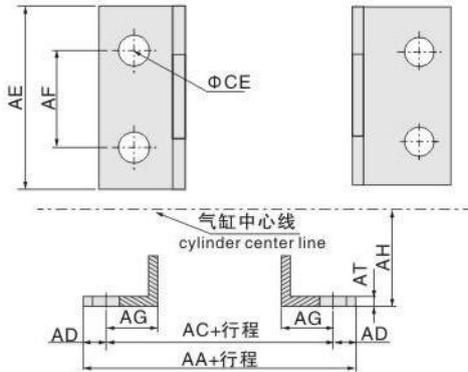
内径/符号 Bore/ Symbol	L	M	N	O	P	Q	S	R	T	V	W	Z
32	M6 × 1	9.5	13.5	G1/8"	3.5	7.5	45	7	33	12	12	21
40	M6 × 1	9.5	1.35	G1/4"	6	8.2	50	9	37	16	14	21
50	M6 × 1	9.5	13.5	G1/4"	8.5	8.2	62	9	47	20	17	23
63	M8 × 1.25	9.5	13.5	G 3/8"	7	8.2	75	8.5	56	20	17	23
80	M10 × 1.5	11.5	16.5	G3/8"	10	9.5	94	14	70	25	22	29
100	M10 × 1.5	11.5	16.5	G1/2"	11	9.5	112	14	84	25	22	29
125	M12 × 1.75	15.5	16.5	G1/2"	/	/	140	/	110	32	27	/
160	M16 × 2	17.5	25	G1/2"	/	/	180	/	140	40	36	/
200	M16 × 2	17.5	25	G 3/4"	/	/	220	/	175	40	36	/
250	M20 × 2	25	31	G 1"	18.5	5	270	40	220	50	46	/
320	M14 × 2	28	31	G 1"	35	15	350	35	270	63	55	/

SC/SU系列标准气缸附件

SC/SU Series Standard Cylinder Accessories

LB脚架 / LB

外形尺寸 Overall Dimension

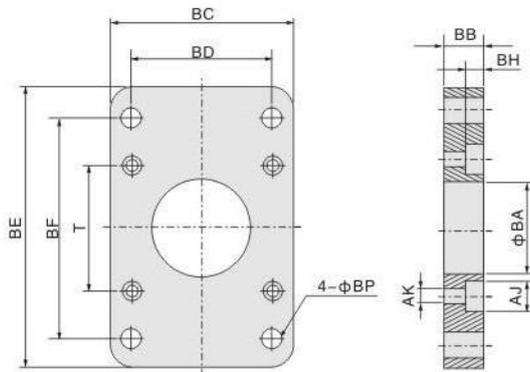


尺寸表 Dimension Sheet

符号 / 缸径 Symbol/Bore	32	40	50	63	80	100	125	160	200
AA	153	169	173	184	200	210	249	328	380
AC	134	140	149	158	168	174	213	288	320
AD	9.5	14.5	12	12	16	18	18	20	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	22
AT	3.2	3.2	3.2	3.2	4	4	8	8	10

FA,FB法兰 / FA,FB

外形尺寸 Overall Dimension

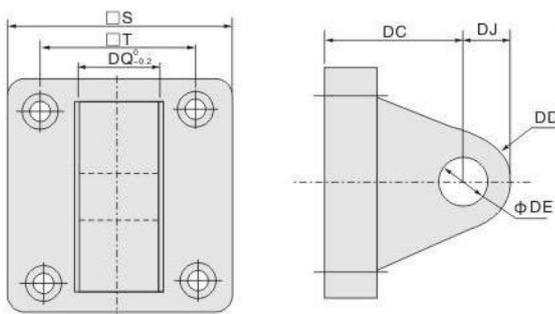


尺寸表 Dimension Sheet

符号 / 缸径 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	20	25	25
BC	47	52	65	76	95	115	140	180	220
BD	33	36	47	56	70	84	90	115	135
BE	72	84	104	116	143	162	224	280	320
BF	58	70	86	98	119	138	180	230	270
BH	6.5	6.5	6.5	8.5	10.5	10.5	15	20	20
AJ	10.5	10.5	13.5	13.5	16.6	16.6	19	25	25
AK	6.5	6.5	8.5	8.5	10.5	10.5	12.5	16.5	16.5
BP	7	7	9	9	12	12	16	18	22
T	33	37	47	56	70	84	110	140	175

CA单耳环 / CA

外形尺寸 Overall Dimension

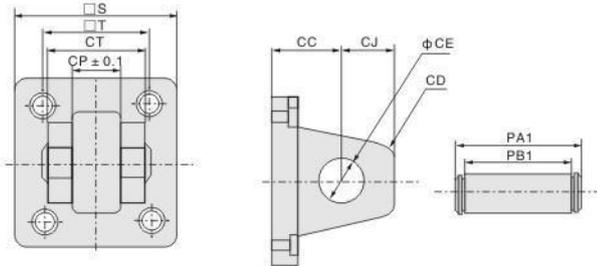


尺寸表 Dimension Sheet

符号 / 缸径 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	170
DC	34	34	34	34	48	48	50	55	60
DD	14	14	15	15	20	20	25	30	30
DE	12	14	14	14	20	20	25	30	30
DJ	14	14	15	15	20	20	25	30	30
DQ	16	20	20	20	32	32	70	90	90

CB双耳环/ CB

外形尺寸 Overall Dimension

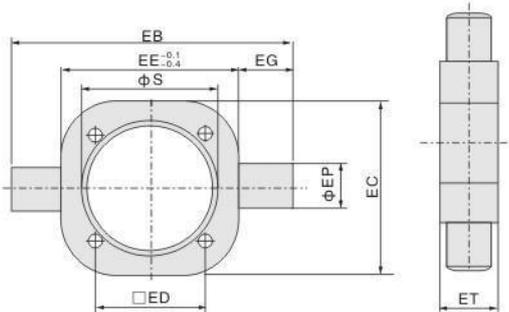


尺寸表 Dimension Sheet

符号 / 缸径 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	3	8	8	25	30	30
CE	12	14	14	14	20	20	25	30	30
CJ	13	13	15	15	21	21	25	30	30
CP	16.3	20.5	20.3	20.3	32.3	32.3	70	90	90
CT	32	44	52	52	64	64	120	160	160
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	112	140	180	220
T	33	37	47	56	70	84	110	140	175

TC中摆 / TC

外形尺寸 Overall Dimension

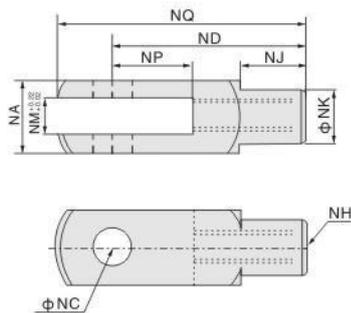
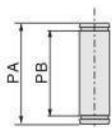


尺寸表 Dimension Sheet

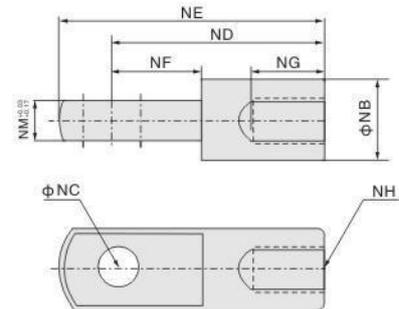
符号 / 缸径 Symbol/Bore	40	50	63	80	100	125	160	200
EB	113	126	138	164	182	210	264	336
EC	63	76	88	114	132	160	200	240
ED	37	47	56	70	84	110	140	175
EE	63	76	88	114	132	160	200	240
EG	25	25	25	25	25	25	32	48
EP	25	25	25	25	25	25	32	38
ET	30	30	30	30	30	30	38	44
S	45.5	55.5	68.5	87.5	107.5	134.5	172.5	212.5

Y,I接头 / Y,I

Y型/Type



I型/Type

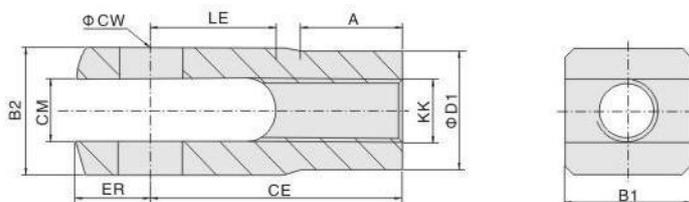


尺寸表 Dimension Sheet

符号 / 缸径 Symbol/Bore	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NM	NP	NQ	PA	PB
32	19	20	10	40	52	15	20	M10×1.25	12	18	10	20	52	26.2	20
40	25.4	24	12	48	67	24	20	M12×1.25	20	23	12	24	62	32.8	26.5
50	32	32	16	64	89	32	23	M16×1.5	22	30	16	32	83	39.3	33
63	32	32	16	64	89	32	23	M16×1.5	22	30	16	32	83	39.3	33
80	44.4	40	20	80	112	40	30	M20×1.5	30	39	20	40	105	53.3	45
100	44.4	40	20	80	112	40	30	M20×1.5	30	39	20	40	105	53.3	45

Y形接头

CK Type Y Knuckle

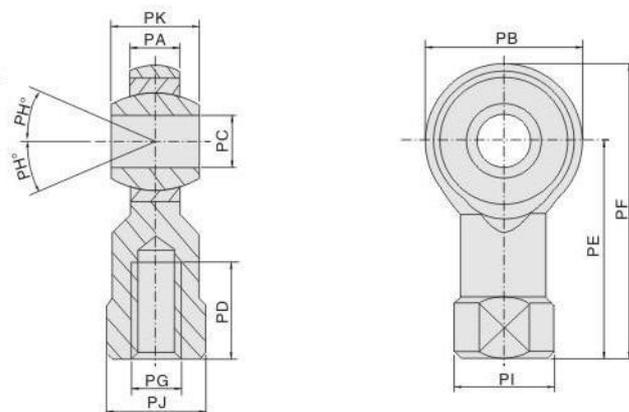


尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	KK	A	B1	B2	CE	CW	CM	D1	ER	LE
20	M6×1	9.5	12	12	24	6	6	10	7	12
25	M8×1.25	13.5	16	16	32	8	8	14	10	16
32	M10×1.25	15.5	19	19	40	10	10	16	12	20
40	M12×1.25	20.5	24	24	48	12	12	20	14	24
50/63	M16×1.5	26	32	32	64	16	16	30	19	32
80/100	M20×1.5	30	40	40	80	20	20	39	25	39.5

PHSA鱼眼接头

PHSA Universal Piston Rod Eye

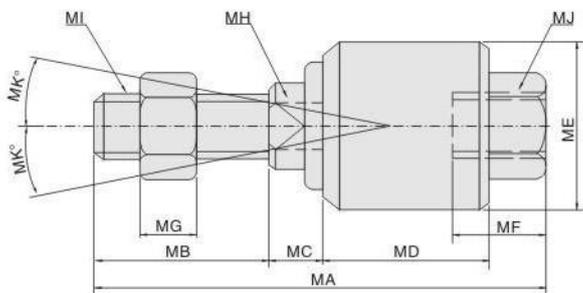


尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK
32	11	26	10	20	43	56	M10×1.25	13	19	17	14
40	12	32	12	24	50	66	M12×1.25	13	22	19	16
50	15	40	16	28	64	84	M16×1.5	15	27	22	21
63	15	40	16	28	64	84	M16×1.5	15	27	22	21
80	18	46	20	35	77	100	M20×1.5	15	34	30	25
100	18	46	20	35	77	100	M20×1.5	15	34	30	25

FDJT浮动接头

FDJT Piston Floating Jiont



尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK
32	58	22	7	21	26	11.5	7	10	M10×1.25	M10×1.25	12
40	58	22	8	21	28	11.5	8	12	M12×1.25	M12×1.25	12
50	90	27	10	41	44.5	20	10	17	M16×1.5	M16×1.5	7
63	90	27	10	41	44.5	20	10	17	M16×1.5	M16×1.5	7
80	102	29	13	46	53	24	13	22	M20×1.5	M20×1.5	10
100	102	29	13	46	53	24	13	22	M20×1.5	M20×1.5	10

MB 系列标准气缸(符合日本标准) MB Series Standard Cylinder(Japanese Standard)



订购码 Ordering Code

MB	-	50	×	50	-	S	-	LB
系列代号 Series Code		缸径 Bore		行程 Stroke		磁石代号 Magnet		固定形式 Mountings
日本标准复动型 MB Standard Double Action Type						空白: 标准型 S: 内置磁环 Blank: Without Magnet S: With Magnet		空白:基本型 Blank: Basic mounting LB:前后固定型 LB:Front & Back Fixed Type FA:前盖固定型(前法兰) FA:Front Cover Fixed Type(Front Flange Type) FB:后盖固定型(后法兰) FB:Back Cover Fixed Type(Back Flange Type) CA:后盖固定型(单耳环) CA:Back Cover Fixed Type(Single Earring) CB:后盖固定型(双耳环) CB:Back Cover Fixed Type(Double Earring)

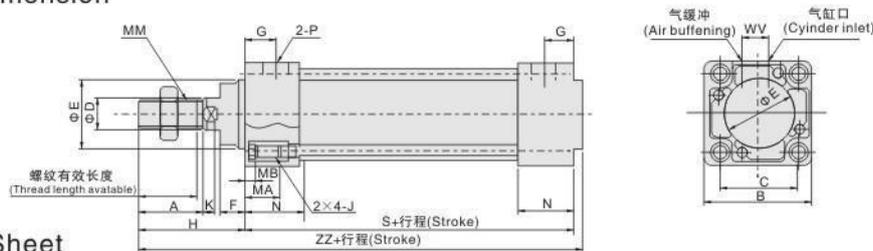
规格 Specification

缸径/Cylinder Diameter	32	40	50	63	80	100
工作介质/Working Medium	空气/Air					
动作型式/Motion Pattern	双动型/Double Acting					
保证耐压/Ensured Pressure Resistance	15.3kgf/cm ² (1.5MPa)					
最高使用压力/Max.Pressure	10.2kgf/cm ² (1.0MPa)					
最低使用压力/Min.Pressure	0.5kgf/cm ² (0.05MPa)					
环境和流体温度/Environment and Fluid Temp	-10~60℃					
活塞速度/Piston Velocity	50~500mm/s					
缓冲/Buffering	气缓冲/Air Buffering					
行程公差/Stroke Tolerance	~0~250 ^{+1.0} ₀		251~1000 ^{+1.4} ₀		1001~1500 ^{+1.84} ₀	
接管口径/Port Size	G1/8"	G1/4"	G3/8"		G1/2"	

行程 Srple

内径/Bore(mm)	标准行程/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

外形尺寸 Overall Dimension



尺寸表 Dimension Sheet

缸径 Diameter	行程范围 Stroke Range	螺纹有效长度 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 × 1.25	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	16.5	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

SCT 系列多位置气缸

SCT Series Multi-position Cylinder

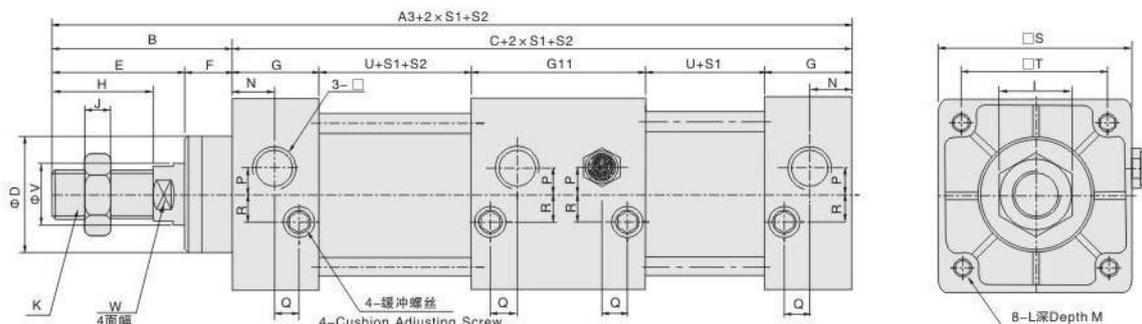


订购码 Ordering Code

SCT	63	×	30	-	30	-	S	-	LB
型号 Series	缸径 Bore		行程 1 Stroke 1		行程 2 Stroke 2		磁石代号 Magnet		固定形式 Mountings
SCT: 多位置气缸	32 40						S: 附磁石		空白: 基本型 Blank: Basic mounting
SCT: Muti-position cylinder	50 63						空白: 不附磁石		LB: 前后固定型 LB: Front & Back Fixed Type
*第二行程为0时,即为双倍力缸。	80 100						S: With magnet		FA: 前盖固定型 FA: Front Cover Fixed Type
*It is booster cylinder while second stroke is 0.	125						Blank: Without magnet		FB: 后盖固定型 FB: Back Cover Fixed Type
									CA: 后盖单耳固定型 CA: Back Cover Fixed Type(Single Earring)
									CB: 后盖双耳固定型 CB: Back Cover Fixed Type(Double Earring)

外形尺寸 Overall Dimension

SCT



尺寸表 Dimension Sheet

内径符号 Bore/ Symbol	A3	B	C	D	E	F	G	G1	H	I	J	K
32	233	47	186	28	32	15	27.5	55	22	17	6	M10×1.25
40	235	49	186	32	34	15	27.5	55	24	17	7	M12×1.25
50	243	57	186	38	42	15	27.5	55	32	23	8	M16×1.5
63	249	57	192	38	42	15	27.5	55	32	23	8	M16×1.5
80	296	75	221	47	54	21	33	73	40	26	10	M20×1.5
100	308	75	233	47	54	21	33	73	40	26	10	M20×1.5
125	350	104	122	55	70	34	33	66	54	40	10	M27×2

内径符号 Bore/ Symbol	L	M	N	O	P	Q	R	S	T	V	U	W
32	M6×1	9.5	13.7	G1/8	3.5	7.5	7	45	33	12	38	10
40	M6×1	9.5	13.5	G1/4	6	8.2	9	50	37	16	38	14
50	M6×1	9.5	13.5	G1/4	8.5	8.2	9	62	47	20	38	17
63	M8×1.25	9.5	13.5	G3/8	7	8.2	8.5	75	56	20	41	17
80	M10×1.5	11.5	16.5	G3/8	10	9.5	14	94	70	25	41	22
100	M10×1.5	11.5	16.5	G1/2	10	9.5	14	112	84	25	47	22
125	M12×1.75	15.5	16.5	G1/2	10	10	11	140	110	32	57	27

DSN 系列不锈钢迷你缸(符合ISO6432标准) DSN Series Stainless Steel Mini Cylinder (ISO6432 Standard)



订购码 Ordering Code

DSN	U	20	×	50	—	25	—	LB
系列 Series	系列代码 Series Code	缸径 Bore		行程 Stroke		可调行程 Adjustable Stroke		固定形式 Mountings
DSN: 复动型	空白: 摆尾型	16						空白: 基本型
DSND: 双轴复动型	CM: 圆尾型	20						LB: 前后固定型
DSNJ: 双轴可调型	U: 平尾型	25						FA: 前盖固定型
DSN: Double acting	Blank: Standard with eye mounting	32						FB: 后盖固定型
DSND: Double-shaft, double acting	CM: Round rear cover	40						SDB: 后盖摇摆式
DSNJ: Double-shaft with adjustable stroke	U: Flat rear cover							Blank: Basic mountings
								LB: Front and back mounting
								FA: Front mounting flange
								FB: Rear mounting flange
								SDB: Back cover fixed type

规格 Specification

内径 Bore (mm)	12	16	20	25	32	40
动作型式 Operation	复动型 Double Action Type					
工作介质 Working Medium	空气 Air					
固定型式 Mountings	基本型/BasicType, FA型/Type, FB型/Type, SDB/Type					
使用压力范围 Operating Pressure Range	1~9.0MPa					
保证耐压力 Proof Pressure	13.5MPa					
使用温度范围℃ Operating Temperature Range	0~70℃					
使用速度范围 Operating Speed Range	50~800 mm/s					
缓冲型式 Cushion	缓冲垫片 Gasket Cushioning		可调缓冲 Adjust Buffer			
接管口径 Port Size	M5×0.8			G1/8"		

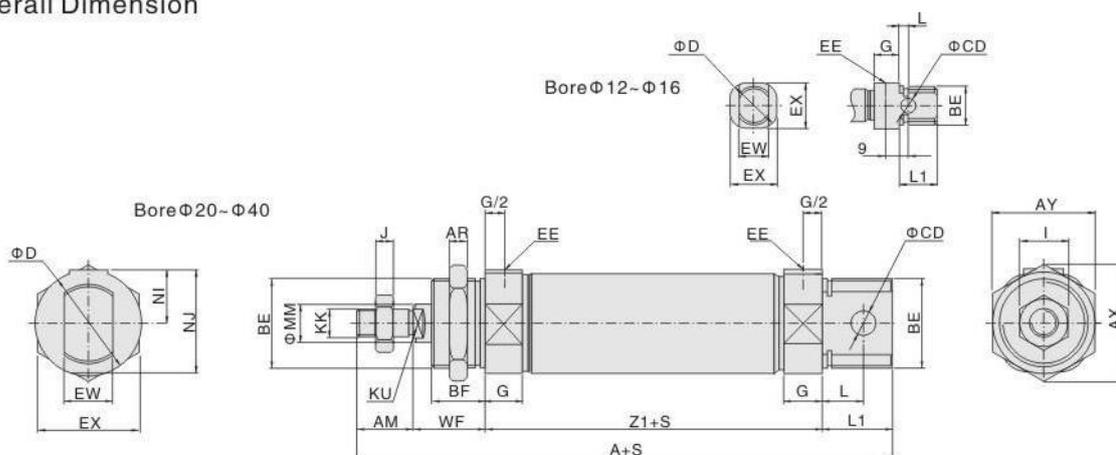
行程 Stroke

内径 Bore (mm)	标准行程 / Standard Stroke														最大行程 Max.Stroke	容许行程 Permissible Stroke		
12	25	50	75	80	100	125	150	160	175	200					300	500		
16	25	50	75	80	100	125	150	160	175	200					300	500		
20	25	50	75	80	100	125	150	160	175	200	250	300			500	650		
25	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650

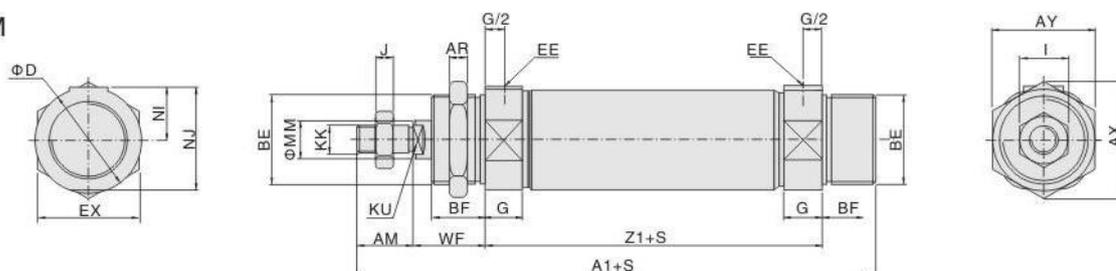


外形尺寸 Overall Dimension

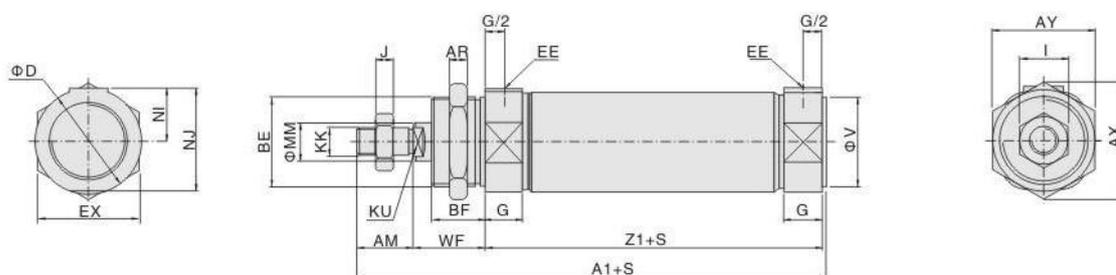
DSN



DSN-CM



DSN-U



● 尺寸表 Dimension Sheet

符号 / 缸径 Symbol/Bore	A	A1	A2	AM	BE	BF	CD	D	EE	EX	EW	G	KK
12	103	103	87	16	M16×1.5	16	6	21	M5	19	12	10	M6×1.0
16	112	112	96	16	M16×1.5	16	6	21	M5	19	12	10	M6×1.0
20	125	121	105	20	M22×1.5	18	8	30	G1/8	27	16	15	M8×1.25
25	136	134	116	22	M22×1.5	20	8	30	G1/8	27	16	16	M10×1.25
32	150	143	125	23	M27×2.0	20	10	38	G1/8	35	20	16	M10×1.25
40	150	143	125	23	M33×2.0	20	10	45	G1/8	42	20	16	M14×1.5

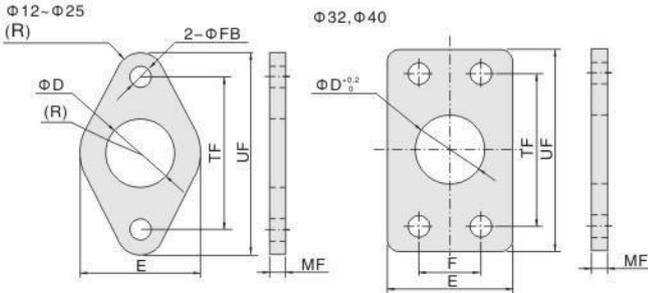
符号 / 缸径 Symbol/Bore	KU	V	L	L1	MM	NI	NJ	WF	Z1	X	J	AR	I	AX	AY
12	5	-	4	16	6	-	-	22	49	-	5	6	10	24	27.5
16	5	-	9	16	6	-	-	22	58	-	5	6	10	24	27.5
20	7	22	12	22	8	15	28.5	24	59	2	6	7	12	33	29
25	9	22	12	22	10	15	28.5	28	64	2	6	7	17	33	29
32	10	27	15	27	12	19	36.5	28	72	2	6	12	17	41	36
40	14	33	15	27	16	22.5	43.5	28	72	2	8	11.5	22	51	45

DSN系列标准气缸附件

DSN Series Standard Cylinder

FA、FB

外形尺寸 Overall Dimension

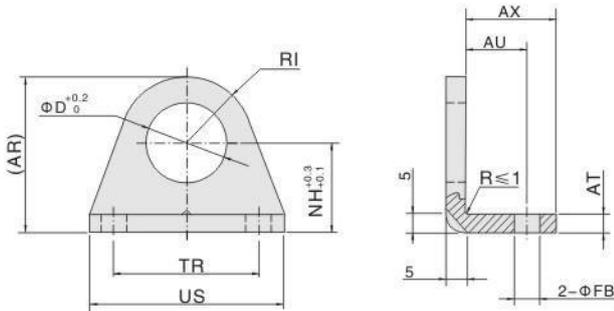


● 尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	12	16	20	25	32	40
E	30	30	40	40	45	50
FB	6	6	7	7	7	9
MF	4	4	5	5	5	5
F	/	/	/	/	20	30
TF	40	40	50	50	60	80
UF	53	53	66	66	80	100
D	16.3	16.3	22.3	22.3	27.3	33.3

LB脚架/LB

外形尺寸 Overall Dimension

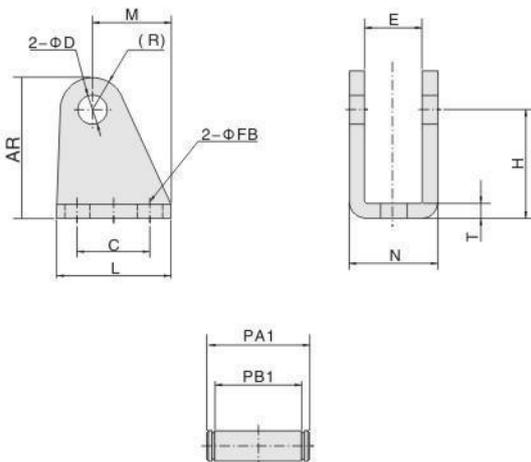


● 尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	12	16	20	25	32	40
AT	4	4	5	5	5	5
AU	14	14	17	17	15	20
AX	20	20	25	25	25	30
FB	6	6	7	7	7	9
NH	20	20	25	25	35	40
TR	32	32	40	40	40	50
US	42	42	54	54	55	75
D	16.3	16.3	22.3	22.3	27.3	33.3
AR	32.5	32.5	42	42	56	64
RI	R12.5	R12.5	R17	R17	R21	R24

SDB后盖摇摆架/SDB

外形尺寸 Overall Dimension



● 尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	12	16	20	25	32	40
C	15	15	20	20	25	25
FB	6	6	7	7	9	9
H	27	27	30	30	40	40
L	25	25	32	32	40	40
M	18	18	22	22	27.5	27.5
N	18	18	24	24	28	28
E	12	12	16	16	20	20
T	3	3	4	4	4	4
D	6	6	8	8	10	10
AR	34	34	39	39	52	52
PA1	23	23	30	30	34	34
PB1	18	18	24	24	28	28

MI/MSI/MTI 系列ISO6432不锈钢迷你缸

MI/MSI/MTI Series ISO6432 Stainless Steel Mini Cylinder



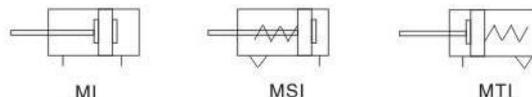
MI16×25

MI20×25

● 订购码 Ordering Code

MI	10 × 50	S	CA	LB	MT	
型号 Series Code	缸径 Bore	行程 Stroke	磁石代号 Magnet	后盖型式 Back Cover	固定型式 Fixed Type	感应器类型 Sensor
MI: 迷你气缸(复动型)			S: 附磁石	空白: 基本型	空白: 基本型	XG-03型/Type
MSI: 迷你气缸(单动伸出型)			空白: 不附磁石	CA: 摆尾型	FA: 前盖固定型	感应器固定带
MTI: 迷你气缸(单动引入型)			S: With magnet	U: 径向进气型	LB: 前后固定型	Sensor fastening
MI: Mini Cylinder(Double Action)			Blank: Without magnet	Blank: Basic Type	SDB: 后盖摇摆式	
MSI: Mini Cylinder(Sigle Action Extrusion type)				CA: Swinging Type	Blank: Basic Type	
MTI: Mini Cylinder(Single Action Drawing-in Type)				U: Radial air inlet Type	LB: Front And Back Fixed Type	
					FA: Front Cover Fixed Type	
					SDB: Back Cover Swinging Type	

图形符号 Symbol



规格 Specification

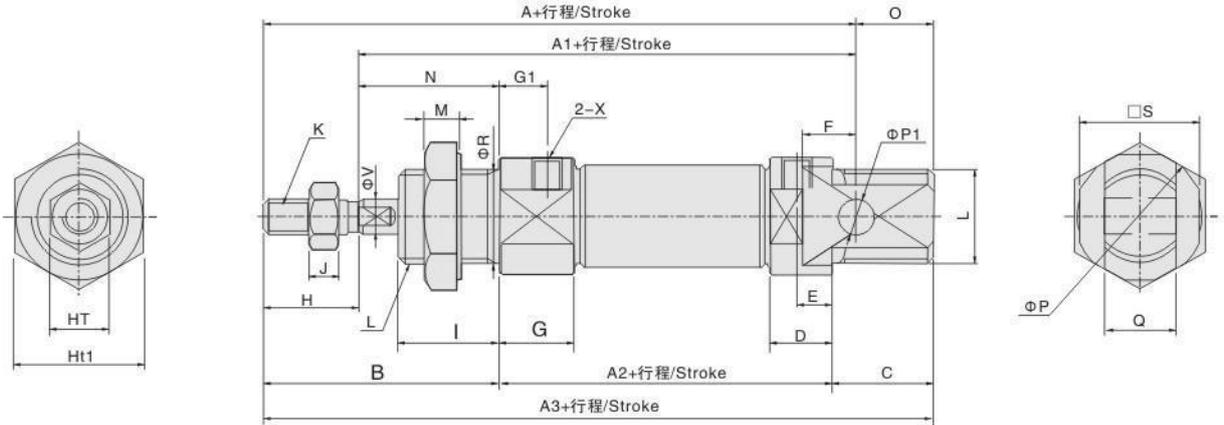
内径 Bore(mm)	8	10	12	16	20	25
动作形式 Motion Pattern	复动型、单动伸出型、单动引入型/Double Action or Single Action Extrusion type or Single Action Drawing-in Type					
工作介质 Working Medium	空气/Air					
使用压力范围 Operating Voltage Range	复动型 Double Action	0.05~0.7 MPa				
	单动型 Single Action	0.2~0.7 MPa				
保证耐压力 Ensured Pressure Resistance	1.5 MPa					
使用温度范围 Operating Temperature Range	-5~80℃					
使用速度范围 Operating Speed Range	50~750 mm/s					
缓冲型式 Buffer Type	防撞垫/Buffer Spacer					
接管口径 Port Size	M5 x0.8				PT1/8	

行程 Stroke

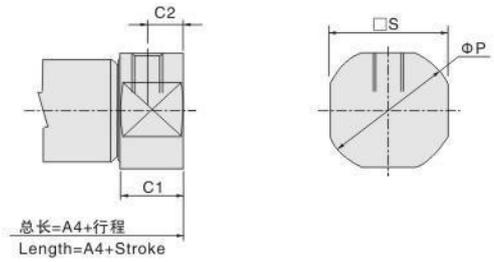
内径 Bore(mm)	标准行程/Standard Stroke																						
复动型 Double Action	8	10	15	20	25	30	40	50	60	75	80	100	125	150									
	10	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200						
	12	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250					
	16	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300				
	20	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500
	25	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450	500
单动型 Single Action	8~10	10	15	20	25	30	40	50															
	12~25	10	15	20	25	30	40	50	60	75													

外形尺寸 Overall Dimension

MI 系列/Series
CA Type



U 型/ Type



尺寸表 Dimension Sheet

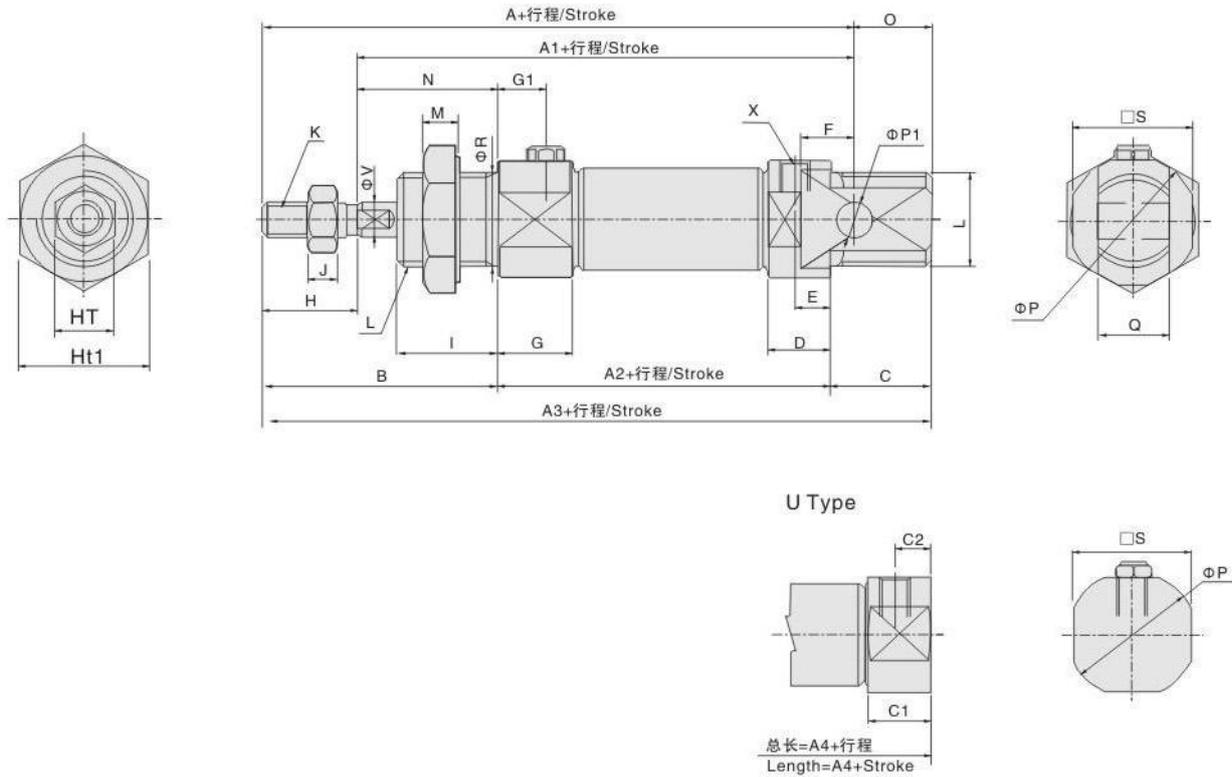
缸径/符号 Bore/Symbol	A	A1	A2	A3	A4	B	C	C1	C2	D	E	F	G	G1	H	I	J
8	76	64	46	86	74	28	12	9.5	5	9.5	5	5.3	11.5	7	12	12	2.5
10	76	64	46	86	73.5	28	12	9.5	5	10	5.5	5.3	10	5.5	12	12	2.5
12	91	75	50	105	88	38	17	10.5	6	10.5	6	9	12.5	8	16	17	5
16	98	82	56	111	94	38	17	10.5	6	10.5	6	9	12.5	8	16	17	5
20	115	95	62	126	106	44	20	15	8	15	9	12	15	8	20	20	6
25	126	104	65	137	115	50	22	15	8	15	8	12	15	8	22	22	6

缸径/符号 Bore/Symbol	K	L	M	N	O	P	P1	Q	R	S	T	T1	X	V
8	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
10	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
12	M6×1.0	M16×1.5	6	22	14	20	6	12	16	18	10	22	M5×0.8	6
16	M6×1.0	M16×1.5	6	22	13	22	6	12	16	20	10	22	M5×0.8	6
20	M8×1.25	M22×1.5	7	24	11	29	8	16	22	26	12	29	PT1/8	8
25	M10×1.25	M22×1.5	7	28	11	33.5	8	16	22	30	17	29	PT1/8	10

外形尺寸 Overall Dimension

MSI 系列/Series

CA Type



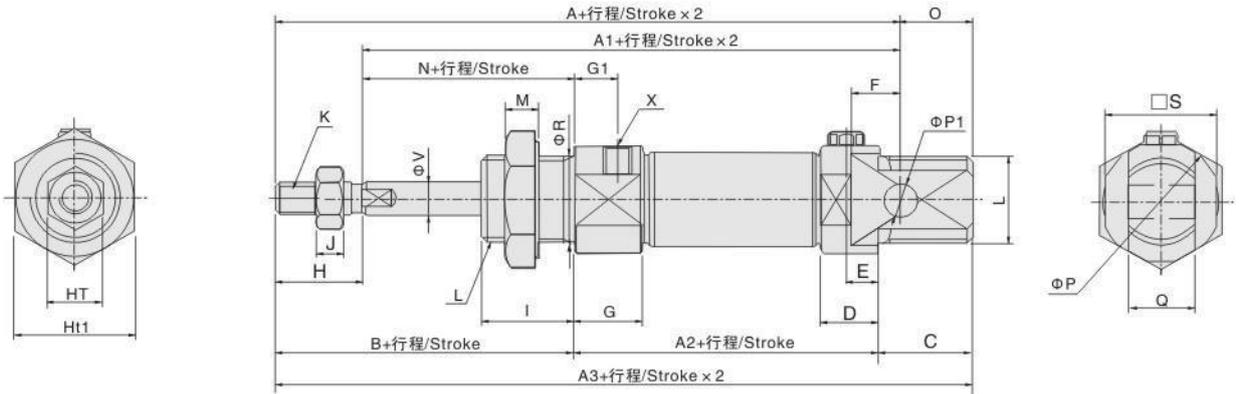
尺寸表 Dimension Sheet

缸径/符号 Bore/Symbol	A		A1		A2		A3		A4		B	C	C1	C2	D	E	F	G	C1
	S≤50	S>50																	
8	76	-	64	-	46	-	86	-	174	-	28	12	9.5	5	9.5	5	5.3	11.5	7
10	76	-	64	-	46	-	86	-	73.5	-	28	12	9.5	5	10	5.5	5.3	10	5.5
12	91	116	75	100	50	75	105	130	88	113	38	17	10.5	6	10.5	6	9	12.5	8
16	98	123	82	107	56	81	111	136	94	119	38	17	10.5	6	10.5	6	9	12.5	8
20	115	140	95	120	62	87	126	151	106	131	44	20	15	8	15	8	12	15	8
25	126	151	104	129	65	90	137	162	115	140	50	22	15	8	15	8	12	15	8

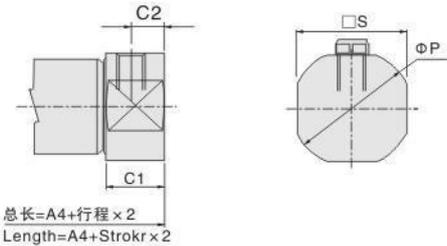
缸径/符号 Bore/Symbol	H	I	J	K	L	M	N	O	P	P1	Q	R	S	T	T1	X	V
8	12	12	2.5	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
10	12	12	2.5	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
12	16	17	5	M6×1.0	M16×1.5	6	22	14	20	6	12	16	18	10	22	M5×0.8	6
16	16	17	5	M6×1.0	M16×1.5	6	22	13	22	6	12	16	20	10	22	M5×0.8	6
20	20	20	6	M8×1.25	M22×1.5	7	24	11	29	8	16	22	26	12	29	PT1/8	8
25	22	22	6	M10×1.25	M22×1.5	7	28	11	33.5	8	16	22	30	17	29	PT1/8	10

外形尺寸 Overall Dimension

MTI 系列/Series
CA Type



U Type



● 尺寸表 Dimension Sheet

缸径/符号 Bore/Symbol	A			A1			A2			A3			A4			B	C	C1	C2	D	E	F
	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75							
8	93	103	-	81	91	-	63	73	-	103	113	-	91	101	-	28	12	9.5	5	9.5	5	5.3
10	93	103	-	81	91	-	63	73	-	103	113	-	90.5	100.5	-	28	12	9.5	5	10	5.5	5.3
12	108	118	133	92	102	117	67	77	92	122	132	147	105	115	130	38	17	10.5	6	10.5	6	9
16	115	125	140	99	109	124	73	83	98	128	138	153	111	121	136	38	17	10.5	6	10.5	6	9
20	132	142	157	112	122	137	79	89	104	143	153	168	123	133	148	44	20	15	8	15	8	12
25	142	152	168	120	130	146	81	91	107	153	163	179	132	142	157	50	22	15	8	15	8	12

缸径/符号 Bore/Symbol	G	C1	H	I	J	K	L	M	N	O	P	P1	Q	R	S	T	T1	X	V
8	11.5	7	12	12	2.5	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
10	10	5.5	12	12	2.5	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
12	12.5	8	16	17	5	M6×1.0	M16×1.5	6	22	14	20	6	12	16	18	10	22	M5×0.8	6
16	12.5	8	16	17	5	M6×1.0	M16×1.5	6	22	13	22	6	12	16	20	10	22	M5×0.8	6
20	15	8	20	20	6	M8×1.25	M22×1.5	7	24	11	29	8	16	22	25	12	29	PT1/8	8
25	15	8	22	22	6	M10×1.25	M22×1.5	7	28	11	33.5	8	16	22	30	17	29	PT1/8	10

MA系列不锈钢迷你缸

MA Stainless Steel Mini Cylinder



MA20 X 50



MA20 X 100



MA25 X 100

订购码 Ordering Code

MA	□	25	×	50	—	25	—	S	—	LB
系列 Series	系列代码 Series Code	缸径 Bore		行程 Stroke		可调行程 Adjustable Stroke		磁石代号 Magnet		固定形式 Mountings
MA: 复动型	空白: 摆尾型	16						S: 附磁石		空白: 基本型
MSA: 单动伸出型	U: 平尾型	20						空白: 不附磁石		LB: 前后固定型
MTA: 单动引入型	CM: 圆尾型	25						S: With magnet		FA: 前盖固定型
MAD: 双轴复动型	Blank: Swivelling tail	32						Blank: Without magnet		FB: 后盖固定型
MAJ: 双轴可调型	U: Radial air inlet type	40								SDB: 后盖摇摆式
MA: Double acting	CM: Round rear cover									Blank: Basic mountings
MSA: Single acting, sprung-out										LB: Front and back mounting
MTA: Single acting, sprung-in										FA: Front mounting flange
MAD: Double-shaft, double acting										FB: Rear mounting flange
MAJ: Double-shaft with adjustable stroke										SDB: Back cover fixed type

规格 Specification

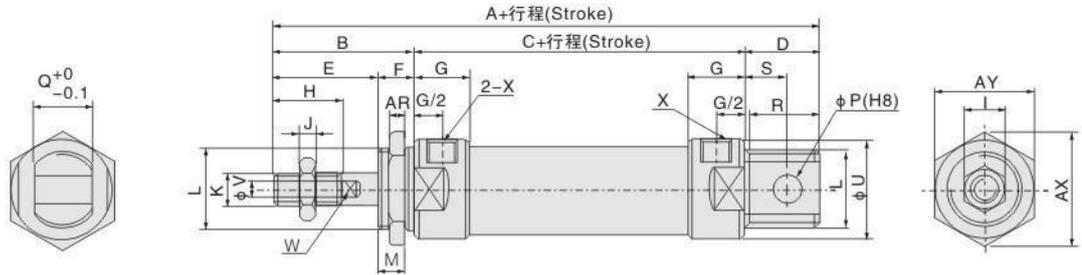
内径 Bore (mm)	16	20	25	32	40
动作型式 Operation	复动型 Double Action Type				
工作介质 Working Medium	空气 Air				
固定型式 Mountings	基本型/BasicType, FA型/Type, FB型/Type, SDB型/Type				
使用压力范围 Operating Pressure Range	1~9.0MPa				
保证耐压力 Proof Pressure	13.5MPa				
使用温度范围℃ Operating Temperature Range	0~70℃				
使用速度范围 Operating Speed Range	50~800 mm/s				
缓冲型式 Cushion	缓冲垫片 Gasket Cushioning				
接管口径 Port Size	M5×0.8		G1/8"		

行程 Stroke

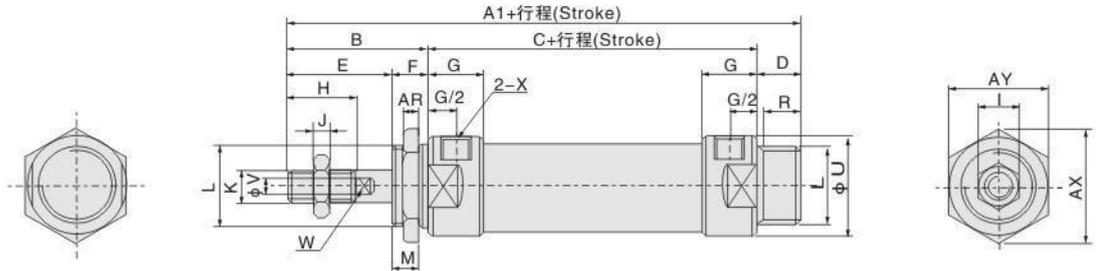
内径 Bore (mm)	标准行程 / Standard Stroke												最大行程 Max.Stroke	容许行程 Permissible Stroke				
16	25	50	75	80	100	125	150	160	175	200	300	500						
20	25	50	75	80	100	125	150	160	175	200	250	300	500	650				
25	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650

外形尺寸 Overall Dimension

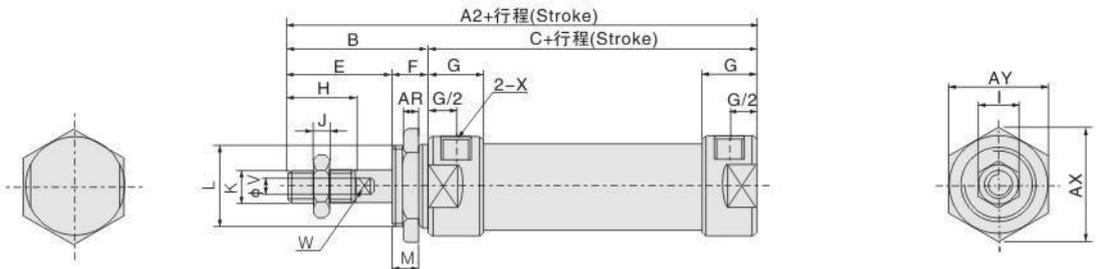
MA-CA



MA-CM



MA-U



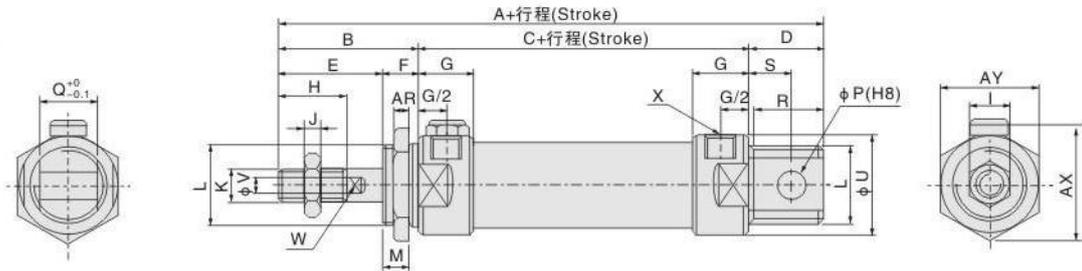
尺寸表 Dimension Sheet

内径/符号 Bore/symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	114	114	98	38	60	15	15	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

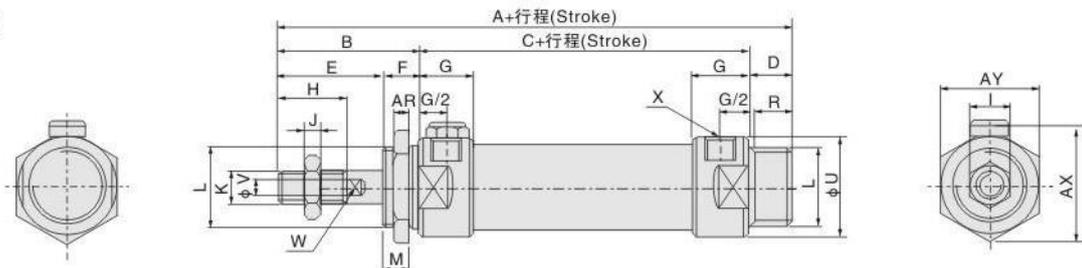
内径/符号 Bore/symbol	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16×1.5	14	6	12	14	14	9	21	6	5	M5	6	24	27.5
20	M22×1.5	10	8	16	19	12	12	27	8	6	G1/8"	7	33	29
25	M22×1.5	12	8	16	19	14	12	30	10	8	G1/8"	7	33	29
32	M24×2.0	12	10	16	25	14	15	35	12	10	G1/8"	8	37	32
40	M30×2.0	12	12	20	25	14	15	41.6	16	14	G1/8"	9	47	41

