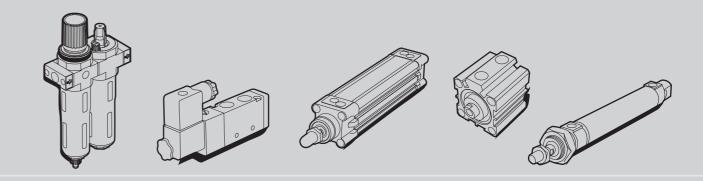


Thanks to browse Welcome to FORWARD



FORWARD Machinery Co., Ltd.

Pneumatic Component Hydraulic Component

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Hydraulic component www.forwardmachinery.com Pneumatic component

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Company introductions 公司简介

In **FORWARD**, Driving force has always been our vision and prospect: We own the courage to challenge mediocrity to create surprising products. Depend on our great perseverance ,we promote the development of Chinese fluid industry.

Welcome to FORWARD!

在FORWARD,我们的推动力一直是我们的 愿景: 我们具备挑战平庸的勇气, 以求创造令 人惊喜的产品。凭借对产品、客户坚持不懈和 永不放弃的精神,致力于推动中国流体行业的 卓越发展。

FORWARD 欢迎您!



标准气缸 Standard cylinder ISO6431 / ODNC

FORW\RD

型号代码 Type codes



终端带可调缓冲装置,并可安装行程开关进行位置感测。 气缸活塞上可带或不带永久磁环,位置感测需否可供选择。 缸筒上的沟槽可直接安装行程开关,不需安装支架。

Attached with adjustable buffer at both ends, and mounted stroke switch for detecting the conversion position.

Piston rod with/without magenetic ring, sensor-position is optional if necessary or unnecessary.

Stroke switch could mount on the cylinder, parrel directly, no need mounting bracket.

			ODNC	- 32	- 100	- PPV	- A	-
]]	1	
基本功能	Basic function							
ODNC	标准气缸 Standard Cylinder ISO6431							
缸径 Bo	re							
		-			_			
行程 Sti	roke							
						_		
							1	1
经市政人	P. Cushisarian	ı						
	t Cushioning							
	Cushioning 任意一端具有不可调缓冲器 Flexible cushioning							
Р	任意一端具有不可调缓冲器 Flexible cushioning							
Р	任意一端具有不可调缓冲器 Flexible cushioning rings/pads at both ends							
P PPV	任意一端具有不可调缓冲器 Flexible cushioning rings/pads at both ends 双端具有可调缓冲器 Pneumatic cushioning,							
P PPV	任意一端具有不可调缓冲器 Flexible cushioning rings/pads at both ends 双端具有可调缓冲器 Pneumatic cushioning, adjustable at both ends							
P PPV	任意一端具有不可调缓冲器 Flexible cushioning rings/pads at both ends 双端具有可调缓冲器 Pneumatic cushioning, adjustable at both ends Position sensing							

标准气缸 Standard cylinder ISO6431 / ODNC



技术参数 Technical data

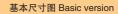
主要技术参数 General technical data												
缸径 Bore (mm) Ø	32	40	50	63	80	100						
工作介质 Medium	经过滤的空气 Filtered Air											
动作形式 Action Form	双动 Double Acti	双动 Double Action										
耐压实验压力 Compression Pressure	15 bar	15 bar										
最高工作压力 Max. Working Pressure	10 bar											
最低工作压力 Min. Working Pressure	1 bar											
缓冲 Buffer	气缓冲(标) Air Buffer											
环境温度 Condition Temperature	5-60° C											
使用速度 Operation Speed	50-500mm/s											
润滑 Lubricate	不需要 Not Necessa	ry +1.0										
连接尺寸 Connection	1/8"	1/4"		3/8"		1/2"						
标准行程 Standard Stroke	25 40 50 80	100 125 160 20	0 250 320 400 50	0								
缓冲行程 Buffer Stroke	20		22		32							

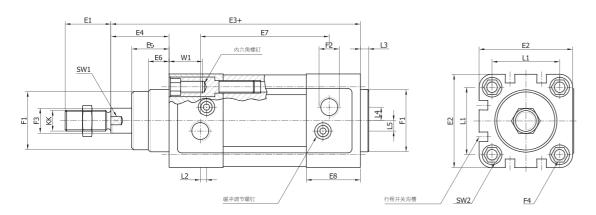
Pneumatic component 79-80 Standard cylinder

技术参数 Technical data

F@RW\RD

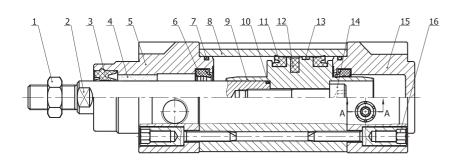
尺寸图 Dimensions





缸径 Bore(mm) Ø	E1	E2	E3+	E4	E5	E6	E7	E8	F1 Ø	F2	F3 Ø	F4	L1	L2	L3	L4	L5	KK	W1	SW1	SW2
32	22	45	120	26	18	10	63	25	30	G1/8	12	M6	32.5	3	4	6	5	M10*1.25	16	10	6
40	24	54	135	30	22	11	77	30	35	G1/4	16	M6	38	4	4	8	6	M12*1.25	16	14	6
50	32	64	143	37	28	12	78	30	40	G1/4	20	M8	46.5	5	4	10	9	M16*1.5	17	17	8
63	32	75	158	37	29	15	87	36	45	G3/8	20	M8	56.5	7	4	12.5	10	M16*1.5	17	17	8
80	40	93	174	46	35	16	95	36	45	G3/8	25	M10	72	11	4	12.5	8	M20*1.5	17	22	6
100	40	110	189	51	38	19	100	40	55	G1/2	25	M10	89	12	4	12	10	M20*1.5	17	22	6

内部结构图 Inner structure



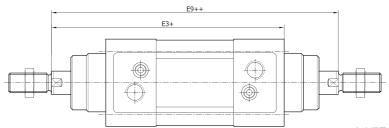
序号 NO.	名称 Item	序号 NO.	名称 Item	序号 NO.	名称 Item
1	螺母 Rod nut	8	铝管 Barrel	15	后盖 Back cover
2	活塞杆 Piston rod	9	活塞 Pilot body	16	连接螺栓 Connecting bolt
3	防尘 Rod packing	10	活塞杆O型圏 Rod O-ring		
4	滑动衬套 Bushing	11	活塞密封圈 Piston seal		
5	前盖 Front cover	12	磁铁 Magnet		
6	缓冲圈 Cushion	13	耐磨环 Wearing		
7	管壁O型圏 O-ring	14	内六角螺栓 Screw		

标准气缸 Standard cylinder ISO6431 / ODNC

技术参数 Technical data

F@RW\RD

尺寸图-派生型 Dimensions-Various S2 双端活塞杆 Through piston rod

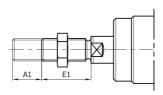


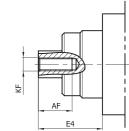
+ = 加上行程长度 Plus stroke length ++ = 加上2倍行程长度 Plus 2x stroke length

缸径 Bore(mm) Ø	E3	E9
32	120	146
40	135	165
50	143	180
63	158	195
80	174	220
100	189	240

K2 活塞杆上加长外螺纹 Extended male piston rod thread

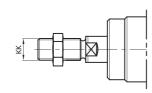
K3 活塞杆上内螺纹 Female piston rod thread

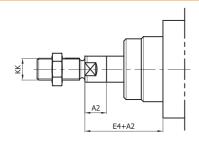




K5 活塞杆上特殊螺纹 Special piston rod thread