外形尺寸 Overall Dimension

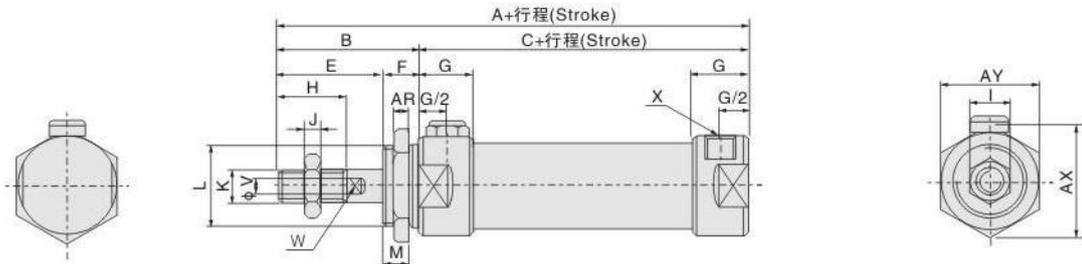
MSA-CA



MSA-CM



MSA-U



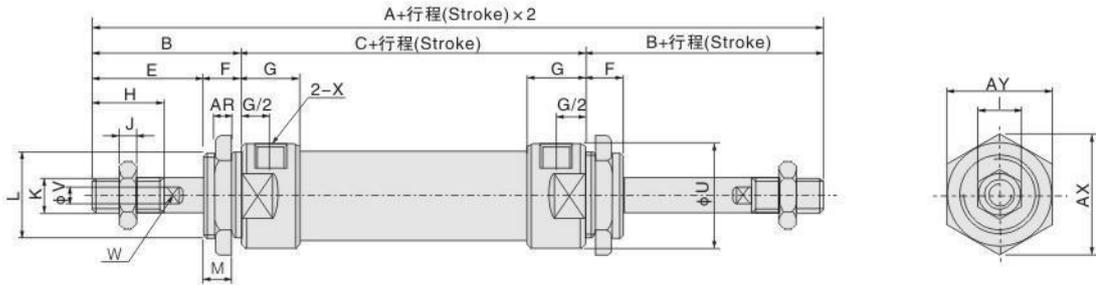
尺寸表 Dimension Sheet

符号 Symbol	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
	内径Bore/行程stroke	0-50	51-100	0-50	51-100	0-50		51-100	0-50								
20	137	162	128	153	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	134	159	120	145	44	76	101	27	14	30	14	16	22	17	6
40	149	174	136	161	122	147	46	76	101	27	14	32	14	22	24	17	7

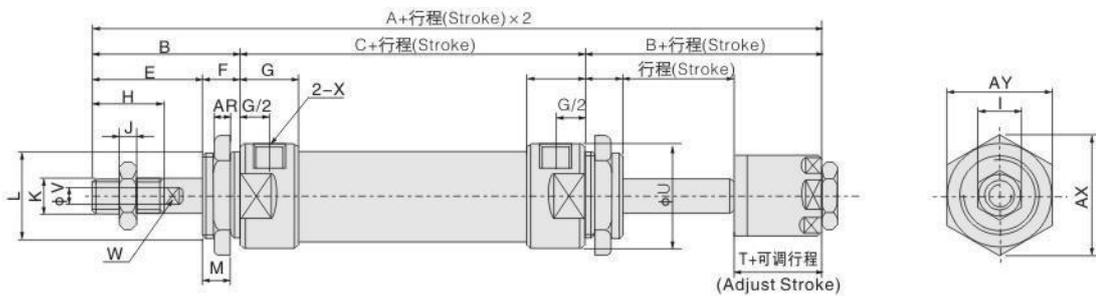
内径/符号 Bore/symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8×1.25	M22×1.5	10	8	16	19	12	12	27	8	6	G1/8"	7	33	29
25	M10×1.25	M22×1.5	12	8	16	19	14	12	30	10	8	G1/8"	7	33	29
32	M10×1.25	M24×2.0	12	10	16	25	14	15	35	12	10	G1/8"	8	37	32
40	M12×1.25	M30×2.0	12	12	20	25	14	15	41.6	16	14	G1/8"	9	47	41

外形尺寸 Overall Dimension

MAD



MAJ



尺寸表 Dimension Sheet

内径/符号 Bore/symbol	A	A1	B	C	E	F	G	H	I	J	K
20	156	153	40	70	28	12	16	20	12	6	M8 × 1.25
25	164	161	44	70	30	14	16	22	17	6	M10 × 1.25
32	164	161	44	70	30	14	16	22	17	6	M10 × 1.25
40	168	164	46	92	32	14	22	24	17	7	M12 × 1.25

内径/符号 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

MAL系列铝合金迷你缸

MAL Series Aluminum Alloy Mini Cylinder



MAL20 x 50-U

MALD25 x 50

MAL25 x 50

订购码 Ordering Code

MAL	□	20 × 50	25	S	LB	
系列 Series	系列代码 Series Code	缸径 Bore	行程 Stroke	可调行程 Adjustable Stroke	磁石代号 Magnet	固定形式 Mountings
MAL: 复动型	空白: 摆尾型	16			S: 附磁石	空白: 基本型
MSAL: 单动伸出型	U: 平尾型	20			空白: 不附磁石	LB: 前后固定型
MTAL: 单动引入型	CM: 圆尾型	25			S: With magnet	FA: 前盖固定型
MALD: 双轴复动型	Blank: Swivelling tail	32			Blank: Without magnet	FB: 后盖固定型
MALJ: 双轴可调型	U: Radial air inlet type	40				SDB: 后盖摇摆式
MAL: Double acting	CM: Round rear cover					Blank: Basic mountings
MSAL: Single acting, sprung-out						LB: Front and back mounting
MTAL: Single acting, sprung-in						FA: Front mounting flange
MALD: Double-shaft, double acting						FB: Rear mounting flange
MALJ: Double-shaft with adjustable stroke						SDB: Back cover fixed type

规格 Specification

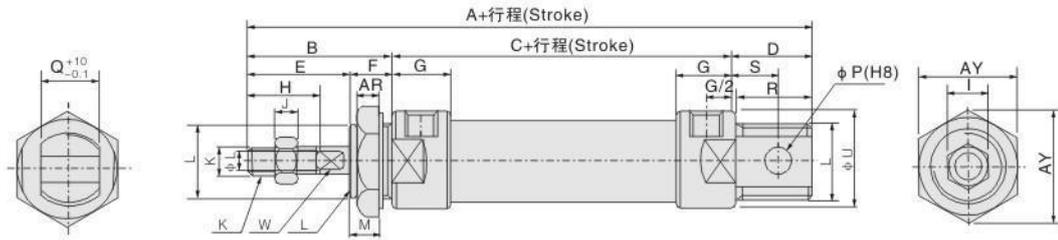
内径 Bore (mm)	16	20	25	32	40
动作型式 Operation	复动型 Double Action Type				
工作介质 Working Medium	空气 Air				
固定型式 Mountings	基本型/BasicType, FA型/Type, FB型/Type, SDB型/Type				
使用压力范围 Operating Pressure Range	1~9.0MPa				
保证耐压力 Proof Pressure	13.5MPa				
使用温度范围℃ Operating Temperature Range	0~70℃				
使用速度范围 Operating Speed Range	50~800 mm/s				
缓冲型式 Cushion	缓冲垫片Gasket Cushioning				
接管口径 Port Size	M5 x 0.8	G1/8 "			G1/4 "

行程 Stroke

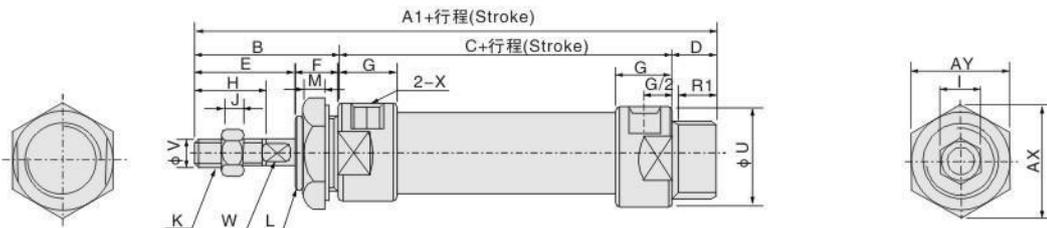
内径 Bore (mm)	标准行程 / Standard Stroke														最大行程 Max.Stroke	容许行程 Permissible Stroke		
16	25	50	75	80	100	125	150	160	175	200					300	500		
20	25	50	75	80	100	125	150	160	175	200	250	300					500	650
25	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650

外形尺寸 Overall Dimension

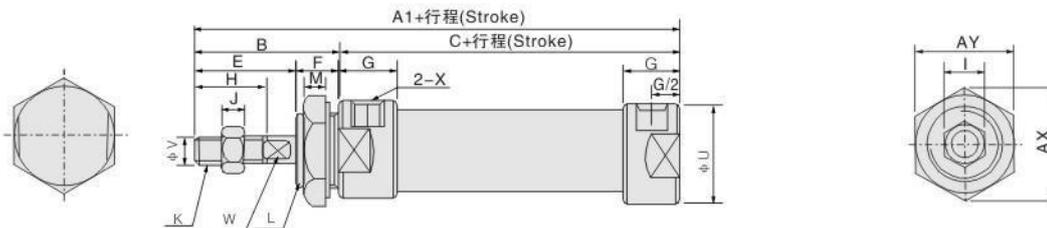
MAL-CA



MAL-CM



MAL-U



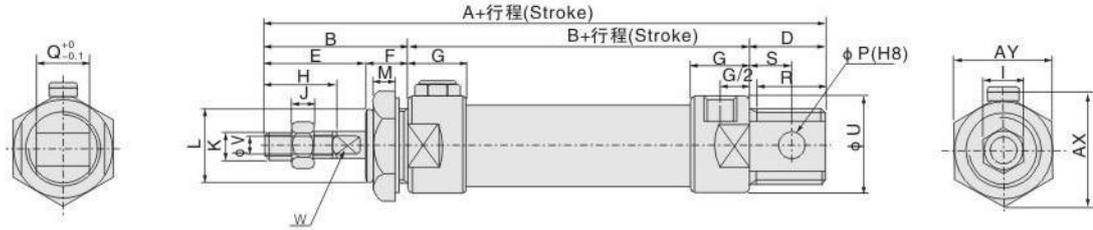
尺寸表 Dimension Sheet

内径/符号 Bore/symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	104	104	90	38	52	15	15	24	14	11	16	10	5	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	125	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

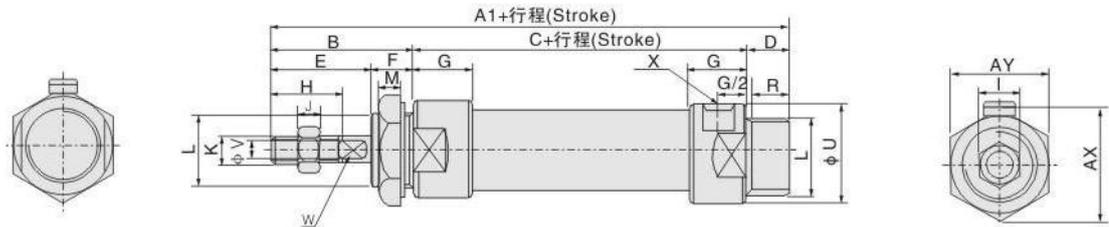
内径/符号 Bore/symbol	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16×1.5	8	6	12	13	13	6	20	6	/	M5	7	24	27.5
20	M22×1.5	10	8	16	19	12	12	29	8	6	G1/8"	7	33	29
25	M22×1.5	12	8	16	19	14	12	34	10	8	G1/8"	7	33	29
32	M24×2.0	12	10	16	25	14	15	39.5	12	10	G1/8"	8	37	32
40	M30×2.0	12	12	20	25	14	15	49.5	16	14	G1/4"	9	47	41

外形尺寸 Overall Dimension

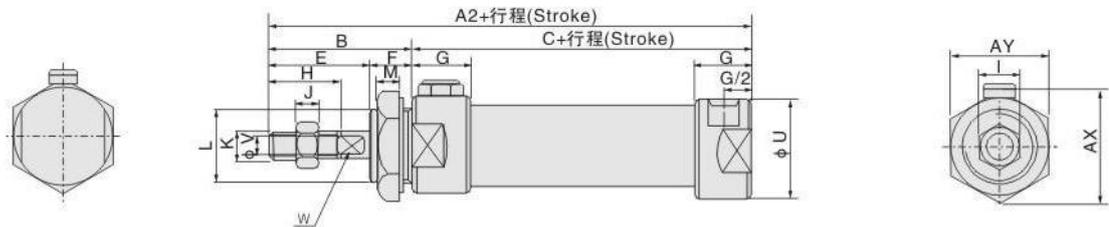
MSAL-CA



MSAL-CM



MSAL-U



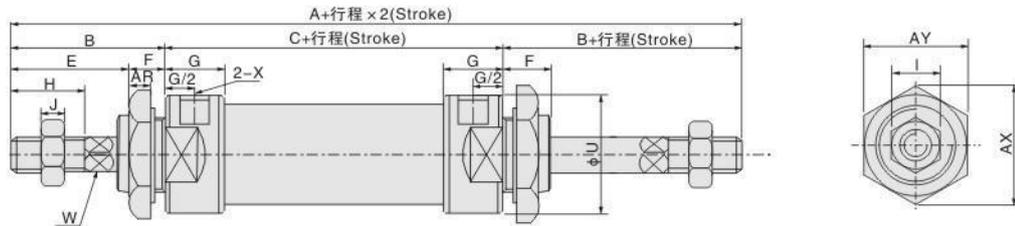
尺寸表 Dimension Sheet

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

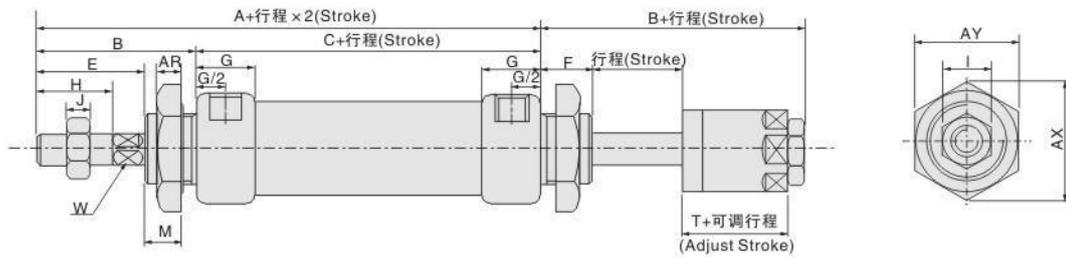
内径/符号 Bore/symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8×1.25	M22×1.5	10	8	16	19	10	12	29	8	6	G1/8"	7	33	29
25	M10×1.25	M22×1.5	12	8	16	19	14	12	34	10	8	G1/8"	7	33	29
32	M10×1.25	M24×2.0	12	10	16	25	14	15	39.5	12	10	G1/8"	8	37	32
40	M12×1.25	M30×2.0	12	12	20	25	14	15	49.5	16	14	G1/4"	9	47	41

外形尺寸 Overall Dimension

MALD



MALJ



尺寸表 Dimension Sheet

内径/符号 Bore/symbol	A	A1	B	C	E	F	G	H	I	J	K
20	131	122	40	70	28	12	16	20	12	6	M8×1.25
25	135	128	44	70	30	14	16	22	17	6	M10×1.25
32	141	128	44	70	30	14	16	22	17	6	M10×1.25
40	165	152	46	92	32	14	22	24	17	7	M12×1.25

内径/符号 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	M24×2.0	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

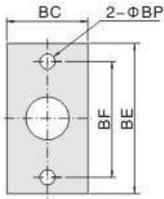
MA、MAL 迷你缸附件

MA, MAL mini cylinder accessories

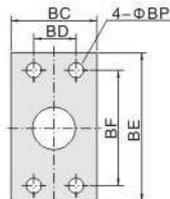
外形尺寸 Overall Dimension

FA

Φ16~25



Φ32~40

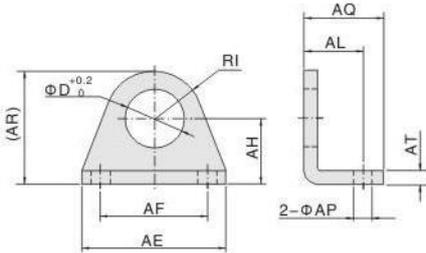


尺寸表 Dimension Sheet

符号/Symbol 内径/行程 Bore/Stroke	BC	BD	BE	BF	BP
16	26	-	52	40	5.5
20	33	-	64	50	6.5
25	33	-	64	50	6.5
32	47	33	72	58	6.5
40	50	36	84	70	6.5

外形尺寸 Overall Dimension

LB

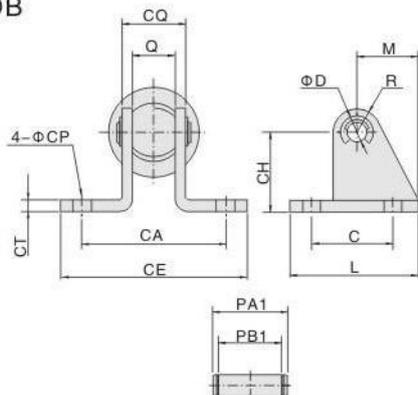


尺寸表 Dimension Sheet

内径/符号 Bore/Symbol	AT	AL	AQ	AP	AH	AF	AE	D	AR	RI
16	3	14	20	5.5	19.5	32	44	16	33.5	R14
20	3	16	24	6.5	24.5	40	54	22	41.5	R17
25	3	16	24	6.5	24.5	40	54	22	41.5	R17
32	3	26	34	6.5	31.5	45	59	24	50.5	R19
40	3	27	35	6.5	34	50	64	30	57	R23

外形尺寸 Overall Dimension

SDB



尺寸表 Dimension Sheet

内径/符号 Bore/Symbol	Q	CQ	CP	CT	CA	CE	M	D	CH	C	L	R	PA1	PB2
16	12	18	6	3	43	55	18	6	25	24	36	8	28	19
20	16	22	7	3	51	66	24	8	31	32	48	8	31.5	22.5
25	16	22	7	3	51	66	24	8	31	32	48	8	31.5	22.5
32	16	22	6.5	3	47	63	26	10	36	36	52	12	31.5	22.5
40	20	26	6.5	3	53	69	26	12	39	40	56	12	37.5	23.5

SDA系列薄型气缸 SDA Series Thin Type Cylinder



SDA25 x 25



SDA40 x 50

订购码 Ordering Code

SDA	20	30	25	S	B
系列 Series	缸径 Bore	行程 Stroke	可调行程 Adjustable Stroke	磁石代号 Magnet	牙螺型式 Cog Type
SDA: 复动型	12	5mm-150mm		S: 附磁石	空白: 基本型(内螺纹)
SSA: 单动伸出型	16			空白: 不附磁石	B: 外螺纹
STA: 单动引入型	20			S: With magnet	N: 无螺纹
SDAD: 双轴型	25			Blank: Without magnet	Blank: Female thread
SDAJ: 行程可调型	32				B: Male thread
SDA: Double Action	40				N: No thread
SSA: Single Action Extrusion Type	50				
STA: Single Action Drawing-in Type	63				
SOAJ: Adjustable Stroke Type	80				
	100				

规格 Specification

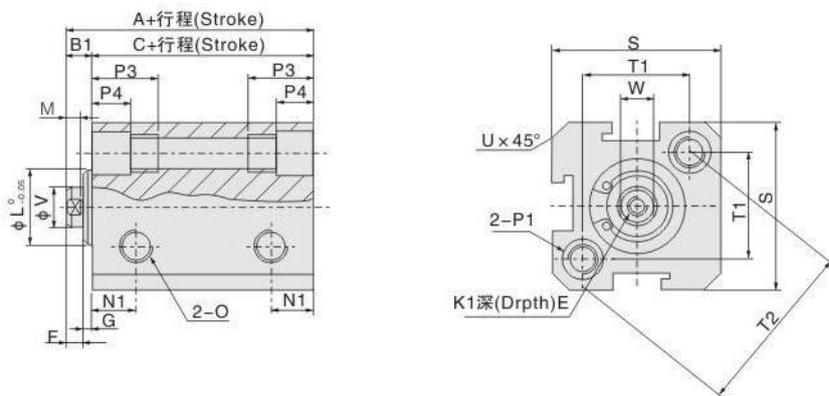
缸径规格 Bore Specification	12	16	20	25	32	40	50	63	80	100
动作型式 Motion Pattern	单动伸出型, 单动引入型 Single Action Extrusion Type, Single Action Drawing-in Type						-			
	复动型 / Double Action									
工作介质 Working Medium	空气 / Air									
使用压力 Working-pressure	复动型 / Double Action: 10-9.0 Kg/cm ² 单动型/Single Action: 2.0 ~ 9.0 Kg/cm ²									
保证耐压力 Ensured Pressure Resistance	10.5 Kg/cm ²									
使用温度范围 Operating Temperature Range	0-70°C									
使用速度范围 Operating Speed Range	复动型 / Double Action: 30 ~ 500 mm/s						30-350 mm/s		30 ~ 250 mm/s	
	单动型/Single Action: 100-500 mm/s						-			
接管口径 Joint Pipe Bore	M5 x 0.8				G1/8"		G1/4"		G3/8"	

行程 Stroke

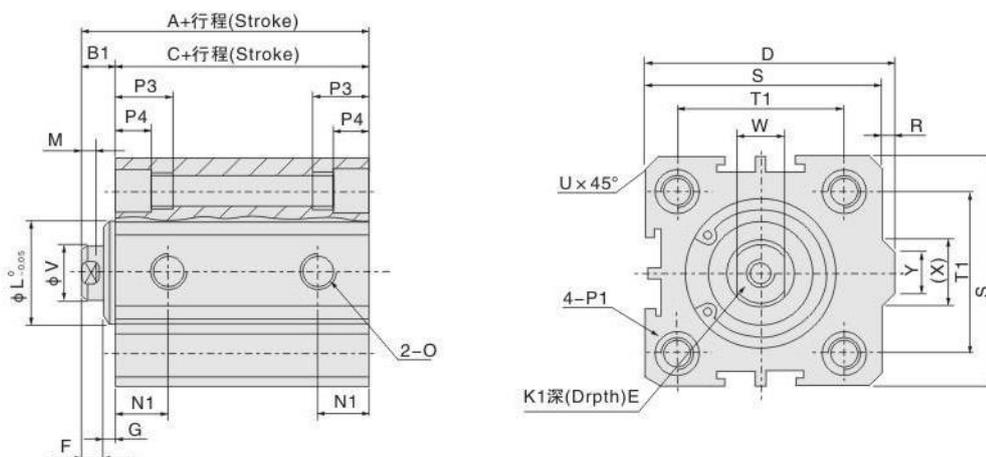
内径 Bore (mm)	12	16	20	25	32	40	63	80
复动型 Double Action	不附磁 Not attach magnet	5-60mm 每5mm一级 Every 5mm is grouped as one grade	5-85mm 每5mm一级 Every 5mm is grouped as one grade	5-90mm 每5mm一级 Every 5mm is grouped as one grade	100-110mm 每10mm一级 Every 10mm is grouped as one grade	5-90mm 每5mm一级 Every 5mm is grouped as one grade	100-130mm 每10mm一级 Every 10mm is grouped as one grade	
	附磁型 Attach magnet	5-50mm 每5mm一级 Every 5mm is grouped as one grade	5-75mm 每5mm一级 Every 5mm is grouped as one grade	5-90mm 每5mm一级 Every 5mm is grouped as one grade	100mm	5-90mm 每5mm一级 Every 5mm is grouped as one grade	100-120mm 每10mm一级 Every 5mm is grouped as one grade	
单动型 Single Action	不附磁 Not attach magnet	5-30mm 每5mm一级 Every 5mm is grouped as one grade	5-30mm 每5mm一级 Every 5mm is grouped as one grade	5-30mm 每5mm一级 Every 5mm is grouped as one grade		5-30mm 每5mm一级 Every 5mm is grouped as one grade		
	附磁型 Attach magnet	5-30mm 每5mm一级 Every 5mm is grouped as one grade	5-30mm 每5mm一级 Every 5mm is grouped as one grade	5-30mm 每5mm一级 Every 5mm is grouped as one grade				
最大行程/Max. Stroke	60mm		100mm		120mm			

外形尺寸 Overall Dimension

SDA12-16



SDA20-100



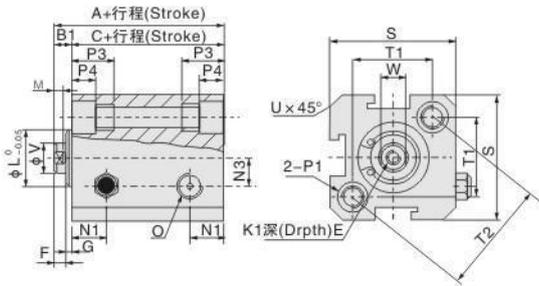
尺寸表 Dimension Sheet

型式Type 内径/符号 Bore /Symbol	标准型Standard type			附磁型With magnet			D	E	F	G	K1	L	M	N1	N3	O
	A	B1	C	A	B1	C										
12	22	5	17	32	5	27	-	6	4	1	M3×0.5	10.2	2.8	6.3	6	M5×0.8
16	24	5.5	18.5	34	5.5	28.5	-	6	4	1.5	M3×0.5	11	2.8	7.3	6.5	M5×0.8
20	25	5.5	19.5	35	5.5	29.5	36	8	4	1.5	M4×0.7	16	2.8	7.5	-	M5×0.8
25	27	6	21	37	6	31	42	10	4	2	M5×0.8	17	2.8	8	-	M5×0.8
32	31.5	7	24.5	41.5	7	34.5	50	12	4	3	M6×1	22	2.8	9	-	G1/8
40	33	7	26	43	7	36	58.5	12	4	3	M8×1.25	28	2.8	10	-	G1/8
50	37	9	28	47	9	38	71.5	15	5	4	M10×1.5	38	2.8	10.5	-	G1/4
63	41	9	32	51	9	42	84.5	15	5	4	M10×1.5	40	2.8	11.8	-	G1/4
80	52	11	41	62	11	51	104	15	6	5	M14×1.5	45	4	14.5	-	G3/8
100	63	12	51	73	12	61	124	18	7	5	M18×1.5	55	4	20.5	-	G3/8

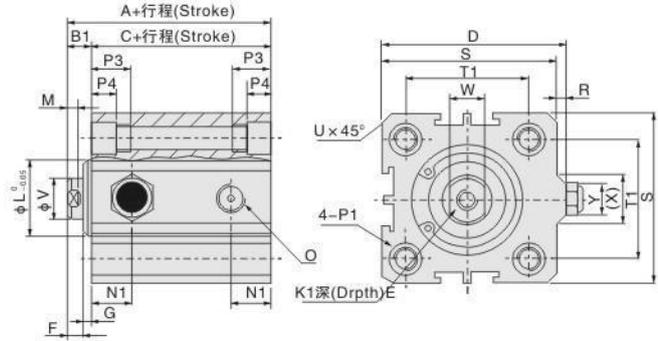
内径/符号 Bore /Symbol	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	双边Double side:Φ6.5牙/Cog M5×0.8 通过孔Through hole:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	双边Double side:Φ6.5牙/Cog M5×0.8 通过孔Through hole:ΦN4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	双边Double side:Φ6.5牙/Cog M5×0.8 通过孔Through hole:Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	双边Double side:Φ8.2牙/Cog M6x1.0 通过孔Through hole:Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	双边Double side:Φ8.2牙/Cog M6x1.0 通过孔Through hole:Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	双边Double side:Φ10牙/Cog M8×1.25 通过孔Through hole:Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	双边Double side:Φ11牙/Cog M8×1.25 通过孔Through hole:Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	双边Double side:Φ11牙/Cog M8x1.25 通过孔Through hole:Φ6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	双边Double side:Φ14牙/Cog M12×1.75 通过孔Through hole:Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	双边Double side:Φ17.5牙/Cog M14X2通7L 通过孔Through hole:Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26

外形尺寸 Overall Dimension

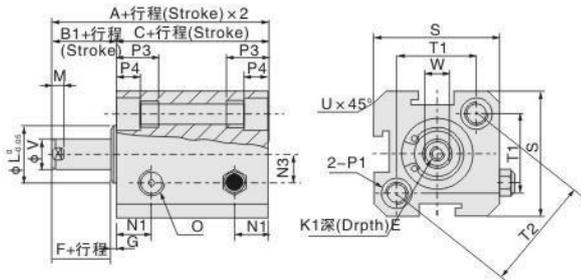
SSA12-16



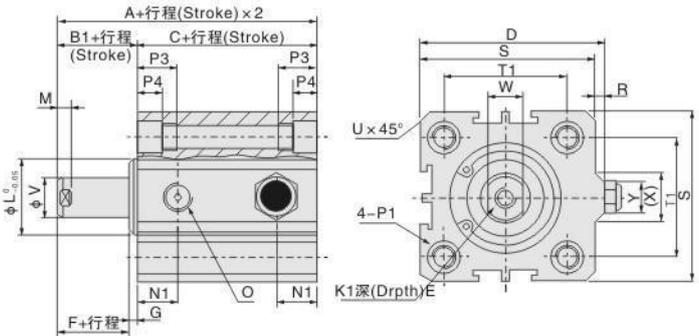
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SSA12-16



SSA20-40

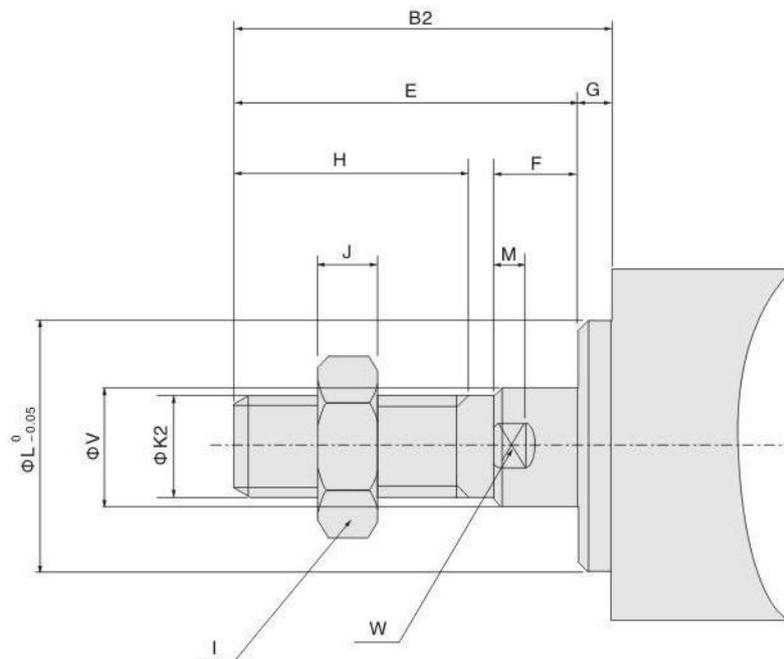


尺寸表 Dimension Sheet

型式/Type 内径/符号 Bore f / symbol 行程/Stroke	标准型 / Standard type			附磁型 / Attach magnet			D	E	F	G	K1	L	M	N1	N3				
	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	6
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	6.5
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	31	41	47	57	6	41	51	42	10	4	2	M5×0.8	17	2.8	8	-
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	3	M6×1	22	2.8	9	-
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8×1.25	28	2.8	10	-

内径/符号 Bore f / symbol	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5×0.8	双边Double Side: Φ6.5 牙/Cog M5X 0.8 通孔Through Hole: Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5×0.8	双边Double Side: d 6.5牙/Cog M5X 0.8 通孔Through Hole: Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5×0.8	双边Double Side: Φ6.5 牙/Cog M5X0.8 通孔Through Hole: Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5×0.8	双边Double Side: Φ8.2牙/Cog M6X 1.0 通孔Through Hole: Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8	双边Double Side: Φ8.2 牙/Cog M6 X1.0 通孔Through Hole: Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8	双边Double Side: Φ10 牙/Cog M8X1.25通孔Through Hole: Φ 6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

外形尺寸 Overall Dimension



尺寸表 Dimension Sheet

内径 / 符号 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	M14×1.5	22	2.8	12	10
40	35	32	4	3	25	19	8	M18×1.5	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	M22×1.5	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

ADVU系列薄型气缸 ADVU Series Compact Cylinder



ADVU25×30



ADVU40×50

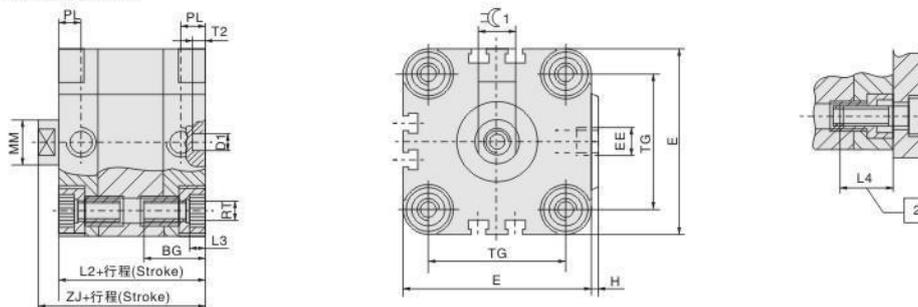
● 订购码 Ordering Code

ADVU	50	×	80	-	A	-	S	-	A	-	S2
型号 Mode	缸径 Cylinder Bore		行程 Stroke		牙型 Cog Type		固定缓冲 Buffer Type		磁石代号 Magnet Code		活塞杆代号 Plunger Code
Φ16-Φ100mm ADVU:复动型 AEVU:单作用推动型 AEVUZ:单作用拉动型 ADVU:Double Action Type AEVU:Single-driven Type AEVUZ:Single Pull Type	Φ16-Φ100mm		基本型/Normal Type: Φ16-25:1-200mm Φ32-63:1-300mm Φ80-100:1-400mm 单作用/Single Action: Φ12:1-10mm Φ16/100:1-25mm		空白:内螺纹 A:外螺纹 Blank:Internal Thread A:External Thread				空白:不附磁系 Blank:Without Magnet A:Attach Magnet		空白:-端活塞杆 S2:双端活塞杆 Blank:Single End Connecting Rod S2:Both Ends Connecting Rod

规格 Specification

内径/Bore(mm)		16	20	32	32	40	50	63	80	100	
动作型式/Motion Pattern		双作用, 单杆/双杆/Double Acting, Single Rod/Double Rod									
使用流体/Fluid		过滤压缩空气/Filtered Compressed Air									
保证耐压力/Ensured Pressure Resistance		1.5MPa									
使用压力范围 Operating Pressure Range	ADVU-P-A	0.12-1.0MPa	0.1-1.0MPa	0.08-1.0MPa			0.06-1.0MPa				
	ADVU-P-S2	0.13-1.0MPa	0.12-1.0MPa	0.1-1.0MPa			0.8-1.0MPa				
环境和流体温度/Environment and Fluid Temp		-20~+80℃(No Freezing)									
接管口径/Port Size		M5			G1/8"			G1/4"			
活塞杆螺纹 Piston Rod Thread	内螺纹/Female Thread	M4	M5	M6			M8	M10	M12		
	外螺纹/Male Thread	M8	M10×1.25			M12×1.25		M16×1.5	M20×1.5		
缓冲/Buffering		橡胶缓冲/Rubber Bumper									

外形尺寸 Overall Dimension



尺寸表 Dimension Sheet

内径 Bore Size(mm)	GB	D1 ΦD9	E	EE	H	L2	L3	L4	ΦMM	PL	RT	T2	TG	ZJ	C1
16	18.5	6	29	M5	1	38	3	16	8	8	M4	4	18	42.5	7
20	18.5	6	36	M5	1.5	38	4	18	10	8	M5	4	22	42.5	9
25	18.5	6	40	M5	1.5	39.5	4	18	10	8	M5	4	26	45	9
32	21.5	6	50	G1/8	2	44.5	5	20	12	8	M6	4	32	50.5	10
40	21.5	6	60	G1/8	2.5	45.5	5	20	12	8	M6	4	42	52	10
50	22	6	68	G1/8	3	45.5	6	20	16	8	M8	4	50	53	13
63	24.5	6	87	G1/8	4	50	6	25	16	8	M10	4	62	57.5	13
80	27.5	6	107	G1/8	4	56	6	25	20	8.5	M10	4	82	64	17
100	32.5	6	128	G1/4	5	66.5	8	25	35	10.5	M10	4	103	76.5	22

CQ2系列薄型缸

CQ2 Series Compact Cylinder



CDQ2B25 x 25



CDQ2B40 x 50

订购码 Ordering Code

CDQ2	B	12	10	D	□
系列 Series	Mounting Style	缸径 Cylinder Bore	行程 Stroke	动作 Action	缸身(任选) Cylinder Body(Optional)
D: 办置磁环 空白: 无内置磁环 D: Attach Magnet Blank: Without Attach Magnet	A: 两端内 B: 通螺孔 A: With Female Thread On Both Ends B: With Through Bore	单动: $\Phi 12 - \Phi 50\text{mm}$ 双动: $12 - \Phi 100\text{mm}$ Single Action: $12 - \Phi 50\text{mm}$ Double Action: $12 - \Phi 100\text{mm}$	0~100mm	D: 双动 S: 单动(弹簧夺回) T: 单动(弹簧压出) D: Double Action S: Single Action (With Spring Return) T: Single Action (With Spring Extent)	空白: 杆端内螺纹 M: 杆端外螺纹 Blank: Female thread M: Male thread

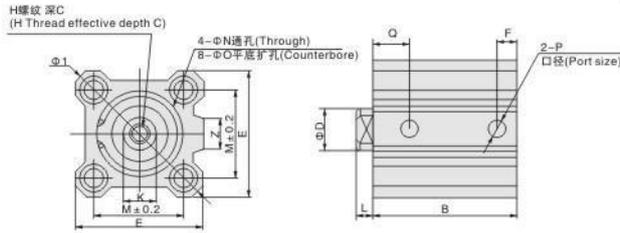
规格 Specification

内径/Bore(mm)	12	16	20	25	32	40	50	63	80	100
工作介质/Working Medium	空气/Air									
动作型式/Motion Pattern	单动:弹簧压回/弹簧压出 Double Action/Single Action Extrusion Type/Single Action Drawing-In Type									
保证耐压车/Ensured Pressure Resistance	15.3kg/cm ² (1.5MPa)									
最高使用压力/Max.Pressure	10.2kg/cm ² (1.0MPa)									
环境和流体温度/Environment and Fluid Temp	5~+60℃									
杆端螺纹/Thread Type	内螺纹(标准)/外螺纹(任选)Inner Thread(Standard)/Outer Thread(Optional)									
缓冲/Buffering	无/NO									
行程公差/Margin of Stroke Error(mm)	+1.0 0									
安装/Installation	通孔(标准)/两准内螺纹(任选)Through Hole(Standard), Inner Size ON The Two Sides(Optional)									
接管口径/Port Size	M5 x 0.8			G1/8"			G1/4"		G3/8"	

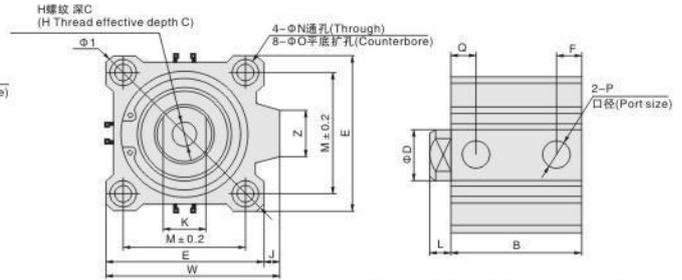
单动气缸不可以加橡胶缓冲
Note: Pls Confirm Single Type Can't With Cushion

外形尺寸 Overall Dimension

Φ32~Φ100



Φ32~Φ100



注/Note2)长行程(Long Stroke)

通孔安装型(Through Hole Type)/CQ2B 系列/Series

双动气缸尺寸表 Dimension Sheet(Double Action)

型号/Model	行程范围 Stroke Range(mm)	B	ΦD	E	F	H	C	ΦI
CQ2B12-D	5~30	17+st	6	25	5	M3×0.5	6	32
CQ2B16-D	5~30	18.5+st	8	29	5.5	M4×0.7	8	38
CQ2B20-D	5~50	19.5+st	10	36	5.5	M5×0.8	7	47
CQ2B25-D	5~50	22.5+st	12	40	5.5	M6×1.0	12	52
CQ2B32-D	5	23+st	16	45	5.5	M8×1.25	13	60
	10~50				7.5			
CQ2B40-D	5~50	29.5+st	16	52	8	M8×1.25	13	69
CQ2B50-D	10~50	30.5+st	20	64	10.5	M10×1.5	15	86
CQ2B63-D	10~50	36+st	20	77	10.5	M10×1.5	15	103
CQ2B80-D	10~50	43.5+st	25	98	12.5	M16×20	21	132
CQ2B100-D	10~50	53+st	30	117	13	M20×25	27	156

型号/Model	J	K	L	M	ΦN	ΦO	P	Q	W	Z
CQ2B12-D	-	5	3.5	15.5	3.5	6.5深/depth 3.5	M5×0.8	7.5	-	-
CQ2B16-D	-	6	3.5	20	3.5	6.5深/depth 3.5	M5×0.8	8	-	10
CQ2B20-D	-	8	4.5	25.5	5.5	9深/depth 7	M5×0.8	9	-	10
CQ2B25-D	-	10	5	28	5.5	9深/depth 7	M5×0.8	11	-	10
CQ2B32-D	4.5	14	7	34	5.5	9深/depth 7	M5×0.8	11.5	49.5	18
							1/8	10.5		
CQ2B40-D	5	14	7	40	5.5	9深/depth 7	1/8	11	57	18
CQ2B50-D	7	17	8	50	6.6	11深/depth 8	1/4	10.5	71	22
CQ2B63-D	7	17	8	60	9	14深/depth 10.5	1/4	15	84	22
CQ2B80-D	6	22	10	77	11	17.5深/depth 13.5	3/8	16	104	26
CQ2B100-D	6.5	27	12	94	11	17.5深/depth 13.5	3/8	23	123.5	26

型号 Model	行程 (mm)	B	F	P	Q
32	75,100	33	7.5	1/8	10.5
40	75,100	39.5	8	1/8	11
50	75,100	40.5	10.5	1/4	10.5
63	75,100	46	10.5	1/4	15
80	75,100	53.5	12.5	3/8	16
100	75,100	63	12	3/8	23

St=行程(Stroke)

注1)标准行程是每5mm相隔。

Note1)The standard stroke is at a distance of each 5mm.

注2)行程有55mm至100mm之间的中间行程(55,60,65,70,80,85,90,95)加5,10,15或20mm厚的垫板。

Note2)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.

注3)除非有特别指明,通孔型气缸尺寸和两端内螺纹气缸尺寸是一样。

Note3)External dimensions with rumper are same as stsndard type as shown above.

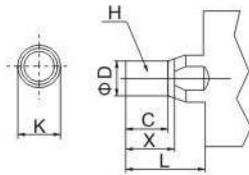
单动气缸尺寸表 Dimension Sheet(Single Action)

型号/Model	B			ΦD	E	F		H	C	ΦI	J	K
	5st	10st	20st			5st	10st					
CQ2B12-D	22	27	-	6	25	5	5	M3×0.5	6	32	-	5
CQ2B16-D	23.5	28.5	-	8	29	5.5	5.5	M4×0.7	8	38	-	6
CQ2B20-D	24.5	29.5	-	10	36	5.5	5.5	M5×0.8	7	47	-	8
CQ2B25-D	27.5	32.5	-	12	40	5.5	5.5	M6×1.0	12	52	-	10
CQ2B32-D	28	33	-	16	45	5.5	7.5	M8×1.25	13	60	4.5	14
CQ2B40-D	34.5	39.5	-	16	52	8	8	M8×1.25	13	69	5	14
CQ2B50-D	-	40.5	50.5	20	64	10.5	10.5	M10×1.5	15	86	7	17

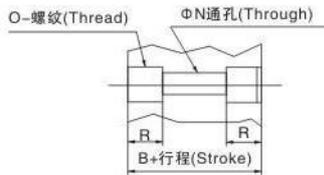
型号/Model	K	L	M	ΦN	ΦD	P			Q		W	Z	
						5st	10st	20st	5st	10st			
CQ2B12-D	5	3.5	15	3.5	6.5深/depth 3.5	M5×0.8			-	7.5	7.5	-	-
CQ2B16-D	6	3.5	20	3.5	6.5深/depth 3.5	M5×0.8			-	8	8	-	10
CQ2B20-D	8	4.5	25.5	5.5	9深/depth 7	M5×0.8			-	9	9	-	10
CQ2B25-D	10	5	28	5.5	9深/depth 7	M5×0.8			-	11	11	-	10
CQ2B32-D	14	7	3.4	5.5	9深/depth 7	M5×0.8	1/8	-	11.5	11.5	49.5	18	
CQ2B40-D	14	7	40	5.5	9深/depth 7	1/8		-	11	11	57	18	
CQ2B50-D	17	8	50	6.6	11深/depth 8	-	1/4	-	10.5	10.5	71	22	

St=行程(Stroke)

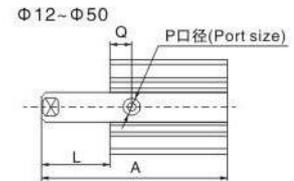
活塞杆外螺纹
Thread Outer Type



两端内螺纹安装型
(Inner Thread Type)/CO2A



单动/弹簧压出
Single Action(With Spring Extent)



活塞杆外螺纹
Thread Outer Type

缸径 Bore (mm)	C	X	ΦD	H	K	L
12	9	10.5	6	M5×0.8	14	5
16	10	12	8	M6×1.0	15.5	6
20	12	14	10	M8×0.8	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

注3)两端内螺纹
Note3)Inner Thread Type

缸径 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

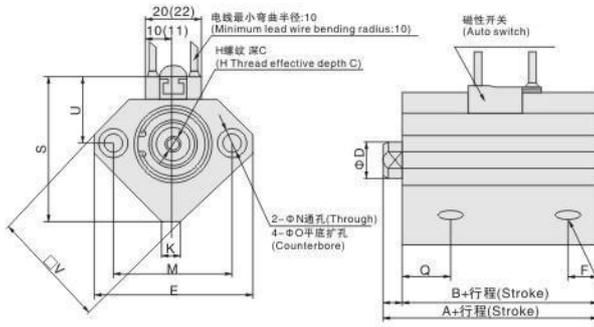
单动/弹簧压出
Single Action(With Spring Extent)

缸径 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

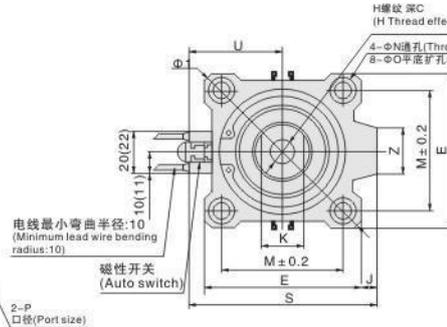
◆除非有特别指明, 通孔型气缸尺寸和两端内螺纹气缸尺寸是一样。
◆External dimensions with rumper are same as standard type as shown above.

外形尺寸 Overall Dimension

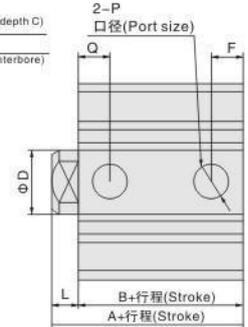
Φ12~Φ25



Φ32~Φ100



CDQ2B 系列/Aeries



双动气缸尺寸表/Dimension Sheet(Double Action)

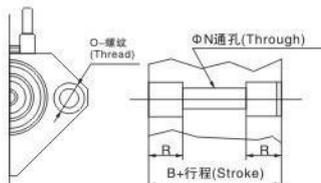
型号/Model	注1)行程范围 Stroke Range (mm)	A	B	ΦD	E	F	H	C	ΦI	J	K	L	M	ΦN	ΦO	P	Q	S	U	V	Z
CDQ2B12	5~30	31.5	28	6	32	6.5	M3×0.5	6	-	-	5	3.5	22	3.5	6.5深/depth 3.5	M5×0.8	11	35	19.5	25	-
CDQ2B16	5~30	34	30.5	8	38	5.5	M4×0.7	8	-	-	6	3.5	28	3.5	6.5深/depth 3.5	M5×0.8	10	41.5	22.5	29	-
CDQ2B20	5~50	36	31.5	10	46.8	5.5	M5×0.8	7	-	-	8	4.5	36	5.5	9深/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深/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深/depth 7	M5×0.8	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深/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深/depth 8	1/8	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深/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深/depth 13.5	1/4	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深/depth 13.5	3/8	23	132.5	67.5	-	26

注/Note2长行程(Long Stroke)

缸径Bore (mm)	行程(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

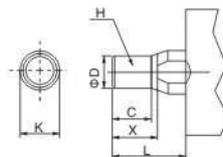
注1)标准行程是每5mm相隔。
Note1)The standard stroke is at a distance of each 5mm.
注2)行程有55mm至100mm之间的中间行程(55,60,65,70,80,85,90,95)加5,10,15或20mm厚的垫板。
Note2)The stroke between 55mm-100mm(55,60,65,70,80,85,90,95), need to be added thickness of 5, 10, 15 or 20mm pad.
注3)除非有特别指明, 通孔型气缸尺寸和两端内螺纹气缸尺寸是一样。
Note3)External dimensions with rumper are same as standard type as shown above.
注4)5mm行程气缸只能安装一个磁性开关。
Note4)The stroke of cylinder in 5mm can be fixed only one magnetism swigh.

两端内螺纹/Inner Thread Type CDQ2A



注3)两端内螺纹 Note3)Inne Thread Type

缸径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



活塞杆外螺纹 Thread Outer Type

缸径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	M8×0.8	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	25	M26×1.5	43.5	27

◆除非有特别指明, 通孔型气缸尺寸和两端内螺纹气缸尺寸是一样。
◆External dimensions with rumper are same as standard type as shown above.

CM2系列不锈钢迷你气缸

CM2 Series Standard Steel Mini Cylinder



CM2B20-25

CM2B25-50

订购码 Ordering Code

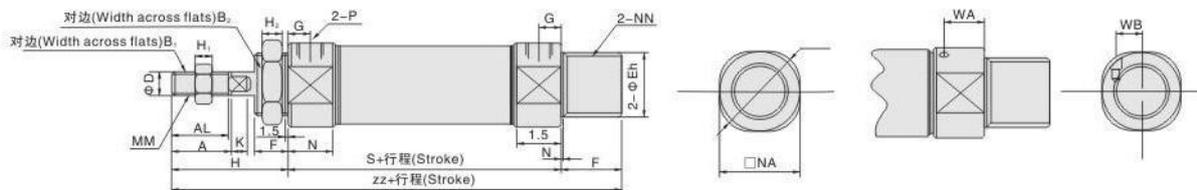
CDM2	32	150	A
系列 Series	缸径 Cylinder Bore	行程 Stroke	缓冲 Buffer
空白: 无内置磁环 D: 内置磁环 Blank: Without Attach Magnet D: Attach Magnet	Φ20~Φ40mm	0~1000mm	空白: 橡胶缓冲 A: 气缓冲 Blank: Rubber Cushion A: Air Cushion

规格 Specification

缸径/Cylinder Diameter	20	25	32	40
工作介质/Working Medium	空气/Air			
动作型式/Motion Pattern	复动型/Double Acting			
保证耐压/Ensured Pressure Resistance	15.3kgf/cm ² (1.5MPa)			
最高使用压力/Max. Pressure	10.2kgf/cm ² (1.0MPa)			
最低使用压力/Min. Pressure	0.5kgf/cm ² (0.05MPa)			
使用温度范围/Operating Temperature Range	-10~70℃			
使用速度范围/Operating Speed Range	50~750mm/s			
缓冲/Buffering	橡胶缓冲(标准)Rubber Buffer(Standard),气缓冲/Air Buffering(Optional)			
行程公差/Margin of Stroke Error(mm)	+1.4 0 mm			
接管口径/Port Size	G1/8"	G1/8"	G1/8"	G1/4"

外形尺寸 Overall Dimension

Φ20~Φ40 CM2 系列/Series



尺寸表 Dimension Sheet

缸径 Bore(mm)	行程范围 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	26 ⁰ _{-0.033}	13	8	45	6	8	33.5	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	M26×1.4	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	M32×2	1/4	88	154	14	15

CJP系列针型气缸 CJP Series Needle Cylinder



● 订购码 Ordering Code

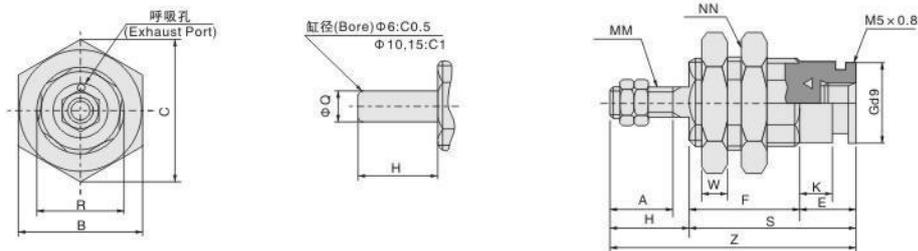
CJPB	10	5	B
系列代号 Series Code	缸径 Cylinder Bore	行程 Stroke	螺纹型 Thread Type
CJPB: 面板安装型	6: $\Phi 6\text{mm}$	0~30mm	空白: 有螺纹
CJPS: 内置型	10: $\Phi 10\text{mm}$		B: 无螺纹
CJPB: Panel Mount Type	15: $\Phi 15\text{mm}$		Blank: With Thread
CJPS: Attach Type			B: No.Thread

规格 Specification

内径/Bore(mm)	6	10	15
工作介质/Working Medium	空气/Air		
动作型式/Motion Pattern	复动/单动(弹簧压回)Double Action/Single Action(SDrawing-in Type)		
保证耐压车/Ensured Pressure Resistance	10.5kgf/cm ² (1.05MPa)		
最高使用压力/Max.Pressure	7kgf/cm ² (0.7MPa)		
最低使用压力/Min.Pressure	2kgf/cm ² (0.2MPa)	1.5kgf/cm ² (0.15MPa)	
使用温度范围/Operating Temperature Range	5~+60°C		
缓冲/Buffering	无/NO		
行程公差/Margin of Stroke Error(mm)	+1.0 0 mm		
接管口径/Port Size	M5 x 0.8(面板安装型/Panel mount Type)		

外形尺寸 Overall Dimension

面板安装型CJPB
Panel Mounting Style

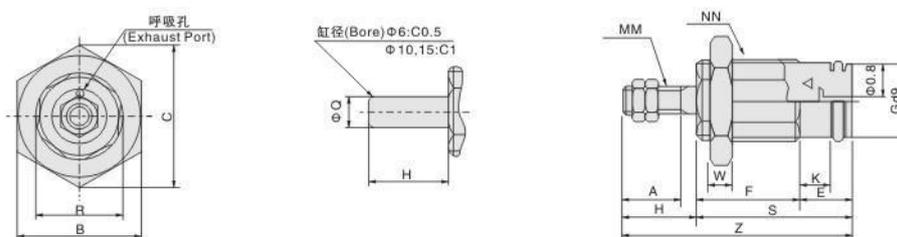


尺寸表 Dimension Sheet

缸径 Bore(mm)	A	B	C	E	F			ΦG	H	K	MM	NN	R	S			W	Z			Q
					5st	10st	15st							5st	10st	15st		5st	10st	15st	
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3 x 0.5	M10 x 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 x 0.7	M15 x 1.5	13	20.5	27	34	4	32.5	39	46	5
15	12	17	31	7	16.5	22.5	29	19	14	4.2	M5 x 0.8	M22 x 1.5	20	23.5	29.5	36	5	37.5	43.5	50	6

外形尺寸 Overall Dimension

内置型
(Plug Mounting Style)CJPS



尺寸表 Dimension Sheet

缸径 Bore(mm)	A	B	C	E	F			ΦG	H	K	MM	NN	R	S			W	Z			Q
					5st	10st	15st							5st	10st	15st		5st	10st	15st	
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3 x 0.5	M10 x 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 x 0.7	M15 x 1.5	13	20.5	27	34	4	32.5	39	46	5
15	12	17	31	7	16.5	22.5	29	19	14	4.2	M5 x 0.8	M22 x 1.5	20	23.5	29.5	36	5	37.5	43.5	50	6

CU系列自由安装气缸

CU Series Free Installation Cylinder



CU20-20

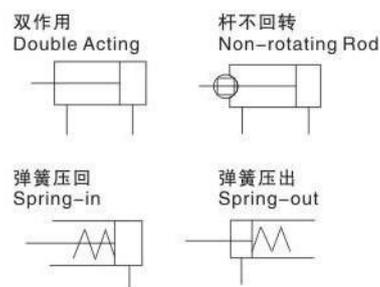


CU16-10D

● 订购码 Ordering Code

C D U	K	25	30	D
内置磁环 Magnet	品种 Type	缸径 Bore	标准行程 Standard Stroke	动作方式 Motion Type
无记号: 无内置磁环	无记号: 基本型	6	5	D-双动
D: 内置磁环	K: 杆不回转型	10	10	S-单动(弹簧压回)
Blank: Without magnet	Blank: Basic type	16	15	T-单动(弹簧压出)
D: With magnet	K: Non-rotating	20	20	D: Double acting
		25	30	S: Single acting (Spring-in)
		32	40	T: Single acting (Spring-out)
			50	

● 图形符号 Symbol



● 规格 Specification

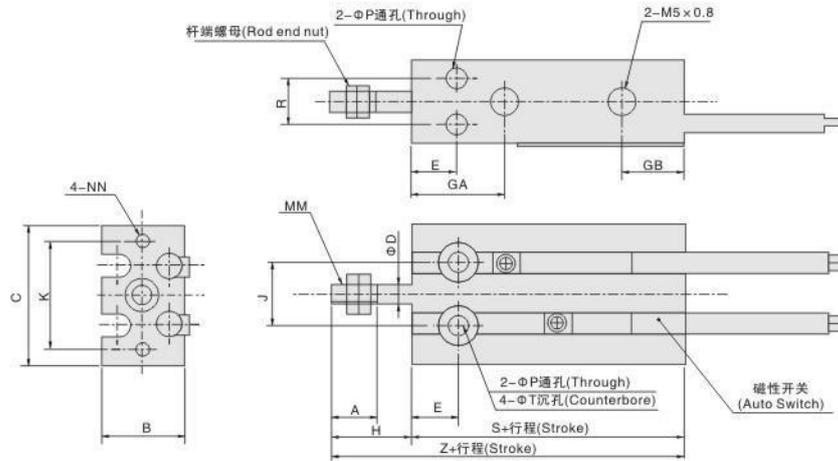
缸径Bore(mm)	6	10	16	20	25	32
使用流体 Operating Fluid	空气 Air					
动作方式 Operation	D: 双作用 S: 单作用(弹簧压回) T: 单作用(弹簧压出) D: Double Acting, S: Single Acting (Spring-in), T: Single Acting (Spring-out)					
最高使用压力 Max. Operating Pressure	0.7MPa					
保证耐压力 Proof Pressure	1.0MPa					
环境和流体温度 Ambient and fluid temp	5~60℃					
缓冲 Cushion	两端橡胶缓冲 Both end with Rubber Gasket Cushioning					
*给油 Lubricant	不需要 Non-lub					
安装形式 Installation Type	自由(多面安装) Free (Multi-installation)					
活塞杆不回转精度 Precision non-rotating rod	±0.8°			±0.5°		
接管口径 Port Size	M5 x 0.8					1/8

● 行程、磁性开关型号表 Stroke/Sensoric Switch Model

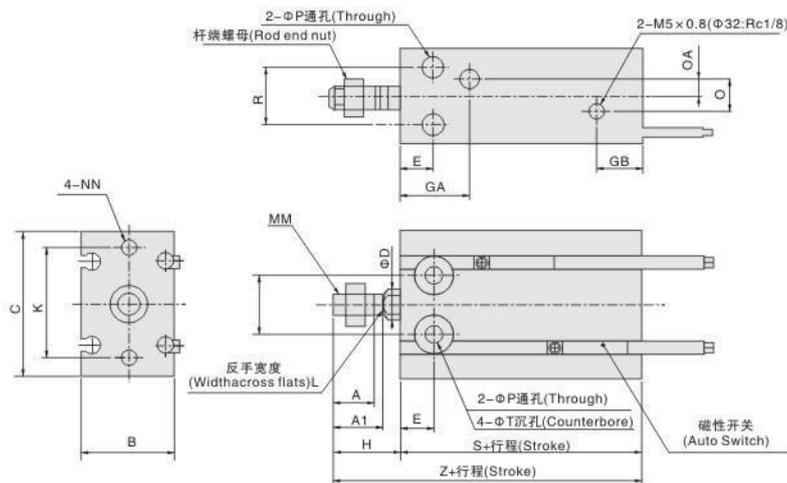
缸径Bore(mm)	标准行程 Standard Stroke		长行程(双作用) Stroke Length (Double Acting)	*磁性开关型号(直接安装) *Sensor Switch Model(Direct mounting)
	双作用Double Acting	单作用 Single Acting		
6	5,10,15,20,25,30	5,10,15	40,50,60	D-A90L D-A93L D-A96L D-A80L D-F9NL D-F98
10				
16				
20	5,10,15,20,25,30,40,50	5,10,15	60,70,80,90,100	
25				
32				

外形尺寸 Overall Dimension

CU $\Phi 6\sim\Phi 10$



CU $\Phi 16\sim\Phi 32$



尺寸表 Dimension Sheet

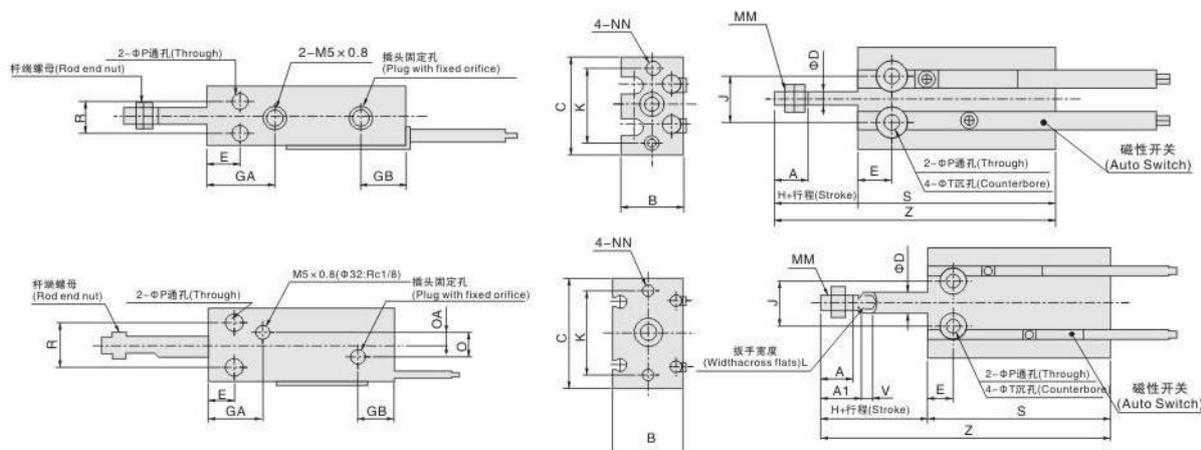
缸径/Bore Size(mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	K
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4×0.7
16	11	12.5	20	32	6	7	16.5 ^{Note)}	11.5	16	25	14	5	M5×0.8
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25
32	19.5	22	40	62	12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

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

注) 5行程(CU16-5D): 14.5mm
Note) 5 Stroke (CU16-5D): 14.5mm

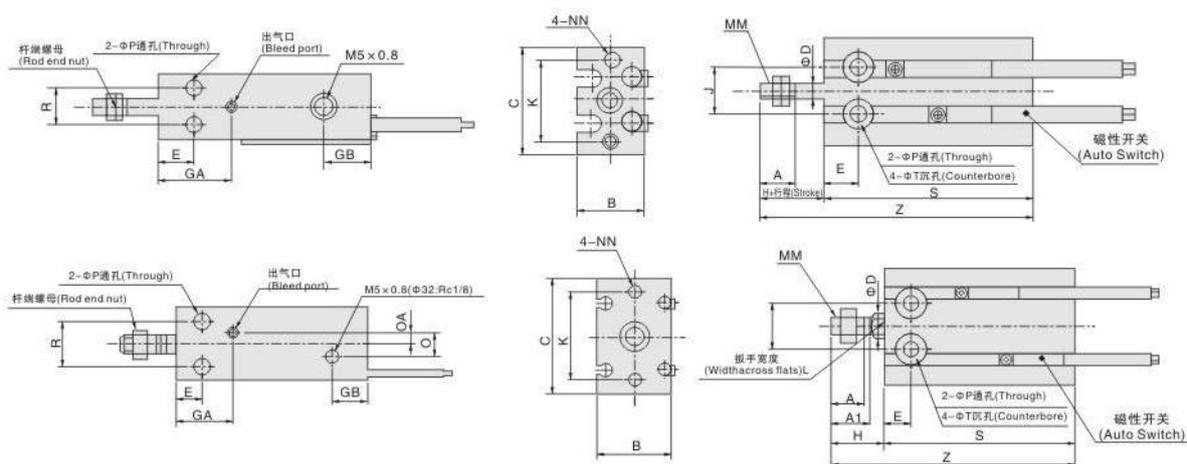
外形尺寸 Overall Dimension

单作用，弹簧压出(Single Acting, Spring Extend)



外形尺寸 Overall Dimension

单作用，弹簧压出(Single Acting, Spring Extend)



尺寸表 Dimension Sheet

缸径/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 x 0.5	M3 x 0.5深(depth)5	3.2
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4 x 0.7	M3 x 0.5深(depth)5	3.2
16	11	12.5	20	32	6	7	16.5	11.5	16	25	14	5	M5 x 0.8	M3 x 0.7深(depth)6	4.5
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6 x 1.0	M3 x 0.8深(depth)8	5.5
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8 x 1.25	M3 x 0.8深(depth)8	5.5
32	19.5	22	40	62	12	11	23	12.5	27	48	24	10	M10 x 1.25	M3 x 1.0深(depth)9	6.6

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

注)*V*仅适用单作用，弹簧压出。
Noet)*V*Only for Single Acting, Spring Extend.

TN系列双缸气缸 TN Series Double-Shaft Cylinder

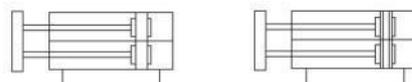


TN20 x 50

订购码 Ordering Code

TN	—	20	×	50	—	S
系列代号 Series Code		缸径 Cylinder Bore		行程 Stroke		磁系列代号 Magnet Code
双轴复动型 Double-Shaft Double Action Type		10- Φ 32mm				S: 内置磁环型 S: With Magnet

图形符号 Symbol

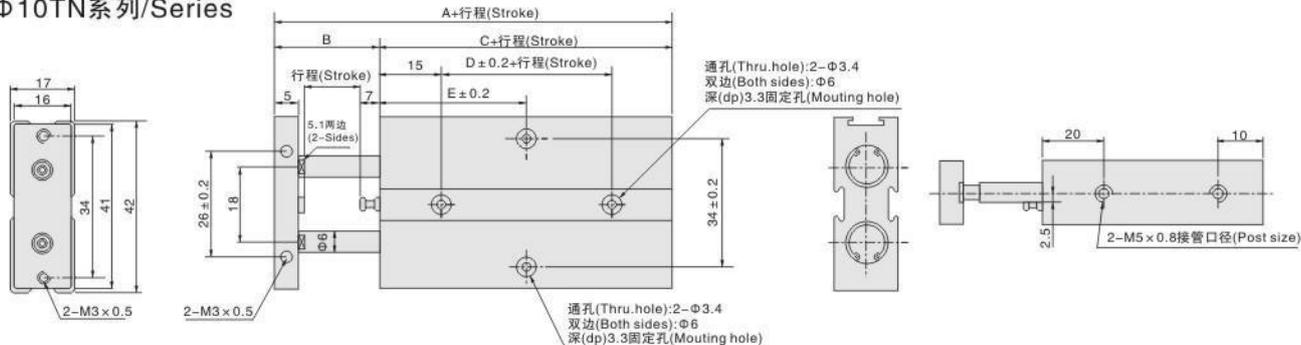


规格 Specification

内径/Bore(mm)	10	16	20	25	32
动作型式/Motion Pattern	复动型/Double Action				
工作介质/Working Medium	空气/Air				
使用压力范围/Operating Voltage Range	1~9kgf/cm ²				
保证耐压力/Ensured pressure Resistance	10.5kgf/cm ²				
使用温度范围/Operating Temperature Range	-5~70℃				
使用速度范围/Operating Sped Range	100~500mm/s				
调整行程/Adjustable Stroke	-10~0mm				
缓冲型式/Cushion Type	固定缓冲/Fixed Type Buffer				
不回转精度/Non Rotating Precision	0.4℃			0.3℃	
接管口径/Port Size	M5 x 0.8			G1/8"	

外形尺寸 Overall Dimension

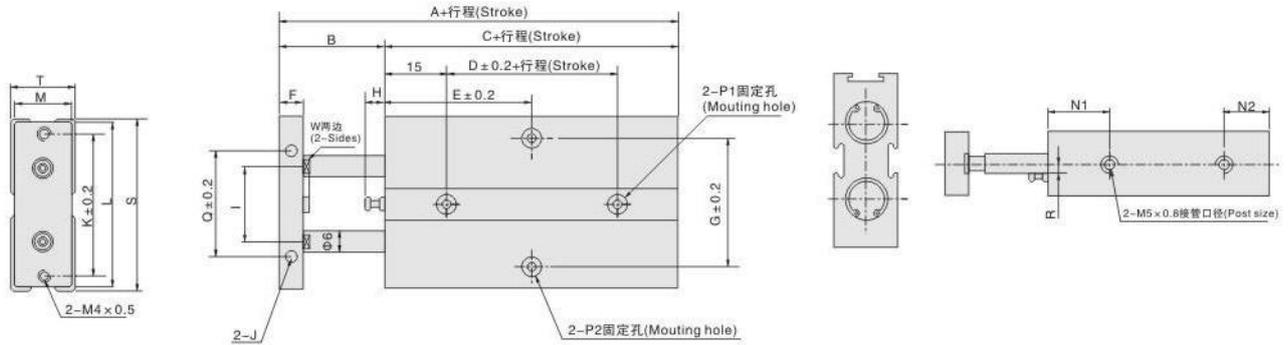
Φ 10TN系列/Series



尺寸表 Dimension Sheet

缸径/Boer Size 项目/Item	A	B	C	D	E						
					10	20	20	40	50	60	70
10	63	12	51	10	30	30	35	40	45	50	55

外形尺寸 Overall Dimension
Φ16~Φ25TN系列/Series

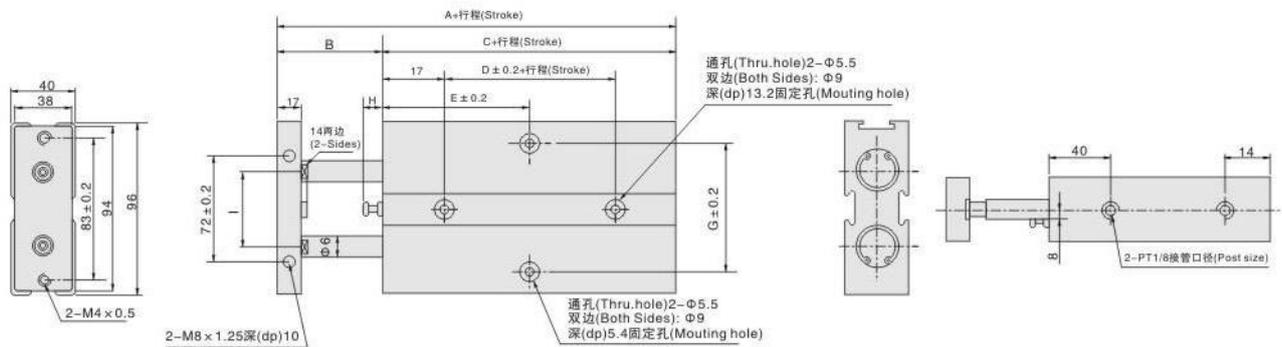


尺寸表 Dimension Sheet

缸径/Bore Size 项目/Item	A	B	C	D	E											F	G	H	I	
					10	20	30	40	50	60	70	80	90	100	125					150
16	68	15	56	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	92.2	105	10	66	8	34

缸径/项目Bore Size/Item	J	K	B	M	N1	N2	P1	P2	Q	R	S	T	V	W
16	M4 × 0.7 深/dp5	47	53	20	22	11	双边(Both Sides): Φ7.5深(dp)7.2mm 通孔(Thru.Hole): Φ4.5	双边(Both Sides): Φ8深(dp)4.4mm 通孔(Thru.Hole): Φ4.5	34	3	54	21	8	6.1
20	M4 × 0.7 深/dp5	55	61	24	25	12	双边(Both Sides): Φ7.5深(dp)7.2mm 通孔(Thru.Hole): Φ4.5	双边(Both Sides): Φ8深(dp)4.4mm 通孔(Thru.Hole): Φ4.5	44	3.5	62	25	10	8.1
25	M4 × 0.7 深/dp5	66	72	29	12	12	双边(Both Sides): Φ7.5深(dp)7.2mm 通孔(Thru.Hole): Φ4.5	双边(Both Sides): Φ8深(dp)4.4mm 通孔(Thru.Hole): Φ4.5	56	7	73	30	12	10.2

外形尺寸 Overall Dimension
Φ32TN系列/Series



尺寸表 Dimension Sheet

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

STM 滑台气缸系列 STM Slide cylinder series



STM25 x 50

● 订购码 Ordering Code

STM	B	25	100
系列代号 Series Code	固定方式 Fixed way	缸径 Cylinder Bore	行程 Stroke
STM:STM系列滑台气缸 STM:STM Slide Cylinder series	B:本体固定型 S:滑块固定型 B:Body fixed type S:Sliding block type	10:10mm 16:16mm 20:20mm 25:25mm	

图形符号 Symbol



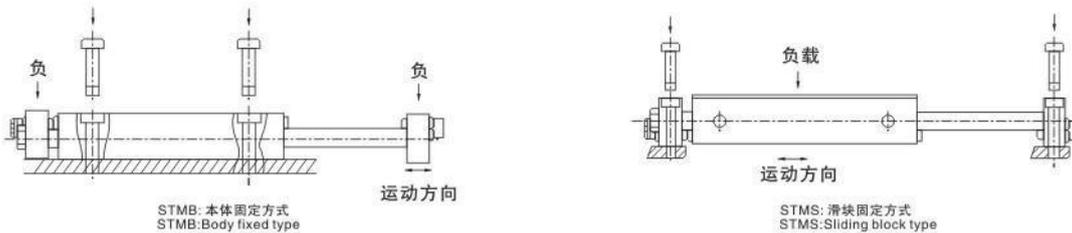
行程 Stroke

内径 Bore Size	标准行程 Stroke
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

规格 Specification

内径Bore(mm)	10	16	20	25
动作型式 Motion Pattern	双动型 /Double Action			
工作介质 Working Medium	空气 Air			
工作温度 Working temperature	-5~70			
使用压力范围 Operating Voltage Range	0.1~0.9MPa(14~128Psi)			
保证耐压力 Ensured pressure Resistance	1.5MPa(213Psi)			
使用速度范围 Operating Sped Range	52~200			
缓冲形式 Cushion Type	无	油压缓动器(不选项)		
润滑 Lubrication	不需要			
不回转精度 Non Rotating Precision	±0.1°	±0.05°		
接管口径 Port Size	M5 x 0.8			PT1/8

固定方式

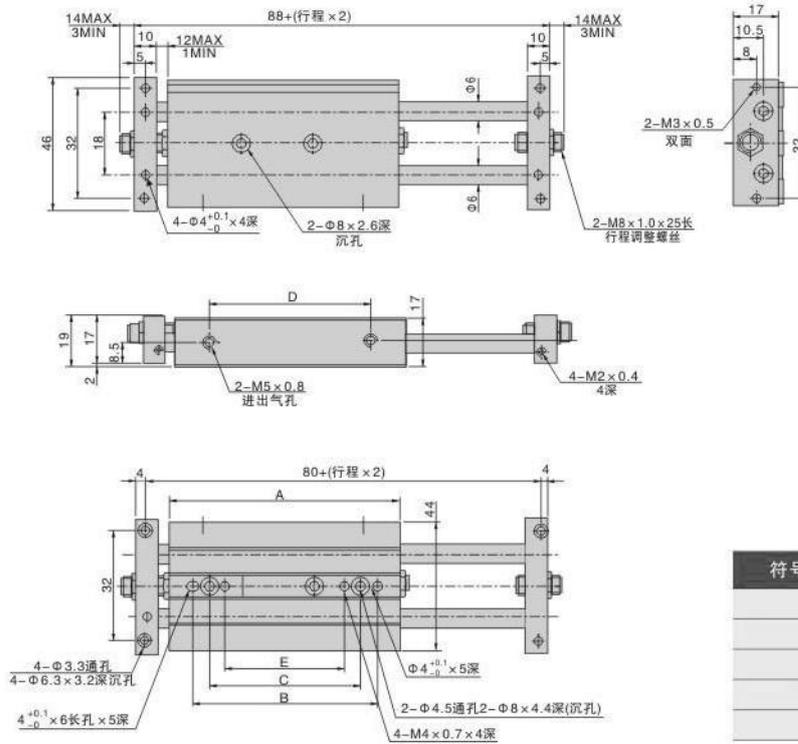


气缸理论出力表

气缸内径 (mm)	活塞杆外径 (mm)	动作型式	受压面积 (mm ²)	空气压力MPa						
				0.1	0.2	0.3	0.4	0.5	0.6	0.7
10	6	复动	100.5	10.1	20.1	30.2	40.2	50.3	60.3	70.4
16	8	复动	301.6	30.2	60.3	90.5	120.6	150.8	181.0	211.1
20	10	复动	471.2	47.1	94.2	141.4	188.5	235.6	282.7	329.9
25	12	复动	755.6	75.6	151.1	226.7	302.2	377.8	453.3	528.9

外形尺寸 Overall Dimension

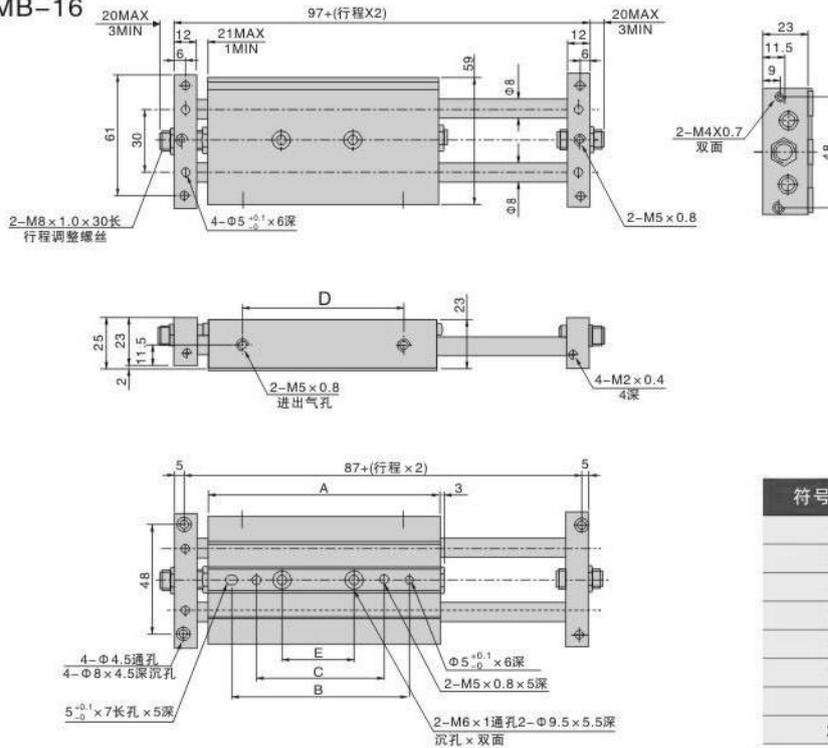
STMB-10



符号/行程	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

外形尺寸 Overall Dimension

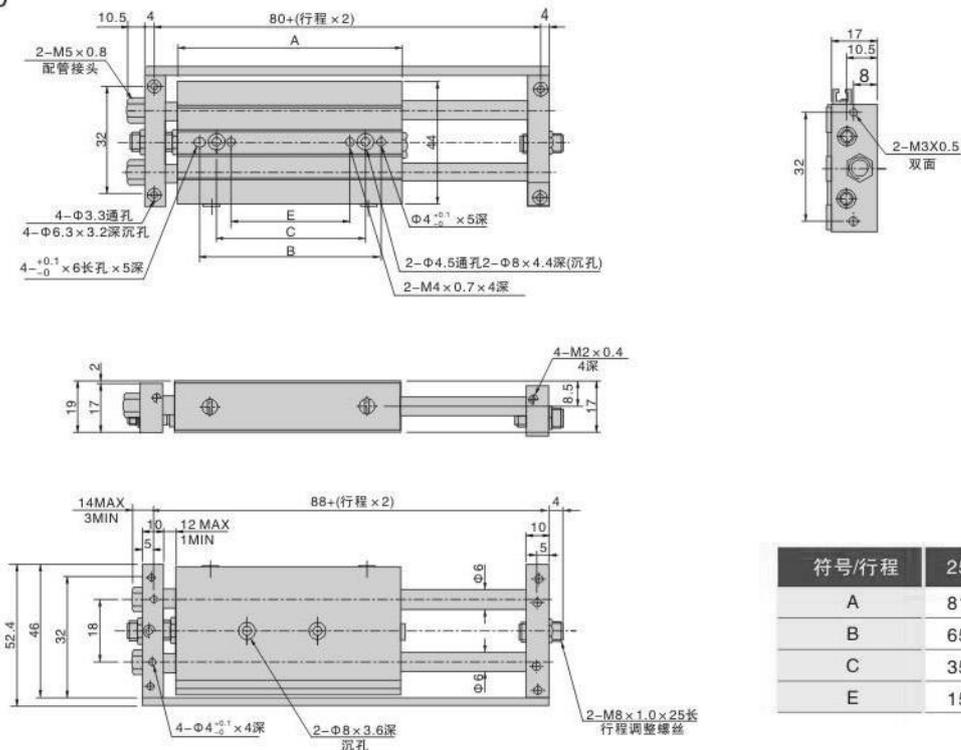
STMB-16



符号/行程	A	B	C	D	E
25	86	55	-	48	25
50	111	80	-	73	50
75	136	105	75	98	45
100	161	130	100	123	70
125	186	150	120	148	90
150	211	150	120	173	90
175	236	150	120	198	90
200	261	150	120	223	90

外形尺寸 Overall Dimension

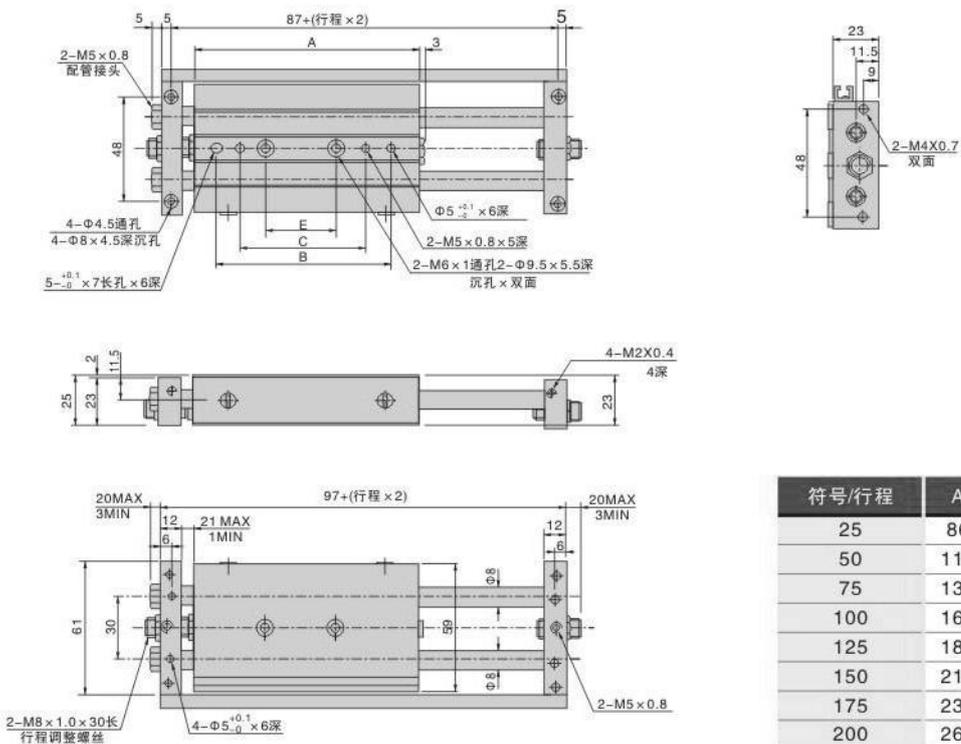
STMS-10



符号/行程	25	50	75	100
A	81	106	131	156
B	65	85	85	85
C	35	60	60	60
E	15	40	40	40

外形尺寸 Overall Dimension

STMS-16



符号/行程	A	B	C	E
25	86	55	-	25
50	111	80	-	50
75	136	105	75	45
100	161	130	100	70
125	186	150	120	90
150	211	150	120	90
175	236	150	120	90
200	261	150	120	90

CXS系列双缸气缸

CXS Series Double-Shaft Cylinder



CXSM20 x 50

订购码 Ordering Code

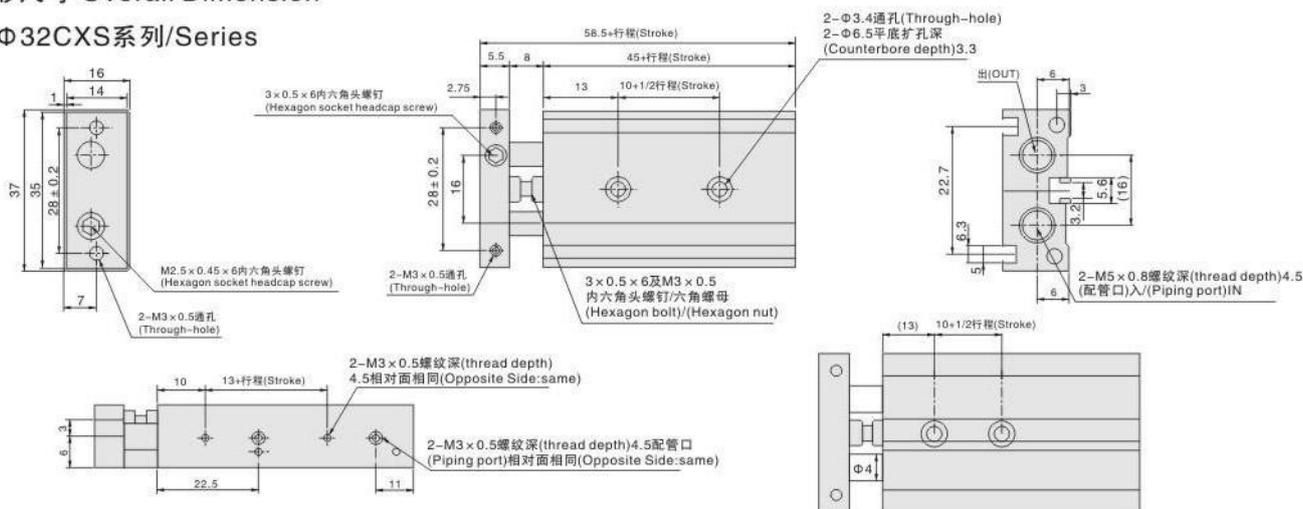
CXS	M	20	×	50
系列代号 Series Code	轴承种类 Type of Bearing	缸径 Cylinder Bore		行程 Stroke
内置磁环型 CXS: Attach Magnet Type	M: 滑动轴承 L: 滑珠导向轴承 M: Slide Bearing Type L: Ball Guide Bearing Type	6-Φ6mm 10-Φ10mm 16-Φ16mm 20-Φ20mm 25-Φ25mm 32-Φ32mm		0-100mm

规格 Specification

内径/Bore(mm)	6	10	16	20	25	32	
工作介质/Working Medium	空气/Air						
动作型式/Motion Pattern	复动型/Double Action						
保证耐压力/Ensured pressure Resistance	1.05MPa(10.7kgf/cm ²)						
最高使用压力/Max. Pressure	0.7MPa(7.1kgf/cm ²)						
最低使用压力/Min. Pressure	0.15MPa(1.5kgf/cm ²)	0.1MPa(1.0kgf/cm ²)			0.05MPa(0.51kgf/cm ²)		
使用温度范围/Operating Temperature Range	5~+60℃						
缓冲/Cushion	两端橡胶缓冲/Both Ends Buffer						
结构/Structure	双气缸(两倍出力)/Double Power						
行程调较范围/Stroke Adjustable Range	缩回行程/(Return Stroke)0~5mm						
轴承/Bearing	滑动轴承/滚珠导向轴承/Slide Bearing/Ball Guide Bearing						
活塞杆不转动精度 Precision of Piston Rod Non-Rotating	滑动轴承/Slide Bearing	±0.1	±0.15	±0.13	±0.11	±0.1	±0.08
	滚珠导向轴承/Ball Guide Bearing	±0.1	±0.1	±0.07	±0.06	±0.05	±0.04
接管口径/Port Size	M5×0.8					G1/8"	

外形尺寸 Overall Dimension

Φ32CXS系列/Series

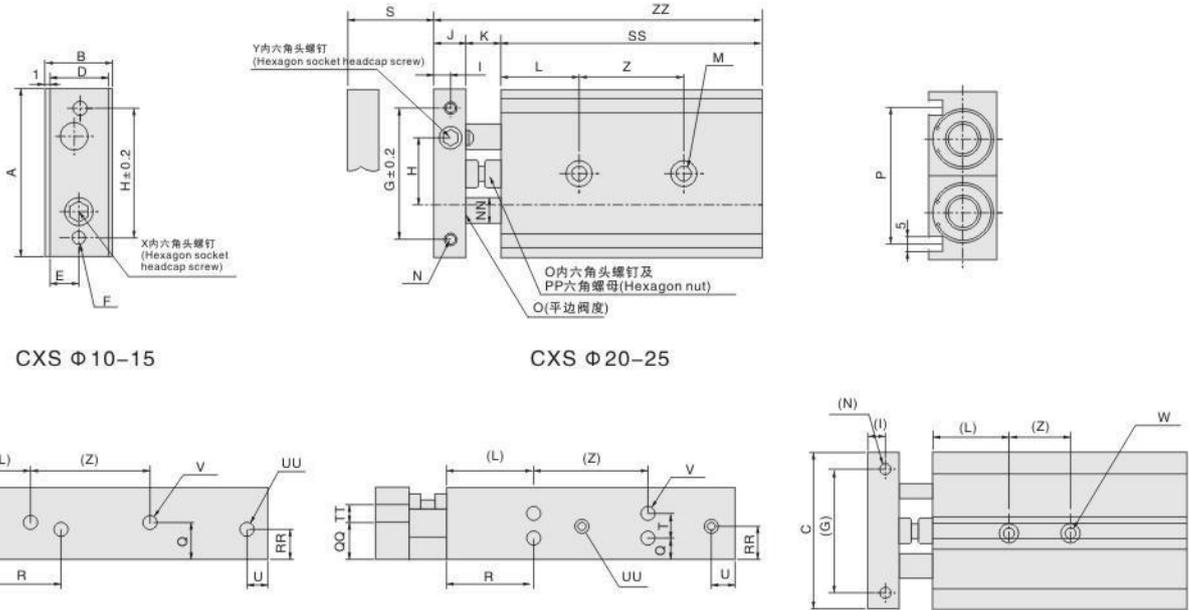


尺寸表 Dimension Sheet

型号/Model	行程/Stroke	10+1/2行程/Stroke	13+行程/Stroke	45+行程/Stroke	58.5+行程/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

外形尺寸 Overall Dimension

CXS Φ 10-15-20-25



尺寸表 Dimension Sheet

型号/Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	NN	O	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- Φ 3.4通孔/Through 2- Φ 6.5 凹坑深度/Counterbore Depth3.3	2-M3×0.5螺纹深度/ Thread Depth 5	Φ 6	5	M4 × 0.7 × 14.5L	33.6
CXS 15-10 /20/30/40/50	58	20	56	18	9	2-M4 × 0.8	45	25	5	10	9	30	2- Φ 4.3通孔/Through 2- Φ 8 凹坑深度/Counterbore Depth4.4	2-M4×0.7螺纹深度/ Thread Depth 6	Φ 8	6	M4 × 0.7 × 14.5L	48
CXS 20-10/20 /30/40/50/75/100	64	25	62	23	11.5	2-M4 × 0.8	50	28	6	12	12	30	2- Φ 5.5通孔/Through 2- Φ 9.5 凹坑深度/Counterbore Depth5.3	2-M4×0.7螺纹深度/ Thread Depth 6	Φ 10	8	M6 × 1.0 × 18.5L	53
CXS 25-10/20 /30/40/50/75/100	80	30	78	28	14	2-M4 × 1.0	60	35	6	12	12	30	2- Φ 6.9通孔/Through 2- Φ 11 凹坑深度/Counterbore Depth6.3	2-M5×0.8螺纹深度/ Thread Depth 7.5	Φ 12	10	M6 × 1.0 × 18.5L	64
CXS 32-10/20 /30/40/50/75/100	98	38	96	36	18	2-M4 × 1.0	75	44	8	16	14	30	2- Φ 6.9通孔/Through 2- Φ 11 凹坑深度/Counterbore Depth6.3	2-M5×0.8螺纹深度/ Thread Depth 8	Φ 16	13	M8 × 12.5 × 23L	76

型号/Model	PP	Q	QQ	R	RR	T	TT	U	N	N	N	N	N
CXS 10-10 /20/30/40/50	2-M4 × 0.7	8.5	7	30	7	-	5	8	4-M5×0.8螺纹深度/ Thread Depth 4.5	4-M3×0.5螺纹深度/ Thread Depth 4.5	2-M4×0.7螺纹深度/ Thread Depth 4.5	M3×0.5×10L	M3×0.5×5L
CXS 15-10 /20/30/40/50	2-M4 × 0.7	10	10	38.5	10	-	5	8	4-M5×0.8螺纹深度/ Thread Depth 4.5	4-M4×0.7螺纹深度/ Thread Depth 5	2-M5×0.8螺纹深度/ Thread Depth 8	M5×0.8×10L	M4×0.7×4L
CXS 20-10/20 /30/40/50/75/100	2-M4 × 1.0	7.75	12.5	45	7.75	9.5	6.5	8	4-M5×0.8螺纹深度/ Thread Depth 4.5	8-M4×0.7螺纹深度/ Thread Depth 6	2-M6×1.0螺纹深度/ Thread Depth 10	M6×1.0×12L	M5×0.8×5L
CXS 25-10/20 /30/40/50/75/100	2-M4 × 1.0	8.5	15	46	15	13	9	9	4-1/8螺纹深度/ Thread Depth 6.5	8-M5×0.8螺纹深度/ Thread Depth 7.5	2-M8×1.25螺纹深度/ Thread Depth 12	M6×1.0×14L	M6×1.0×5L
CXS 32-10/20 /30/40/50/75/100	2-M4 × 1.25	9	19	56	19	20	11.5	10	4-1/8螺纹深度/ Thread Depth 6.5	8-M5×0.8螺纹深度/ Thread Depth 7.5	2-M8×1.25螺纹深度/ Thread Depth 12	M8×12.5×16L	M8×12.5×8L

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



CXSW10 x 50

订购码 Ordering Code

CXS	W	M	20 ×	50
型号 Model	轴头型式 Rod style	轴承种类 Bearing	缸径 Bore	行程 Stroke
	W: 双轴头 W: Double rod	M: 滑动轴承 L: 滚珠导向轴承 M: Slide bearing L: Ball guide bearing		

规格 Specification

缸径 Bore (mm)	6	10	15	20	25	32
工作介质 Working Fluid	空气 Air					
动作型式 Action	双动 Double action					
耐压 Mpa (kgf/cm ²)	1.05					
工作压力 working pressure Mpa(kgf/cm ²)	0.7					
最低工作压力 Min working perssure Mpa(kgf/cm ²)	0.15			0.1		
工作温度 Working temperatute	0~+60℃					
缓冲 Cushion	两端橡胶缓冲 Rubber bumper on both ends					
结构 Constructure	双气缸(2倍出力) Double cylinder(twice strength)					
*润滑 Cubrication	不需要 No need					
行程调校范围 Stroke asjustable range	0--10mm					
轴承 Bearing	滑动轴承/滚珠导向轴承 Ball Bushing Bearing					
接管口径 Rc (PT) Portsiza	M5 x 0.8				Rc(PT)1/8	

*如需要润滑, 请用透平1号油ISOVG32。 If need.suggest NO1ISOYG32 cubrication

标准行程表

型号	标准行程	长行程
CXSW□6	10,20,30,40,50	
CXSW□10	10,20,30,40,50	75,100,125,150
CXSW□15		
CXSW□20		
CXSW□25	10,20,30,40,50,75,100	125,150,175,200
CXSW□32		

理论出力表

型号	杆径(mm)	受压面积(mm ²)	使用压力(MPa)						
			0.1	0.2	0.3	0.4	0.5	0.6	0.7
CXSW□6	4	31	4.6	6.2	9.3	12.4	15.5	18.6	21.7
CXSW□10	6	100	10	20	30	40	50	60	70
CXSW□15	8	252	25.2	50.4	75.6	101	126	151	176
CXSW□20	10	471	47.1	94.2	141	188	236	283	330
CXSW□25	12	756	75.6	151	227	302	378	454	529
CXSW□32	16	1206	121	241	362	482	603	724	844

MGP 新薄型带导杆气缸

MGP New Compact Tri-rod Cylinder



MPGM32 x 50



MPGM32 x 100

订购码 Ordering Code

MGP	M	32	50	MT
轴承种类 Type Bearing		缸径 Type Bearing	行程 Stroke	磁性开关的型号 Sensor
M: 滑动轴承		12 16		D-Z73
L: 球轴承		20 25		*标准线长1M特殊另订购
M: Slide bearing		32 40		* Standard wire is 1 meter, please order for other length
L: Ball guide bearing		50 63		
		80 100		

性能特点 Features

- 1.体积小、轻巧
Light weight and compact.
- 2.耐横向负载能力强
Strong transverse load capacity.
- 3.耐扭矩能力强
Strong torque capacity.
- 4.不回转精度高
High Non-rotating precision.
- 5.导向杆的轴承可选择滑动轴承或球轴承
Either ball joint or slide joint are available for directional bearing for directional rod.
- 6.安装方便
Easy for installation.
- 7.二面接管位置可供选择
Position of both side ports are changeable.

规格 Specification

缸径 Bore(mm)	12	16	20	25	32	40	50	63	80	100
使用液体 Operation Fluid	空气 Air									
动作方式 Operation	双作用 Double Acting									
耐压试验压力 Anti-pressure testing pressure	1.5MPa(15.3kgf/cm ²)									
最高使用压力 Max. Operation Pressure	1.0MPa(10.2kgf/cm ²)									
最低使用压力 Min. Operation Pressure	0.12MPa(1.2kgf/cm ²)									
环境和流体温度 Ambient and fluid temperature	5~+60℃									
活塞速度 Piston Speed	50~500mm/s								50~400mm/s	
缓冲 Buffer	橡胶缓冲 Rubber Buffer									
行程公差 Stroke Tolerance	+1.5mm 0									
*给油 Lubrication	不需要 Non-lub									
轴承 Bearing	滑动轴承/球轴承 Slidable bearing/Ball Bearing									
活塞杆不回转精度 Non-rotating rod precision	滑动轴承 Slidable bearing	±0.08°		±0.07°		±0.06°		±0.05°		±0.04°
	球轴承 Ball Bearing	±0.10°		±0.09°		±0.08°		±0.06°		±0.05°
接管口径 Rc Port Size Rc(PT)	M5 x 0.8				1/8 "		1/4 "		3/8 "	

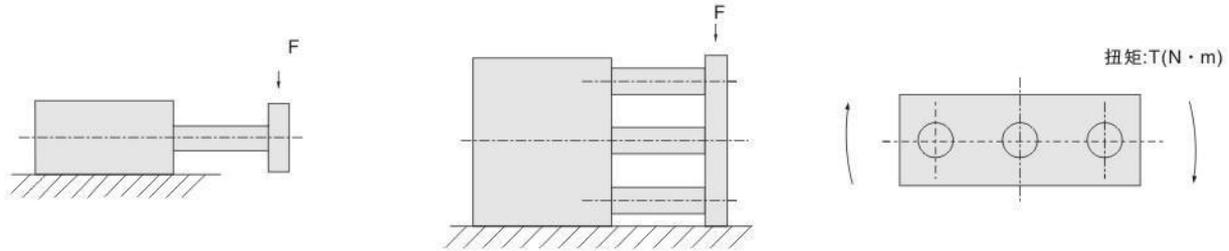
*如需给油, 请用透平油1号油ISOVG32. If lubricant is demanded, please choose clear No.1 lubricant, ISOVG32.

行程 Stroke

缸径 Bore(mm)	标准行程 Standard Stroke*(mm)	磁性开关型号(轨道安装) Sensor Switch Optional Model(For slide installation)
12,16	10,20,30,40,50,75,100	D-Z73L D-Z76L D-Z80L D-Y59AL D-Y59BL
20,25	20,30,40,50,75,100,125,175,200	
32,40,50,63,80,100	20,50,75,100,125,150,175,200	

*中间行程(5,10,20,30,35.....)是加5,10,15,20mm厚的垫板, 例如, MGPM50-10是加15mm厚的垫板在MGPM50-25之内
Strokes (from 5, 10, 20, 30, 35.....) are added with 5, 10, 15, 20 mm thick gasket respectively,
ex: MGPM50-10 is with 15 mm thickness gasket (MGPM50-25).

● 负载及扭矩



缸径Bore(mm)	系列 Series	最大横向负载 Max. Transverse Load F(N)											
		行程 Stroke (mm)											
		10	20	25	30	40	50	75	100	125	150	175	200
12	MGPM	24	19	-	17	14	13	26	22	-	-	-	-
	MGPL	37	27	-	22	35	30	23	18	-	-	-	-
16	MGPM	38	31	-	27	23	21	37	32	-	-	-	-
	MGPL	54	40	-	32	54	47	35	28	-	-	-	-
20	MGPM	-	49	-	43	38	35	87	75	66	59	54	49
	MGPL	-	58	-	48	101	90	70	58	62	54	48	43
25	MGPM	-	69	-	60	54	49	116	100	88	79	71	65
	MGPL	-	82	-	68	132	118	93	77	80	70	62	55
32	MGPM	-	-	203	-	-	164	182	159	142	127	116	106
	MGPL	-	-	113	-	-	78	164	107	130	114	101	90
40	MGPM	-	-	203	-	-	164	182	159	142	127	116	106
	MGPL	-	-	113	-	-	78	163	106	130	114	101	90
50	MGPM	-	-	296	-	-	245	273	241	216	195	179	164
	MGPL	-	-	120	-	-	83	223	148	148	129	114	102
63	MGPM	-	-	296	-	-	245	273	241	216	195	179	164
	MGPL	-	-	117	-	-	81	176	145	145	126	111	99
80	MGPM	-	-	352	-	-	297	368	329	298	272	251	232
	MGPL	-	-	125	-	-	99	281	240	208	184	163	147
100	MGPM	-	-	515	-	-	445	498	450	410	377	349	325
	MGPL	-	-	138	-	-	108	395	340	297	263	235	211

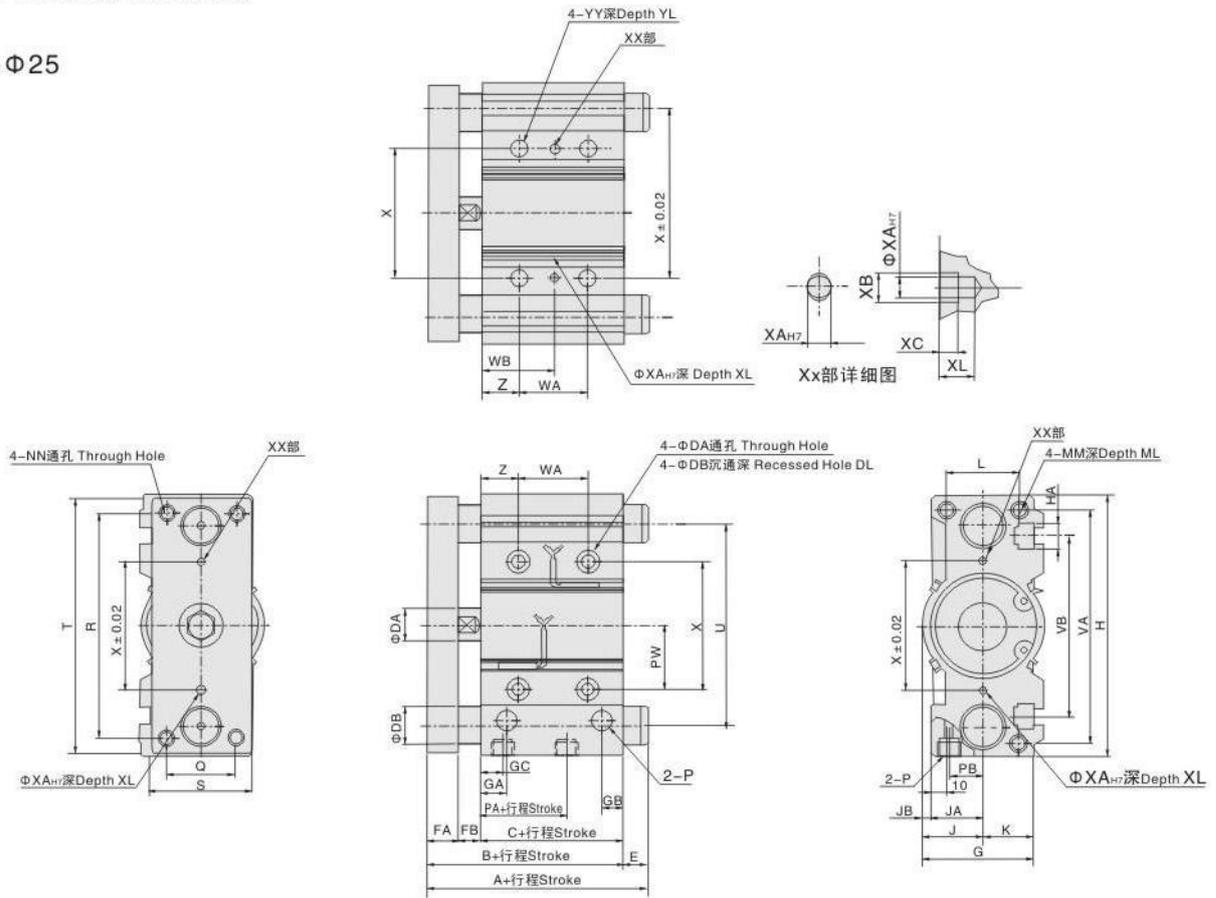
● 最大扭矩T(N·m)

行程(mm)											
10	20	25	30	40	50	75	100	125	150	175	200
0.39	0.32	-	0.27	0.24	0.21	0.43	0.36	-	-	-	-
0.78	0.66	-	0.57	0.98	0.85	0.69	0.58	-	-	-	-
0.69	0.58	-	0.49	0.43	0.38	0.69	0.58	-	-	-	-
1.23	1.06	-	0.92	1.53	1.40	1.16	0.99	-	-	-	-
-	1.05	-	0.93	0.83	0.75	1.88	1.63	1.44	1.28	1.16	1.06
-	1.70	-	1.03	3.06	2.87	2.47	2.17	2.38	2.16	1.98	1.82
-	1.76	-	1.55	1.38	1.25	2.96	2.57	2.26	2.02	1.83	1.67
-	2.80	-	2.53	4.67	4.39	3.81	3.36	3.65	3.31	3.02	2.78
-	-	6.35	-	-	5.13	5.69	4.97	4.42	3.98	3.61	3.31
-	-	4.76	-	-	3.86	6.53	5.75	7.10	6.46	5.92	5.47
-	-	7.00	-	-	5.66	6.27	5.48	4.87	4.38	3.98	3.65
-	-	5.24	-	-	4.25	7.19	6.33	7.81	7.11	6.52	6.02
-	-	13.0	-	-	10.8	12.0	10.6	9.50	8.60	7.86	7.24
-	-	7.02	-	-	5.76	12.3	10.9	11.2	10.2	9.40	8.69
-	-	14.7	-	-	12.1	13.5	11.9	10.7	9.69	8.86	8.16
-	-	77.7	-	-	6.35	13.7	12.2	12.5	11.4	10.5	9.65
-	-	22.0	-	-	18.6	22.9	20.5	18.6	17.0	15.6	14.5
-	-	10.3	-	-	9.35	24.8	22.7	20.9	19.4	18.0	16.9
-	-	38.8	-	-	33.5	37.5	33.8	30.9	28.4	26.2	24.4
-	-	13.6	-	-	12.2	41.1	37.9	35.1	32.7	30.5	28.6

外形尺寸 Overall Dimension

MGP

Φ12~Φ25



MGPM, MGPL尺寸表 Dimension Sheet (Φ12~Φ25)

缸径 Bore (mm)	标准行程 Standard Stroke	B	C	DA	FA	FB	G	GA	GB	H	HA	J	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB	PW	Q
12	10, 20, 30, 40	42	29	6	8	5	26	11	7.5	58	M4	13	13	18	M4×0.7	10	M4×0.7	4.3	8	4.5	M5×0.8	13	8	18	14
16	50, 75, 100	46	33	8	8	5	30	11	8	64	M4	15	15	22	M5×0.8	12	M5×0.8	4.3	8	4.5	M5×0.8	15	10	19	16
20	20, 30, 40, 50	53	37	10	10	6	36	10.5	8.5	83	M5	18	18	24	M5×0.8	13	M5×0.8	5.6	9.5	5.5	RC1/8	12.5	10.5	25	18
25	75, 100, 125, 150, 175, 200	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	9.5	5.5	RC1/8	12.5	13.5	28.5	26

缸径 Bore (mm)	标准行程 Standard Stroke	R	S	T	U	VA	VB	WA			WB			X	XA	XB	YY	XC	XL	YL	Z
								30st以下 Below	40st至100st to	125st或以上 For above	30st以下 Below	40st至100st to	125st或以上 For above								
12	10, 20, 30, 40	48	22	56	41	50	37	20	40	-	15	25	-	23	3	3.5	M5×0.8	3	6	10	5
16	50, 75, 100	54	25	62	46	56	38	24	44	-	17	27	-	24	3	3.5	M5×0.8	3	6	10	5
20	20, 30, 40, 50, 75	70	30	81	54	72	44	24	44	120	29	39	77	28	3	3.5	M6×1.0	3	6	12	17
25	100, 125, 150, 175, 200	78	38	91	64	82	50	24	44	120	29	39	77	34	4	4.5	M6×1.0	3	6	12	17

MGPM(滑动轴承)(Slidable Bearing)

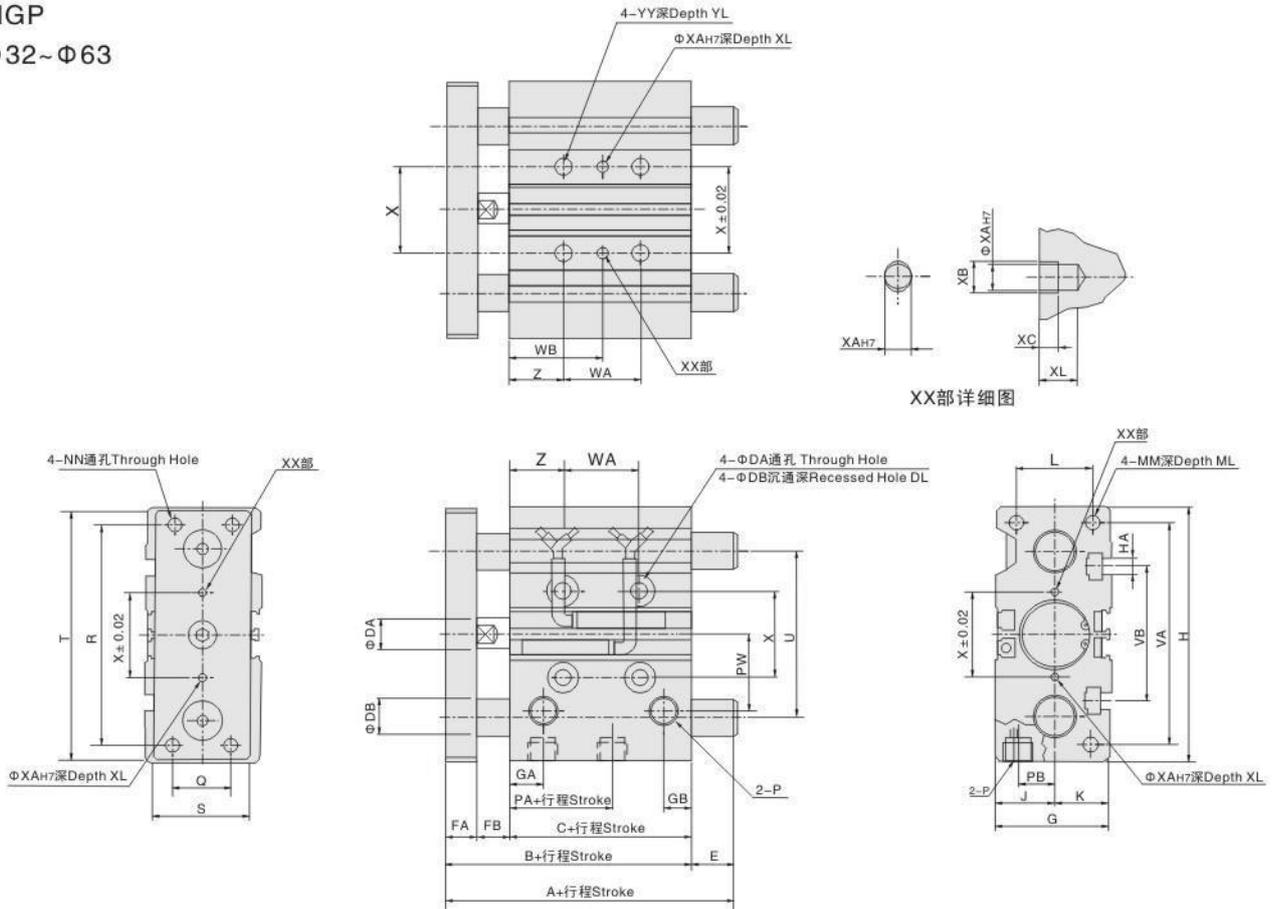
缸径 Bore (mm)	A		DB	E	
	50st以下 Below	50st以上 Above		50st以下 Below	50st以上 Above
12	42	60.5	8	0	18.5
16	46	64.5	10	0	18.5
20	53	84.5	12	0	31.5
25	53.5	85	16	0	31.5

MGPL(球轴承)(Ball Bearing)

缸径 Bore (mm)	A			DB	E		
	30st以下 Below	30st至100st to	100st或以上 or Above		30st以下 Below	30st至100st to	100st或以上 or Above
12	43	55	85	6	1	13	43
16	49	65	95	8	3	19	49
20	63	80	104	10	10	27	51
25	69.5	80.5	104.5	13	16	32	51

外形尺寸 Overall Dimension

MGP
Φ32~Φ63



MGPM, MGPL 尺寸表 Dimension Sheet (Φ32~Φ63)

缸径 Bore (mm)	标准行程 Standard Stroke	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB	PW	Q
32	25, 50, 75, 100, 125, 150, 175, 200	59.5	37.5	16	12	10	48	12.5	112	9	112	M6	24	24	34	M8 × 1.25	20	M8 × 1.25	6.6	11	7.5	RC1/8	7	15	34	30
40		66	44	16	12	10	54	14	120	10	120	M6	27	27	40	M8 × 1.25	20	M8 × 1.25	6.6	11	7.5	RC1/8	13	18	38	30
50		72	44	20	16	12	64	12	148	11	148	M8	32	32	46	M10 × 1.5	22	M10 × 1.5	8.6	14	9	RC1/4	9	21.5	47	40
63		77	49	20	16	12	78	16.5	162	13.5	162	M10	39	39	58	M10 × 1.5	22	M10 × 1.5	8.6	14	9	RC1/4	14	28	55	50

缸径 Bore (mm)	标准行程 Standard Stroke	R	S	T	U	VA	VB	WA			WB			X	XA	XB	XC	XL	YY	YL	Z
								25st	50, 75, 100st	100st以上 Above	125st	50, 75, 100st	100st以上 Above								
32	25, 50, 75, 100, 125, 150, 175, 200	96	44	110	78	98	63	24	48	124	33	45	83	42	4	4.5	3	6	M8 × 1.25	16	21
40		104	44	118	86	106	72	24	48	124	34	46	84	50	4	4.5	3	6	M8 × 1.25	16	22
50		130	60	146	110	130	92	24	48	124	36	48	86	66	5	6	4	8	M10 × 1.5	20	24
63		130	70	158	124	142	110	28	52	128	38	50	88	80	5	6	4	8	M10 × 1.5	20	24

MGPM(滑动轴承) (Slidable Bearing)

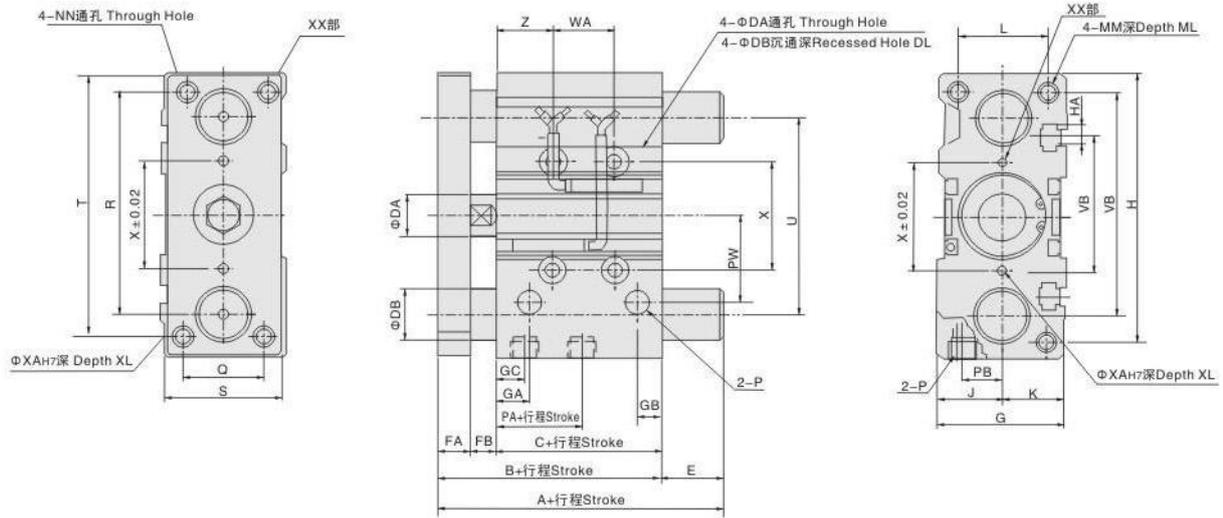
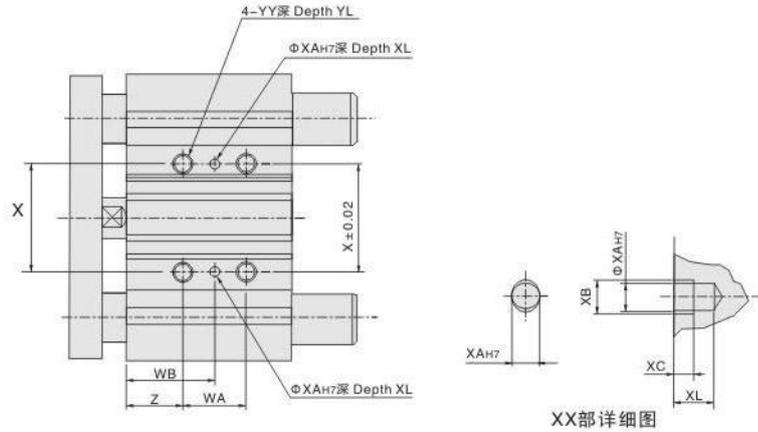
缸径 Bore (mm)	A		DB	E	
	25, 50st	50st以上 Above		25, 50st以下 Below	50st以上 Above
32	97	102	20	37.5	42.5
40	97	102	20	31	36
50	106.5	118	25	34.5	46
63	106.5	118	25	29.5	41

MGPL(球轴承) (Ball Bearing)

缸径 Bore (mm)	A			DB	E		
	50st	75, 100st	100st以上 Above		50st	75, 100st	100st以上 Above
32	81	98	118	16	21.5	38.5	58.5
40	81	98	118	16	15	32	52
50	93	114	134	20	21	40	62
63	93	114	134	20	16	37	57

外形尺寸 Overall Dimension

MGP
Φ80~Φ100



MGPM, MGPL尺寸表 Dimension Sheet (Φ80~Φ100)

缸径 Bore (mm)	标准行程 Standard Stroke	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	JA	JB
80	25, 50, 75, 100, 125, 150, 175, 200	96.5	56.5	25	22	18	91.5	19	15.5	14.5	202	M12	45.5	38	7.5
100	25, 50, 75, 100, 125, 150, 175, 200	116	66	30	25	25	111.5	23	19	18	240	M14	55.5	45	10.5

缸径 Bore (mm)	标准行程 Standard Stroke	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB	PW	Q
80	25, 50, 75, 100, 125, 150, 175, 200	46	54	M12×1.75	30	M12×1.75	10.6	17.5	8	RC3/8	14.5	25.5	74	52
100	25, 50, 75, 100, 125, 150, 175, 200	56	62	M14×2.0	32	M14×2.0	12.5	20	8	RC3/8	17.5	32.5	89	64

缸径 Bore (mm)	标准行程 Standard Stroke	R	S	T	U	VA	VB	WA			WB			X	XA	XB	XC	XL	YY	YL	Z
								25st	50, 75, 100st	100st以上 Above	25st	50, 75, 100st	100st以上 Above								
80	25, 50, 75, 100, 125, 150, 175, 200	174	75	198	156	180	140	28	52	128	42	54	92	100	6	7	5	10	M12×1.75	24	28
100	25, 50, 75, 100, 125, 150, 175, 200	210	90	236	188	210	166	48	72	148	35	47	85	124	6	7	5	10	M14×2.0	28	11

MGPM(滑动轴承)(Slidable Bearing)

缸径 Bore (mm)	A		DB	E	
	25, 50st	50st以上 Above		25, 50st以下 Below	50st以上 Above
80	115	142	30	18.5	45.5
100	137	162	36	21	46

MGPL(球轴承)(Ball Bearing)

缸径 Bore (mm)	A			DB	E		
	25, 50st	75, 100st	100st以上 Above		25, 50st	75, 100st	100st以上 Above
80	109.5	130	160	25	13	33.5	63.5
100	121	147	180	30	5	31	64

MSQ系列摆台(齿轮齿条式) MSQ Series Rotational Platform (Gear Type)



性能特点 Features

- 1.高精度型使用高精度滚珠轴承，故垂直及水平位置精度提高到 $\pm 0.01\text{mm}$ 。High precision balls used in bearing, vertical and horizontal precision are up to $\pm 0.01\text{mm}$.
- 2.回转台型，工件安装方便。Rotational type is easy for installation.
- 3.滚动轴承设计，负载比CRQ系列大3至4倍。Rolling bearing design, load is 3 to 4 times larger than CRQ series.
- 4.摆动顺滑、准确。Rotation is smooth and accurate.
- 5.中空轴可用于引入电线或气管。Hollowed center rods for wire or tube to go through.
- 6.标准带角度调整装置，调节角度范围大。(0~190°) Standard angle adjusting device for wider angle adjustment (0° ~190°).
- 7.内置磁环，可安装磁性开关。With magnet ring for sensor switch application.

订购码 Ordering Code

MSQB	10	A	MT
规格代号 Model	大小代号 Bore	缸径 Type	磁性开磁型号 Sensor
	10 70 20 100 30 200 50	A: 带角度调整螺钉 R: 带液压缓冲器 A: With angle adjusting screw R: With hydraulic Cushion device	无记号: 无磁性开关 Blank: Without sensor *磁性开关型号见磁性开关型号表 *标准线长1M, 特殊另订购 *To choose proper sensor switch, please refer to stroke/ sensor switch chart.

行程/磁性开关型号表

Stroke / Sensor Switch Model

代号 Model	*磁性开关型号(轨道安装) *Sensor Switch Model (For Slide Installation)
10	
20	D-A90L
30	D-A93L
50	D-A96L
70	D-F9NL
100	D-F9BL
200	

规格 Specification

缸径 Bore (mm)	10	20	30	50	70	100	200			
使用流体 Operation Fluid	空气(不给油) Air (Non-lub)									
动作方式 Operation	双作用 Double Acting									
最高使用压力 Max. Operation Pressure	带角度调整螺钉 With angle adjusting screw			1MPa						
	带液压缓冲器 With hydraulicCushion			0.6MPa						
最低使用压力 Min. Operation Pressure	0.1MPa									
环境及流体温度 Ambient and fluid temperature	0~60℃									
缓冲 Cushion	橡胶缓冲(标准)/液压缓冲器(可选) Rubber Buffer (Standard) / Hydraulic Cushion device (Optional)									
允许功能 Function	带角度调整螺钉 With angle adjusting screw			0.007J	0.025J	0.048J	0.081J	0.24J	0.32J	0.56J
	带液压缓冲器 With hydraulicCushion			0.039J	0.116J		0.294J	1.1J	1.6J	2.9J
角度调节范围 Angle adjusting range	0~190°									
最大摆动角度 Max. rotating angle	190°									
稳定摆动时间范围 Steady rotating Time range	带角度调整螺钉 With angle adjusting screw			0.2~1.0s/90°		0.2~1.5s/90°	0.2~2.0s/90°	0.2~2.5s/90°		
	带液压缓冲器 With hydraulicCushion			0.2~0.7s/90°		0.2~1.0s/90°				
缸径 Bore	Φ15	Φ18	Φ21	Φ25	Φ28	Φ32	Φ40			
接管口径 Port Size	M5 x 0.8				Rc1/8					

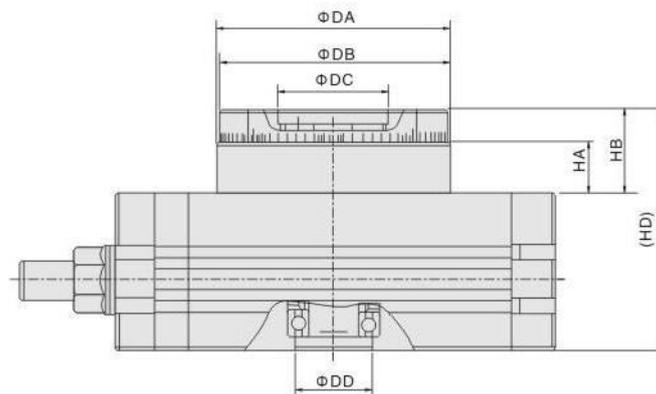
注): 最高使用压力是受液压缓冲器的最大允许负载重限制。
Max. operation pressure is subject to the Max. load of hydraulic Cushion device.

允许负载重 Max. Load

型号 Model	允许径向负载重(N) Max. horizontal load (N)	允许轴向负载重(N) Max. vertical load (N)		允许弯矩(N.m) Max. bending (N.m)
		(a)	(b)	
MSQ□10□	78	74	78	2.4
MSQ□20□	147	137	137	4.0
MSQ□30□	196	197	363	5.3
MSQ□50□	314	296	451	9.7
MSQ□70□	333	296	476	12.0
MSQ□100□	390	493	708	18.0
MSQ□200□	543	740	1009	25.0

● 外形尺寸 Overall Dimension

MSQA



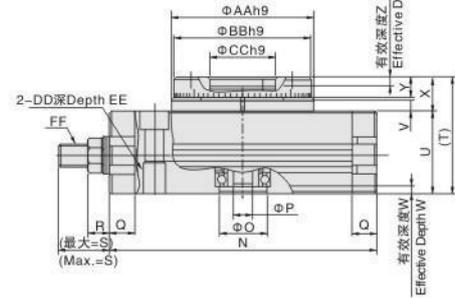
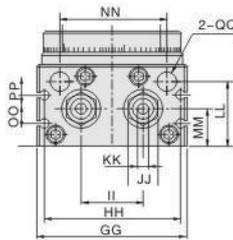
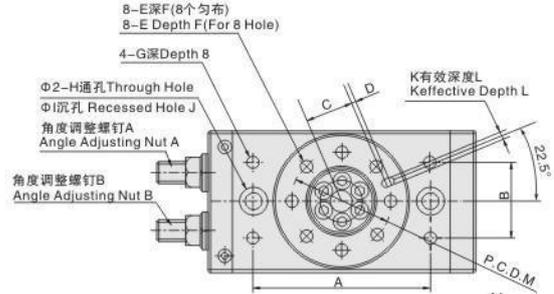
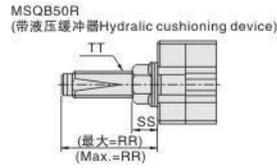
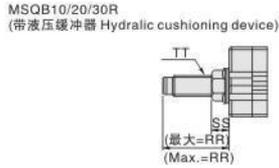
尺寸表 Dimension Sheet

型号 Model	DA	DB	DC	DD	HA	HB	BD
MSQA10□	46h8	45h8	20H8	15H8	10	18.5	52.5
MSQA20□	61h8	60h8	28H8	17H8	15.5	26	63
MSQA30□	67h8	65h8	32H8	22H8	16.5	27	67
MSQA50□	77h8	75h8	35H8	26H8	17.5	30	76

外形尺寸 Overall Dimension

MSQB

Φ10.20.30.50



型号 Model	每转1圈的调整角度* Adjusting angle reached per round*
MSQB10□	约 Aboves 10.2°
MSQB20□	约 Aboves 7.2°
MSQB30□	约 Aboves 6.5°
MSQB50□	约 Aboves 8.2°

指角度调整螺钉或液压缓冲器每转动1圈的情况下
In case of angle adjusting screw or hydraulic cushion twisting one circle.

尺寸表 Dimension Sheet

型号 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
MSQB10□	60	27	15	2	M5×0.8	8	M5×0.8	6.8	11	6.5	3H9	3.5	32	92	15H9	5	9.5	8.6	17.7	47	34	4.5	3	13	8	4
MSQB20□	76	34	20.5	2	M6×1	10	M6×1	8.6	14	8.5	4H9	4.5	43	117	17H9	9	12	10.6	25	54	37	6.5	2.5	17	10	6
MSQB30□	84	37	23	2	M6×1	10	M6×1	8.6	14	8.5	4H9	4.5	48	127	22H9	9	12	10.6	25	57	40	6.5	3	17	10	4.5
MSQB50□	100	50	26.5	2	M8×1.25	12	M8×1.25	10.5	18	10.5	5H9	5.5	55	152	26H9	10	15.5	14	31.4	66	46	7.5	3	20	12	5

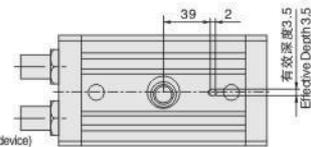
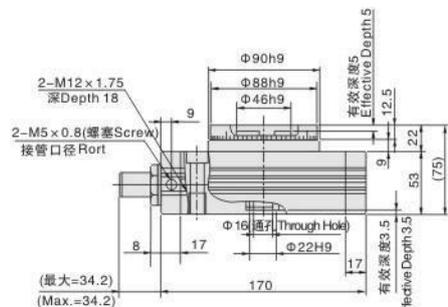
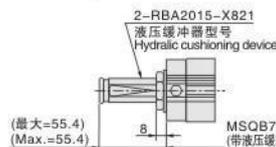
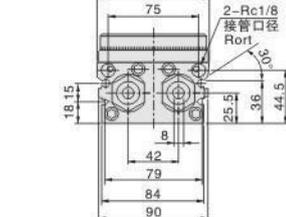
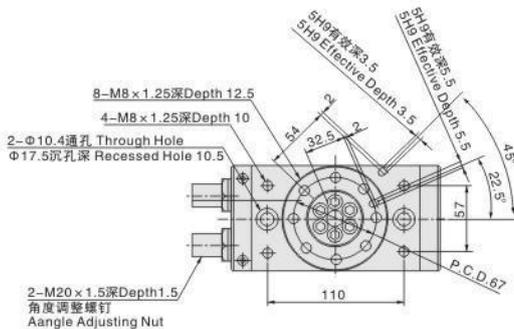
型号 Model	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	液压缓冲器型号 Code of Hydraulic Cushion device
MSQB10□	46	46	20	M8×1.25	12	M8×1	50	45	20	12	4	27.8	15.5	34.5	9	13	M5×0.8	31.5	8.6	M8×1	RBA0805-X692
MSQB20□	61	60	28	M10×1.5	15	M10×1	65	60	27.5	14	5	28.8	16	51	10	12	M5×0.8	34.7	10.6	M10×1	RBA1006-X692
MSQB30□	67	65	32	M10×1.5	15	M10×1	70	65	29	14	5	32	18.5	50	11.5	14	1/8	34.7	10.6	M10×1	RBA1006-X692
MSQB50□	77	75	35	M12×1.75	18	M12×1.5	80	75	38	19	6	37.5	22	63	14.5	15	1/8	51.7	14	M14×1.5	RBA1411-X692

注：最大的尺寸是在摆动角度在最大时(190°)
Max. measurement is at Max. rotation angle (190°)

外形尺寸 Overall Dimension

MSQB

Φ70



MHC□2 系列 气爪(支点开闭型)/标准型 MHC□2 Series Air Gripper(Pivot Open & Closed)/Standard Type

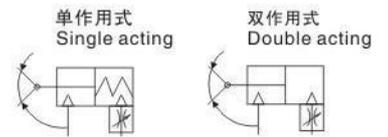


MHC2-16D

订购码 Ordering Code

MHC2 支点开闭型 Angular style air gripper	20 缸径 Bore 10: 10mm 16: 16mm 20: 20mm 25: 25mm	D 动作方式 Action D: 双作用式 S: 单作用式(常开) D: Double acting S: Single acting	Y59A 磁性开关的型号 Auto switch 无记号: 无磁性开关 (内置磁环) Nil: Without auto switch (Built-in magnet)	S 磁性开关个数 Number of auto switches 无记号Nil: 2个 pcs. S: 1个 pcs.
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图形符号 Symbol



磁性开关型号 Switch type

缸径(mm) Bore	磁性开关的型号 Magnetic Switch
Φ6	M9N(V), M9B(V), M9P(V)
Φ10 - Φ25	*在磁性开关型号后面, 附导线长度表示记号 In the back of switch, said mark for wire length
Y59A, Y59B, Y69A, Y69B 无记号No mark-0.5m, L-3m, Z-5m 例Ex.: Y59AL	

规格 Specification

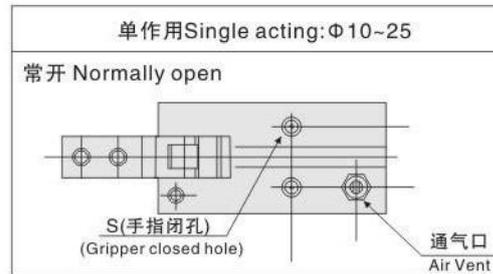
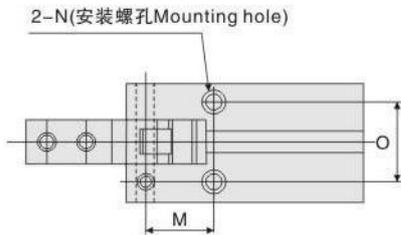
缸径 Bore (mm)		6	7	10	16	20	25
使用流体 Fluid		空气 Air					
使用压力范围(MPa) Operating pressure(Mpa)	单作用式 Single acting	0.3~0.6	0.4~0.6	0.25~0.6			
	双作用式 Double acting	0.15~0.6	0.1~0.6				
环境和流体温度 Ambient and fluid temperature		-10℃~+70℃					
最高使用频率 Max. operating frequency		180c.p.m					
重复精度 Repeat ability (mm)		±0.02			±0.01		
给油 Lubrication		不需要 Not need					

夹持力矩 Holding moment

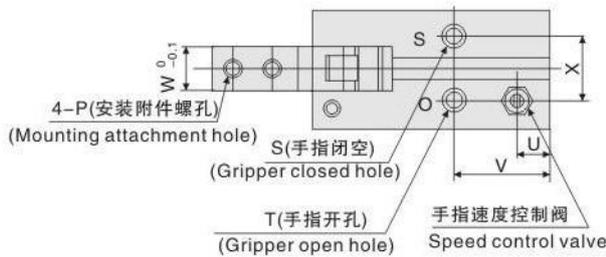
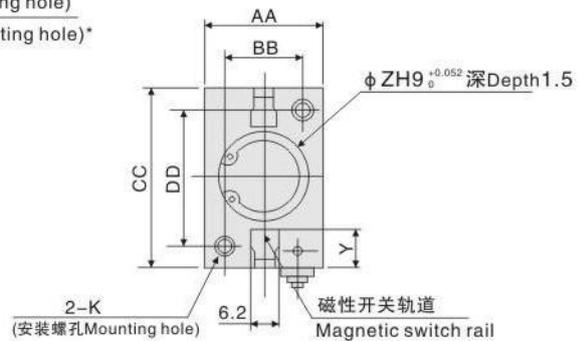
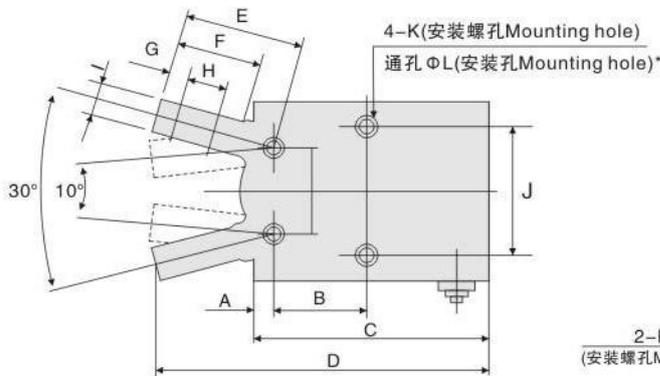
动作方式 Action	型号 Model	缸径Bore size mm	夹持力矩Gripping moment(N · m)	开闭角度(两侧) Opening/closing angle (Both sides)
双作用 Double acting	MHCA2-6D	6	0.038	30° ~-10°
	MHC2-10D	10	0.1	
	MHC2-16D	16	0.39	
	MHC2-20D	20	0.70	
	MHC2-25D	25	1.36	
单作用 Single acting	MHCA2-6S	6	0.024	30° ~-10°
	MHCM2-7S	7	0.017	
	MHC2-10S	10	0.07	30° ~-10°
	MHC2-16S	16	0.31	
	MHC2-20S	20	0.54	
	MHC2-25S	25	1.08	

外形尺寸 Overall Dimension

双作用 Double acting: $\Phi 6\sim\Phi 25$



*如果装上了磁性开关, ΦL 安装孔不能使用。
If installed magnetic switches, L mounting hole can not be used



尺寸表 Dimension Sheet

缸径 Bore (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
6	4	6	29	41	16	11	2.5	5	2	12	M3×0.5通孔 Thru.hole	2.6	-	M2×0.4深 Depth 4	
10	2.8	12.8	38.6	52.4	17.2	12	3	5.7	4	16	M3×0.5深 Depth 5	2.6	8.8	M3×0.5深 Depth 6	
16	3.9	16.2	44.6	62.5	22.6	16	4	7	7	24	M4×0.7深 Depth 8	3.4	10.7	M4×0.7深 Depth 8	
20	4.5	21.7	55.2	78.7	28	20	5.2	9	8	30	M5×0.8深 Depth 10	4.3	15.7	M5×0.8深 Depth 8	
25	4.6	25.8	60.4	92	37.5	27	8	12	10	36	M6深 Depth 12	5.1	19.3	M6深 Depth 10	
缸径 Bore (mm)	O	P	接管口径 Port size		U	V	W	X	Y	Z	AA	BB	CC	DD	EE
			S	T											
6	5	M2×0.4	M3×0.5		-	-	4	2.1	-	7	10	4	20	13.6	14
10	11.4	M2.5×0.45	M3×0.5		7.2	18.8	6.4	10.4	5.4	11	16.4	12	23	18	10
16	16	M3×0.5	M5×0.8		7	18.3	8	13	5.8	17	23.6	15	30.6	22	16
20	18.6	M4×0.7	M5×0.8		7.5	22.2	10	15	9	21	27.6	18	42	32	20
25	22	M5×0.8	M5×0.8		7.7	23.5	12	20	11.5	26	33.6	22	52	40	25

MHY2 系列气动手指(180° 开闭型) MHY2 Series Air Gripper(180 Angular Style)

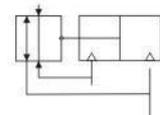


MHY2-16

订购码 Ordering Code

MHY2	20	□
规格代号 Model	缸径 Bore size	安装型式 The installation type
MHY2: 180° 开闭型气动手指 MHY2: Series Air Gripper (Angle 180 Open & Closed)	10: Φ10mm 16: Φ16mm 20: Φ20mm 25: Φ25mm 32: Φ32mm	空白: 螺孔安装型 N: 开闭方向通孔安装型 Blank: Screw mounting type N: Open and closed direction of through-hole mounting type

图形符号 Symbol



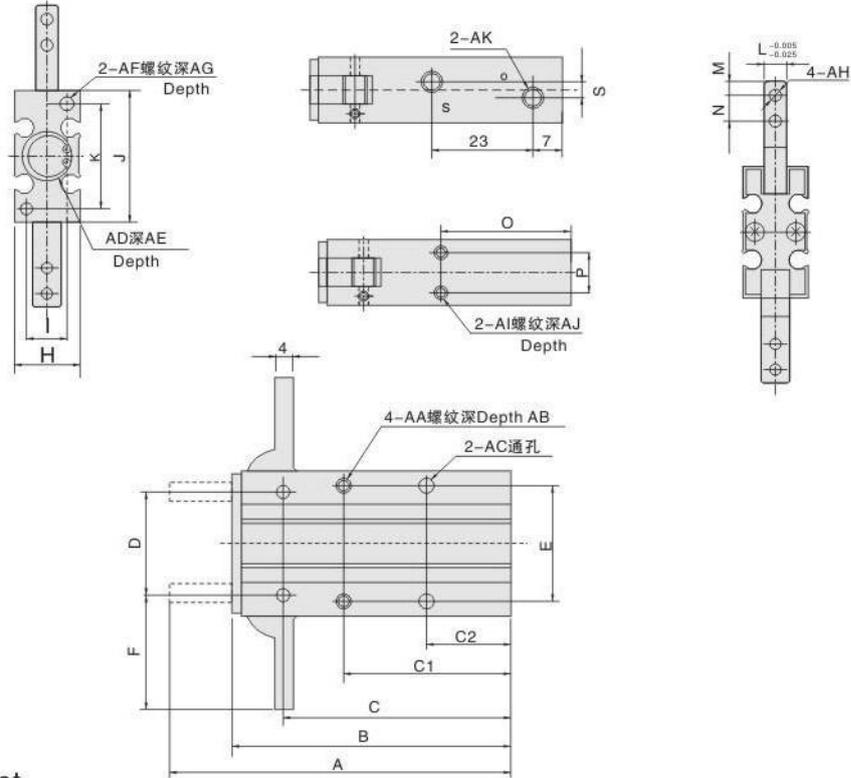
产品特性 Product feature

- ◆ 内置磁环型, 可安装磁性开关。 *180° 开闭式, 简化拾放动作。
- ◆ 可适合特殊环境不使用, 手指开闭部分特别设计, 可防止微小异物进入。
- ◆ 安装方便, 附有定位孔。
- ◆ 所有系列均附磁石, 便于控制。
- ◆ The built-in magnetic ring, magnetic switch can be installed. 180 open and closed, simplify the pick and place oper
- ◆ The built-in magnetic ring, magnetic switch can be installed. 180 open and closed, simplify the pick and place operation
- ◆ It can be stop when in the special environment, because of the special design for gripper opening and closing, it can prevent the tiny foreign into the gripper
- ◆ It have a positioning hole to make the install easiily
- ◆ All series have magnet for control

规格 Specification

内径Bore size(mm)	10	16	20	25	32
动作型式Acting type	复动型、单动型 Double acting Single acting				
工作介质 Fluid	空气(经40 μ m以上滤网过滤) Air(to be filterd by 40m filter element)				
使用压力范围 Operating pressure	0.1~0.7MPa(15~100psi)(1.0~7.0bar)				
工作温度Temperatur℃	-10℃~+70℃				
给油 Lubrication	气缸: 无需给油; 夹爪: 润滑脂 cylinder:Not required; Gripper jaws:Lubricate grease				
缓冲型式Cushion type	防撞垫 Bumper				
最高使用频率 Max.fraquency	60(c.p,m)				
重复精度Repeat ability	± 0.2mm				
夹持力矩Holding moment	0.16N.m	0.55N.m	1.10N.m	2.30N.m	5.20N.m
接管口径Port size	M5 x 0.8				

外形尺寸 Overall Dimension



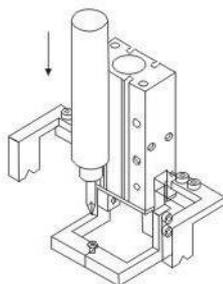
尺寸表 Dimension Sheet

缸径/符号Bore/Symbol	A	B	C	C1	C2	D	E	F	G	H	I	J	K	L	M
10	71	58	47.5	35	18	22	24	23.5	4	15	9	24	30	6	3
16	84	69	55.5	41	20	28	30	28.5	5	20	12	30	38	8	4
20	106	86	69	50	25	36	36	37	8	26	16	38	48	10	5
25	131	107	86	60	30	45	42	45	10	30	18	46	58	12	6
32	158.5	121.7	96.2	64	35	55	46	62.3	12	40	20	46	72	14	9

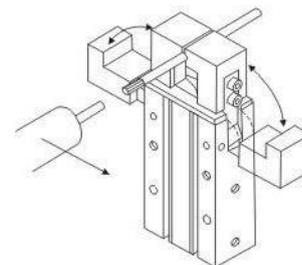
缸径/符号Bore/Symbol	N	O	P	Q	R	S	AA	AB	AC	AD	AE	AF
10	6	30	9	21.5	7	3	M3×0.5	6	Φ3.4	Φ11H9	1.5	M3×0.5
16	7	33	12	23.5	7	8	M4×0.7	8	Φ4.5	Φ17H9	1.5	M4×0.7
20	9	42	14	30.5	8	12	M5×0.8	10	Φ5.5	Φ21H9	1.5	M5×0.8
25	12	50	16	40	8	14	M6×1.0	12	Φ6.6	Φ26H9	1.5	M6×1.0
32	16	59	26	46.8	9.2	18	M6×1.0	14	Φ6.6	Φ34H9	1.5	M6×1.0

缸径/符号Bore/Symbol	AG	AH	AI	AJ	AK
10	6	M3×0.5	M3×0.5	4	M5×0.8
16	8	M3×0.5	M4×0.7	5	M5×0.8
20	10	M4×0.7	M5×0.8	8	M5×0.8
25	12	M5×0.8	M6×1.0	10	M5×0.8
32	14	M6×1.0	M6×1.0	12	M5×0.8

固定螺钉 Fixed screw



夹紧电线 Clamping wire



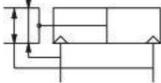
HFZ系列气动手指(带导轨平行型) HFZ Type Series Air Gripper (Parallel style)



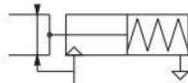
HFZ-16

图形符号 Symbol

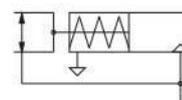
HFZ: 标准复动型
Double acting



HFTZ: 单动常开型
Single acting and normally opened



HFSZ: 单动常闭型
Single acting and normally closed



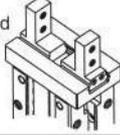
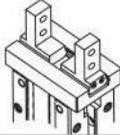
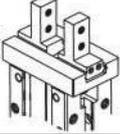
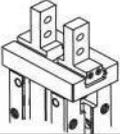
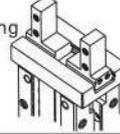
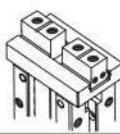
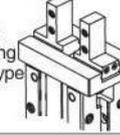
产品特性 Product feature

- ◆采用一体化设计之线性 导轨，高刚性、高精度；
- ◆线性导轨底部附定拉插销，防止导轨与本体偏离；
- ◆本体附带的固定基准心孔更深，提升固定精度，提高重复拆装定位的一致性；
- ◆根据客户实际使用要求，可以定制夹爪初始位置，以满足不同工况条件下的不同需求。
- ◆Integrated design of linear guide rail, high rigidity and high precision.
- ◆A positioning pin is attached to the bottom of the linear guide rail, which can prevent the deviation of the positioning rail and body.
- ◆The hole of the body is deeper, which can improve the precision and the consistency of repeated dismounting and positioning.
- ◆According to the actual using requirements of customers, the initial position of clamping jaw can be customized to meet the different needs under different working conditions.

规格 Specification

内径Bore size(mm)		6	10	16	20	25	32	40
动作型式Acting type		复动型、单动型 Double acting Single acting						
工作介质 Fluid		空气(经40 μm以上滤网过滤) Air(to be filtered by 40m filter element)						
使用压力范围 Operating pressure	复动 Double acting	Φ6、Φ10	0.2~0.7MPa(28~100psi)(2.0~7.0bar)					
		其它Others	0.1~0.7MPa(15~100psi)(1.0~7.0bar)					
	单动 Single acting	Φ6、Φ10	0.35~0.7MPa(50~100psi)(3.0~7.0bar)					
		其它Others	0.25~0.7MPa(36~100psi)(2.5~7.0bar)					
工作温度 Temperature ℃		-10℃~+70℃						
给油Lubrication		不需要 Not required						
重复精度Repeat ability (mm)		±0.03					±0.05	
最高使用频率Max.frequency		180(c.p.m)					60(c.p.m)	
接管口径 Port size		M3×0.5			M5×0.8			

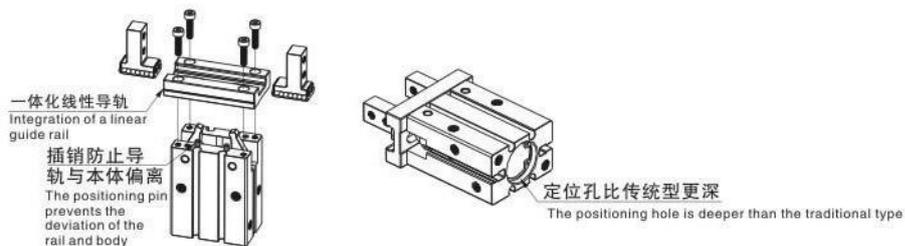
订购码 Ordering Code

HFZ	20	□
<p style="text-align: center;">规格代号 Model</p> <p>HFZ: 标准复动带导轨平行型气动手指</p> <p>HFSZ: 单动常闭带导轨平行型气动手指</p> <p>HFTZ: 单动常开带导轨平行型气动手指</p> <p>HFZ: Standard guide rail parallel with double acting air gripper</p> <p>HFSZ: Single acting normally closed with the parallel guide rail type air gripper</p> <p>HFTZ: Single acting normally open with the parallel guide rail type air gripper</p>	<p style="text-align: center;">缸径 Bore size</p> <p>6: Φ6mm</p> <p>10: Φ10mm</p> <p>16: Φ16mm</p> <p>20: Φ20mm</p> <p>25: Φ25mm</p> <p>32: Φ32mm</p> <p>40: Φ40mm</p>	<p style="text-align: center;">夹爪可选种类 Finger type</p> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%; padding: 5px;"> <p>空白: 标准型 Blank: Standard</p>  </div> <div style="width: 50%; padding: 5px;"> <p>N: 通孔安装型 N: Thru.hole mounting type</p>  </div> <div style="width: 50%; padding: 5px;"> <p>R: 爪宽窄型 R: Narrow type</p>  </div> <div style="width: 50%; padding: 5px;"> <p>M: 通孔安装且爪宽窄型 M: Thru.hole mounting and narrow type</p>  </div> <div style="width: 50%; padding: 5px;"> <p>B: 侧面安装型 B: Side mounting type</p>  </div> <div style="width: 50%; padding: 5px;"> <p>F: 底部安装型 F: Bottom mounting type</p>  </div> <div style="width: 50%; padding: 5px;"> <p>W: 侧面安装且爪宽窄型 W: Side mounting and narrow type</p>  </div> </div>

夹持力与行程 Gripping force and stroke

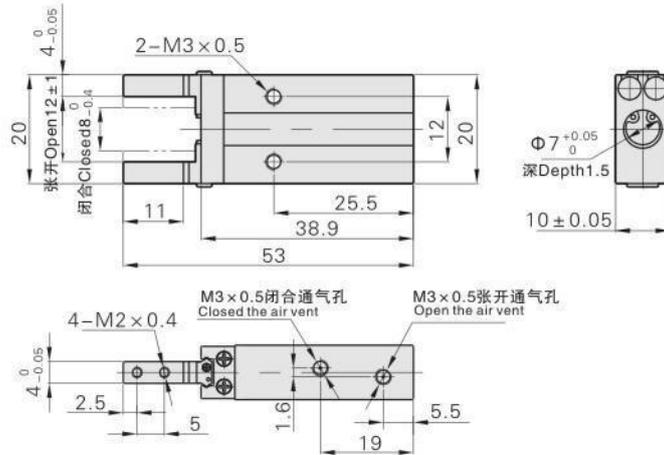
动作方式 Acting	型号 Model	单个气动手指夹持力有效值Gripping force per finger Effective valve(N)		开关行程Opening/Closin stroke (两侧 Both sides)(mm)	重量Weight(g)		
		闭合夹持力 External	张开夹持力 Internal		F型Type	其它Others	
复动型 Double acting	HFZ6	3.3	6.1	4	24	25	
	HFZ10	11	17	4	56	56	
	HFZ16	34	45	6	124	124	
	HFZ20	45	68	10	236	236	
	HFZ25	69	102	14	418	428	
	HFZ32	160	195	22	750	729	
	HFZ40	255	320	30	1340	1268	
单动型 Single acting	HFTZ6	1.9	-	4	25	26	
	HFTZ10	7	-	4	57	57	
	HFTZ16	27	-	6	125	125	
	HFTZ20	35	-	10	238	238	
	HFTZ25	55	-	14	420	430	
	HFTZ32	133	-	22	799	778	
	HFTZ40	220	-	30	1437	1365	
	常开 Normally opened	HFSZ6	-	3.7	4	25	26
		HFSZ11	-	13	4	57	57
		HFSZ16	-	38	6	125	125
		HFSZ20	-	59	10	238	238
		HFSZ25	-	87	14	420	430
		HFSZ32	-	163	22	799	778
		HFSZ40	-	270	30	1437	1365
常闭 Normally closed	HFSZ6	-	3.7	4	25	26	
	HFSZ11	-	13	4	57	57	
	HFSZ16	-	38	6	125	125	
	HFSZ20	-	59	10	238	238	
	HFSZ25	-	87	14	420	430	
	HFSZ32	-	163	22	799	778	
	HFSZ40	-	270	30	1437	1365	

注: 上表中的夹持力是在工作气压为0.5MPa, 夹持点L=20mm状态时的值。
Note: The value of holding force is under the 0.5Mpa working pressure and holding point L=20mm on the above table

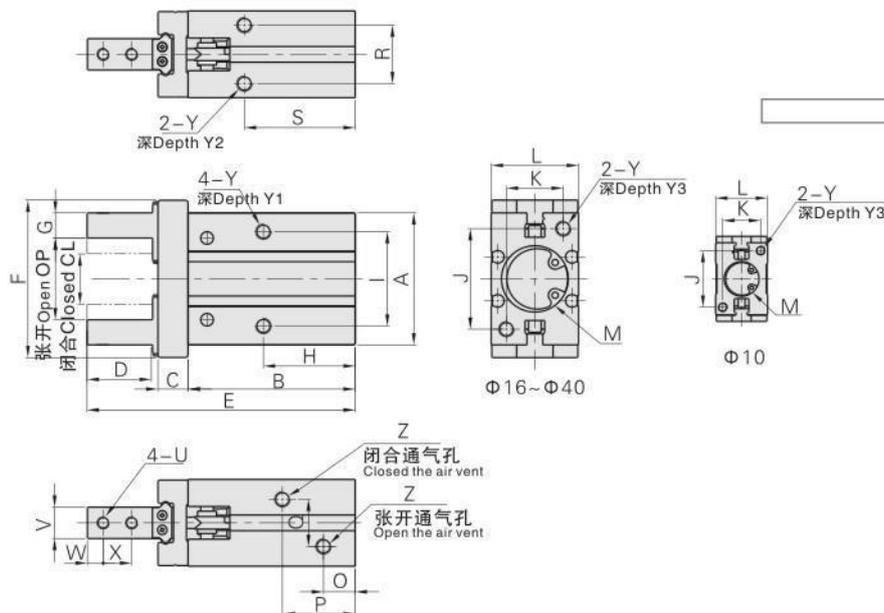


外形尺寸 Overall Dimension

标准型
Standard type
Φ6



Φ10~Φ40



型号/符号 Bore/Symbol	A	B	C	D	E	F	G	H	I	J
HFZ10	23	37.8	6	12	57	29	4 ⁰ _{-0.01}	23	16	18
HFZ16	30.6	42.5	7.5	15	67.3	38	5 ⁰ _{-0.01}	24.5	24	22
HFZ20	42	52.8	9.5	20	84.8	50	8 ⁰ _{-0.01}	29	30	32
HFZ25	52	63.6	11	25	102.7	63	10 ⁰ _{-0.01}	30	36	40
HFZ32	60	67(76)	12	29	113(122)	97	12 ⁰ _{-0.01}	40(49)	46	46
HFZ40	72	83(96)	15	36	139(152)	119	14 ⁰ _{-0.01}	49(62)	56	56

型号/符号 Bore/Symbol	K	L	M	O	P	Q	R	S	U	W
HFZ10	12	16.4	Φ11 ^{+0.05} ₀ 深Depth 2	9	19	10	11.4	27	M2.5×0.45	3
HFZ16	15	23.6	Φ17 ^{+0.05} ₀ 深Depth 2	7.5	19	13	16	30	M3×0.5	4
HFZ20	18	27.6	Φ21 ^{+0.05} ₀ 深Depth 3	10	23	15	18.6	35	M4×0.7	5
HFZ25	22	33.6	Φ21 ^{+0.05} ₀ 深Depth 3.5	10.7	23.5	20	22	36.5	M5×0.8	6
HFZ32	26	40	Φ34 ^{+0.05} ₀ 深Depth 4	11	31(40)	24	26	48(57)	M6×1.0	7
HFZ40	32	48	Φ42 ^{+0.05} ₀ 深Depth 4	12	38(50)	28	32	58(71)	M8×1.25	9

型号/符号 Bore/Symbol	V	X	Y	Y1	Y2	Y3	Z	OP	CL
HFZ10	5 ⁰ _{-0.05}	5.7	M3×0.5	5.5	6	6	M3×0.5	15.2 ^{+0.2} ₀	11.2 ⁰ _{-0.7}
HFZ16	8 ⁰ _{-0.05}	7	M4×0.7	8	4.5	8	M5×0.8	20.9 ^{+0.2} ₀	14.9 ⁰ _{-0.7}
HFZ20	10 ⁰ _{-0.05}	9	M5×0.8	10	8	10	M5×0.8	26.3 ^{+0.2} ₀	16.3 ⁰ _{-0.7}
HFZ25	12 ⁰ _{-0.05}	12	M6×1.0	12	10	12	M5×0.8	33.3 ^{+0.2} ₀	19.3 ⁰ _{-0.8}
HFZ32	15 ⁰ _{-0.05}	14	M6×1.0	13	10	13	M5×0.8	48 ^{+2.5} ₀	26 ⁰ _{-0.5}
HFZ40	18 ⁰ _{-0.05}	17	M8×1.25	16	13	17	M5×0.8	60 ^{+2.5} ₀	30 ⁰ _{-0.5}

HFY系列气动手指(Y型)

HFY Type Series Air Gripper



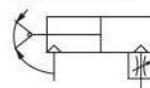
HFY-20

订购码 Ordering Code

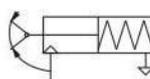
HFY	—	20
规格代号 Model		缸径 Bore size
HFY: 标准复动Y型气动手指		6: Φ 6mm
HFTY: 单动常开Y型气动手指		10: Φ 10mm
HFY: Air finger(Angle style, Double acting)		16: Φ 16mm
HFTY: Air finger(Angle style, Single acting normally opened)		20: Φ 20mm
		25: Φ 25mm
		32: Φ 32mm

图形符号 Symbol

HFY: 标准复动型
Double acting



HFTY: 单动常开型
Single acting and normally opened



规格 Specification

型号 Model		HFY				
动作方式 Acting type		复动型 Double acting				
气缸内径 Tube I.D.(mm)		12	16	20	25	32
配管口径尺寸 Port size		M3×0.5	M5×0.8			
使用流体 Medium		空气 Air				
使用压力范围 Operating pressure range		0.15~0.7MPa				
周围温度 Ambient temperature		-10℃~+70℃(不冻结 No freezing)				
最高动作频率Max.fraquency		180次/分钟 Cycles/min				
给油 Lubrication	气缸 Cylinder	不需要给油 Not required				
	爪片 Lever	要(动作处涂润滑油) Grease(Actuation at)				
最大爪臂长度夹爪开关角度 Max arm length clamp/Release angle		30	40	60	70	85
		-10~+30°				
理论把持力距(M) Theorem moment	闭侧	40×P	90×P	170×P	340×P	610×P
	开侧	50×P	120×P	230×P	440×P	810×P
有效把持力 Clamping force (F)		F=M/L×0.85				
重量 Weight (g)		53	103	193	327	525

产品特性 Product feature

- ◆采用单活塞结构,夹持力矩大;
- ◆合理的夹持角度,实际使用范围宽广;
- ◆精准的定位精度,夹取工件时更加准确可靠;
- ◆多种型式的安装方式,方便不同场合的使用;
- ◆所有系列均附磁石,便于控制。
- ◆Using a single piston structure,large gripping torque.
- ◆Reasonable gripping angle,wide range of actual use.
- ◆Precise positioning accuracy,it is more accurate and reliable when gripping work-piece.
- ◆Various types of installation,it is convenient for the use in different occasions.
- ◆All series are attached with magnet so that it is easy to control.

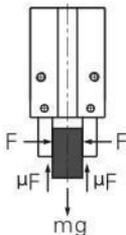
理论夹持力矩 Gripping force and stroke

作用方式 Acting	型号Model	理论夹持力矩 Theoretical gripping torque(N · cm)		最大夹取点长度 Max.length of gripping point (L)(mm)	张开角度 Opening angle	闭合角度 Closing angle
		闭合夹持力矩 Closed	张开夹持力矩 Openes			
复动型 Double acting	HFY6	7.4 × P	10.6 × P	30	30 ⁺³ ₀	-10 ⁰ ₋₃
	HFY10	17.6 × P	29.4 × P	30		
	HFY16	90 × P	129 × P	40		
	HFY20	152 × P	252 × P	60		
	HFY25	304 × P	473 × P	70		
	HFY32	637 × P	904 × P	85		
单动常闭型 Single acting Normally opened	HFTY6	5.7 × P	-	30		
	HFTY10	11.8 × P	-	30		
	HFTY16	71.2 × P	-	40		
	HFTY20	122.4 × P	-	60		
	HFTY25	252 × P	-	70		
	HFTY32	589 × P	-	85		

夹持力与夹持点的选定

夹持力的选定请根据以下方法确定夹持力的大小。

The selection of gripping force Please determine the gripping force caccording to the below methods.



如图所示夹持工件,在普通搬运状态所产生的冲击状况下,取安全系数a=4时,夹持力为被夹持对象质量的10~20倍以上。

The gripping work-pieces shown above,on the impact condition of ordinary handling state,taking safety coefficient a=4,have a gripping force that is more than 10~20 times of the mass of the gripped objects.

注:当摩擦系数 $\mu > 0.2$ 时,为了安全,也请按被夹持对象质量的10~20倍的原则选定夹持力;对于大加速度与冲击而言,必需预留更大的安全系数。

Note)If the friction coefficient $\mu > 0.2$,for safety,please also select clamping force according to the principle of 10~20 times of the mass of the clamped objects,As for large acceleration and shock,it requires higher safety coefficient.

如左图所示夹持工件时:
The work-pieces as shown in the left:

F: 夹持力Gripping force(N)

μ : 配件与工件之间摩擦系数
fiction coefficient between fittings and work-pieces.

m: 工件质量
mass of work-pieces

g: 重力加速度(=9.8m/s²)
acceleration of gravity(=9.8m/s²)

工件不掉落的条件为:
The condition that the work-pieces

$$2 \times \mu F > mg$$

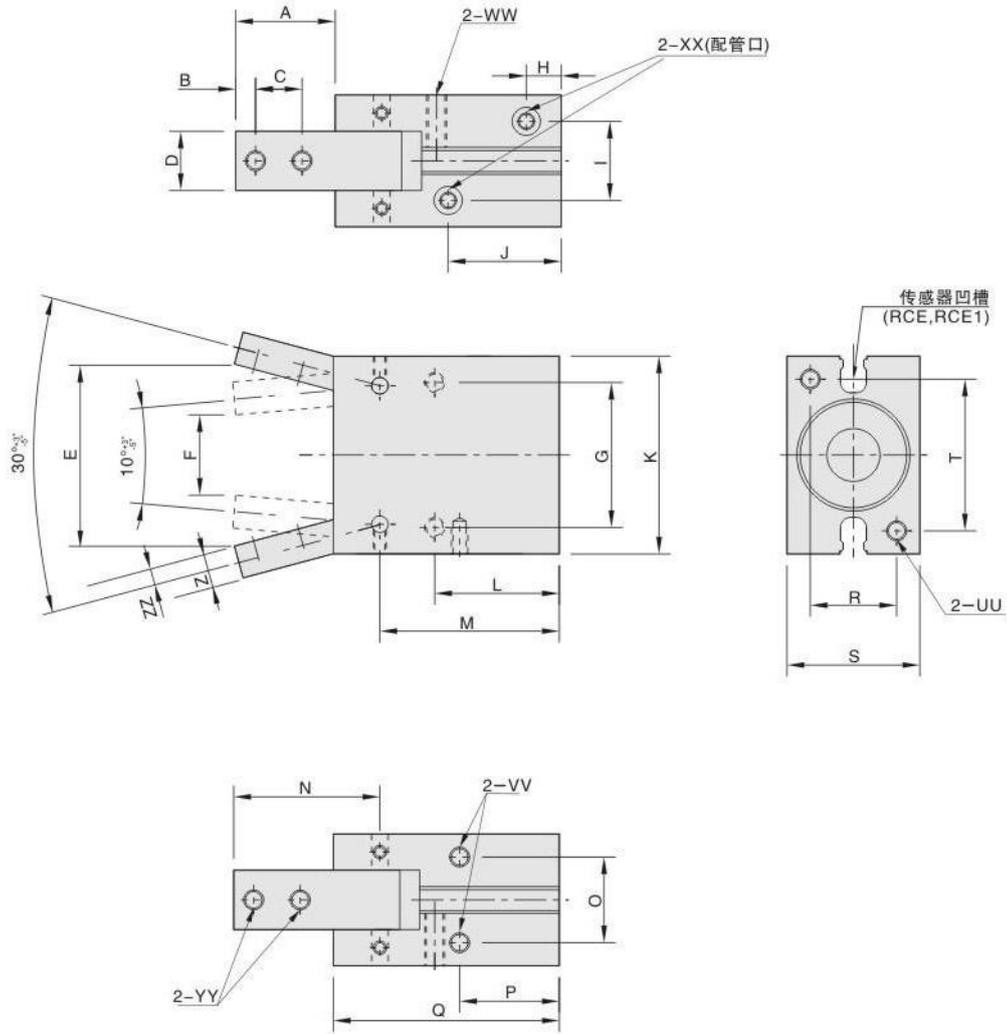
$$\text{即so: } F > \frac{mg}{2 \times \mu}$$

安全系数为a,因此F为:
Safety coefficient is a so F is:

$$F = \frac{mg}{2 \times \mu} \times a$$

$\mu = 0.2$ 时 $F = \frac{mg}{2 \times 0.2} \times 4$ $= 10 \times mg$	$\mu = 0.1$ 时 $F = \frac{mg}{2 \times 0.1} \times 4$ $= 20 \times mg$
被夹持对象 质量的10倍 10 times of the mass of the gripped objects	被夹持对象 质量的20倍 20 times of the mass of the gripped objects

外形尺寸 Overall Dimension



尺寸表 Dimension Sheet

代号\内径 Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
12	15.4	3	6	7	26.3	9	20	7.5	10.2	23	28	20	32.9	21.5	10.2	16
16	17.5	3	8	9	31.1	14	24	7.5	12	22	34	22.5	35	25	14	18
20	22	4	10	12	40.1	18	30	8.0	13	25	45	25	39.5	32.5	16	19
25	26	5	12	14	47.9	21	36	8.5	18	28	52	28.5	45.5	38.5	20	21.5
32	30	6	14	18	55.1	24	44	10.5	24	34	60	37.5	54	44	26	30

代号\内径 Bore/Symbol	Q	R	S	T	UU	VV	WW	XX	YY	Z	ZZ
12	39	10	16	22	M3×5深Depth	M3×5深Depth	M3×8深Depth	M3×5深Depth	M3	5	2.5
16	42.5	14	22	26	M4×7深Depth	M4×7深Depth	M4×11深Depth	M5×5深Depth	M3	6	3
20	50	16	26	35	M5×8深Depth	M5×8深Depth	M5×12深Depth	M5×5深Depth	M4	7	3.5
25	58	20	32	40	M6×10深Depth	M6×8深Depth	M6×16深Depth	M5×5深Depth	M5	9	4
32	68	26	40	46	M6×10深Depth	M6×8深Depth	M6×20深Depth	M5×5深Depth	M6	10	5

CY1B(S) 系列磁偶式无杆气缸 CY1B(S)Rodness Cylinder



CY1B15-200

● 订购码 Ordering Code

CY1B	—	25	—	50
型号 Model		缸径 Bore size		行程 Stroke
		6: Φ6mm	10: Φ10mm	
		16: Φ16mm	20: Φ20mm	
		25: Φ25mm	32: Φ32mm	
		40: Φ40mm	50: Φ50mm	
		63: Φ63mm		

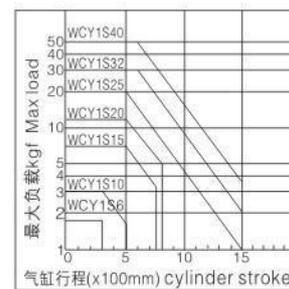
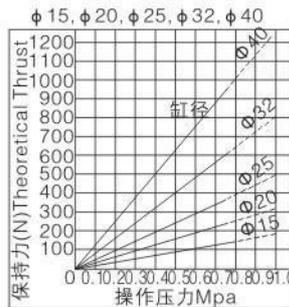
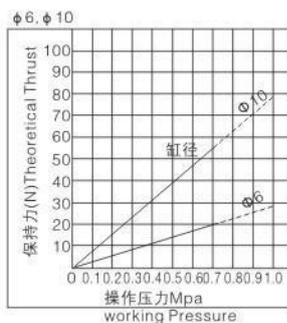
规格 Specification

缸径 Bore (mm)	6	10	15	20	25	32	40
工作介质 Working Fluid	空气 Air						
动作型式 Action	双动 Double action						
耐压 Proof Pressure	1.05MPa(10.5kgf/cm ²)						
工作压力 Working Pressure	0.7MPa(7.1kgf/cm ²)						
最低工作压力 Min working pressure	0.18MPa(1.8kgf/cm ²)						
工作温度 Working temperature	0~60℃						
工作速度 Working speed	50~400℃						
*缓冲 Cushion	两端橡胶缓冲 Roubber bumper on both ends						
行程公差 Lubrication	0~250: ^{+0.1} ₀		251~1000: ^{+1.4} ₀		1001~: ^{+1.4} ₀		
*润滑 Lubrication	不需要 No need						
接管口径 Rc(PT)Port size	M5×0.8			Rc(PT)1/8		Rc(PT)1/8	

*可选择油压吸震器(只限滑尺型—CY1S)。Hydraulic shock absorber is available
*如需要润滑, 请用透平1号油ISOVG32。If need, suggest NO1ISOYG32 cubrication

气缸理论出力及磁耦保持力 Theoretical Cylinder Thrust

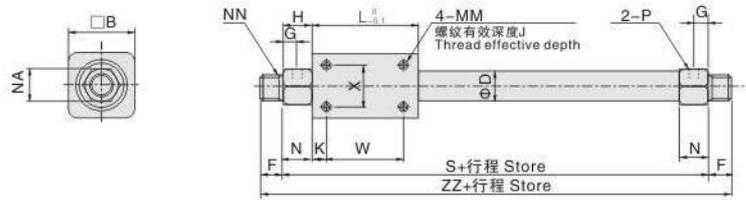
缸径(mm) Bore	型式 Type	保持力(N) Theoretical Thrust	磁耦保持力相应的压力(Mpa) Relevant Pressure	行程中间停止时的最大操作压力(Mpa) Max pressure when stop in the stroke
Φ6	CY1□6H	19.6	0.7	0.55
Φ10	CY1□10H	53.9	0.7	0.55
Φ15	CY1□15H	137.3	0.79	0.65
Φ20	CY1□20H	231	0.76	0.65
Φ25	CY1□25H	362.8	0.75	0.65
Φ32	CY1□32H	588.4	0.74	0.65
Φ40	CY1□40H	921.8	0.75	0.65



外形尺寸 Overall Dimension

基本型 Basic

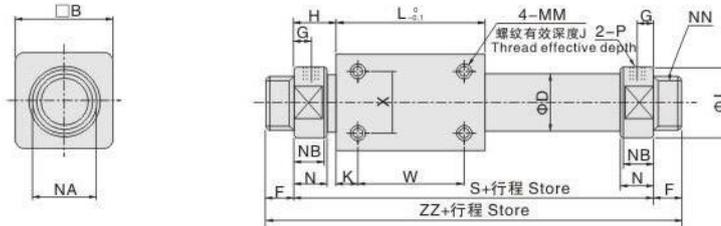
CY1B · 10 · 15



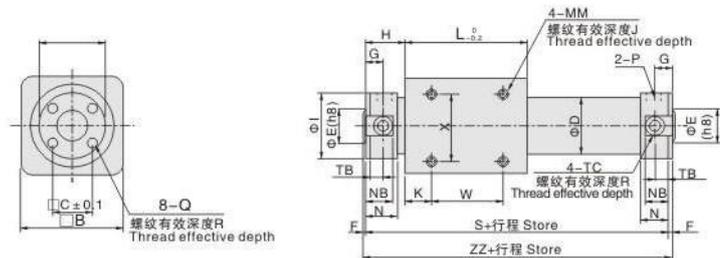
型号 Model	行程范围 Stroke Part	供气口P	ΦD	□B	F	G	H	K	L	N	NA	MM×J	NN	S	W	X	ZZ
CY1B6	~300	M5×0.8	7.6	17	9	5	14	5	35	10	14	M3×0.5×4.5	M10×1.0	63	25	10	81
CY1B10	~500	M5×0.8	12	25	9	5	12.5	4	38	11	14	M3×0.5×4.5	M10×1.0	63	30	16	81
CY1B15	~1000	M5×0.8	17	35	10	5.5	13	11	57	11	17	M4×0.7×6	M10×1.0	83	35	19	103

外形尺寸 Overall Dimension

CY1B · 20 · 25 · 32 · 40



CY1B · 50 · 63

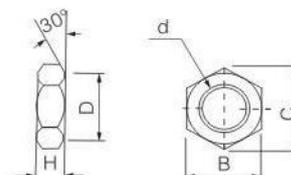


型号 Model	行程范围 Stroke Part	供气口P	□B	□C	ΦD	ΦE(h8)	F	G	H	I	K	L	MM×J
CY1B20	~2000	1/8	36	-	22.8	-	13	8	20	28	8	66	M4×0.7×0.6
CY1B25	~2000	1/8	46	-	27.8	-	13	8	20.5	34	10	70	M5×0.8×8
CY1B32	~2000	1/8	60	-	35	-	16	9	22	40	15	80	M6×1.0×8
CY1B40	~2000	1/4	70	-	43	-	16	11	29	50	16	92	M6×1.0×10
CY1B50	~2000	1/4	86	32	53	30-0.033	22	14	33	58.2	25	110	M8×1.25×12
CY1B63	~2000	1/4	100	38	66	32-0.039	22	14	33	72.2	26	122	M8×1.25×12

型号 Model	N	NA	NB	NN	Q×R	S	TB	TC×R	W	X	ZZ
CY1B20	15	24	13	M20×1.5	-	106	-	-	50	25	132
CY1B25	15	30	13	M26×1.5	-	111	-	-	50	30	137
CY1B32	17	36	15	M26×1.5	-	124	-	-	50	40	156
CY1B40	21	46	19	M32×2.0	-	150	-	-	60	40	182
CY1B50	25	55	23	-	M8×1.25×16	176	14	M12×1.25×7.5	60	60	180
CY1B63	25	69	23	-	M10×1.5×16	188	14	M14×1.5×11.5	70	70	192

安装螺母 Mounting nut

型号 Model	适用缸径 Bore	d	H	B	C	D
CY1B20	Φ6, Φ10, Φ15	M10×1.0	3	14	16.2	14
CY1B25	Φ20	M20×1.5	9	26	30	25
CY1B32	Φ25, Φ32	M26×1.5	8	32	37	31
CY1B40	Φ40	M32×2.0	11	41	47.3	39



气缸套件 Assembly Kits For Pneumatic Cylinder

DNC方形管/Square Aluminum Tube



规格 Specification

缸径/Bore Size:
Φ32, Φ40, Φ50,
Φ63, Φ80, Φ100, Φ125

SI米字形管/Mickey mouse Aluminum Tube



规格 Specification

缸径/Bore Size:
Φ32, Φ40, Φ50,
Φ63, Φ80, Φ100,
Φ125, Φ160, Φ200

SC, MAL圆形管/Round Aluminum Tube



规格 Specification

缸径/Bore Size:
Φ32, Φ40, Φ50,
Φ63, Φ80, Φ100, Φ125
Φ160, Φ200, Φ250, Φ320

活塞杆/Piston rod



规格 Specification

缸径/Bore Size:
Φ6, 8, 10, 12, 16, 20, 25,
32, 40, 45, 50, 60, 70等/etc.

我们公司可以根据客户的要求提供不同直径的活塞杆，包括不锈钢材质。
Our company can provide different diameters piston rods including stainless steel material's according to customers requirement.

开关型号编码说明使用说明及注意事项

● 订购码 Ordering Code

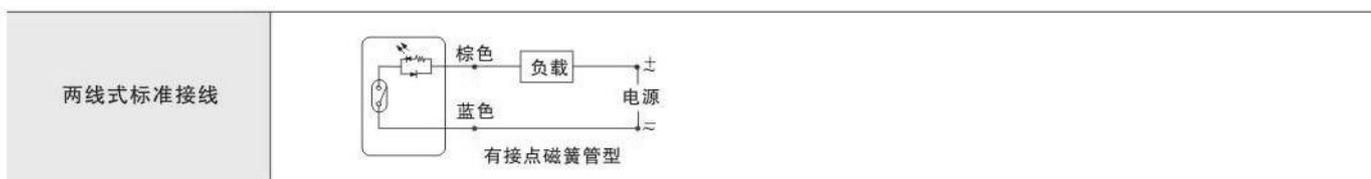


无标示:电线长度为1M(标准长度)
02:电线长度为2M

05:电线长度为5M
QD8: M8快速接头(标准线长为015M)
无标示:标准规格常开型(N. O)
A:300mA
B:常闭型(N. C)
F:无接点FET电流输出
H:高感度
L:低感度
X:无标示灯(大电流输出)
R:有接点三极管NPN输出
P:无接点三极管NPN输出
Rd:三线式两用磁簧管型(NPN/PNP)
01
03
:
HT:耐高温

请一定要注意! 在使用磁感应开关时, 不可超过产品的各项参数规格限制

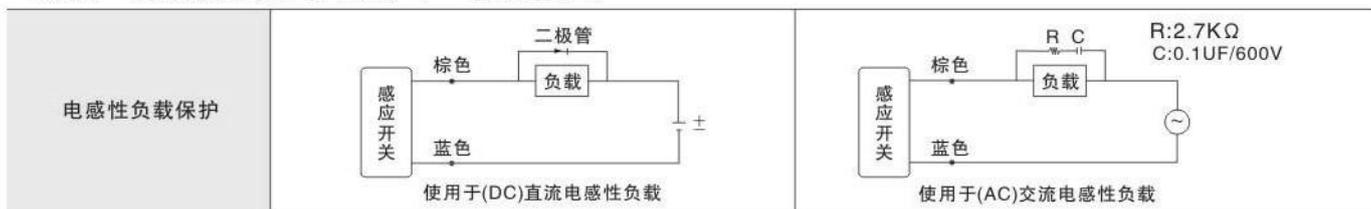
- 在使用二线式的感应开关时, 一定要接负载(LOAD)后, 才可以正常使用, 否则导致感应开关烧坏。
- 在使用(DC)直流电源时, 棕色线要接在正电位(+), 蓝色线接在负电位上(-), 否则感应开关的指示灯不亮。但感应开关仍可以正常工作。若有上述的情形时, 并不会损坏开关, 只要将开关的两条接线对调, 指示灯即可从正常工作。



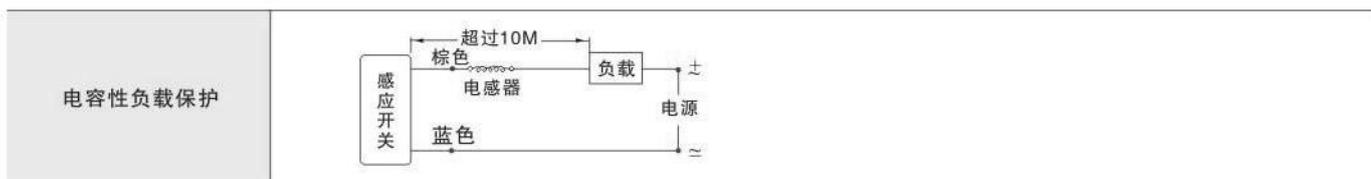
- 在使用三线式的无触点型式开关时, 一定要使用(DC)直流电源, 并注意接线方式。
- 棕色线要接在高电位(+), 蓝色线要接在低电位(-), 黑色线串接在负载上。
- 黑色线一定要串接负载后, 才可以。黑色线若接到电源时, 有可能会。导致感应开关损坏。



- 在使用负载为感性负载(如继电器、电磁阀)时, 请在负载端并接保护元件, 如此可延长感应开关的寿命。
- 若接到直流(DC)直流感性负载时, 请并接一个二极管在负载上(方向如下图), 且二极管的反向崩溃电压大于电源电压。
- 若接到(AC)交流电感性负载时, 请并接一个R-C回路在负载上。



- 使用负载为电容性负载时, 或电线长度超过10M时, 请在尽量靠近开关处, 串接一个电感(470uH~4000uH), 如此可延长感应开关的寿命。



- 使用磁感应开关时, 应尽量远离强磁场或周边有导磁金属的环境, 以避免干扰。

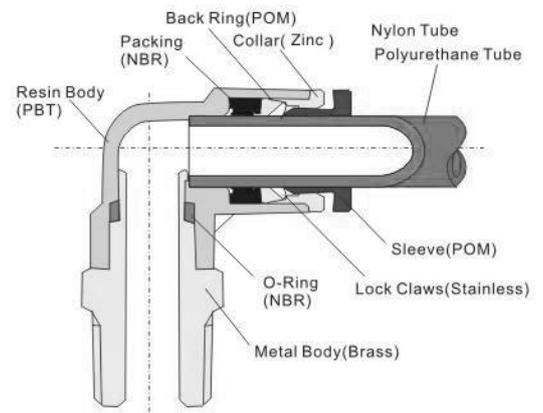
Features

- Convenient One touch fittings provide instant tubing connections
- Elliptical release ring facilitates pneumatic installations in confined spaces
- Light manual pressure on the elliptical release ring is all that is required to instantly disconnect each tube no special tools required.
- Nickel-plated brass threaded bodies ensures anti-corrosion and anti-contamination.
- All NPT & R(BSPT) thread are pre-coated with Teflon sealant and require no additional sealing.
- Most all are models available in inch and metric size.

Specifications

Fluid Type	Air (No other types of gases or liquids)	
Working Pressure Range	0~150PSI	0~9.9kgf/cm ² (0~990KPa)
Negative Pressure	-29.5 in Hg	-750mm Hg(10 Torr)
Working Temperature	32~140°F	0-60°C
Recommended tube material	Nylon Or Polyurethane	

Construction



Products Code System



- ① Model type
- ② Tube outer dia

	METRIC SIZE							INCH SIZE						
Code	04	06	08	10	12	14	16	1/8	5/32	3/16	1/4	5/16	3/8	1/2
Dia.	4mm	6mm	8mm	10mm	12mm	14mm	16mm	1/8inch	5/32inch	3/16inch	1/4inch	5/16inch	3/8inch	1/2inch

③ Thread Size

	METRIC SIZE									
Code	M5	M6	M8	M10	M12	M12A	M14	M16	M20	
Dia.	M5X0.8	M6X1	M8X1	M10X1	M12X1.25	M12X1.5	M14X1.5	M16X1.5	M20X1.5	

	55° Taper Pipe Thread (BSPT)					G-Thread(BSPP)			
Code	01	02	03	04	06	G01	G02	G03	G04
Dia.	R1/8	R1/4	R3/8	R1/2	R3/4	G1/8	G1/4	G3/8	G1/2

	American Standard Taper Pipe Thread (NPT)						
Code	U10	N00	N01	N02	N03	N04	N06
Dia.	10-32UNF	NPT1/16	NPT1/8	NPT1/4	NPT3/8	NPT1/2	NPT3/4



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PC04-M5	PC08-04	PC1/8-01	PC5/16-04	PC1/8-U10	PC1/4-N03
PC04-M6	PC10-01	PC1/8-02	PC3/8-01	PC1/8-N01	PC5/16-N01
PC04-01	PC10-02	PC5/32-01	PC3/8-02	PC1/8-N02	PC5/16-N02
PC04-02	PC10-03	PC5/32-02	PC3/8-03	PC5/32-U10	PC5/16-N03
PC04-03	PC10-04	PC3/16-01	PC3/8-04	PC5/32-N01	PC3/8-N01
PC06-M5	PC12-01	PC3/16-02	PC1/2-02	PC5/32-N02	PC3/8-N02
PC06-M6	PC12-02	PC3/16-03	PC1/2-03	PC3/16-U10	PC3/8-N03
PC06-01	PC12-03	PC1/4-01	PC1/2-04	PC3/16-N01	PC3/8-N04
PC06-02	PC12-04	PC1/4-02		PC3/16-N02	PC1/2-N02
PC06-03	PC14-03	PC1/4-03		PC3/16-N03	PC1/2-N03
PC08-01	PC14-04	PC5/16-01		PC1/4-U10	PC1/2-N04
PC08-02	PC16-03	PC5/16-02		PC1/4-N01	
PC08-03	PC16-04	PC5/16-03		PC1/4-N02	



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
POC04-M5	POC08-04	POC1/8-01	POC5/16-04	POC1/8-U10	POC1/4-N03
POC04-M6	POC10-01	POC1/8-02	POC3/8-01	POC1/8-N01	POC5/16-N01
POC04-01	POC10-02	POC5/32-01	POC3/8-02	POC1/8-N02	POC5/16-N02
POC04-02	POC10-03	POC5/32-02	POC3/8-03	POC5/32-U10	POC5/16-N03
POC04-03	POC10-04	POC3/16-01	POC3/8-04	POC5/32-N01	POC3/8-N01
POC06-M5	POC12-01	POC3/16-02	POC1/2-02	POC5/32-N02	POC3/8-N02
POC06-M6	POC12-02	POC3/16-03	POC1/2-03	POC3/16-U10	POC3/8-N03
POC06-01	POC12-03	POC1/4-01	POC1/2-04	POC3/16-N01	POC3/8-N04
POC06-02	POC12-04	POC1/4-02		POC3/16-N02	POC1/2-N02
POC06-03	POC14-03	POC1/4-03		POC3/16-N03	POC1/2-N03
POC08-01	POC14-04	POC5/16-01		POC1/4-U10	POC1/2-N04
POC08-02	POC16-03	POC5/16-02		POC1/4-N01	
POC08-03	POC16-04	POC5/16-03		POC1/4-N02	



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PCF04-01	PCF10-04	PCF1/8-01	PCF5/16-04	PCF1/8-N01	PCF5/16-N04
PCF04-02	PCF12-01	PCF1/8-02	PCF3/8-01	PCF1/8-N02	PCF3/8-N01
PCF04-03	PCF12-02	PCF5/32-01	PCF3/8-02	PCF3/8-N01	PCF3/8-N02
PCF06-01	PCF12-03	PCF5/32-02	PCF3/8-03	PCF5/32-N02	PCF3/8-N03
PCF06-02	PCF12-04	PCF3/16-01	PCF3/8-04	PCF3/16-N01	PCF3/8-N04
PCF06-03	PCF14-03	PCF3/16-02	PCF1/2-02	PCF3/16-N02	PCF1/2-N02
PCF08-01	PCF14-04	PCF3/16-03	PCF1/2-03	PCF3/16-N03	PCF1/2-N03
PCF08-02	PCF16-03	PCF1/4-01	PCF1/2-04	PCF1/4-N01	PCF1/2-N04
PCF08-03	PCF16-04	PCF1/4-02		PCF1/4-N02	
PCF08-04		PCF1/4-03		PCF1/4-N03	
PCF10-01		PCF5/16-01		PCF5/16-N01	
PCF10-02		PCF5/16-02		PCF5/16-N02	
PCF10-03		PCF5/16-03		PCF5/16-N03	



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PL04-M5	PL08-04	PL1/8-01	PL5/16-04	PL1/8-U10	PL1/4-N03
PL04-M6	PL10-01	PL1/8-02	PL3/8-01	PL1/8-N01	PL5/16-N01
PL04-01	PL10-02	PL5/32-01	PL3/8-02	PL1/8-N02	PL5/16-N02
PL04-02	PL10-03	PL5/32-02	PL3/8-0	PL5/32-U10	PL5/16-N03
PL04-03	PL10-04	PL3/16-01		PL5/32-N01	PL3/8-N01
PL06-M5	PL12-01	PL3/16-02		PL5/32-N02	PL3/8-N02
PL06-M6	PL12-02	PL3/16-03		PL3/16-U10	PL3/8-N03
PL06-01	PL12-03	PL1/4-01		PL3/16-N01	PL3/8-N04
PL06-02	PL12-04	PL1/4-02		PL3/16-N02	PL1/2-N02
PL06-03	PL14-03	PL1/4-03		PL3/16-N03	PL1/2-N03
PL08-01	PL14-04	PL5/16-01		PL1/4-U10	PL1/2-N04
PL08-02	PL16-03	PL5/16-02		PL1/4-N01	
PL08-03	PL16-04	PL5/16-03		PL1/4-N02	



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PLF04-01	PLF10-04	PLF1/8-01	PLF5/16-04	PLF1/8-N01	PLF5/16-N04
PLF04-02	PLF12-01	PLF1/8-02	PLF3/8-01	PLF1/8-N02	PLF3/8-N01
PLF04-03	PLF12-02	PLF5/32-01	PLF3/8-02	PLF5/32-N01	PLF3/8-N02
PLF06-01	PLF12-03	PLF5/32-02	PLF3/8-03	PLF5/32-N02	PLF3/8-N03
PLF06-02	PLF12-04	PLF3/16-01	PLF3/8-04	PLF3/16-N01	PLF3/8-N04
PLF06-03	PLF14-03	PLF3/16-02	PLF1/2-02	PLF3/16-N02	PLF1/2-N02
PLF08-01	PLF14-04	PLF3/16-03	PLF1/2-03	PLF3/16-N03	PLF1/2-N03
PLF08-02	PLF16-03	PLF1/4-01	PLF1/2-04	PLF1/4-N01	PLF1/2-N04
PLF08-03	PLF16-04	PLF1/4-02		PLF1/4-N02	
PLF08-04		PLF1/4-03		PLF1/4-N03	
PLF10-01		PLF5/16-01		PLF5/16-N01	
PLF10-02		PLF5/16-02		PLF5/16-N02	
PLF10-03		PLF5/16-03		PLF5/16-N03	

MALE 45° ELBOW



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PLH04-M5	PLH08-03	PLH1/8-01	PLH3/8-02	PLH1/8-U10	PLH5/16-N03
PLH04-M6	PLH08-04	PLH1/8-02	PLH3/8-03	PLH1/8-N01	PLH3/8-N01
PLH04-01	PLH10-01	PLH5/32-01	PLH3/8-04	PLH1/8-N02	PLH3/8-N02
PLH04-02	PLH10-02	PLH5/32-02	PLH1/2-02	PLH5/32-U10	PLH3/8-N03
PLH04-03	PLH10-03	PLH1/4-01	PLH1/2-03	PLH5/32-N01	PLH3/8-N04
PLH06-M5	PLH10-04	PLH1/4-02	PLH1/2-04	PLH5/32-N02	PLH1/2-N02
PLH06-M6	PLH12-01	PLH1/4-03		PLH1/4-U10	PLH1/2-N03
PLH06-01	PLH12-02	PLH5/16-01		PLH1/4-N01	PLH1/2-N04
PLH06-02	PLH12-03	PLH5/16-02		PLH1/4-N02	
PLH06-03	PLH12-04	PLH5/16-03		PLH1/4-N03	
PLH08-01		PLH5/16-04		PLH5/16-N01	
PLH08-02		PLH3/8-01		PLH5/16-N02	

EXTENDED MALE ELBOW



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PLL04-M5	PLL08-04	PLL1/8-01	PLL5/16-04	PLL1/8-U10	PLL1/4-N03
PLL04-M6	PLL10-01	PLL1/8-02	PLL3/8-01	PLL1/8-N01	PLL5/16-N01
PLL04-01	PLL10-02	PLL5/32-01	PLL3/8-02	PLL1/8-N02	PLL5/16-N02
PLL04-02	PLL10-03	PLL5/32-02	PLL3/8-03	PLL5/32-U10	PLL5/16-N03
PLL04-03	PLL10-04	PLL3/16-01	PLL3/8-04	PLL5/32-N01	PLL3/8-N01
PLL06-M5	PLL12-01	PLL3/16-02	PLL1/2-02	PLL5/32-N02	PLL3/8-N02
PLL06-M6	PLL12-02	PLL3/16-03	PLL1/2-03	PLL3/16-U10	PLL3/8-N03
PLL06-01	PLL12-03	PLL1/4-01	PLL1/2-04	PLL3/16-N01	PLL3/8-N04
PLL06-02	PLL12-04	PLL1/4-02		PLL3/16-N02	PLL1/2-N02
PLL06-03	PLL14-03	PLL1/4-03		PLL3/16-N03	PLL1/2-N03
PLL08-01	PLL14-04	PLL5/16-01		PLL1/4-U10	PLL1/2-N04
PLL08-02	PLL16-03	PLL5/16-02		PLL1/4-N01	
PLL08-03	PLL16-04	PLL5/16-03		PLL1/4-N02	

MALE BRANCH TEE



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PT04-M5	PT08-04	PT1/8-01	PT5/16-04	PT1/8-U10	PT1/4-N03
PT04-M6	PT10-01	PT1/8-02	PT3/8-01	PT1/8-N01	PT5/16-N01
PT04-01	PT10-02	PT5/32-01	PT3/8-02	PT1/8-N02	PT5/16-N02
PT04-02	PT10-03	PT5/32-02	PT3/8-03	PT5/32-U10	PT5/16-N03
PT04-03	PT10-04	PT3/16-01	PT3/8-04	PT5/32-N01	PT3/8-N01
PT06-M5	PT12-01	PT3/16-02	PT1/2-02	PT5/32-N02	PT3/8-N02
PT06-M6	PT12-02	PT3/16-03	PT1/2-03	PT3/16-U10	PT3/8-N03
PT06-01	PT12-03	PT1/4-01	PT1/2-04	PT3/16-N01	PT3/8-N04
PT06-02	PT12-04	PT1/4-02		PT3/16-N02	PT1/2-N02
PT06-03	PT14-03	PT1/4-03		PT3/16-N03	PT1/2-N03
PT08-01	PT14-04	PT5/16-01		PT1/4-U10	PT1/2-N04
PT08-02	PT16-03	PT5/16-02		PT1/4-N01	
PT08-03	PT16-04	PT5/16-03		PT1/4-N02	

FEMALE BRANCH TEE



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PTF04-01	PTF10-04	PTF1/8-01	PTF5/16-04	PTF1/8-N01	PTF5/16-N04
PTF04-02	PTF12-01	PTF1/8-02	PTF3/8-01	PTF1/8-N02	PTF3/8-N01
PTF04-03	PTF12-02	PTF5/32-01	PTF3/8-02	PTF5/32-N01	PTF3/8-N02
PTF06-01	PTF12-03	PTF5/32-02	PTF3/8-03	PTF5/32-N02	PTF3/8-N03
PTF06-02	PTF12-04	PTF3/16-01	PTF3/8-04	PTF3/16-N01	PTF3/8-N04
PTF06-03	PTF14-03	PTF3/16-02	PTF1/2-02	PTF3/16-N02	PTF1/2-N02
PTF08-01	PTF14-04	PTF3/16-03	PTF1/2-03	PTF3/16-N03	PTF1/2-N03
PTF08-02	PTF16-03	PTF1/4-01	PTF1/2-04	PTF1/4-N01	PTF1/2-N04
PTF08-03	PTF16-04	PTF1/4-02		PTF1/4-N02	
PTF08-04		PTF1/4-03		PTF1/4-N03	
PTF10-01		PTF5/16-01		PTF5/16-N01	
PTF10-02		PTF5/16-02		PTF5/16-N02	
PTF10-03		PTF5/16-03		PTF5/16-N03	

MALE RUN TEE



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PST04-M5	PST08-04	PST1/8-01	PST5/16-04	PST1/8-U10	PST1/4-N03
PST04-M6	PST10-01	PST1/8-02	PST3/8-01	PST1/8-N01	PST5/16-N01
PST04-01	PST10-02	PST5/32-01	PST3/8-02	PST1/8-N02	PST5/16-N02
PST04-02	PST10-03	PST5/32-02	PST3/8-03	PST5/32-U10	PST5/16-N03
PST04-03	PST10-04	PST3/16-01	PST3/8-04	PST5/32-N01	PST3/8-N01
PST06-M5	PST12-01	PST3/16-02	PST1/2-02	PST5/32-N02	PST3/8-N02
PST06-M6	PST12-02	PST3/16-03	PST1/2-03	PST3/16-U10	PST3/8-N03
PST06-01	PST12-03	PST1/4-01	PST1/2-04	PST3/16-N01	PST3/8-N04
PST06-02	PST12-04	PST1/4-02		PST3/16-N02	PST1/2-N02
PST06-03	PST14-03	PST1/4-03		PST3/16-N03	PST1/2-N03
PST08-01	PST14-04	PST5/16-01		PST1/4-U10	PST1/2-N04
PST08-02	PST16-03	PST5/16-02		PST1/4-N01	
PST08-03	PST16-04	PST5/16-03		PST1/4-N02	



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PWT04-M5	PWT08-04	PWT1/8-01	PWT5/16-04	PWT1/8-U10	PWT1/4-N03
PWT04-M6	PWT10-01	PWT1/8-02	PWT3/8-01	PWT1/8-N01	PWT5/16-N01
PWT04-01	PWT10-02	PWT5/32-01	PWT3/8-02	PWT1/8-N02	PWT5/16-N02
PWT04-02	PWT10-03	PWT5/32-02	PWT3/8-03	PWT5/32-U10	PWT5/16-N03
PWT04-03	PWT10-04	PWT3/16-01	PWT3/8-04	PWT5/32-N01	PWT3/8-N01
PWT06-M5	PWT12-01	PWT3/16-02	PWT1/2-02	PWT5/32-N02	PWT3/8-N02
PWT06-M6	PWT12-02	PWT3/16-03	PWT1/2-03	PWT3/16-U10	PWT3/8-N03
PWT06-01	PWT12-03	PWT1/4-01	PWT1/2-04	PWT3/16-N01	PWT3/8-N04
PWT06-02	PWT12-04	PWT1/4-02		PWT3/16-N02	PWT1/2-N02
PWT06-03	PWT14-03	PWT1/4-03		PWT3/16-N03	PWT1/2-N03
PWT08-01	PWT14-04	PWT5/16-01		PWT1/4-U10	PWT1/2-N04
PWT08-02	PWT16-03	PWT5/16-02		PWT1/4-N01	
PWT08-03	PWT16-04	PWT5/16-03		PWT1/4-N02	



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PH04-M5	PH08-04	PH1/8-01	PH5/16-04	PH1/8-U10	PH1/4-N03
PH04-M6	PH10-01	PH1/8-02	PH3/8-01	PH1/8-N01	PH5/16-N01
PH04-01	PH10-02	PH5/32-01	PH3/8-02	PH1/8-N02	PH5/16-N02
PH04-02	PH10-03	PH5/32-02	PH3/8-03	PH5/32-U10	PH5/16-N03
PH04-03	PH10-04	PH3/16-01	PH3/8-04	PH5/32-N01	PH3/8-N01
PH06-M5	PH12-01	PH3/16-02	PH1/2-02	PH5/32-N02	PH3/8-N02
PH06-M6	PH12-02	PH3/16-03	PH1/2-03	PH3/16-U10	PH3/8-N03
PH06-01	PH12-03	PH1/4-01	PH1/2-04	PH3/16-N01	PH3/8-N04
PH06-02	PH12-04	PH1/4-02		PH3/16-N02	PH1/2-N02
PH06-03	PH14-03	PH1/4-03		PH3/16-N03	PH1/2-N03
PH08-01	PH14-04	PH5/16-01		PH1/4-U10	PH1/2-N04
PH08-02	PH16-03	PH5/16-02		PH1/4-N01	
PH08-03	PH16-04	PH5/16-03		PH1/4-N02	



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PHF04-01	PHF10-04	PHF1/8-01	PHF5/16-04	PHF1/8-N01	PHF5/16-N04
PHF04-02	PHF12-01	PHF1/8-02	PHF3/8-01	PHF1/8-N02	PHF3/8-N01
PHF04-03	PHF12-02	PHF5/32-01	PHF3/8-02	PHF5/32-N01	PHF3/8-N02
PHF06-01	PHF12-03	PHF5/32-02	PHF3/8-03	PHF5/32-N02	PHF3/8-N03
PHF06-02	PHF12-04	PHF3/16-01	PHF3/8-04	PHF3/16-N01	PHF3/8-N04
PHF06-03	PHF14-03	PHF3/16-02	PHF1/2-02	PHF3/16-N02	PHF1/2-N02
PHF08-01	PHF14-04	PHF3/16-03	PHF1/2-03	PHF3/16-N03	PHF1/2-N03
PHF08-02	PHF16-03	PHF1/4-01	PHF1/2-04	PHF1/4-N01	PHF1/2-N04
PHF08-03	PHF16-04	PHF1/4-02		PHF1/4-N02	
PHF08-04		PHF1/4-03		PHF1/4-N03	
PHF10-01		PHF5/16-01		PHF5/16-N01	
PHF10-02		PHF5/16-02		PHF5/16-N02	
PHF10-03		PHF5/16-03		PHF5/16-N03	



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PMF04-01	PMF10-04	PMF1/8-01	PMF5/16-04	PMF1/8-N01	PMF5/16-N04
PMF04-02	PMF12-01	PMF1/8-02	PMF3/8-01	PMF1/8-N02	PMF3/8-N01
PMF04-03	PMF12-02	PMF5/32-01	PMF3/8-02	PMF5/32-N01	PMF3/8-N02
PMF06-01	PMF12-03	PMF5/32-02	PMF3/8-03	PMF5/32-N02	PMF3/8-N03
PMF06-02	PMF12-04	PMF3/16-01	PMF3/8-04	PMF3/16-N01	PMF3/8-N04
PMF06-03	PMF14-03	PMF3/16-02	PMF1/2-02	PMF3/16-N02	PMF1/2-N02
PMF08-01	PMF14-04	PMF3/16-03	PMF1/2-03	PMF3/16-N03	PMF1/2-N03
PMF08-02	PMF16-03	PMF1/4-01	PMF1/2-04	PMF1/4-N01	PMF1/2-N04
PMF08-03	PMF16-04	PMF1/4-02		PMF1/4-N02	
PMF08-04		PMF1/4-03		PMF1/4-N03	
PMF10-01		PMF5/16-01		PMF5/16-N01	
PMF10-02		PMF5/16-02		PMF5/16-N02	
PMF10-03		PMF5/16-03		PMF5/16-N03	



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
PKB04-M5	PKB06-01	PKB5/32-01	PKB5/16-01	PKB5/32-U10	PKB1/4-N02
PKB04-M6	PKB06-02	PKB5/32-02	PKB5/16-02	PKB5/32-N01	PKB1/4-N03
PKB04-01	PKB06-03	PKB1/4-01	PKB5/16-03	PKB5/32-N02	PKB5/16-N01
PKB04-02	PKB08-01	PKB1/4-02	PKB5/16-04	PKB1/4-U10	PKB5/16-N02
PKB04-03	PKB08-02	PKB1/4-03		PKB1/4-N01	PKB5/16-N03
PKB06-M5	PKB08-03				
PKB06-M6	PKB08-04				

MALE TRIPLE BRANCH REDUCER

PKD

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T

Tube(Metric) - Thread(R)	Tube(Inch) - Thread(R)
PKD 06-04-01	PKD1/4-5/32-01
PKD 08-04-02	PKD5/16-5/32-02
PKD 08-06-02	PKD5/16-1/4-02
PKD 10-08-03	PKD3/8-5/16-03

Tube(Inch) - Thread(NPT)
PKD1/4-5/32-N01
PKD5/16-5/32-N02
PKD5/16-1/4-N02
PKD3/8-5/16-N03

UNION STRAIGHT

PUC

φD

Tube(Metric)	Tube(Inch)
PUC 04	PUC 1/8
PUC 05	PUC 5/32
PUC 06	PUC 3/16
PUC 08	PUC 1/4
PUC 10	PUC 5/16
PUC 12	PUC 3/8
PUC 14	PUC 1/2
PUC 16	

UNION ELBOW

PUL

φD

φD

Tube(Metric)	Tube(Inch)
PUL 04	PUL 1/8
PUL 05	PUL 5/32
PUL 06	PUL 3/16
PUL 08	PUL 1/4
PUL 10	PUL 5/16
PUL 12	PUL 3/8
PUL 14	PUL 1/2
PUL 16	

UNION TEE

PUT

φD

φD

φD

Tube(Metric)	Tube(Inch)
PUT 04	PUT 1/8
PUT 05	PUT 5/32
PUT 06	PUT 3/16
PUT 08	PUT 1/4
PUT 10	PUT 5/16
PUT 12	PUT 3/8
PUT 14	PUT 1/2
PUT 16	

UNION Y

PY

φD

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Tube(Metric)	Tube(Inch)
PY 04	PY 1/8
PY 05	PY 5/32
PY 06	PY 3/16
PY 08	PY 1/4
PY 10	PY 5/16
PY 12	PY 3/8
PY 14	PY 1/2
PY 16	

UNION CROSS

PZA

φD

φD

φD

φD

Tube(Metric)	Tube(Inch)
PZA 04	PZA 1/8
PZA 06	PZA 5/32
PZA 08	PZA 3/16
PZA 10	PZA 1/4
PZA 12	PZA 5/16
	PZA 3/8
	PZA 1/2

BULKHEAD UNION

PMM

φD

φD

Tube(Metric)	Tube(Inch)
PMM 04	PMM 1/8
PMM 06	PMM 5/32
PMM 08	PMM 3/16
PMM 10	PMM 1/4
PMM 12	PMM 5/16
PMM 16	PMM 3/8
	PMM 1/2

BULKHEAD ELBOW

PLM

φD

φD

Tube(Metric)	Tube(Inch)
PLM 04	PLM 1/8
PLM 06	PLM 5/32
PLM 08	PLM 3/16
PLM 10	PLM 1/4
PLM 12	PLM 5/16
PLM 16	PLM 3/8
	PLM 1/2

TRIPLE BRANCH UNION

PK

φD

φD

φD

Tube(Metric)	Tube(Inch)
PK 04	PK 5/32
PK 06	PK 1/4
PK 08	PK 5/16

UNION REDUCER

PG

φD₁

φD₂

Tube(Metric)	Tube(Inch)
PG06-04	PG1/4-5/32
PG08-04	PG3/16-5/32
PG08-06	PG5/16-1/4
PG10-06	PG3/8-1/4
PG10-08	PG3/8-5/16
PG12-08	PG1/2-3/8
PG12-10	
PG16-12	

UNION Y REDUCER

PW

φD₂

φD₁

Tube(Metric)	Tube(Inch)
PW06-04	PW1/4-5/32
PW08-04	PW3/16-5/32
PW08-06	PW5/16-1/4
PW10-06	PW3/8-1/4
PW10-08	PW3/8-5/16
PW12-08	PW1/2-3/8
PW12-10	

UNION TEE REDUCER

PTG

φD₁

φD₂

φD₁

Tube(Metric)	Tube(Inch)
PTG06-04	PTG1/4-5/32
PTG08-04	PTG3/16-5/32
PTG08-06	PTG5/16-1/4
PTG10-06	PTG3/8-1/4
PTG10-08	PTG3/8-5/16
PTG12-08	PTG1/2-3/8
PTG12-10	
PTG16-12	

UNION TRIPLE BRANCH REDUCER

PKG

φD₁

φD₂

φD₁

Tube(Metric)	Tube(Inch)
PKG06-04	PKG1/4-5/32
PKG08-04	PKG5/16-5/32
PKG08-06	PKG5/16-1/4
PKG10-06	PKG3/8-1/4
PKG10-08	PKG3/8-5/16



Tube(Metric)	Tube(Inch)
PP 04	PP 1/8
PP 06	PP 5/32
PP 08	PP 3/16
PP 10	PP 1/4
PP 12	PP 5/16
	PP 3/8
	PP 1/2



Tube(Metric)	Tube(Inch)
PGJ06-04	PGJ1/4-5/32
PGJ08-04	PGJ5/16-5/32
PGJ08-06	PGJ5/16-1/4
PGJ10-06	PGJ3/8-1/4
PGJ10-08	PGJ3/8-5/16
PGJ12-06	PGJ1/2-1/4
PGJ12-08	
PGJ12-10	



Tube(Metric)	Tube(Inch)
PLJ 04	PLJ 1/8
PLJ 06	PLJ 5/32
PLJ 08	PLJ 3/16
PLJ 10	PLJ 1/4
PLJ 12	PLJ 5/16
PLJ 16	PLJ 3/8
	PLJ 1/2



Tube(Metric)	Tube(Inch)
PLHJ 04	PLHJ 1/8
PLHJ 06	PLHJ 5/32
PLHJ 08	PLHJ 1/4
PLHJ 10	PLHJ 5/16
PLHJ 12	PLHJ 3/8
	PLHJ 1/2



Tube(Metric)	Tube(Inch)
PYJ 04	PYJ 1/8
PYJ 06	PYJ 5/32
PYJ 08	PYJ 3/16
PYJ 10	PYJ 1/4
PYJ 12	PYJ 5/16
	PYJ 3/8
	PYJ



Tube(Metric)	Tube(Inch)
PKJ 04	PKJ 5/32
PKJ 06	PKJ 1/4
PKJ 08	PKJ 5/16



Tube(Metric)	Tube(Inch)
PLGJ06-04	PLGJ1/4-5/32
PLGJ08-04	PLGJ3/16-5/32
PLGJ08-06	PLGJ5/16-1/4
PLGJ10-06	PLGJ3/8-1/4
PLGJ10-08	PLGJ3/8-5/16
PLGJ12-08	PLGJ1/2-3/8
PLGJ12-10	
PLGJ16-12	



Tube(Metric)	Tube(Inch)
PLHGJ06-04	PLHGJ1/4-5/32
PLHGJ08-04	PLHGJ3/16-5/32
PLHGJ08-06	PLHGJ5/16-1/4
PLHGJ10-06	PLHGJ3/8-1/4
PLHGJ10-08	PLHGJ3/8-5/16
PLHGJ12-08	PLHGJ1/2-3/8
PLHGJ12-10	
PLHGJ16-12	



Tube(Metric)	Tube(Inch)
PYGJ06-04	PYGJ1/4-5/32
PYGJ08-04	PYGJ3/16-5/32
PYGJ08-06	PYGJ5/16-1/4
PYGJ10-06	PYGJ3/8-1/4
PYGJ10-08	PYGJ3/8-5/16
PYGJ12-08	PYGJ1/2-3/8
PYGJ12-10	

Fittings With G Thread (O-Ring)



Tube(Metric) - Thread(G)	
PC04-G01	PC10-G02
PC04-G02	PC10-G03
PC04-G03	PC10-G04
PC06-G01	PC12-G02
PC06-G02	PC12-G03
PC06-G03	PC12-G04
PC08-G01	PC14-G03
PC08-G02	PC14-G04
PC08-G03	PC16-G03
PC08-G04	PC16-G04
PC10-G01	



Tube(Metric) - Thread(G)	
POC04-G01	POC10-G02
POC04-G02	POC10-G03
POC04-G03	POC10-G04
POC06-G01	POC12-G02
POC06-G02	POC12-G03
POC06-G03	POC12-G04
POC08-G01	POC14-G03
POC08-G02	POC14-G04
POC08-G03	POC16-G03
POC08-G04	POC16-G04
POC10-G01	

FEMALE STRAIGHT

PCF-G



ϕD T

Tube(Metric) - Thread(G)	
PCF04-G01	PCF10-G02
PCF04-G02	PCF10-G03
PCF04-G03	PCF10-G04
PCF06-G01	PCF12-G02
PCF06-G02	PCF12-G03
PCF06-G03	PCF12-G04
PCF08-G01	PCF14-G03
PCF08-G02	PCF14-G04
PCF08-G03	PCF16-G03
PCF08-G04	PCF16-G04
PCF10-G01	

MALE ELBOW

PL-G



ϕD T

Tube(Metric) - Thread(G)	
PL04-G01	PL10-G02
PL04-G02	PL10-G03
PL04-G03	PL10-G04
PL06-G01	PL12-G02
PL06-G02	PL12-G03
PL06-G03	PL12-G04
PL08-G01	PL14-G03
PL08-G02	PL14-G04
PL08-G03	PL16-G03
PL08-G04	PL16-G04
PL10-G01	

FEMALE ELBOW

PLF-G



ϕD T

Tube(Metric) - Thread(G)	
PLF04-G01	PLF10-G02
PLF04-G02	PLF10-G03
PLF04-G03	PLF10-G04
PLF06-G01	PLF12-G02
PLF06-G02	PLF12-G03
PLF06-G03	PLF12-G04
PLF08-G01	PLF14-G03
PLF08-G02	PLF14-G04
PLF08-G03	PLF16-G03
PLF08-G04	PLF16-G04
PLF10-G01	

MALE 45° ELBOW

PLH-G



ϕD T

Tube(Metric) - Thread(G)	
PLH04-G01	PLH10-G02
PLH04-G02	PLH10-G03
PLH04-G03	PLH10-G04
PLH06-G01	PLH12-G02
PLH06-G02	PLH12-G03
PLH06-G03	PLH12-G04
PLH08-G01	
PLH08-G02	
PLH08-G03	
PLH08-G04	
PLH10-G01	

EXTENDED MALE ELBOW

PLL-G



ϕD T

Tube(Metric) - Thread(G)	
PLL04-G01	PLL10-G02
PLL04-G02	PLL10-G03
PLL04-G03	PLL10-G04
PLL06-G01	PLL12-G02
PLL06-G02	PLL12-G03
PLL06-G03	PLL12-G04
PLL08-G01	PLL14-G03
PLL08-G02	PLL14-G04
PLL08-G03	PLL16-G03
PLL08-G04	PLL16-G04
PLL10-G01	

MALE BRANCH TEE

PT-G



ϕD T

Tube(Metric) - Thread(G)	
PT04-G01	PT10-G02
PT04-G02	PT10-G03
PT04-G03	PT10-G04
PT06-G01	PT12-G02
PT06-G02	PT12-G03
PT06-G03	PT12-G04
PT08-G01	PT14-G03
PT08-G02	PT14-G04
PT08-G03	PT16-G03
PT08-G04	PT16-G04
PT10-G01	

FEMALE BRANCH TEE

PTF-G



ϕD T

Tube(Metric) - Thread(G)	
PTF04-G01	PTF10-G02
PTF04-G02	PTF10-G03
PTF04-G03	PTF10-G04
PTF06-G01	PTF12-G02
PTF06-G02	PTF12-G03
PTF06-G03	PTF12-G04
PTF08-G01	PTF14-G03
PTF08-G02	PTF14-G04
PTF08-G03	PTF16-G03
PTF08-G04	PTF16-G04
PTF10-G01	

MALE RUN TEE

PST-G



ϕD T

Tube(Metric) - Thread(G)	
PST04-G01	PST10-G02
PST04-G02	PST10-G03
PST04-G03	PST10-G04
PST06-G01	PST12-G02
PST06-G02	PST12-G03
PST06-G03	PST12-G04
PST08-G01	PST14-G03
PST08-G02	PST14-G04
PST08-G03	PST16-G03
PST08-G04	PST16-G04
PST10-G01	

MALE Y

PWT-G



ϕD T

Tube(Metric) - Thread(G)	
PWT04-G01	PWT10-G02
PWT04-G02	PWT10-G03
PWT04-G03	PWT10-G04
PWT06-G01	PWT12-G02
PWT06-G02	PWT12-G03
PWT06-G03	PWT12-G04
PWT08-G01	PWT14-G03
PWT08-G02	PWT14-G04
PWT08-G03	PWT16-G03
PWT08-G04	PWT16-G04
PWT10-G01	

MALE BANJO

PH-G



ϕD T

Tube(Metric) - Thread(G)	
PH04-G01	PH10-G02
PH04-G02	PH10-G03
PH04-G03	PH10-G04
PH06-G01	PH12-G02
PH06-G02	PH12-G03
PH06-G03	PH12-G04
PH08-G01	
PH08-G02	
PH08-G03	
PH08-G04	
PH10-G01	

FEMALE BANJO
PHF-G



φD T

Tube(Metric) - Thread(G)	
PHF04-G01	PHF08-G04
PHF04-G02	PHF10-G01
PHF04-G03	PHF10-G02
PHF06-G01	PHF10-G03
PHF06-G02	PHF10-G04
PHF06-G03	PHF12-G02
PHF08-G01	PHF12-G03
PHF08-G02	PHF12-G04
PHF08-G03	

BULKHEAD FEMALE STRAIGHT
PMF-G



φD T

Tube(Metric) - Thread(G)	
PMF04-G01	PMF10-G02
PMF04-G02	PMF10-G03
PMF04-G03	PMF10-G04
PMF06-G01	PMF12-G02
PMF06-G02	PMF12-G03
PMF06-G03	PMF12-G04
PMF08-G01	PMF14-G03
PMF08-G02	PMF14-G04
PMF08-G03	PMF16-G03
PMF08-G04	PMF16-G04
PMF10-G01	

MALE TRIPLE UNION
PKB-G



φD T

Tube(Metric) - Thread(G)	
PKB04-G01	PKB08-G02
PKB04-G02	PKB08-G03
PKB04-G03	PKB08-G04
PKB06-G01	
PKB06-G02	
PKB06-G03	
PKB08-G01	

MALE TRIPLE BRANCH REDUCER
PKD-G



φD₁ φD₂ T

Tube(Metric) - Thread(G)	
PKD 06-04-G01	
PKD 08-04-G02	
PKD 08-04-G02	
PKD 10-04-G03	

Compact One Touch Tube Fittings

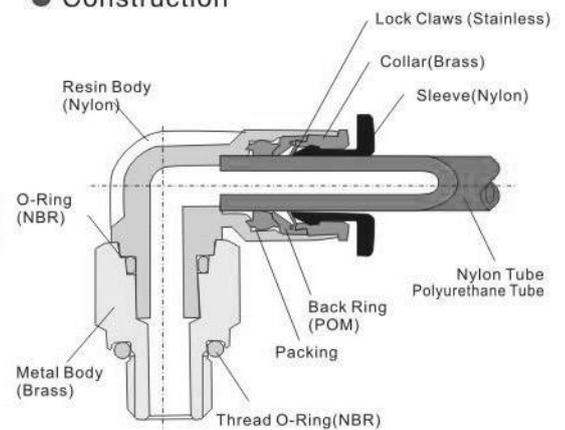
Features

- The smallest pneumatic fittings.
- 40% less volume and a 20% smaller OD than the standard One Touch Design
- Compact one touch fittings are specially designed for pneumatic installations in equipment that is small and compact in size.

Specifications

Fluid Type	Air (No other types of gases or liquids)	
Working Pressure Range	0~150PSI	0~9.9kgf/cm ² (0~990KPa)
Negative Pressure	-29.5 in Hg	-750mm Hg(10 Torr)
Working Temperature	32~140°F	0-60°C
Recommended tube material	Nylon Or Polyurethane	

Construction



Products Code System

- ① Model type ③ Thread size
② Tube outer dia ④ Compact



MALE STRAIGHT
PC-C



φD T

Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PC 03-M3C	PC 1/8-U10C
PC 03-M5C	PC 1/8-N00C
PC 03-M6C	PC 1/8-N01C
PC 04-M3C	PC 5/32-U10C
PC 04-M5C	PC 5/32-N00C
PC 04-M6C	PC 5/32-N01C
PC 04-01C	PC 1/4-U10C
PC 04-G01C	PC 1/4-N00C
PC 06-M5C	PC 1/4-N01C
PC 06-M6C	
PC 06-01C	
PC 06-G01C	

ROUND MALE STRAIGHT
POC-C



φD T

Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
POC 03-M3C	POC 1/8-U10C
POC 03-M5C	POC 1/8-N00C
POC 03-M6C	POC 1/8-N01C
POC 04-M3C	POC 5/32-U10C
POC 04-M5C	POC 5/32-N00C
POC 04-M6C	POC 5/32-N01C
POC 04-01C	POC 1/4-U10C
POC 04-G01C	POC 1/4-N00C
POC 06-M5C	POC 1/4-N01C
POC 06-M6C	
POC 06-01C	
POC 06-G01C	

FEMALE STRAIGHT

PCF-C



ϕD T

Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PCF 03-M3C	PCF 1/8-U10C
PCF 03-M5C	PCF 1/8-N00C
PCF 03-M6C	PCF 1/8-N01C
PCF 04-M3C	PCF 5/32-U10C
PCF 04-M5C	PCF 5/32-N00C
PCF 04-M6C	PCF 5/32-N01C
PCF 04-01C	PCF 1/4-U10C
PCF 04-G01C	PCF 1/4-N00C
PCF 06-M5C	PCF 1/4-N01C
PCF 06-M6C	
PCF 06-01C	
PCF 06-G01C	

MALE ELBOW

PL-C



ϕD T

Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PL 03-M3C	PL 1/8-U10C
PL 03-M5C	PL 1/8-N00C
PL 03-M6C	PL 1/8-N01C
PL 04-M3C	PL 5/32-U10C
PL 04-M5C	PL 5/32-N00C
PL 04-M6C	PL 5/32-N01C
PL 04-01C	PL 1/4-U10C
PL 04-G01C	PL 1/4-N00C
PL 06-M5C	PL 1/4-N01C
PL 06-M6C	
PL 06-01C	
PL 06-G01C	

EXTENDED MALE ELBOW

PLL-C



ϕD T

Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PLL 03-M3C	PLL 1/8-U10C
PLL 03-M5C	PLL 1/8-N00C
PLL 03-M6C	PLL 1/8-N01C
PLL 04-M3C	PLL 5/32-U10C
PLL 04-M5C	PLL 5/32-N00C
PLL 04-M6C	PLL 5/32-N01C
PLL 04-01C	PLL 1/4-U10C
PLL 04-G01C	PLL 1/4-N00C
PLL 06-M5C	PLL 1/4-N01C
PLL 06-M6C	
PLL 06-01C	
PLL 06-G01C	

MALE BRANCH TEE

PT-C



ϕD T

Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PT 03-M3C	PT 1/8-U10C
PT 03-M5C	PT 1/8-N00C
PT 03-M6C	PT 1/8-N01C
PT 04-M3C	PT 5/32-U10C
PT 04-M5C	PT 5/32-N00C
PT 04-M6C	PT 5/32-N01C
PT 04-01C	PT 1/4-U10C
PT 04-G01C	PT 1/4-N00C
PT 06-M5C	PT 1/4-N01C
PT 06-M6C	
PT 06-01C	
PT 06-G01C	

MALE RUN TEE

PST-C



ϕD T

Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PST 03-M3C	PST 1/8-U10C
PST 03-M5C	PST 1/8-N00C
PST 03-M6C	PST 1/8-N01C
PST 04-M3C	PST 5/32-U10C
PST 04-M5C	PST 5/32-N00C
PST 04-M6C	PST 5/32-N01C
PST 04-01C	PST 1/4-U10C
PST 04-G01C	PST 1/4-N00C
PST 06-M5C	PST 1/4-N01C
PST 06-M6C	
PST 06-01C	
PST 06-G01C	

ELBOW (COMPACT)

NSE-C



ϕD T

Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
NSE 03-M5C	NSE 1/8-U10C
NSE 04-M5C	NSE 5/32-U10C
NSE 06-M5C	NSE 1/4-U10C

UNION STRAIGHT

PUC-C



ϕD T

Tube(Metric)
PUC 03C
PUC 04C
PUC 06C

Tube(Inch)
PUC 1/8C
PUC 5/32C
PUC 1/4C

UNION ELBOW

PUL-C



ϕD T

Tube(Metric)
PUL 03C
PUL 04C
PUL 06C

Tube(Inch)
PUL 1/8C
PUL 5/32C
PUL 1/4C

UNION TEE

PUT-C



ϕD T

Tube(Metric)
PUT 03C
PUT 04C
PUT 06C

Tube(Inch)
PUT 1/8C
PUT 5/32C
PUT 1/4C

BULKHEAD UNION

PMM-C



ϕD T

Tube(Metric)
PMM 03C
PMM 04C
PMM 06C

Tube(Inch)
PMM 1/8C
PMM 5/32C
PMM 1/4C

UNION Y

PY-C



ϕD T

Tube(Metric)
PY 03C
PY 04C
PY 06C

Tube(Inch)
PY 1/8C
PY 5/32C
PY 1/4C

BULKHEAD UNION ELBOW

PLM-C



ϕD T

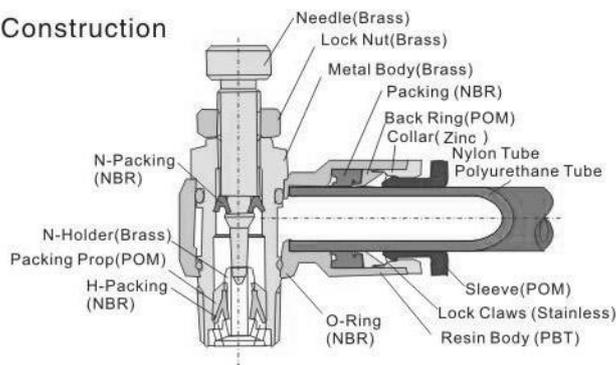
Tube(Metric)
PLM 03C
PLM 04C
PLM 06C

Tube(Inch)
PLM 1/8C
PLM 5/32C
PLM 1/4C

Features

- Accurate regulation of air flow rate for precise motion control.
- All NPT & R(BSPT) thread are pre-coated with Teflon sealant

Construction



When you order control in type, Please put B at the end of model type. For example:NSE08-02B



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
NSE04-M5	NSE08-03	NSE1/8-01	NSE5/16-03	NSE1/8-U10	NSE1/4-N02
NSE04-M6	NSE08-04	NSE1/8-02	NSE5/16-04	NSE1/8-N01	NSE1/4-N03
NSE04-01	NSE10-01	NSE5/32-01	NSE3/8-01	NSE1/8-N02	NSE5/16-N01
NSE04-02	NSE10-02	NSE5/32-02	NSE3/8-02	NSE5/32-U10	NSE5/16-N02
NSE04-03	NSE10-03	NSE3/16-01	NSE3/8-03	NSE5/32-N01	NSE5/16-N03
NSE06-M5	NSE10-04	NSE3/16-02	NSE3/8-04	NSE5/32-N02	NSE3/8-N01
NSE06-M6	NSE12-01	NSE3/16-03	NSE1/2-02	NSE3/16-U10	NSE3/8-N02
NSE06-01	NSE12-02	NSE1/4-01	NSE1/2-03	NSE3/16-N01	NSE3/8-N03
NSE06-02	NSE12-03	NSE1/4-02	NSE1/2-04	NSE3/16-N02	NSE3/8-N04
NSE06-03	NSE12-04	NSE1/4-03		NSE3/16-N03	NSE1/2-N02
NSE08-01	NSE16-03	NSE5/16-01		NSE1/4-U10	NSE1/2-N03
NSE08-02	NSE16-04	NSE5/16-02		NSE1/4-N01	NSE1/2-N04



Tube(Metric) - Thread(G)	Tube(Metric) - Thread(G)
NSE04-G01	NSE10-G01
NSE04-G02	NSE10-G02
NSE04-G03	NSE10-G03
NSE06-G01	NSE10-G04
NSE06-G02	NSE12-G02
NSE06-G03	NSE12-G03
NSE08-G01	NSE12-G04
NSE08-G02	NSE16-G03
NSE08-G03	NSE16-G04
NSE08-G04	



Tube(Metric)	Tube(Inch)
NSF 04	NSF 1/8
NSF 06	NSF 5/32
NSF 08	NSF 3/16
NSF 10	NSF 1/4
NSF 12	NSF 5/16
	NSF 3/8
	NSF 1/2



Tube(Metric) - Thread(R)	Tube(Metric) - Thread(G)	Tube(Inch) - Thread(NPT)
NSFSF04-01	NSFSF10-04	NSFSF1/8-N01
NSFSF06-01	NSFSF12-02	NSFSF5/32-N01
NSFSF06-02	NSFSF12-03	NSFSF3/16-N01
NSFSF08-01	NSFSF12-04	NSFSF1/4-N01
NSFSF08-02		NSFSF1/4-N02
NSFSF08-03		NSFSF5/16-N01
NSFSF10-02		NSFSF5/16-N02
NSFSF10-03		NSFSF5/16-N03



Tube(Metric) - Thread(R)	Tube(Metric) - Thread(G)	Tube(Inch) - Thread(NPT)
NSFSS01-01	NSFSSG01-G01	NSFSSN01-N01
NSFSS02-02	NSFSSG02-G02	NSFSSN02-N02
NSFSS03-03	NSFSSG03-G03	NSFSSN03-N03
NSFSS04-04	NSFSSG04-G04	NSFSSN04-N04

Part numbers with rod end bracket and/or pivot bracket available

Not necessary to order a bracket for the applicable cylinder separately

Note) Mounting bracket is shipped together with the product, but not assembled.

Example) **CDA2** **D** 40-100Z- **N** **W** -M9BW

• Mounting

Pivot bracket

Nil	None
N	Pivot bracket is shipped together with the product, but not assembled.

* Applicable to only mounting D (Double clevis) and T (Center trunnion).

N: Kit of pivot bracket and double clevis



Kit of pivot bracket and trunnion



Rod end bracket

Nil	None
V	Single knuckle joint
W	Double knuckle joint

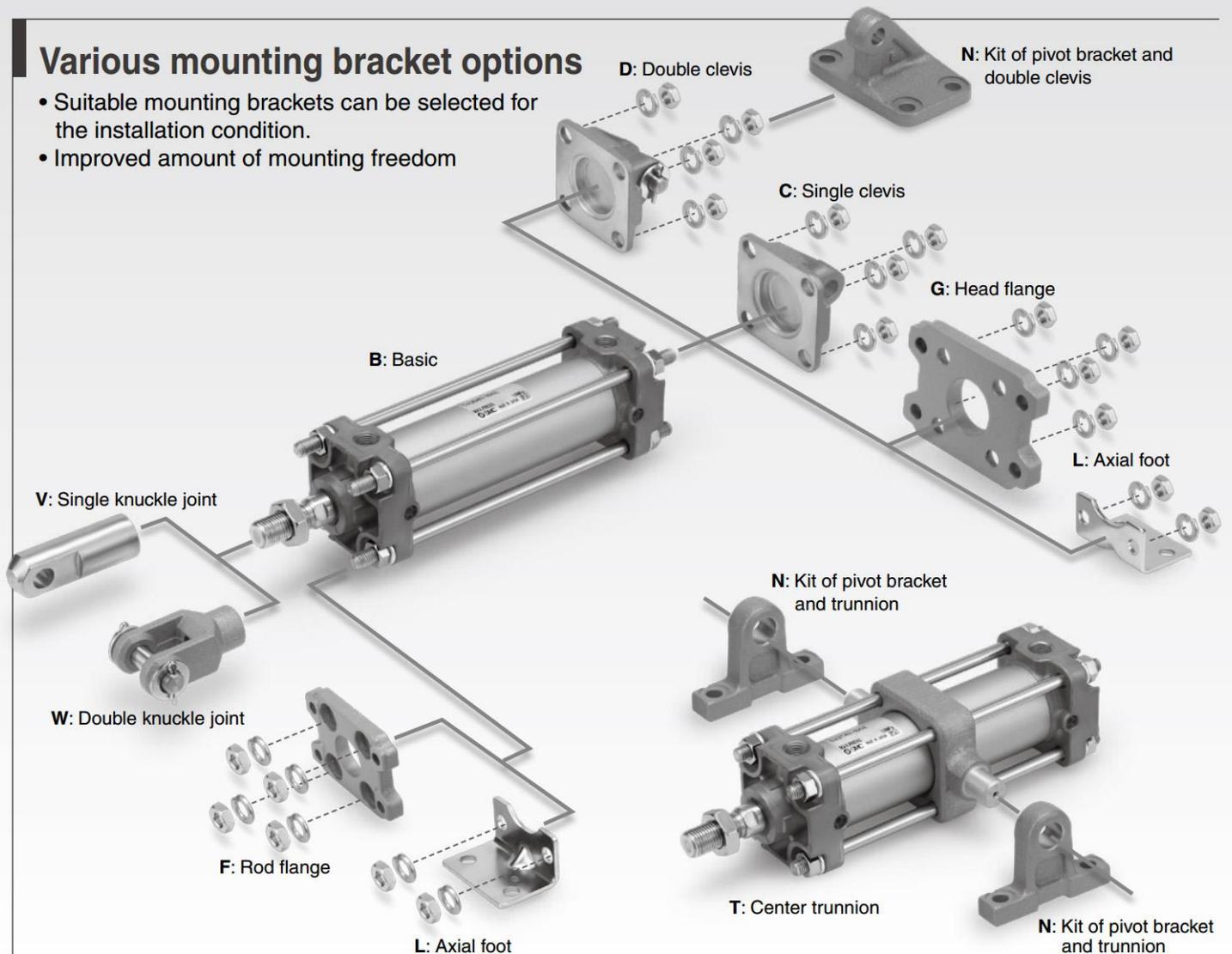
With rod end bracket

V: Single knuckle joint **W:** Double knuckle joint



Various mounting bracket options

- Suitable mounting brackets can be selected for the installation condition.
- Improved amount of mounting freedom



Reduced weight by changing the shape of the rod cover and head cover.

Bore size (mm)	CA2	Reduction rate	Current model ^(kg)
40	0.93	12%	1.06
50	1.31	15%	1.54
63	1.84	14%	2.15
80	3.17	11%	3.56
100	4.29	10%	4.76

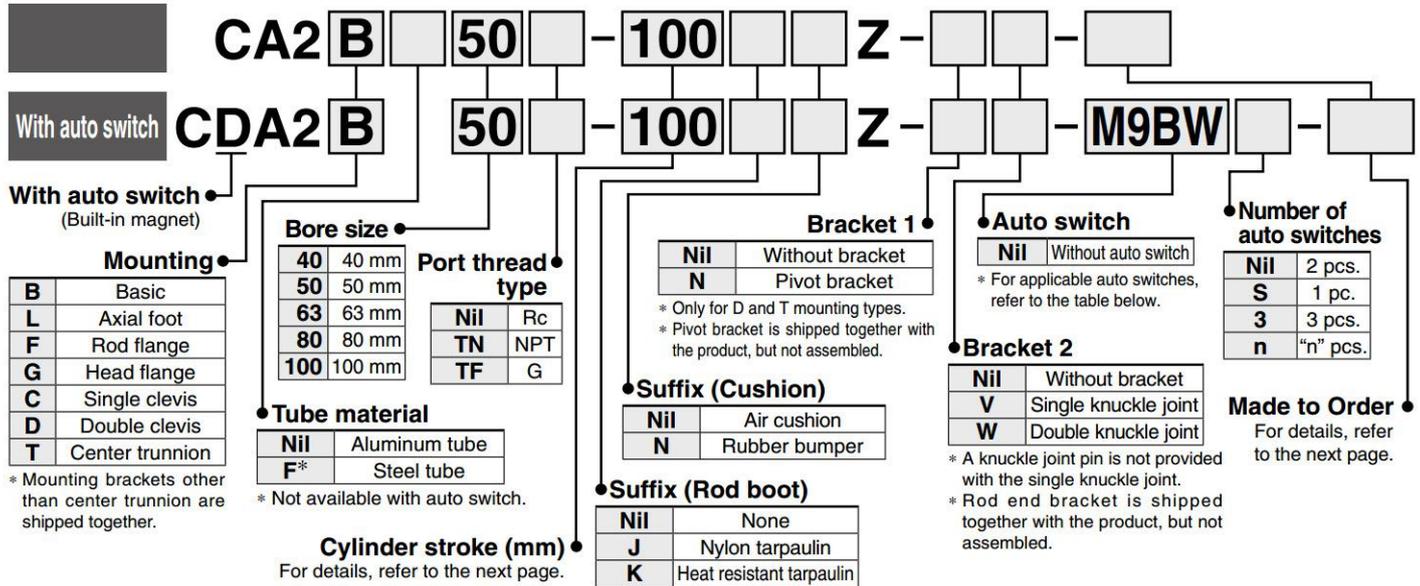
* Compared to 50 stroke for each size

Air Cylinder: Standard Type Double Acting, Single Rod

CA2 Series

Ø40, Ø50, Ø63, Ø80, Ø100

How to Order



Applicable Auto Switches/Refer to pages 1575 to 1701 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m)				Pre-wired connector	Applicable load						
					DC	AC	Tie-rod mounting	Band mounting	0.5 (Nil)	1 (M)	3 (L)	5 (Z)								
Solid state auto switch	—	Grommet	—	3-wire (NPN)	24 V	5 V, 12 V	—	M9N	●	●	●	○	○	IC circuit	—					
				3-wire (PNP)				M9P	●	●	●	○	○							
				2-wire	M9B	●	●	●	○	○										
		Terminal conduit		3-wire (NPN)	24 V	12 V	—	G39C	G39	—	—	—	—			—	IC circuit	Relay, PLC		
				2-wire				K39C	K39	—	—	—	—							
				3-wire (NPN)	M9NW	●	●	●	○	○										
	Grommet	3-wire (PNP)	24 V	12 V	—	M9PW	—	●	●	●	○	○	IC circuit	—						
		2-wire				M9BW	—	●	●	●	○	○								
		3-wire (NPN)	24 V	5 V, 12 V	—	M9NA*1	—	○	○	●	○	○			—	—				
	3-wire (PNP)	M9PA*1				—	○	○	●	○	○									
	2-wire	M9BA*1	—	○	○	●	○	○												
	With diagnostic output (2-color indicator)	Grommet	Yes	4-wire (NPN)	24 V	5 V, 12 V	—	F59F	G59F	●	—	●					○	○	IC circuit	—
Magnetic field resistant (2-color indicator)	2-wire (Non-polar)			P3DWA				—	●	—	●	●	○	○						
Reed auto switch	—	Grommet	—	3-wire (NPN equivalent)	24 V	12 V	—	A96	—	●	—	●	—	IC circuit			—			
				2-wire				A93	—	●	●	●	—		IC circuit	Relay, PLC				
				Terminal conduit	No	2-wire	24 V	12 V	—	—	A90	—	●	—			●	—	—	PLC
											100 V or less	A54	B54	●	—	●	●	—		
											100 V, 200 V	A64	B64	●	—	●	—	—		
		DIN terminal		Yes	2-wire	24 V	12 V	—	—	A33C	A33	—	—	—	—	—	Relay, PLC			
										200 V or less	A34C	A34	—	—	—			—	—	
		Grommet		Yes	2-wire	24 V	12 V	—	—	A44C	A44	—	—	—	—	—	—			
										100 V, 200 V	A59W	B59W	●	—	●			—	—	
										Diagnostic indication (2-color indicator)	—	—	—	—	—			—	—	—

*1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.

A water-resistant type cylinder is recommended for use in an environment which requires water resistance.

* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW
1 m..... M (Example) M9NWM
3 m..... L (Example) M9NWL
5 m..... Z (Example) M9NWW

* Solid state auto switches marked with "○" are produced upon receipt of order.

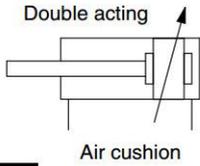
* Since there are other applicable auto switches than listed above, refer to page 523 for details.

* For details about auto switches with pre-wired connector, refer to pages 1648 and 1649.

* The D-A9□/M9□□□/P3DWA□ auto switches are shipped together, (but not assembled). (However, auto switch mounting brackets are assembled for the D-A9□/ M9□□□ before shipment.)



Symbol



Made to Order: Individual Specifications
(For details, refer to page 524.)

Symbol	Specifications
-X1184	Cylinder with heat resistant reed auto switch (-10 to 120°C)

Made to Order

[Click here for details](#)

Symbol	Specifications
-XA□	Change of rod end shape
-XB5	Oversized rod cylinder*
-XB6	Heat resistant cylinder (-10 to 150°C)
-XC3	Special port location*
-XC4	With heavy duty scraper
-XC5	Heat resistant cylinder (-10 to 110°C)
-XC7	Tie-rod, cushion valve, tie-rod nut, etc. made of stainless steel
-XC8	Adjustable stroke cylinder/Adjustable extension type
-XC9	Adjustable stroke cylinder/Adjustable retraction type
-XC10	Dual stroke cylinder/Double rod type
-XC11	Dual stroke cylinder/Single rod type
-XC12	Tandem cylinder
-XC14	Change of trunnion bracket mounting position
-XC15	Change of tie-rod length
-XC22	Fluororubber seal
-XC27	Double clevis and double knuckle joint pins made of stainless steel
-XC28	Compact flange made of SS400
-XC29	Double knuckle joint with spring pin
-XC30	Rod trunnion
-XC35	With coil scraper
-XC65	Made of stainless steel (Combination of XC7 and XC68)
-XC68	Made of stainless steel (with hard chrome plated piston rod)
-XC85	Grease for food processing equipment
-XC88	Spatter resistant coil scraper, Lube-retainer, Grease for welding (Piston rod: Stainless steel 304)
-XC89	Spatter resistant coil scraper, Lube-retainer, Grease for welding (Piston rod: S45C)
-XC91	Spatter resistant coil scraper, Grease for welding (Piston rod: S45C)

For special port location (-XC3), the mounting bracket and port location can be determined using the standard product corresponding to the operating conditions.

* The cover shape is the same as the current product.

For made of stainless steel (-XC6), use made of stainless steel (with hard chrome plated piston rod) (-XC68) that the surface treatment is performed on the piston rod with the same specifications.

Refer to pages 517 to 523 for cylinders with auto switches.
<ul style="list-style-type: none"> • Auto switch proper mounting position (detection at stroke end) and its mounting height • Operating range • Minimum stroke for auto switch mounting • Auto switch mounting brackets/Part no.

Specifications

Bore size (mm)	40	50	63	80	100		
Fluid	Air						
Action	Double acting						
Proof pressure	1.5 MPa						
Maximum operating pressure	1.0 MPa						
Ambient and fluid temperature	Without auto switch: -10 to 70°C*1 With auto switch : -10 to 60°C*1						
Minimum operating pressure	0.05 MPa						
Piston speed	50 to 500 mm/s						
Cushion	Air cushion or Rubber bumper						
Stroke length tolerance	Up to 250 st: $^{+1.0}_0$ 251 to 1000 st: $^{+1.4}_0$ 1001 to 1500 st: $^{+1.8}_0$ 1501 to 1800 st: $^{+2.2}_0$						
Lubrication	Not required (Non-lube)						
Mounting	Basic, Foot, Rod flange, Head flange Single clevis, Double clevis, Center trunnion						
Allowable kinetic energy (J)*2	Air cushion	When activated	2.8	4.6	7.8	16	29
	Rubber bumper	When not activated	0.33	0.56	0.91	1.5	2.68
			1.8	3.6	6.0	12.0	12.0

*1 No freezing

*2 Activate the air cushion when operating the cylinder. If this is not done, the piston rod assembly or the tie-rods will be damaged when the allowable kinetic energy exceeds the values shown in the above table.

Standard Strokes

Bore size	Standard stroke ^{Note 1)}		Max. manufacturable stroke
	Stroke range ①	Stroke range ②	
40	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500	Up to 1800	Up to 2700
50, 63	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600		
80, 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700		

Note 1) Intermediate strokes not listed above are produced upon receipt of order.

Note 2) Applicable strokes should be confirmed according to the usage. For details, refer to "Air Cylinders Model Selection" on front matter pages. In addition, the products that exceed the stroke range ① might not be able to fulfill the specifications due to the deflection etc.

Note 3) Please consult with SMC for manufacturability and the part numbers when exceeding the stroke range ②.

Note 4) The stroke range with rod boot is 20 to 1800 mm. Please consult with SMC when exceeding 1800 mm strokes.

Minimum Stroke for Auto Switch Mounting

⚠ Caution

The minimum stroke for mounting varies with the auto switch type and cylinder mounting type. In particular, the center trunnion type needs careful attention. (For details, refer to pages 521 and 522.)

Rod Boot Material

Symbol	Rod boot material	Max. ambient temperature
J	Nylon tarpaulin	70°C
K	Heat resistant tarpaulin	110°C*

* Maximum ambient temperature for the rod boot

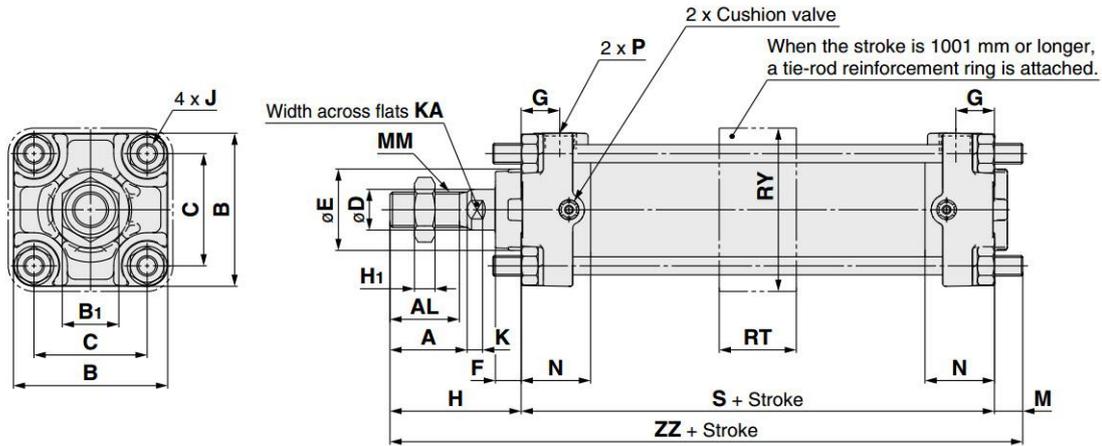
Accessories

Mounting		Basic	Axial foot	Rod flange	Head flange	Single clevis	Double clevis	Center trunnion
Standard	Rod end nut	●	●	●	●	●	●	●
	Clevis pin	—	—	—	—	—	●	—
Option	Single knuckle joint	●	●	●	●	●	●	●
	Double knuckle joint (with pin)	●	●	●	●	●	●	●
	With rod boot	●	●	●	●	●	●	●

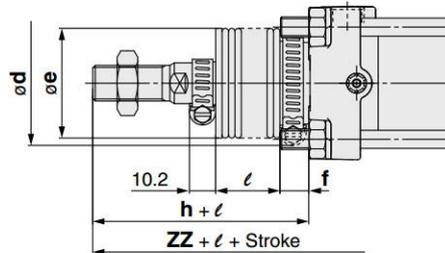
* Refer to page 485 for part numbers and dimensions.

Air Cylinder: Standard Type Double Acting, Single Rod **CA2 Series**

Basic: CA2B



With rod boot



Bore size (mm)	A	AL	B	B ₁	C	D	E	F	G	H ₁	J	K	KA	M		MM
														Without reinforcement ring	With reinforcement ring	
40	30	27	60	22	44	16	32	10	15	8	M8 x 1.25	6	14	11	11	M14 x 1.5
50	35	32	70	27	52	20	40	10	17	11	M8 x 1.25	7	18	11	12	M18 x 1.5
63	35	32	85	27	64	20	40	10	17	11	M10 x 1.25	7	18	14	15	M18 x 1.5
80	40	37	102	32	78	25	52	14	21	13	M12 x 1.75	10	22	17	19	M22 x 1.5
100	40	37	116	41	92	30	52	14	21	16	M12 x 1.75	10	26	17	19	M26 x 1.5

Bore size (mm)	N	P	RT	RY	S	Without rod boot		With rod boot							
						H	ZZ		d	e	f	h	ℓ	ZZ	
							Without reinforcement ring	With reinforcement ring						Without reinforcement ring	With reinforcement ring
40	27	1/4	30	64	84	51	146	146	56	43	11.2	59	1/4 stroke	154	154
50	30	3/8	30	76	90	58	159	160	64	52	11.2	66	1/4 stroke	167	168
63	31	3/8	40	92	98	58	170	171	64	52	11.2	66	1/4 stroke	178	179
80	37	1/2	45	112	116	71	204	206	76	65	12.5	80	1/4 stroke	213	215
100	40	1/2	50	136	126	72	215	217	76	65	14	81	1/4 stroke	224	226

Note 1) When a flange bracket is mounted on the head cover side of the basic type with bore size of ø50 to ø100 and stroke of 1001 mm or more, it is necessary to loosen the tie-rod to adjust the M dimension. When head flange type is ordered, adjustment is not necessary.

Note 2) For models with bore size of ø50 to ø100 and stroke of 1001 mm or more, do not mount a flange bracket on the rod cover side of the basic type since H dimension is different from those shown above. When rod flange type is used, order with the part number with bracket.

Air Cylinder: Standard Type Double Acting, Single Rod



CG1 Series

ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

RoHS

How to Order



CG1 B N 20 - 100 Z - - -

With auto switch CDG1 B N 20 - 100 Z - - - M9BW - - -

Mounting

B	Basic
Z*	Basic (without trunnion mounting female thread)
L	Axial foot
F	Rod flange
G	Head flange
U*	Rod trunnion
T*	Head trunnion
D	Clevis

* Not available for ø80 and ø100.
* Mounting bracket is shipped together with the product, but not assembled.
* The cylinder for F, G, L, D mounting types is Z: Basic (without trunnion mounting female thread).

Bore size

20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

Type

N	Rubber bumper
A	Air cushion

Port thread type

Rubber bumper		Air cushion	
Nil	Rc ø20 to ø100	M5 x 0.8 Rc ø20, ø25	ø20, ø25
TN	NPT ø20 to ø100	NPT* ø32 to ø100	ø32 to ø100
TF	M5 x 0.8 ø20, ø25	G* ø32 to ø100	ø32 to ø100
	G ø32 to ø100		

* Not available for ø20 and ø25.

Pivot bracket

Nil	None
N	Pivot bracket is shipped together with the product, but not assembled

* Only for D, U, T mounting types
* Pivot bracket is shipped together with the product, but not assembled.

Rod end bracket

Nil	None
V	Single knuckle joint
W	Double knuckle joint

* No bracket is provided for the female rod end.
* Rod end bracket is shipped together with the product, but not assembled.
* A knuckle joint pin is not provided with the single knuckle joint.

Rod end thread

Nil	Male rod end
F	Female rod end

Cylinder stroke (mm)
Refer to "Standard Strokes" on page 293.

Made to Order
For details, refer to page 293.

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Auto switch

Nil	Without auto switch
------------	---------------------

* For applicable auto switches, refer to the table below.

Suffix for cylinder (Rod boot)

Nil	Without rod boot
J	Nylon tarpaulin
K	Heat resistant tarpaulin

* In the case of w/rod boot, and a foot bracket or rod flange as a bracket, those parts are to be assembled at the time of shipment.
* For female rod end, no rod boot is provided.

* Refer to "Ordering Example of Cylinder Assembly" on page 294.

Applicable Auto Switches/Refer to pages 1575 to 1701 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model			Lead wire length (m)					Pre-wired connector	Applicable load		
					DC	AC	Applicable bore size			0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)				
							ø20 to ø63	ø80, ø100										
Solid state auto switch	—	Grommet	—	3-wire (NPN)	5 V, 12 V	—	Perpendicular	M9NV	M9N	G59	●	●	●	○	○	IC circuit		
							In-line	M9PV	M9P	—	●	●	●	○	○			
							In-line	M9BV	M9B	—	●	●	●	○	○			
		Connector		2-wire	12 V	—	—	K59	●	—	●	○	○	○	○	—		
						—	—	H7C	●	—	●	●	—	—				
						—	—	M9NWV	M9NW	—	●	●	●	○	○		IC circuit	
	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	—	—	G59W	●	—	●	○	○	IC circuit			
							—	—	M9PWV	M9PW	—	●	●	●		○		○
							—	—	M9BWV	M9BW	—	●	●	●		○	○	
	Water resistant (2-color indicator)	Grommet	2-wire	12 V	3-wire (NPN)	5 V, 12 V	—	—	—	K59W	●	—	●	○	○	—		
								—	—	M9NAV*1	M9NA*1	—	○	○	●		○	IC circuit
								—	—	M9PAV*1	M9PA*1	—	○	○	●		○	
Connector		2-wire	12 V	3-wire (PNP)	5 V, 12 V	—	—	—	M9BAV*1	M9BA*1	—	○	○	●	○	—		
							—	—	—	—	G5BA*1	—	○	○	●		○	
							—	—	—	—	—	—	○	○	●		○	
With diagnostic output (2-color indicator)	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	—	—	—	H7NF	●	—	●	○	○	IC circuit			
							—	—	A96V	A96	—	●	—	●		—	—	
							—	—	A93V*2	A93	—	●	●	●		—	—	
	Connector	No	2-wire	24 V	12 V	—	—	100 V	A90V	A90	—	●	—	●	—	IC circuit		
								100 V or less	—	—	—	—	—	—	—		—	
								200 V or less	—	—	B54	—	●	—	●		—	—
Grommet	Yes	2-wire	24 V	—	—	—	—	—	C73C	—	●	—	●	—				
							—	—	—	—	—	—	—		—	—		
							24 V or less	—	—	C80C	—	●	—		●	—	IC circuit	
—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	B59W		●	—	●	—	—			

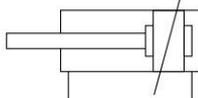
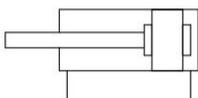
*1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.
A water-resistant type cylinder is recommended for use in an environment which requires water resistance. However, please contact SMC for water-resistant cylinder of ø20 and ø25.
*2 1 m type lead wire is only applicable to D-A93.
* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW 5 m..... Z (Example) M9NWZ * Solid state auto switches marked with "○" are produced upon receipt of order.
1 m..... M (Example) M9NWM None..... N (Example) H7CN
3 m..... L (Example) M9NWL
* Since there are other applicable auto switches than listed above, refer to page 361 for details.
* For details about auto switches with pre-wired connector, refer to pages 1648 and 1649.
* The D-A9□□/M9□□□ auto switches are shipped together, (but not assembled). (However, only the auto switch mounting brackets are assembled before shipment.)



Symbol

Rubber bumper

Air cushion



Made to Order: Individual Specifications
(For details, refer to page 362.)

Symbol	Specifications
-X446	PTFE grease

Made to Order

[Click here for details](#)

Symbol	Specifications
-XA□	Change of rod end shape
-XB6	Heat resistant cylinder (-10 to 150°C)*1
-XB7	Cold resistant cylinder (-40 to 70°C)*2
-XB9	Low speed cylinder (10 to 50 mm/s)
-XB13	Low speed cylinder (5 to 50 mm/s)
-XC4	With heavy duty scraper
-XC6	Made of stainless steel
-XC8	Adjustable stroke cylinder/Adjustable extension type
-XC9	Adjustable stroke cylinder/Adjustable retraction type
-XC10	Dual stroke cylinder/Double rod type
-XC11	Dual stroke cylinder/Single rod type
-XC12	Tandem cylinder
-XC13	Auto switch rail mounting
-XC20	Head cover axial port
-XC22	Fluororubber seal*1
-XC27	Double clevis and double knuckle joint pins made of stainless steel
-XC29	Double knuckle joint with spring pin
-XC35	With coil scraper
-XC37	Larger throttle diameter of connection port
-XC42	Built-in shock absorber in head cover side
-XC85	Grease for food processing equipment

*1 Cylinders with rubber bumper have no bumper.

*2 Only compatible with cylinders with rubber bumper, but has no bumper.

Refer to pages 355 to 361 for cylinders with auto switches.

- Auto switch proper mounting position (detection at stroke end) and its mounting height
- Minimum stroke for auto switch mounting
- Auto switch mounting brackets/Part no.
- Operating range
- Cylinder mounting bracket, by stroke/Auto switch mounting surfaces



Precautions

Refer to page 362-1 before handling.

Specifications

Bore size (mm)		20	25	32	40	50	63	80	100	
Action	Double acting, Single rod									
Lubricant	Not required (Non-lube)									
Fluid	Air									
Proof pressure	1.5 MPa									
Maximum operating pressure	1.0 MPa									
Minimum operating pressure	0.05 MPa									
Ambient and fluid temperature	Without auto switch: -10°C to 70°C (No freezing) With auto switch : -10°C to 60°C									
Piston speed	50 to 1000 mm/s							50 to 700 mm/s		
Stroke length tolerance	Up to 1000 st ^{+1.4} ₀ mm, Up to 1500 st ^{+1.8} ₀ mm									
Cushion	Rubber bumper, Air cushion									
Mounting**	Basic, Basic (without trunnion mounting female thread), Axial foot, Rod flange, Head flange, Rod trunnion, Head trunnion, Clevis									
Allowable kinetic energy (J)	Rubber bumper	Male rod end	0.28	0.41	0.66	1.20	2.00	3.40	5.90	9.90
		Female rod end	0.11	0.18	0.29	0.52	0.91	1.54	2.71	4.54
	Air cushion	Male rod end	R: 0.35 H: 0.42	R: 0.56 H: 0.65	0.91	1.80	3.40	4.90	11.80	16.70
		Female rod end	0.11	0.18	0.29	0.52	0.91	1.54	2.71	4.54

* R: Rod side, H: Head side

** Cylinder sizes ø80 and ø100 do not have basic (without trunnion mounting female thread), rod trunnion and head trunnion types. Foot, flange and clevis types of cylinder sizes from ø20 to ø63 do not have trunnion mounting female thread. Operate the cylinder within the allowable kinetic energy.

Accessories/Refer to page 309 for part numbers and dimensions.

Mounting		Basic	Axial foot	Rod flange	Head flange	Rod trunnion	Head trunnion	Clevis
Standard	Rod end nut	●	●	●	●	●	●	●
	Clevis pin	—	—	—	—	—	—	●
Option	Single knuckle joint	●	●	●	●	●	●	●
	Double knuckle joint (with pin)*2	●	●	●	●	●	●	●
	Pivot bracket*1	—	—	—	—	●*1	●*1	●
	Rod boot	●	●	●	●	●	●	●

*1 Not available for ø80 and ø100.

*2 A double knuckle joint pin and retaining rings are shipped together.

*3 Stainless steel mounting brackets and accessories are also available.

Refer to page 309-1 for details.

Standard Strokes

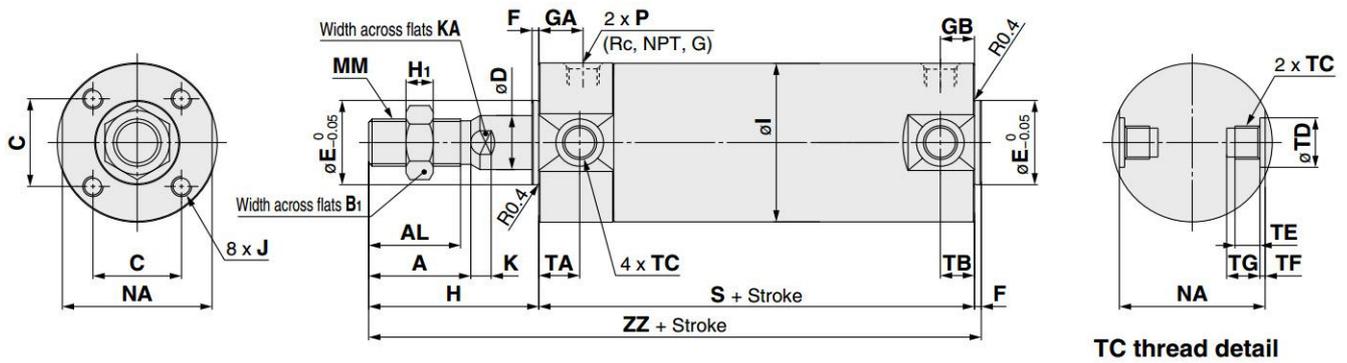
Bore size	Standard stroke ^{Note 1)}		Maximum manufacturable stroke ^{Note 2)}	
			(mm)	
20	25, 50, 75, 100, 125, 150, 200		201 to 1500	
25				
32				
40				
50, 63	25, 50, 75, 100, 125, 150, 200, 250, 300		301 to 1500	
80				
100				

Note 1) Intermediate strokes not listed above are produced upon receipt of order. Manufacture of intermediate strokes at 1 mm intervals is possible. (Spacers are not used.)

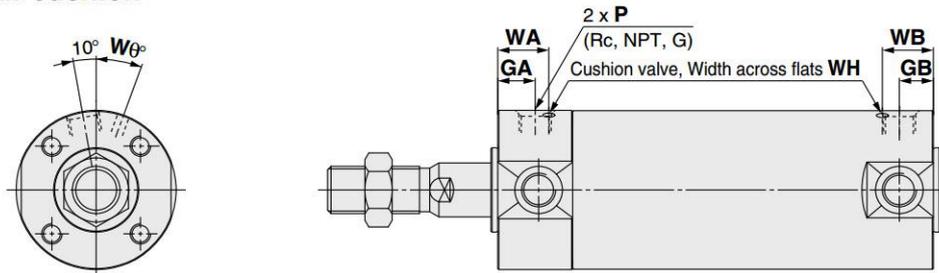
Note 2) The maximum manufacturable stroke shows the long stroke.

Note 3) Applicable strokes should be confirmed according to the usage. For details, refer to "Air Cylinders Model Selection" on front matter pages. In addition, the products that exceed the standard stroke might not be able to fulfill the specifications due to the deflection etc.

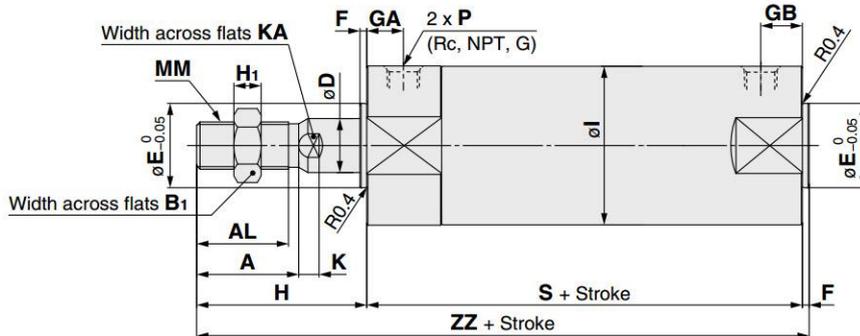
Basic: CG1BN



With air cushion



Basic (Without trunnion mounting female thread): CG1ZN



Bore size	Stroke range		Rc, NPT port			G port			A	AL	B ₁	C	D	E	F	H	H ₁	I	J	K	KA	MM
	Standard	Long stroke	GA	GB	P	GA	GB	P														
20	Up to 200	201 to 1500	12	10 (12)	1/8	12	10 (12)	M5 x 0.8	18	15.5	13	14	8	12	2	35	5	26	M4 x 0.7 depth 7	5	6	M8 x 1.25
25	Up to 300	301 to 1500	12	10 (12)	1/8	12.5	10 (12.5)	M5 x 0.8	22	19.5	17	16.5	10	14	2	40	6	31	M5 x 0.8 depth 7.5	5.5	8	M10 x 1.25
32	Up to 300	301 to 1500	12	10 (12)	1/8	10.5	10 (10.5)	1/8	22	19.5	17	20	12	18	2	40	6	38	M5 x 0.8 depth 8	5.5	10	M10 x 1.25
40	Up to 300	301 to 1500	13	10 (13)	1/8	13	10 (10)	1/8	30	27	19	26	16	25	2	50	8	47	M6 x 1 depth 12	6	14	M14 x 1.5
50	Up to 300	301 to 1500	14	12 (14)	1/4	14	12 (14)	1/4	35	32	27	32	20	30	2	58	11	58	M8 x 1.25 depth 16	7	18	M18 x 1.5
63	Up to 300	301 to 1500	14	12 (14)	1/4	14	12 (14)	1/4	35	32	27	38	20	32	2	58	11	72	M10 x 1.5 depth 16	7	18	M18 x 1.5
80	Up to 300	301 to 1500	20	16 (20)	3/8	17.5	16 (17.5)	3/8	40	37	32	50	25	40	3	71	13	89	M10 x 1.5 depth 22	10	22	M22 x 1.5
100	Up to 300	301 to 1500	20	16 (20)	1/2	17.5	16 (17.5)	1/2	40	37	41	60	30	50	3	71	16	110	M12 x 1.75 depth 22	10	26	M26 x 1.5

(mm)

Bore size	NA	S	TA	TB	ZZ
25	29	69 (77)	11	11	111 (119)
32	35.5	71 (79)	11	10 (11)	113 (121)
40	44	78 (87)	12	10 (12)	130 (139)
50	55	90 (102)	13	12 (13)	150 (162)
63	69	90 (102)	13	12 (13)	150 (162)
80	86	108 (122)	—	—	182 (196)
100	106	108 (122)	—	—	182 (196)

(mm)

Bore size	Rc, NPT port			WA	WB	Wθ	WH
	GA	GB	P				
20	12	10 (12)	M5 x 0.8	16	15 (16)	25°	1.5
25	12.5	10 (12.5)	M5 x 0.8	16	14.5 (16)	25°	1.5
32	12	10 (12)	1/8	16	14 (16)	25°	1.5
40	13	10 (13)	1/8	17	15 (17)	20°	1.5
50	14	12 (14)	1/4	18	16 (18)	20°	3
63	14	12 (14)	1/4	18	17 (18)	20°	3
80	20	16 (20)	3/8	24	20 (24)	20°	4
100	20	16 (20)	1/2	24	20 (24)	20°	4

(mm)

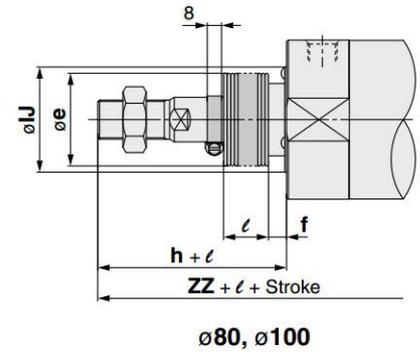
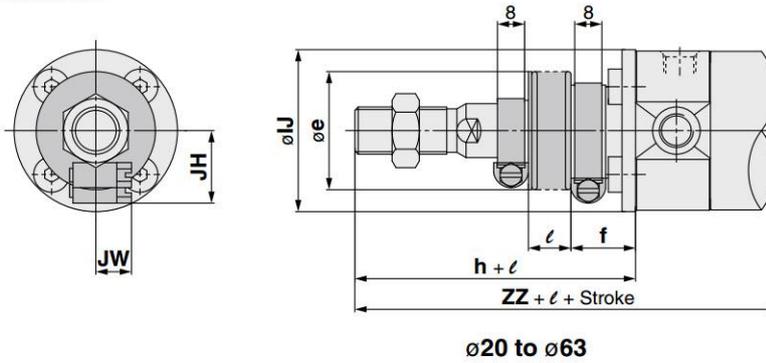
Bore size	TC	TD	TE	TF	TG
25	M6 x 0.75	10 ^{+0.08} ₀	5	1	6.5
32	M8 x 1.0	12 ^{+0.08} ₀	5.5	1	7.5
40	M10 x 1.25	14 ^{+0.08} ₀	6	1.25	8.5
50	M12 x 1.25	16 ^{+0.08} ₀	7.5	2	10
63	M14 x 1.5	18 ^{+0.08} ₀	11.5	3	14.5
80	—	—	—	—	—
100	—	—	—	—	—

Note) (): Denotes the dimensions for long stroke.

* Cylinder sizes ø80 and ø100 do not have trunnion mounting female thread on the width across flats NA.

Basic: CG1BN

With rod boot



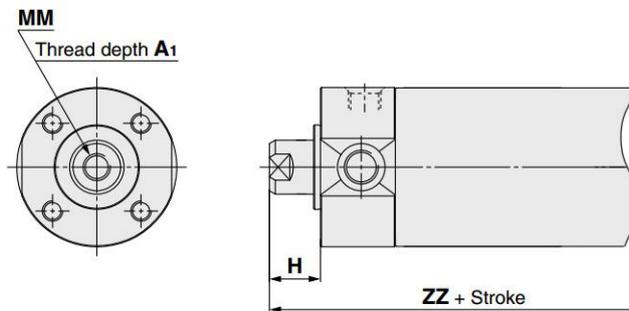
With Rod Boot

(mm)

Bore size	e	f	h	LJ	JH (Reference)	JW (Reference)	ℓ	ZZ
20	30	18	55	27	15.5	10.5	1/4 stroke	126 (134)
25	30	19	62	32	16.5	10.5		133 (141)
32	35	19	62	38	18.5	10.5		135 (143)
40	35	19	70	48	21.5	10.5		150 (159)
50	40	19	78	59	24	10.5		170 (182)
63	40	20	78	72	24	10.5		170 (182)
80	52	10	80	59	—	—		191 (205)
100	62	7	80	71	—	—		191 (205)

* The minimum stroke with rod boot is 20 mm.

Female rod end



Female Rod End

(mm)

Bore size	A1	H	MM	ZZ
20	8	13	M4 x 0.7	84 (92)
25	8	14	M5 x 0.8	85 (93)
32	12	14	M6 x 1	87 (95)
40	13	15	M8 x 1.25	95 (104)
50	18	16	M10 x 1.5	108 (120)
63	18	16	M10 x 1.5	108 (120)
80	21	19	M14 x 1.5	130 (144)
100	25	22	M16 x 1.5	133 (147)

* When female thread is used, use a washer etc. to prevent the contact part at the rod end from being deformed depending on the material of the workpiece.

标准气缸 DSBC, 符合 ISO 15552

Standards-based cylinders DSBC, ISO 15552

Type codes

型号	
双作用	
DSBC	标准气缸
001	Series
DSBC	Standards-based cylinder, double-acting, based on ISO 15552

抗扭转	
-	不带抗扭转
Q	带抗扭转
002	Protection against rotation
	None
Q	With protection against rotation

缸径 Ø [mm]	
004	Piston diameter [mm]
32	32
40	40
50	50
63	63
80	80
100	100
125	125

夹紧装置	
-	无
C	已安装
006	Clamping unit
	None
C	Attached

终端位置锁	
-	无
E1	位于两端
E2	活塞杆处于推进位置
E3	活塞杆处于返回位置
007	End-position locking
	None
E1	Both sides
E2	With advanced piston rod
E3	With retracted piston rod



运行特性	
-	标准
L	低摩擦
U	恒定慢速运动
L1	低摩擦, 用于衡器应用
003	Running characteristics
	Standard
L	Low friction
U	Uniform, slow movement
L1	Low friction for balancer applications

行程 [mm]	
005	Stroke [mm]
20	20
25	25
30	30
40	40
50	50
60	60
70	70
80	80
100	100
125	125
150	150
160	160
200	200
250	250
300	300
320	320
400	400
500	500
...	1 ... 2800

活塞杆	
-	一端活塞杆
T	双端活塞杆
008	Piston rod type
	At one end
T	Through piston rod

活塞杆螺纹类型	
-	外螺纹
F	内螺纹

009	Piston rod thread type
	Male thread
F	Female thread

型材类型	
-	一侧带传感器沟槽
D3	三侧带传感器沟槽

010	Profile type
	Sensor slot on one profile side only
D3	Sensor slots on 3 profile sides

缓冲	
P	两端带弹性缓冲垫
PPS	两端带自调节气动缓冲
PPV	气动缓冲, 两端可调

011	Cushioning
P	Elastic cushioning rings/plates on both sides
PPS	Pneumatic cushioning, self-adjusting at both ends
PPV	Pneumatic cushioning, adjustable at both ends

位置感测	
A	通过接近开关

012	Position sensing
A	For proximity sensor

General technical data								
Piston diameter		32	40	50	63	80	100	125
Design	Piston/piston rod/profile barrel							
Mode of operation	Double-acting							
Pneumatic connection	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2	G1/2	
Piston rod thread	M10x1.25	M12x1.25	M16x1.5	M16x1.5	M20x1.5	M20x1.5	M27x2	
Stroke								
DSBC...	[mm]	1 ... 2800						
DSBC...-Q	[mm]	1 ... 1500						-
DSBC...-L1	[mm]	10 ... 1000						
DSBC...-C	[mm]	10 ... 2000						
DSBC...-E1/-E2/-E3	[mm]	10 ... 2000						-
DSBC...-P2	[mm]	10 ... 500						-
DSBC...-E	[mm]	1 ... 2000						
DSBC...-L	[mm]	1 ... 2000						
Cushioning								
DSBC...-P	Elastic cushioning rings/plates at both ends							
DSBC...-PPV	Pneumatic cushioning, adjustable at both ends							
DSBC...-PPS	Pneumatic cushioning, self-adjusting at both ends							
Cushioning length								
DSBC...-PPV	[mm]	17	19	22	22	31	31	45
DSBC...-E1/-E2/-E3	[mm]	17	19	15	15	15	15	-
Position sensing	Via proximity switch							
Type of mounting	With female thread/accessories							
Mounting position	Any							

Compendium of ACQ Series

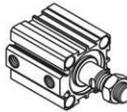
In accordance with JIS standard

Magnetic switch slots around the cylinder body
There are magnetic switch slots around the cylinder body convenient to install inducting switch.

Two kinds of rod type

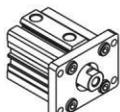


Female thread

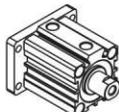


Male thread

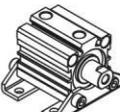
Multi-mounting accessories



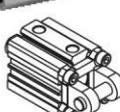
FA Type



FB Type



LB Type



CB Type

Thirteen bore size are available
Bore size: 12, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 140, 160

Multi-type cylinder

ACQ: Compact cylinder (Double acting)	
ASQ: Compact cylinder (Single acting-push)	
ATQ: Compact cylinder (Single acting-pull)	
ACQD: Compact cylinder (Double rod)	
ACQJ: Compact cylinder (Adjustable stroke)	
TACQ: Compact cylinder (Double acting with guider)	

Compact structure
C clip is adopted to connect the cylinder body and back cover or front cover, and riveted structure is adopted to connect piston and piston rod to make it compact and reliable.

Criteria for selection: Cylinder thrust

Unit: Newton(N)

Bore size	Rod size	Acting type	Pressure area(mm ²)	Operating pressure(MPa)									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7			
12	6	Single acting	Push side	113.1	-	13.6	24.9	36.2	47.5	58.9	70.2		
			Pull side	84.8	-	8.0	16.4	24.9	33.4	41.9	50.4		
		Double acting	Push side	113.1	11.3	22.6	33.9	45.2	56.5	67.9	79.2		
			Pull side	84.8	8.5	17.0	25.4	33.9	42.4	50.9	59.4		
16	8	Single acting	Push side	201.1	-	27.0	47.1	67.2	87.3	107.4	127.5		
			Pull side	150.8	-	17.0	32.0	47.1	62.2	77.3	92.4		
		Double acting	Push side	201.1	20.1	40.2	60.3	80.4	100.5	120.6	140.7		
			Pull side	150.8	15.1	30.2	45.2	60.3	75.4	90.5	105.6		
20	10	Single acting	Push side	314.2	-	36.8	68.2	99.7	131.1	162.5	193.9		
			Pull side	235.6	-	21.1	44.7	68.2	91.8	115.4	138.9		
		Double acting	Push side	314.2	31.4	62.8	94.2	125.7	157.1	188.5	219.9		
			Pull side	235.6	23.6	47.1	70.7	94.2	117.8	141.4	164.9		
25	12	Single acting	Push side	490.9	18.1	67.2	116.3	165.3	214.4	263.5	312.6		
			Pull side	377.8	6.8	44.6	82.3	120.1	157.9	195.7	233.4		
		Double acting	Push side	490.9	49.1	98.2	147.3	196.3	245.4	294.5	343.6		
			Pull side	377.8	37.8	75.6	113.3	151.1	188.9	226.7	264.4		
32	16	Single acting	Push side	804.2	27.4	107.8	188.3	268.7	349.1	429.5	510.0		
			Pull side	603.2	7.3	67.6	128.0	188.3	248.6	308.9	369.2		
		Double acting	Push side	804.2	80.4	160.8	241.3	321.7	402.1	482.5	563.0		
			Pull side	603.2	60.3	120.6	181.0	241.3	301.6	361.9	422.2		
40	16	Single acting	Push side	1256.6	44.7	170.3	296.0	421.7	547.3	673.0	798.6		
			Pull side	1055.6	24.6	130.1	235.7	341.2	446.8	552.3	657.9		
		Double acting	Push side	1256.6	125.7	251.3	377.0	502.7	628.3	754.0	879.6		
			Pull side	1055.6	105.6	211.1	316.7	422.2	527.8	633.3	738.9		
		50	20	Single acting	Push side	1963.5	96.3	292.7	489.0	685.4	881.7	1078.1	1274.4
					Pull side	1649.3	64.9	229.9	394.8	559.7	724.7	889.6	1054.5
				Double acting	Push side	1963.5	196.3	392.7	589.0	785.4	981.7	1178.1	1374.4
					Pull side	1649.3	164.9	329.9	494.8	659.7	824.7	989.6	1154.5
63	20	Single acting	Push side	3117.2	141.7	453.4	765.2	1076.9	1388.6	1700.3	2012.1		
			Pull side	2803.1	110.3	390.6	670.9	951.2	1231.5	1511.9	1792.2		
		Double acting	Push side	3117.2	311.7	623.4	935.2	1246.9	1558.6	1870.3	2182.1		
			Pull side	2803.1	280.3	560.6	840.9	1121.2	1401.5	1681.9	1962.2		
80	25	Double acting	Push side	5026.5	502.7	1005.3	1508.0	2010.6	2513.3	3015.9	3518.6		
			Pull side	4535.7	453.6	907.1	1360.7	1814.3	2267.8	2721.4	3175.0		
		Single acting	Push side	7854.0	785.4	1570.8	2356.2	3141.6	3927.0	4712.4	5497.8		
			Pull side	7049.7	705.0	1409.9	2114.9	2819.9	3524.9	4229.8	4934.8		
125	32	Double acting	Push side	12271.8	1227.2	2454.4	3681.5	4908.7	6135.9	7363.1	8590.2		
			Pull side	11467.6	1146.8	2293.5	3440.3	4587.0	5733.8	6880.6	8027.3		
		Single acting	Push side	15393.8	1539.4	3078.8	4618.1	6157.5	7696.9	9236.3	10775.7		
			Pull side	14589.6	1459.0	2917.9	4376.9	5835.8	7294.8	8753.8	10212.7		
140	32	Double acting	Push side	20106.2	2010.6	4021.2	6031.9	8042.5	10053.1	12063.7	14074.3		
			Pull side	18849.6	1885.0	3769.9	5654.9	7539.8	9424.8	11309.8	13194.7		
		Single acting	Push side	20106.2	2010.6	4021.2	6031.9	8042.5	10053.1	12063.7	14074.3		
			Pull side	18849.6	1885.0	3769.9	5654.9	7539.8	9424.8	11309.8	13194.7		

Installation and application



1. When load changes in the work, the cylinder with abundant output capacity shall be selected.
2. Relative cylinder with high temperature resistance or corrosion resistance shall be chosen under the condition of high temperature or corrosion.
3. Necessary protection measure shall be taken in the environment with higher humidity, much dust or water drops, oil dust and welding dregs.
4. Dirty substances in the pipe must be eliminated before cylinder is connected with pipeline to prevent the entrance of particles into the cylinder.
5. The medium used by cylinder shall be filtered to 40 μm or below.
6. As both of the front cover and piston of the cylinder are short, typically too large stroke can not be selected.
7. Anti-freezing measure shall be adopted under low temperature environment to prevent moisture freezing.
8. The cylinder shall avoid the influence of side load in operation to maintain the normal work of cylinder and extend the service life.
9. If the cylinder is dismantled and stored for a long time, please conduct anti-rust treatment to the surface. Anti-dust caps shall be added in air inlet and outlet ports. The front and back cover can not be dismantled, which shall be especially noticed.
10. C clip Installation:
 - 10.1. Removal & Installation of C clip must be done with proper tool & care.
 - 10.2. Ensure C clip is securely fitted into the proper slot to prevent leakage.

Compact cylinder

ACQ Series

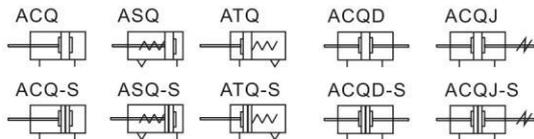


Specification

Bore size(mm)	12	16	20	25	32	40	50	63	80	100
Acting type	Double acting									
	Single acting_Push type、Single acting_Pull type									-
Fluid	Air(to be filtered by 40 μm filter element)									
Operating pressure	Double acting		0.15~1.0MPa(22~145psi)							
	Single acting		0.2~1.0MPa(28~145psi)							
Proof pressure	1.5MPa(215psi)									
Temperature °C	-20~70									
Speed range mm/s	Double acting: 30~500					Single acting: 50~500				
Stroke tolerance	Stroke≤100 ^{+1.0} ₀					Stroke>100 ^{+1.5} ₀				
Cushion type	Bumper									
Port size [Note1]	M5×0.8			1/8"			1/4"		3/8"	

[Note1] PT thread, G thread and NPT thread are available.
Add) Refer to P353 for detail of sensor switch.

Symbol



Product feature

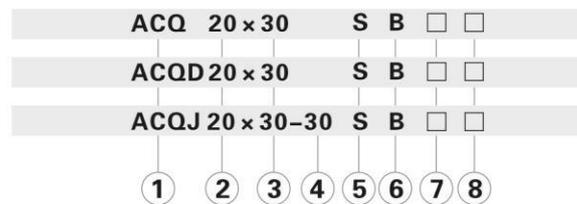
- JIS standard is implemented.
- C clip is adopted to connect the cylinder body and back cover or front cover, and riveted structure is adopted to connect piston and piston rod to make it compact and reliable.
- The internal diameter of the body is treated with rolling followed by the treatment of hard anodizing, forming an excellent abrasion resistance and durability.
- The seal of piston adopts heterogeneous two-way seal structure. It has compact dimension and the function of grease reservation.
- Compact structure can effectively save installation space.
- There are magnetic switch slots around the cylinder body, which is convenient to install inducting switch.
- Installing accessories with various specifications are optional.

Stroke

Bore size (mm)	Standard stroke (mm)										Max.std stroke
	5	10	15	20	25	30	35	40	45	50	
12	Double acting										50
	Single acting										20
16	Double acting										60
	Single acting										20
20	Double acting										100
	Single acting										30
25	Double acting										100
	Single acting										30
32	Double acting										100
	Single acting										
40	Double acting										100
	Single acting										
50	Double acting										
	Single acting										
63	Double acting										
	Single acting										
80	Double acting										100
	Single acting										
100	Double acting										100
	Single acting										

- Note) 1. Please contact the company for other special strokes.
2. The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder. e.g. 23mm stroke cylinder has the same dimensions of 25 std. stroke cylinder.

Ordering code



① Model	② Bore size	③ Stroke	④ Adjustable Stroke	⑤ Magnet	⑥ Rod type	⑦ Mounting type [Note1]	⑧ Thread type [Note2]
ACQ: Compact cylinder (Double acting)	12 16 20 25 32 40 50 63 80 100	Refer to stroke table for details	No this code	Blank: Without magnet S: With magnet	Blank: Female thread B: Male thread	Blank: No accessories FA: FA type FB: FB type CB: CB type LB: LB type	Blank: PT G: G T: NPT
ASQ: Compact cylinder (Single acting-push)	12 16 20 25 32 40 50 63						
ATQ: Compact cylinder (Single acting-pull)	12 16 20 25 32 40 50 63						
ACQD: Compact cylinder (Double rod)	12 16 20 25 32 40 50 63 80 100						
ACQJ: Compact cylinder (Adjustable stroke)	12 16 20 25 32 40 50 63 80 100		10 20 30 40 50 75 100			Blank: No accessories FA: FA type FB: FB type LB: LB type	

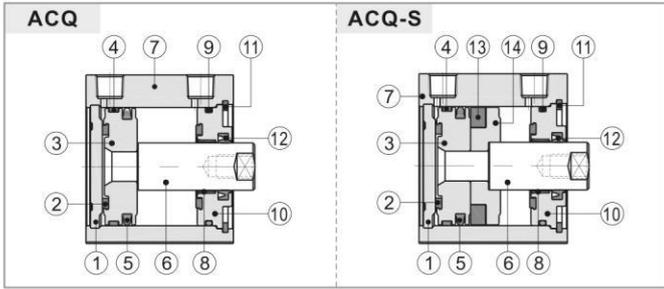
[Note1] Please refer to page 122~123 for accessory parts.

[Note2] Standard thread is blank here.

Compact cylinder

ACQ Series

Inner structure and material of major parts

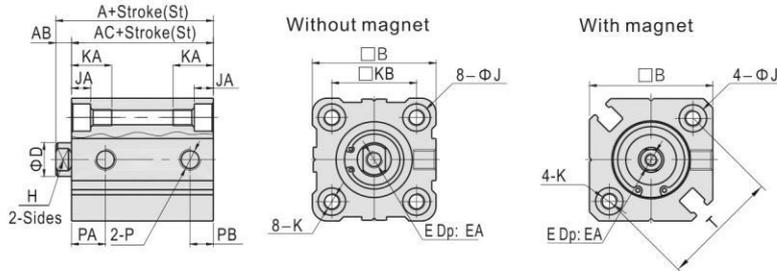


NO.	Item	Material
1	Back cover	No(Φ 12, 16)\Aluminum alloy(Others)
2	Bumper	TPU(Φ 12~25)\NBR(Others)
3	Piston	Brass(Φ 12, 16)\Aluminum alloy(Others)
4	Wear ring	No(Φ 12~32)\Wear resistant material(Others)
5	Piston seal	NBR
6	Piston rod	Carbon steel with 20 μ m chrome plated
7	Body	Aluminum alloy
8	Bushing	No(Φ 12~32)\Wear resistant material(Others)
9	O-ring	NBR
10	Front cover	Aluminum alloy
11	C clip	Spring steel
12	Front cover packing	NBR
13	Magnet	Sintered metal(Neodymium-iron-boron)(Φ 12~25)\Plastic(Others)
14	Magnet holder	Brass(Φ 12, 16)\Aluminum alloy(Others)

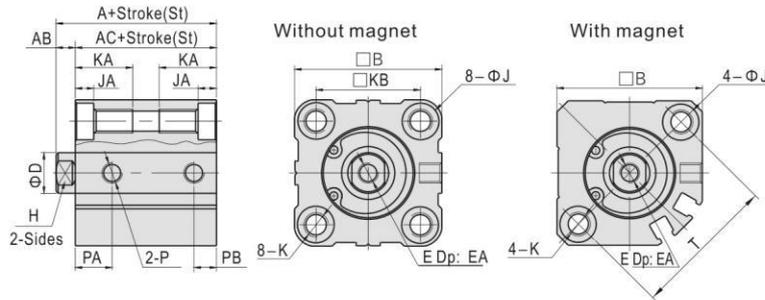
Dimensions

ACQ

Φ 12, Φ 16

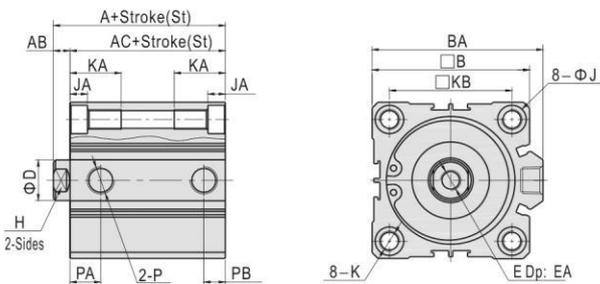


Φ 20, Φ 25



Type	Without magnet				With magnet														Without magnet		With magnet				
	A		AC		A	AC	AB	B	D	E	EA	H	J	JA	K	KA	KB	P	PA	PB	PA	PB	T		
Stroke	St ≤ 50	St = 55	St ≥ 60	St ≥ 60	St = 55	St ≥ 60																			
12	20.5	-	-	17	-	-	31.5	28	3.5	25	6	M3 × 0.5	6	5	6	3.5	M4 × 0.7 Thru.hole: Φ 3.4	11	15.5	M5 × 0.8	7.5	5	9	7	22
16	22	22	22	18.5	18.5	18.5	34	30.5	3.5	29	8	M4 × 0.7	8	6	6	3.5	M4 × 0.7 Thru.hole: Φ 3.4	11	20	M5 × 0.8	8	5.5	9.5	5.5	28
20	24	-	34	19.5	-	29.5	36	31.5	4.5	36	10	M5 × 0.8	7	8	9	5.5	M6 × 1.0 Thru.hole: Φ 5.2	17	25.5	M5 × 0.8	9	5.5	9.5	5.5	36
25	27.5	-	37.5	22.5	-	32.5	37.5	32.5	5	40	12	M6 × 1.0	12	10	9	5.5	M6 × 1.0 Thru.hole: Φ 5.2	17	28	M5 × 0.8	11	5.5	11	5.5	40

Φ 32~Φ 100 (Stroke ≤ 100)



Item	A(Without magnet)		A (With magnet)	AB	AC(Without magnet)		AC (With magnet)	B	BA	D	E
	St ≤ 50	St ≥ 60			St ≤ 50	St ≥ 60					
Bore size	St ≤ 50	St ≥ 60	(With magnet)								
32	30	40	40	7	23	33	33	45	49.5	16	M8 × 1.25
40	36.5	46.5	46.5	7	29.5	39.5	39.5	53	57	16	M8 × 1.25
50	38.5	48.5	48.5	8	30.5	40.5	40.5	64	71	20	M10 × 1.5
63	44	54	54	8	36	46	46	77	84	20	M10 × 1.5
80	53.5	63.5	63.5	10	43.5	53.5	53.5	98	104	25	M16 × 2.0
100	65	75	75	12	53	63	63	117	123.5	32	M20 × 2.5

Item	Bore size	EA	H	J	JA	K	KA	KB	P	Without magnet		With magnet	
										PA	PB	PA	PB
32	St=5	13	14	9	5.5	M6 × 1.0 Thru.hole: Φ 5.2	17	34	1/8"	7.5	6.5	10.5	7.5
	St>5									10.5	7.5		
40	St=5	13	14	9	5.5	M6 × 1.0 Thru.hole: Φ 5.2	17	40	1/8"	11	8	10.5	8
	St>5									9	9		
50	St=5	15	17	10.5	6.5	M8 × 1.25 Thru.hole: Φ 6.8	22	50	1/4"	10.5	10.5	10.5	10.5
	St>5									14	9.5		
63	St=5	15	17	14	9	M10 × 1.5 Thru.hole: Φ 8.5	28.5	60	1/4"	15	10.5	15	10.5
	St>5									15	10.5		
80	St=5	20	22	17	11	M12 × 1.75 Thru.hole: Φ 10.3	35.5	77	3/8"	16	14	16	14
	St>5									16	14		
100	St=5	26	27	17	11	M12 × 1.75 Thru.hole: Φ 10.3	35.5	94	3/8"	20	17.5	20	17.5
	St>5									20	17.5		

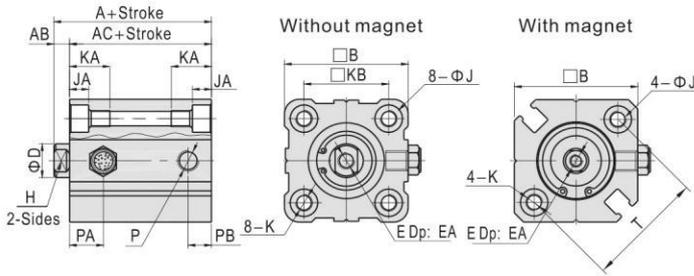
Note) The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder. e.g. 55mm stroke cylinder has the same dimensions of 60 std. stroke cylinder.

Compact cylinder

ACQ Series

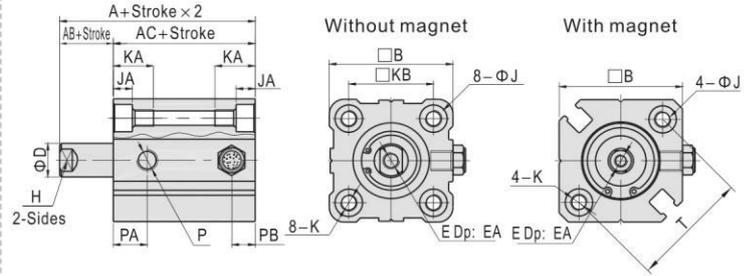
ASQ

Φ12、Φ16

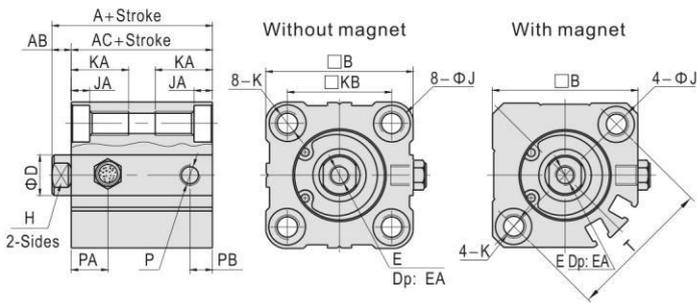


ATQ

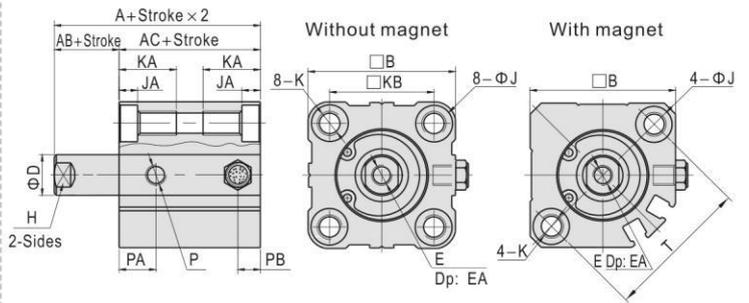
Φ12、Φ16



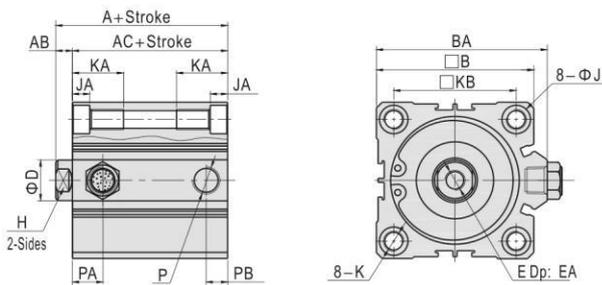
Φ20 Φ25



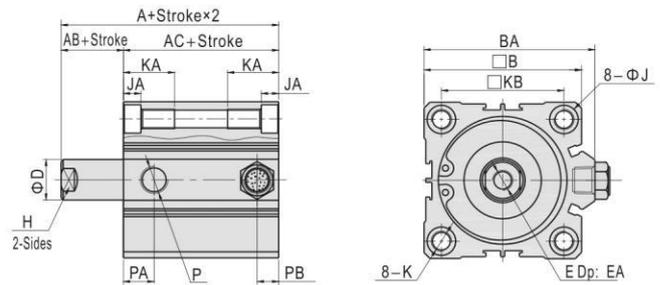
Φ20 Φ25



Φ32~Φ63



Φ32~Φ63



Bore size\Item	A(Without magnet)			A(With magnet)			AB	AC(Without magnet)			AC(With magnet)			B	BA	D	E	EA
	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	-	36.5	41.5	-	3.5	22	27	-	33	38	-	25	-	6	M3×0.5	6
16	27	32	-	39	44	-	3.5	23.5	28.5	-	35.5	40.5	-	29	-	8	M4×0.7	8
20	29	34	39	41	46	51	4.5	24.5	29.5	34.5	36.5	41.5	46.5	36	-	10	M5×0.8	7
25	32.5	37.5	42.5	42.5	47.5	52.5	5	27.5	32.5	37.5	37.5	42.5	47.5	40	-	12	M6×1.0	12
32	35	40	45	45	50	55	7	28	33	38	38	43	48	45	49.5	16	M8×1.25	13
40	41.5	46.5	51.5	51.5	56.5	61.5	7	34.5	39.5	44.5	44.5	49.5	54.5	53	57	16	M8×1.25	13
50	48.5	53.5	58.5	58.5	63.5	68.5	8	40.5	45.5	50.5	50.5	55.5	60.5	64	71	20	M10×1.5	15
63	54	59	64	64	69	74	8	46	51	56	56	61	66	77	84	20	M10×1.5	15

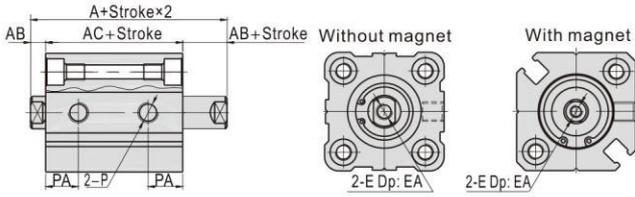
Bore size\Item	H	J	JA	K		KA	KB	P	PA(Without magnet)	PA(With magnet)	PB(Without magnet)	PB(With magnet)	T
12	5	6	3.5	M4×0.7 Thru.hole: Φ3.4		11	15.5	M5×0.8	7.5	9	5	7	22
16	6	6	3.5	M4×0.7 Thru.hole: Φ3.4		11	20	M5×0.8	8	9.5	5.5	5.5	28
20	8	9	5.5	M6×1.0 Thru.hole: Φ5.2		17	25.5	M5×0.8	9	9.5	5.5	5.5	36
25	10	9	5.5	M6×1.0 Thru.hole: Φ5.2		17	28	M5×0.8	11	11	5.5	5.5	40
32	14	9	5.5	M6×1.0 Thru.hole: Φ5.2		17	34	1/8"	10.5	10.5	7.5	7.5	-
40	14	9	5.5	M6×1.0 Thru.hole: Φ5.2		17	40	1/8"	11	11	8	8	-
50	17	10.5	6.5	M8×1.25 Thru.hole: Φ6.8		22	50	1/4"	10.5	10.5	10.5	10.5	-
63	17	14	9	M10×1.5 Thru.hole: Φ8.5		28.5	60	1/4"	15	15	10.5	10.5	-

Compact cylinder

ACQ Series

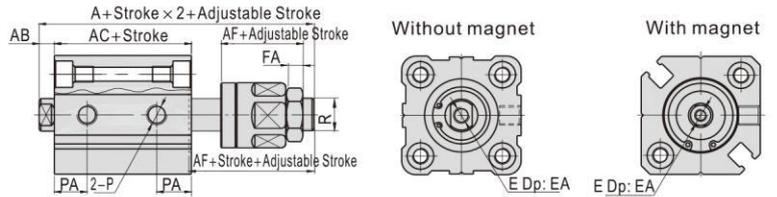
ACQD

Φ12、Φ16

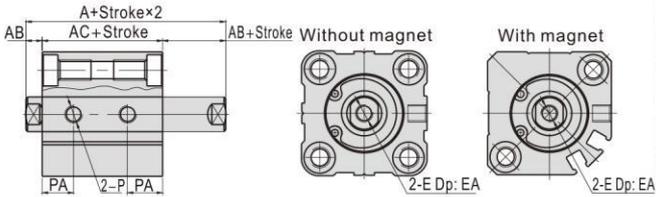


ACQJ

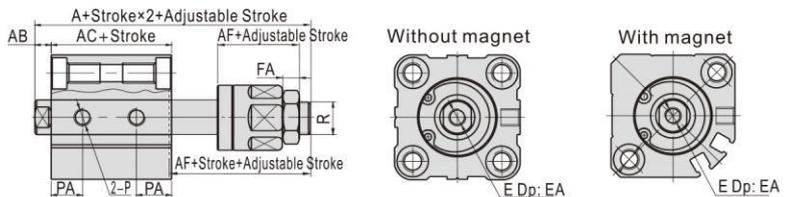
Φ12、Φ16



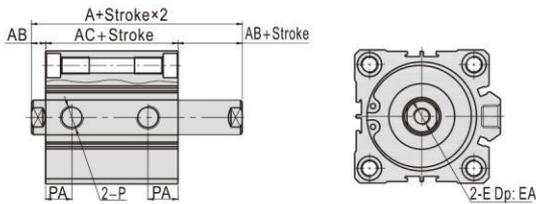
Φ20 Φ25



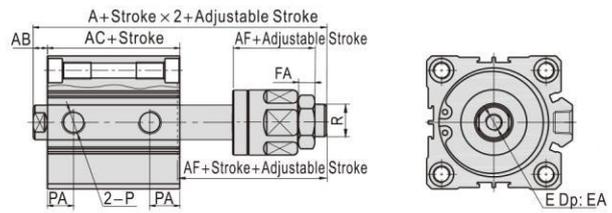
Φ20 Φ25



Φ32~Φ100



Φ32~Φ100

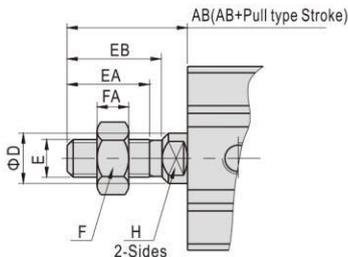


Item	A(ACQD)		A(ACQJ)		AC(ACQD)		AC(ACQJ)		AB	AF	E	EA	FA	PA	R
	Without magnet	With magnet													
12	32.2	39.4	45.2	52.4	25.2	32.4	25.2	32.4	3.5	17	M3 × 0.5	6	4	9	M5 × 0.8
16	33	43	50	60	26	36	26	36	3.5	21	M4 × 0.7	8	5	9.5	M6 × 1.0
20	35	47	55	67	26	38	26	38	4.5	25	M5 × 0.8	7	6	9.5	M8 × 1.25
25	39	49	60.5	70.5	29	39	29	39	5	27	M6 × 1.0	9.5(St=5)/12(St>5)	6	11	M10 × 1.25
32	44.5	54.5	64.9	74.9	30.5	40.5	30.5	40.5	7	28	M8 × 1.25	9(St≤10)/13(St>10)	7	10	M12 × 1.25
40	54	64	74.5	84.5	40	50	40	50	7	28	M8 × 1.25	11(St≤10)/13(St>10)	7	13	M12 × 1.25
50	56.5	66.5	77	87	40.5	50.5	40.5	50.5	8	29	M10 × 1.5	12(St≤10)/15(St>10)	8	13.5	M16 × 1.5
63	58	68	78.4	88.4	42	52	42	52	8	29	M10 × 1.5	12(St≤10)/15(St>10)	8	14.5(St=5)/16(St>5)	M16 × 1.5
80	71	81	95.8	105.8	51	61	51	61	10	35.5	M16 × 2.0	14(St≤15)/20(St>15)	10	16	M20 × 1.5
100	84.5	94.5	114.3	124.3	60.5	70.5	60.5	70.5	12	42.5	M20 × 2.5	20(St≤25)/26(St>25)	13.5	21	M27 × 2.0

Remark) The unmarked dimension is the same as ACQ standard type. Please refer to this page for male thread dimensions.

Male thread

(Bore size: Φ12~Φ100, Strokes≤100)



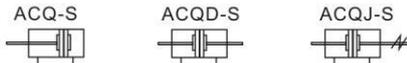
Bore size/Item	AB	D	E	EA	EB	F	FA	H
12	14	6	M5 × 0.8	9	10	8	4	5
16	15.5	8	M6 × 1.0	10	11.5	10	5	6
20	18.5	10	M8 × 1.25	12	13.5	12	6	8
25	22.5	12	M10 × 1.25	15	17	17	6	10
32	28.5	16	M14 × 1.5	20.5	23.5	19	8	14
40	28.5	16	M14 × 1.5	20.5	23.5	19	8	14
50	33.5	20	M18 × 1.5	26	28.5	27	11	17
63	33.5	20	M18 × 1.5	26	28.5	27	11	17
80	43.5	25	M22 × 1.5	32.5	35.5	32	13	22
100	43.5	32	M26 × 1.5	32.5	35.5	36	13	27

Compact cylinder

ACQ Series—Big bore size



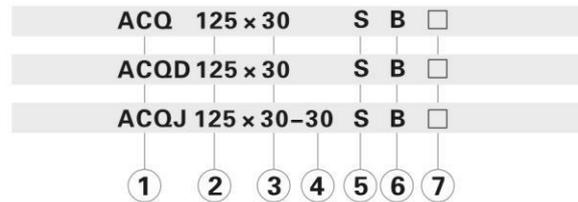
Symbol



Product feature

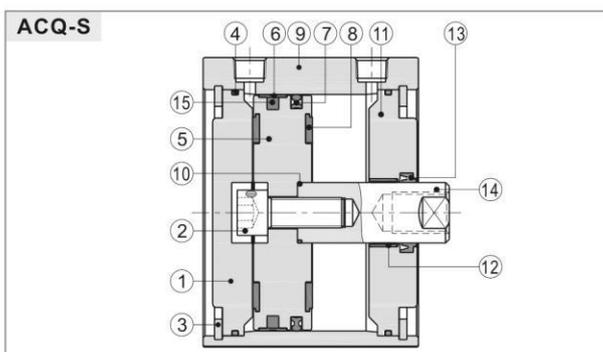
1. JIS standard is implemented.
2. C clip is adopted to connect the cylinder body and back cover or front cover to make it compact and reliable.
3. The internal diameter of the body is treated with rolling followed by the treatment of hard anodizing, forming an excellent abrasion resistance and durability.
4. The seal of piston adopts heterogeneous two-way seal structure. It has compact dimension and the function of grease reservation.
5. Compact structure can effectively save installation space.
6. There are magnetic switch slots around the cylinder body, which is convenient to install inducting switch.

Ordering code



① Model	② Bore size	③ Stroke	④ Adjustable Stroke	⑤ Magnet	⑥ Rod type	⑦ Thread type
ACQ: Compact cylinder (Double acting)	125 140 160	Refer to stroke table for details	No this code	S: With magnet	Blank: Female thread B: Male thread	Blank: PT G: G T: NPT
ACQD: Compact cylinder (Double rod)						
ACQJ: Compact cylinder (Adjustable stroke)			10 20 30 40 50 75 100			

Inner structure and material of major parts



NO.	Item	Material	NO.	Item	Material
1	Back cover	Aluminum alloy	9	Body	Aluminum alloy
2	Screw	Carbon steel	10	O-ring	NBR
3	C clip	Spring steel	11	Front cover	Aluminum alloy
4	O-ring	NBR	12	Bushing	Wear resistant material
5	Piston	Aluminum alloy	13	Front cover packing	NBR
6	Wear ring	Wear resistant material	14	Piston rod	Carbon steel with 20 μm chrome plated
7	Piston seal	NBR	15	Magnet	Rubber
8	Bumper	NBR			

Specification

Bore size(mm)	125	140	160
Acting type	Double acting		
Fluid	Air(to be filtered by 40 μm filter element)		
Operating pressure	0.15~1.0MPa(22~145psi)		
Proof pressure	1.5MPa(215psi)		
Temperature °C	-20~70		
Speed range mm/s	30~500		
Stroke tolerance	Stroke ≤ 100 $+1.0_0$ Stroke > 100 $+1.5_0$		
Cushion type	Bumper		
Port size [Note1]	3/8"		

[Note1] PT thread, G thread and NPT thread are available.
Add) Refer to P353 for detail of sensor switch.

Stroke

Bore size (mm)	Standard stroke (mm)	Max.std stroke
125	10 20 30 40 50 75 100 125 150 175 200 250 300	300
140		
160		

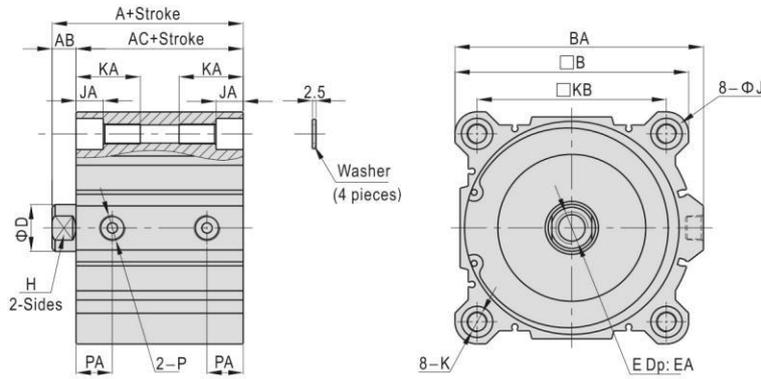
Note) The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder. e.g. 35mm stroke cylinder(bore size 160) has the same dimensions of 40 std. stroke cylinder, so the value of "AC" is 131mm.

Compact cylinder

ACQ Series—Big bore size

Dimensions

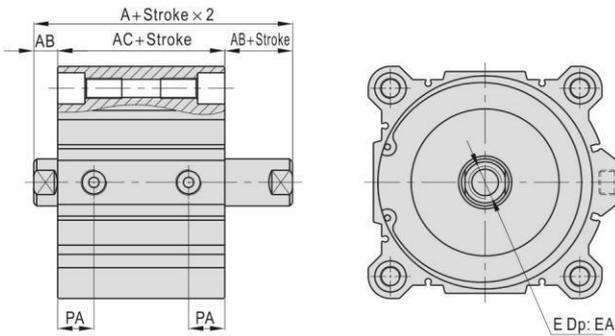
ACQ



Bore size\Item	A	AB	AC	B	BA	D	E	EA(St≤10)	EA(St>10)	H	J	JA	K	KA	KB	P	PA
125	99	16	83	142	153	32	M22 × 2.5	22.5	30	27	21.5	18.4	M14 × 2.0 Thru.hole: Φ 12.4	43.5	114	3/8"	24.5
140	99	16	83	158	168	32	M22 × 2.5	22.5	30	27	21.5	18.4	M14 × 2.0 Thru.hole: Φ 12.4	43.5	128	3/8"	24.5
160	108	17	91	178	188	40	M24 × 3.0	26.5	33	36	24.5	21.2	M16 × 2.0 Thru.hole: Φ 14.4	49	144	3/8"	27.5

Remark) Washer must be used when the cylinder be mounted by through hole. Please refer to this page for male thread dimensions.

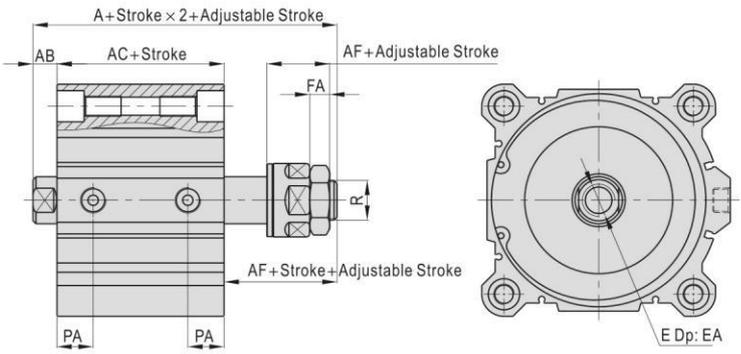
ACQD



Bore size\Item	A	AB	AC	E	EA		PA
					St≤10	St>10	
125	115	16	83	M22 × 2.5	22.5	30	24.5
140	115	16	83	M22 × 2.5	22.5	30	24.5
160	125	17	91	M24 × 3.0	26.5	33	27.5

Remark) The unmarked dimension is the same as ACQ standard type. Please refer to this page for male thread dimensions.

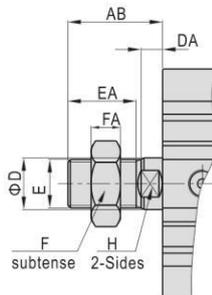
ACQJ



Bore size\Item	A	AB	AC	AF	E	EA		FA	PA	R
						St≤10	St>10			
125	140.8	16	83	42.5	M22 × 2.5	22.5	30	13.5	24.5	M27 × 2.0
140	140.8	16	83	42.5	M22 × 2.5	22.5	30	13.5	24.5	M27 × 2.0
160	175.3	17	91	68	M24 × 3.0	26.5	33	18	27.5	M36 × 2.0

Remark) The unmarked dimension is the same as ACQ standard type. Please refer to this page for male thread dimensions.

Male thread



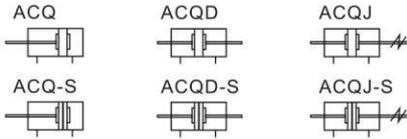
Bore size\Item	AB	D	E	EA	EB	F	FA	H
125	58	32	M30 × 1.5	42	45	46	18	27
140	58	32	M30 × 1.5	42	45	46	18	27
160	64	40	M36 × 1.5	47	50	55	21	36

Compact cylinder

ACQ Series—Longer stroke



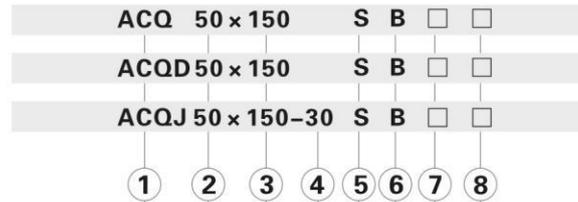
Symbol



Product feature

1. JIS standard is implemented.
2. C clip is adopted to connect the cylinder body and back cover or front cover, and riveted structure is adopted to connect piston and piston rod to make it compact and reliable.
3. The internal diameter of the body is treated with rolling followed by the treatment of hard anodizing, forming an excellent abrasion resistance and durability.
4. The seal of piston adopts heterogeneous two-way seal structure. It has compact dimension and the function of greasel reservation.
5. Compact structure can effectively save installation space.
6. There are magnetic switch slots around the cylinder body, which is convenient to install inducting switch.
7. Installing accessories with various specifications are optional.

Ordering code



Specification

Bore size(mm)	32	40	50	63	80	100
Acting type	Double acting					
Fluid	Air(to be filtered by 40 μ m filter element)					
Operating pressure	0.15~1.0MPa(22~145psi)					
Proof pressure	1.5MPa(215psi)					
Temperature °C	-20~70					
Speed range mm/s	30~500					
Stroke tolerance	+1.5 0					
Cushion type	Bumper					
Port size [Note1]	1/8"		1/4"		3/8"	

[Note1] PT thread, G thread thread and NPT thread are available.
Add) Refer to P353 for detail of sensor switch.

Stroke

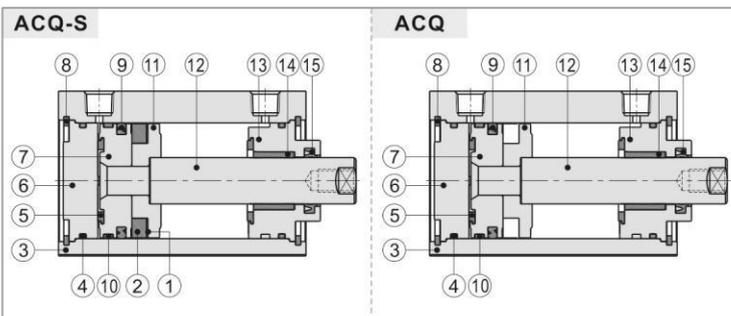
Bore size(mm)	Standard stroke (mm)						Max.std stroke
32 40 50 63 80 100	125	150	175	200	250	300	300

Note) Within allowable stroke scope, when the stroke is larger than the maximum value, it shall be treated as non-standard one. Please contact the company for other special strokes.

① Model	② Bore size	③ Stroke	④ Adjustable Stroke	⑤ Magnet	⑥ Rod type	⑦ Mounting type [Note1]	⑧ Thread type
ACQ: Compact cylinder (Double acting)	32 40 50 63 80 100	Refer to stroke table for details	No this code	Blank: Without magnet S: With magnet	Blank: Female thread B: Male thread	Blank: No accessories FA: FA type FB: FB type CB: CB type LB: LB type	Blank: PT G: G T: NPT
ACQD: Compact cylinder (Double rod)						Blank: No accessories FA: FA type FB: FB type LB: LB type	
ACQJ: Compact cylinder (Adjustable stroke)			10 20 30 40 50 75 100			Blank: No accessories FA: FA type FB: FB type LB: LB type	

[Note1] Please refer to page 122~123 for accessory parts.

Inner structure and material of major parts



NO.	Item	Material	NO.	Item	Material
1	Magnet washer	NBR	10	Wear ring	No(Φ 32)\Wear resistant material(Others)
2	Magnet	Plastic	11	Magnet holder	Aluminum alloy
3	Body	Aluminum alloy	12	Piston rod	Carbon steel with 20 μ m chrome plated
4	O-ring	NBR	13	Front cover	Aluminum alloy
5	Bumper	NBR	14	Bushing	No(Φ 32)\Wear resistant material(Others)
6	Back cover	Aluminum alloy	15	Front cover packing	NBR
7	Piston	Aluminum alloy			
8	C clip	Spring steel			
9	Piston seal	NBR			

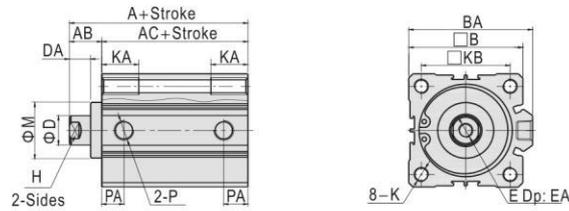
Compact cylinder

ACQ Series—Longer stroke

Dimensions

ACQ

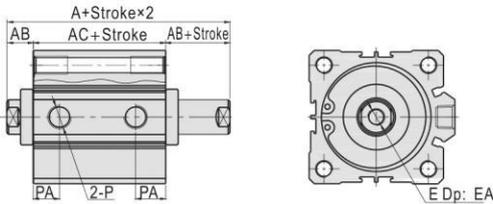
Φ32~Φ100(Stroke > 100)



Bore size\Item	A	AB	AC	B	BA	D	DA	E	EA	H	K	KA	KB	M	P	PA
32	62.5	17	45.5	45	49.5	16	12	M8 × 1.25	13	14	M6 × 1.0 Thru.hole: Φ 5.2	17	34	22	1/8"	12.5
40	72	17	55	53	57	16	12	M8 × 1.25	13	14	M6 × 1.0 Thru.hole: Φ 5.2	17	40	28	1/8"	14
50	73.5	18	55.5	64	71	20	13	M10 × 1.5	15	17	M8 × 1.25 Thru.hole: Φ 6.7	22	50	35	1/4"	14
63	75	18	57	77	84	20	13	M10 × 1.5	15	17	M10 × 1.5 Thru.hole: Φ 8.5	27	60	35	1/4"	16.5
80	86	20	66	98	104	25	15	M16 × 2.0	21	22	M12 × 1.75 Thru.hole: Φ 10.4	32	77	43	3/8"	19
100	97.5	22	75.5	117	123.5	32	17	M20 × 2.5	27	27	M12 × 1.75 Thru.hole: Φ 10.4	33	94	59	3/8"	23

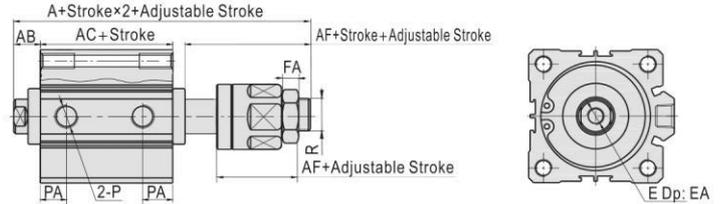
ACQD

Φ32~Φ100(Stroke > 100)



ACQJ

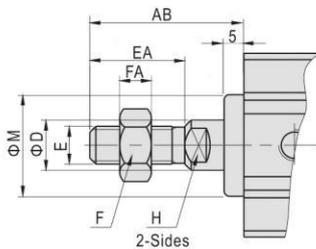
Φ32~Φ100(Stroke > 100)



Bore size\Item	A(ACQD)		A(ACQJ)		AB	AC		AF	EA	FA	PA	R
	Without magnet	With magnet	Without magnet	With magnet		Without magnet	With magnet					
32	79.5	89.5	95.5	105.5	17	45.5	55.5	28	13	7	12.5	M12 × 1.25
40	89	99	105	115	17	55	65	28	13	7	14	M12 × 1.25
50	91.5	101.5	107.5	117.5	18	55.5	65.5	29	15	8	14	M16 × 1.5
63	93	103	109	119	18	57	67	29	15	8	16.5	M16 × 1.5
80	106	116	126.5	136.5	20	66	76	35.5	21	10	19	M20 × 1.5
100	119.5	129.5	145	155	22	75.5	85.5	42.5	27	13.5	23	M27 × 2.0

Remark) The unmarked dimension is the same as ACQ standard type.

Male thread (Bore size: Φ32~Φ100 Stroke>100 Longer type)



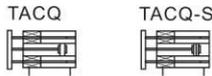
Bore size\Item	AB	D	E	EA	FA	F	H	M
32	38.5	16	M14 × 1.5	23	8	19	14	22
40	38.5	16	M14 × 1.5	23	8	19	14	28
50	43.5	20	M18 × 1.5	28	11	27	17	35
63	43.5	20	M18 × 1.5	28	11	27	17	35
80	53.5	25	M22 × 1.5	35	13	32	22	43
100	53.5	32	M26 × 1.5	35	13	36	27	59

Compact cylinder

ACQ Series—With guider type



Symbol



Product feature

1. JIS standard is implemented and with guider.
2. C clip is adopted to connect the cylinder body and back cover or front cover to make it compact and reliable.
3. The internal diameter of the body is treated with rolling followed by the treatment of hard anodizing, forming an excellent abrasion resistance and durability.
4. The seal of piston adopts heterogeneous two-way seal structure. It has compact dimension and the function of greasel reservation.
5. Compact structure can effectively save installation space.
6. There are magnetic switch slots around the cylinder body, which is convenient to install inducting switch.
7. Double rod non-rotating structure enables to bear large working load and lateral load.

Ordering code

TACQ 50 × 100 S □



① Model	② Bore size	③ Stroke	④ Magnet	⑤ Thread type
TACQ: Compact cylinder (Double acting with guider)	12 16 20 25 32 40 50 63 80 100	Refer to stroke table for details	Blank: Without magnet S: With magnet	Blank: PT G: G T: NPT

Specification

Bore size(mm)	12	16	20	25	32	40	50	63	80	100
Acting type	Double acting									
Fluid	Air(to be filtered by 40 μm filter element)									
Operating pressure	0.15~1.0MPa(22~145psi)									
Proof pressure	1.5MPa(215psi)									
Temperature °C	-20~70									
Speed range mm/s	30~500									
Stroke tolerance	$\begin{matrix} +1.0 \\ 0 \end{matrix}$									
Cushion type	Bumper									
Port size [Note1]	M5 × 0.8					1/8"		1/4"		3/8"
Non-rotating tolerance [Note2]	± 0.2°					± 0.1°				

[Note1] PT thread, G thread and NPT thread are available.

[Note2] Retract position.

Add) Refer to P353 for detail of sensor switch.

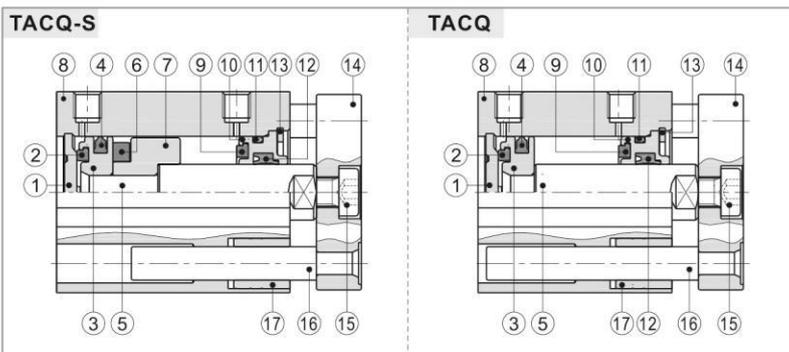
Stroke

Bore size(mm)	Standard stroke (mm)										Max.std stroke (mm)	Middle stroke range(mm)		
	5	10	15	20	25	30	35	40	45	50			75	100
12 16	●	●	●	●	●	●	×	×	×	×	×	×	30	1~29
20 25	●	●	●	●	●	●	●	●	●	●	×	×	50	1~49
32 40	●	●	●	●	●	●	●	●	●	●	●	●	100	1~99
50 63 80 100	×	●	●	●	●	●	●	●	●	●	●	●	100	5~99

[Note] The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder. e.g. 23mm stroke cylinder has the same dimensions of 25 std. stroke cylinder.

Please contact the company for other special strokes.

Inner structure and material of major parts



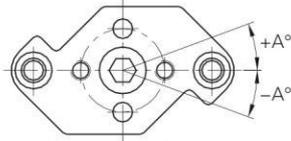
NO.	Item	Material	NO.	Item	Material
1	Back cover	Aluminum alloy	10	Front cover	Aluminum alloy
2	Bumper	NBR	11	O-ring	NBR
3	Piston	Aluminum alloy	12	Front cover packing	NBR
4	Piston seal	NBR			
5	Piston rod	Carbon steel with 20 μm chrome plated	13	C clip	Spring steel
			14	Fixing plate	Aluminum alloy
6	Magnet	Sintered metal (Neodymium-iron-boron)	15	Screw	Carbon steel
			16	Leader	Stainless steel
7	Magnet holder	Aluminum alloy			
8	Body	Aluminum alloy			
9	Wear ring	NBR			

Compact cylinder

ACQ Series—With guider type

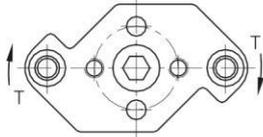
Installation and application

1. TACQ series cylinder is designed with double guide rod which is non-rotating. Make sure the non-rotating accuracy of the fixing plate is in the allowable range.



Bore size	12,16	20,25,32,40,50,63,80,100
Non-rotating tolerance	± 0.2°	± 0.1°

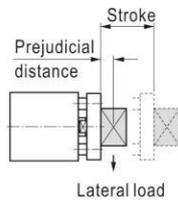
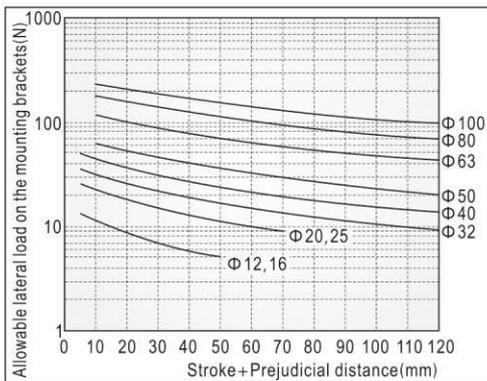
2. Do not apply reverse torque to the piston rods. The torque beyond the limits may cause malfunction or reduction of the service life.



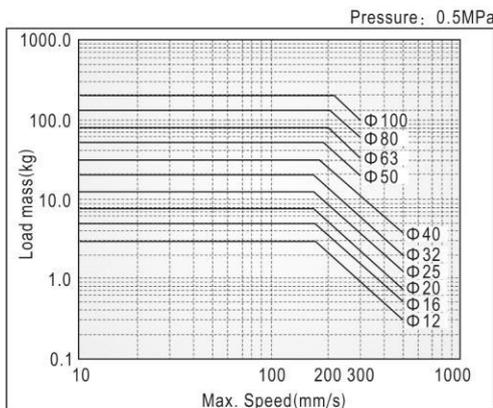
Unit: N·m

Bore size\Stroke	5	10	15	20	25	30	35	40	45	50	75	100
12	0.11	0.10	0.08	0.07	0.07	0.06	-	-	-	-	-	-
16	0.15	0.12	0.11	0.10	0.09	0.08	-	-	-	-	-	-
20	0.37	0.32	0.28	0.25	0.23	0.21	0.19	0.18	0.17	0.16	-	-
25	0.40	0.35	0.31	0.28	0.25	0.23	0.21	0.20	0.18	0.17	-	-
32	0.66	0.59	0.53	0.49	0.45	0.42	0.39	0.36	0.34	0.32	0.25	0.20
40	1.06	0.96	0.88	0.81	0.75	0.70	0.65	0.61	0.58	0.55	0.43	0.36
50	-	1.70	1.56	1.45	1.35	1.26	1.19	1.12	1.06	1.01	0.80	0.67
63	-	3.90	3.62	3.37	3.15	2.96	2.80	2.65	2.51	2.39	1.92	1.61
80	-	7.44	6.98	6.56	6.20	5.87	5.57	5.31	5.07	4.84	3.98	3.37
100	-	11.85	11.19	10.61	10.08	9.60	9.17	8.77	8.41	8.07	6.73	5.77

3. Make sure the lateral load on the mounting bracket is within the limits. Any exceeding may cause malfunction or reduction of the service life.

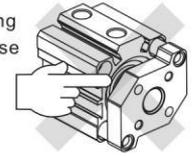


4. Make sure the load quality and the maximum speed are within the limits. Any exceeding may cause malfunction or reduction of the service life.

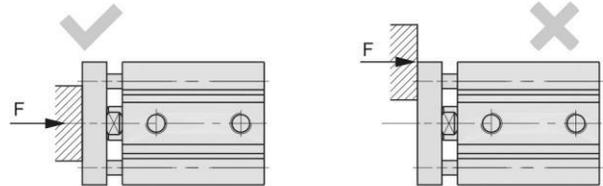


5. Caution before mounting:

- 5.1) Do not put hands between the mounting bracket and cylinder, which may cause damage to a human body when the piston rod retracts.



- 5.2) Make sure the external force against the mounting bracket is concentric with the piston rod. Any extra torque may cause damage to the cylinder.



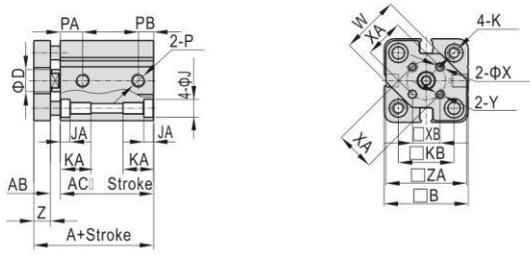
- 5.3) Install the fixture onto the mounting bracket only when the piston rod is in the retraction state. Do not apply the installation torque on the guide rod.
- 5.4) Avoid any damage on piston rod and guide rod, which may cause damage on seals and air leakage or malfunction.

Compact cylinder

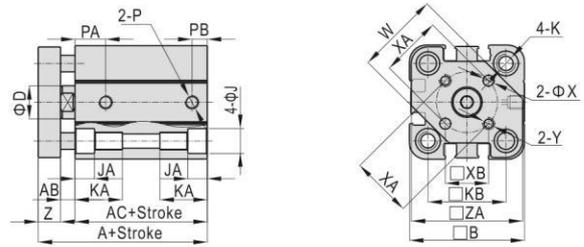
ACQ Series—With guider type

Dimensions

Φ12/Φ16



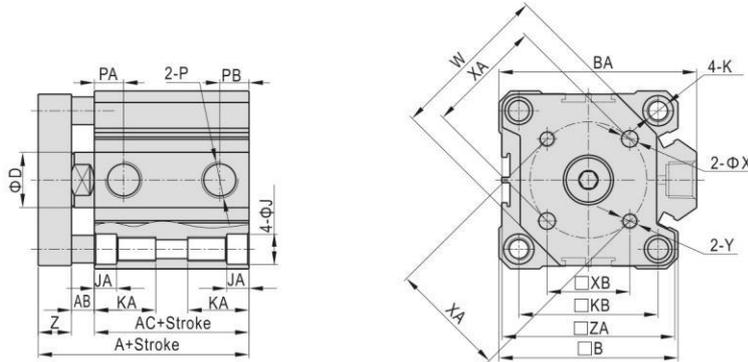
Φ20/Φ25



Bore size/Item	A		AC		AB	B	D	J	JA	K			
	Without magnet	With magnet	Without magnet	With magnet						M4 × 0.7 Thru.hole: Φ3.4	M4 × 0.7 Thru.hole: Φ3.4	M6 × 1.0 Thru.hole: Φ5.2	M6 × 1.0 Thru.hole: Φ5.2
12	26.5	37.5	17.3	28.3	3	26	6	6	3.5	M4 × 0.7 Thru.hole: Φ3.4	M4 × 0.7 Thru.hole: Φ3.4	M6 × 1.0 Thru.hole: Φ5.2	M6 × 1.0 Thru.hole: Φ5.2
16	28	40	19	31	3	30	8	6	3.5	M4 × 0.7 Thru.hole: Φ3.4	M4 × 0.7 Thru.hole: Φ3.4	M6 × 1.0 Thru.hole: Φ5.2	M6 × 1.0 Thru.hole: Φ5.2
20	32	44	20.5	32.5	3.5	36	10	9	5.5	M6 × 1.0 Thru.hole: Φ5.2			
25	35.5	45.5	23	33	4.5	41	12	9	5.5	M6 × 1.0 Thru.hole: Φ5.2			

Bore size/Item	KA	KB	P	PA		PB		W	X	XA	XB	Y	Z	ZA
				Without magnet	With magnet	Without magnet	With magnet							
12	11.5	15.5	M5 × 0.8	7.5	9	5	7	15	3	10	7.1	M3 × 0.5	6	25
16	11.5	20	M5 × 0.8	8.5	10	5.5	5.5	21	3	14	9.9	M3 × 0.5	6	29
20	18	25.5	M5 × 0.8	10	10.5	5.5	5.5	26	4	17	12	M4 × 0.7	8	35
25	17.5	28	M5 × 0.8	11.5	11.5	5.5	5.5	30	5	22	15.6	M5 × 0.8	8	40

Φ32~Φ100



Bore size/Item	A (Without magnet)		A (With magnet)	AB	AC (Without magnet)		AC (With magnet)	B	BA	D	J	JA	K					
	St≤50	St≥75			St≤50	St≥75							M6 × 1.0 Thru.hole: Φ5.2	M6 × 1.0 Thru.hole: Φ5.2	M8 × 1.25 Thru.hole: Φ6.7	M10 × 1.5 Thru.hole: Φ8.5	M12 × 1.75 Thru.hole: Φ10.4	M12 × 1.75 Thru.hole: Φ10.4
32	40	50	50	6.5	23.5	33.5	33.5	45	49.5	16	9	5.5	M6 × 1.0 Thru.hole: Φ5.2	M6 × 1.0 Thru.hole: Φ5.2	M8 × 1.25 Thru.hole: Φ6.7	M10 × 1.5 Thru.hole: Φ8.5	M12 × 1.75 Thru.hole: Φ10.4	M12 × 1.75 Thru.hole: Φ10.4
40	46.5	56.5	56.5	6.6	30	40	40	53	57	16	9	5.5	M6 × 1.0 Thru.hole: Φ5.2	M6 × 1.0 Thru.hole: Φ5.2	M8 × 1.25 Thru.hole: Φ6.7	M10 × 1.5 Thru.hole: Φ8.5	M12 × 1.75 Thru.hole: Φ10.4	M12 × 1.75 Thru.hole: Φ10.4
50	50.5	60.5	60.5	7.5	31	41	41	64	71	20	10.5	6.5	M8 × 1.25 Thru.hole: Φ6.7	M10 × 1.5 Thru.hole: Φ8.5	M12 × 1.75 Thru.hole: Φ10.4	M12 × 1.75 Thru.hole: Φ10.4	M12 × 1.75 Thru.hole: Φ10.4	
63	56	66	66	8	36	46	46	77	84	20	14	9	M10 × 1.5 Thru.hole: Φ8.5	M12 × 1.75 Thru.hole: Φ10.4				
80	67.5	77.5	77.5	10	43.5	53.5	53.5	98	104	25	17	11	M12 × 1.75 Thru.hole: Φ10.4					
100	81	91	91	12	53	63	63	117	123.5	32	17	11	M12 × 1.75 Thru.hole: Φ10.4					

Bore size/Item	KA	KB	P	PA	PA	PB	PB	W	X	XA	XB	Y	Z	ZA
				(Without magnet)	(With magnet)	(Without magnet)	(With magnet)							
32	17.5	34	1/8"	8	10.5	6.5	7.5	37	5	28	19.8	M5 × 0.8	10	43
				11		7.5								
40	17.5	40	1/8"	11	11	8	8	46	5	33	23.3	M5 × 0.8	10	51
50	22.5	50	1/4"	10.5	10.5	11	11	58	6	42	29.7	M6 × 1.0	12	62
63	28.5	60	1/4"	15	15	10.5	10.5	69	6	50	35.4	M6 × 1.0	12	75
80	35.5	77	3/8"	16	16	14	14	90	8	65	46	M8 × 1.25	14	95
100	35.5	94	3/8"	20	20	17.5	17.5	113.5	10	80	56.6	M10 × 1.5	16	114.5

Compact cylinder

ACQ Series—Accessories

List for ordering code of accessories

Accessories Bore size	Mounting accessories			Knuckle				Sensor switch
	LB	FA/FB	CB	I	Y	F	U	
12	F-ACQ12LB	F-ACQ12FA	F-ACQ12CB	F-ACQ12I	F-ACQ12Y	-	F-M5X080U	CMSG DMSG(S)
16	F-ACQ16LB	F-ACQ16FA	F-ACQ16CB	F-ACQ16I	F-ACQ16Y	-	F-M6X100U	
20	F-ACQ20LB	F-ACQ20FA	F-ACQ20CB	F-ACQ20I	F-ACQ20Y	F-M8X125F	F-M8X125U	
25	F-ACQ25LB	F-ACQ25FA	F-ACQ25CB	F-ACQ25I	F-ACQ25Y	F-M10X125F	F-M10X125U	
32	F-ACQ32LB	F-ACQ32FA	F-ACQ32CB	F-ACQ32I	F-ACQ32Y	F-M14X150F	F-M14X150U	
40	F-ACQ40LB	F-ACQ40FA	F-ACQ40CB					
50	F-ACQ50LB	F-ACQ50FA	F-ACQ50CB	F-ACQ50I	F-ACQ50Y	F-M18X150F	F-M18X150U	CMSJ DMSJ CMSG DMSG(S)
63	F-ACQ63LB	F-ACQ63FA	F-ACQ63CB					
80	F-ACQ80LB	F-ACQ80FA	F-ACQ80CB					
100	F-ACQ100LB	F-ACQ100FA	F-ACQ100CB	F-ACQ80I	F-ACQ80Y	-	-	
125	-	-	-	F-ACQ100I	F-ACQ100Y	-	F-M26X150U	
140	-	-	-					CMSH/DMSH(S) CMSG/DMSG(S)
160	-	-	-					

Accessory selection

Cylinder model	Accessories	Mounting accessories				Knuckle[Note2]			Sensor switch[Note3]			
		LB	FA	FB	CB [1]	I	Y	U	F	C(D)MSJ	C(D)MSG(S)	C(D)MSH(S)
ACQ	Female thread	Without magnet								×	×	×
		With magnet	●	●	●	●	×	×	×	●	●	●
	Male thread	Without magnet					●	●	●	×	×	×
		With magnet	●	●	●	●	●	●	●	●	●	●
ASQ ATQ	Female thread	Without magnet				×	×	×	×	×	×	×
		With magnet	●	●	●	●	●	●	●	●	●	●
	Male thread	Without magnet					●	●	●	×	×	×
		With magnet	●	●	●	●	●	●	●	●	●	●
ACQD ACQJ	Female thread	Without magnet				×	×	×	×	×	×	×
		With magnet	●	●	×	×	●	●	●	●	●	●
	Male thread	Without magnet					●	●	●	×	×	×
		With magnet	●	●	×	×	●	●	●	●	●	●

Material of accessories

Accessories Bore size	Mounting accessories				Knuckle			
	LB	FA	FB	CB	I	Y	F	U
12, 15	△	●	●	●	▲	▲	▲	▲
20, 25	△	●	●	●	▲	▲	▲	▲
32~100	△	●	●	■	▲	■	▲	▲

●—Aluminum alloy; ■—Carbon Steel; ▲—S45C; △—SPCC

[Note1] CB is attached with relevant PIN.
Mounting accessories and Knuckle unavailable for bore size 125, 140, 160 cylinder.

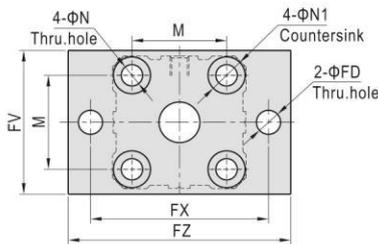
[Note2] Please refer to P349~352 for knuckle detail.

[Note3] DS1-H sensor switch only available for bore size 125, 140, 160 cylinder.

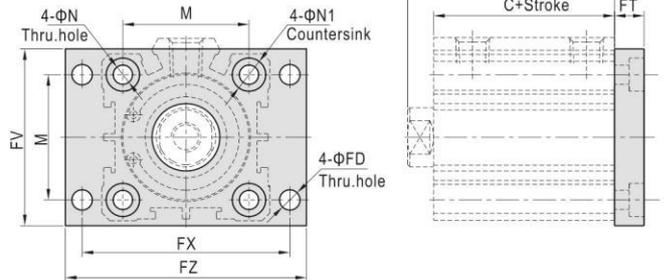
Dimensions

FA/FB

Φ12~Φ25



Φ32~Φ100



Bore size\Item	A [Note1]			C				M	N	N1	FD	FT	FV	FX	FZ	
	Without magnet	With magnet	Stroke	Without magnet	With magnet	Stroke										
12	20.5	-	-	31.5	17	-	-	28	15.5	4.5	7.5	4.5	5.5	25	45	55
16	22	22	-	34	18.5	18.5	-	30.5	20	4.5	7.5	4.5	5.5	30	45	55
20	24	-	34	36	19.5	-	29.5	31.5	25.5	6.5	10.5	6.5	8	39.5	48	60
25	27.5	-	37.5	37.5	22.5	-	32.5	32.5	28	6.5	10.5	6.5	8	42	52	64
32	30	-	40	40	23	-	33	33	34	6.5	10.5	5.5	8	48	56	65
40	36.5	-	46.5	46.5	29.5	-	39.5	39.5	40	6.5	10.5	5.5	8	54	62	72
50	38.5	-	48.5	48.5	30.5	-	40.5	40.5	50	8.5	13.5	6.5	9	67	76	89
63	44	-	54	54	36	-	46	46	60	10.5	16.5	9	10	80	92	108
80	53.5	-	63.5	63.5	43.5	-	53.5	53.5	77	12.5	18.5	11	12	99	116	134
100	65	-	75	75	53	-	63	63	94	12.5	18.5	11	12	117	136	154

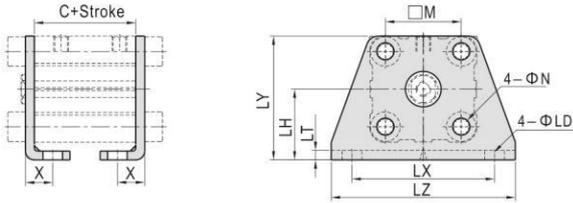
[Note] Valve A and C in the above table are only for ACQ series.
Please refer to relevant content for valve A and C of other series.

Compact cylinder

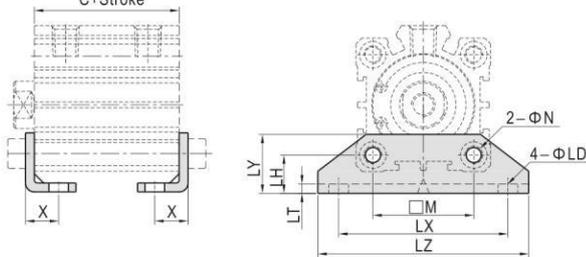
ACQ Series—Accessories

LB

Φ12~Φ25



Φ32~Φ100

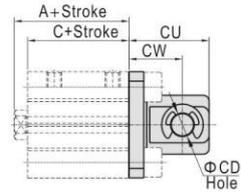
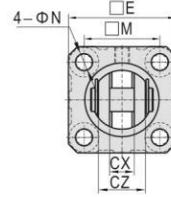


Bore size/Item	C [Note]				M	N	X	LD	LH	LT	LX	LY	LZ
	Without magnet		With magnet										
	Stroke	≤50	55	≥60									
12	17	-	-	28	15.5	4.5	8	4.5	17	2	34	29.5	44
16	18.5	18.5	-	30.5	20	4.5	8	4.5	19	2	38	33.5	48
20	19.5	-	29.5	31.5	25.5	6.5	9.2	6.5	24	3	48	42	62
25	22.5	-	32.5	32.5	28	6.5	10.7	6.5	26	3	52	46	66
32	23	-	33	33	34	6.5	11.2	6.5	13	3	57	20	71
40	29.5	-	39.5	39.5	40	6.5	11.2	6.5	13	3	64	20	78
50	30.5	-	40.5	40.5	50	8.5	12.2	8.5	14	3	79	22	95
63	36	-	46	46	60	10.5	13.7	10.5	16	3	95	26	113
80	43.5	-	53.5	53.5	77	13	16.5	13	20.5	4.5	118	32	140
100	53	-	63	63	94	13	23	13	24	6	137	36	162

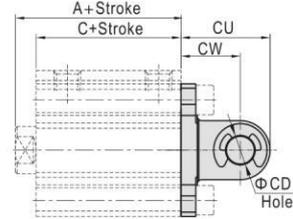
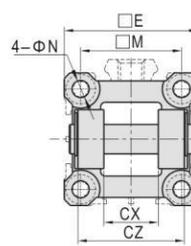
[Note] Valve C in the above table is only for ACQ series.
Please refer to relevant content for valve C of other series.

CB

Φ12~Φ25



Φ32~Φ100



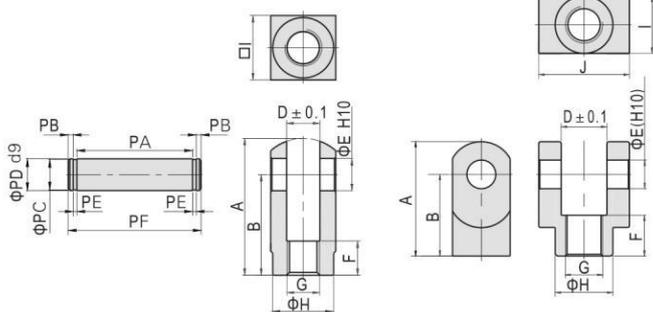
Item	A [Note]				C				E	M	N	CD	CU	CW	CX	CZ
	Without magnet		With magnet		Without magnet		With magnet									
	Stroke	≤50	55	≥60	Stroke	≤50	55	≥60								
12	20.5	-	-	31.5	17	-	-	28	25	15.5	4.5	5	20	14	5.3	9.8
16	22	22	-	34	18.5	18.5	-	30.5	29	20	4.5	5	21	15	6.8	11.8
20	24	-	34	36	19.5	-	29.5	31.5	36	25.5	6.5	8	27	18	8.3	15.8
25	27.5	-	37.5	37.5	22.5	-	32.5	32.5	40	28	6.5	10	30	20	10.3	19.8
32	30	-	40	40	23	-	33	33	45.5	34	6.5	10	30	20	18.3	35.8
40	36.5	-	46.5	46.5	29.5	-	39.5	39.5	53.5	40	6.5	10	32	22	18.3	35.8
50	38.5	-	48.5	48.5	30.5	-	40.5	40.5	64.5	50	8.5	14	42	28	22.3	43.8
63	44	-	54	54	36	-	46	46	77.5	60	10.5	14	44	30	22.3	43.8
80	53.5	-	63.5	63.5	43.5	-	53.5	53.5	98.5	77	12.5	18	56	38	28.3	55.8
100	65	-	75	75	53	-	63	63	117.5	94	12.5	22	67	45	32.3	63.8

[Note] Valve A and C in the above table are only for ACQ series.
Please refer to relevant content for valve A and C of other series.

Y Knuckle

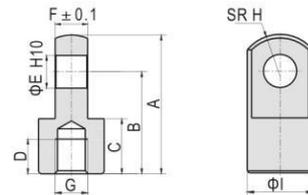
F-ACQ12Y
F-ACQ16Y
F-ACQ20Y
F-ACQ25Y

F-ACQ32Y
F-ACQ50Y
F-ACQ80Y
F-ACQ100Y



Type/Item	A	B	D	E	F	G	H	I	J	PA	PB	PC	PD	PE	PF
F-ACQ12Y	22	16	5.3	5	6	M5×0.8	9	10	-	10.2	1.5	4	5	0.7	14.6
F-ACQ16Y	28	21	6.6	5	11	M6×1.0	11	12	-	12.4	1.5	4	5	0.7	16.8
F-ACQ20Y	34	25	8.3	8	8.5	M8×1.25	15	16	-	16.2	1.5	7	8	0.9	21
F-ACQ25Y	41	30	10.3	10	10.5	M10×1.25	19	20	-	20.2	2	8	10	1.1	26.4
F-ACQ32Y	42	30	18.4	10	16	M14×1.5	22	22	36	36.2	2	8	10	1.1	42.4
F-ACQ50Y	56	40	22.4	14	20	M18×1.5	28	28	44	44.2	2	12	14	1.1	50.4
F-ACQ80Y	71	50	28.4	18	23	M22×1.5	38	38	56	56.2	2	15	18	1.7	63.6
F-ACQ100Y	79	55	32.4	22	24	M26×1.5	44	44	64	64.2	2.5	19	22	1.7	72.6

I Knuckle



Type/Item	A	B	C	D	E	F	G	H	I
F-ACQ12I	21.5	16	9	6	5	4.7	M5×0.8	6.3	10
F-ACQ16I	32	25	11	8	5	6.2	M6×1.0	8.1	12
F-ACQ20I	34	25	13.5	8.5	8	7.7	M8×1.25	10.3	16
F-ACQ25I	41	30	16	11	10	9.7	M10×1.25	12.8	20
F-ACQ32I	42	30	16	14	10	17.6	M14×1.5	12	22
F-ACQ50I	56	40	20	18	14	21.6	M18×1.5	16	28
F-ACQ80I	71	50	23	21	18	27.6	M22×1.5	21	38
F-ACQ100I	79	55	24	22	22	31.6	M26×1.5	24	44



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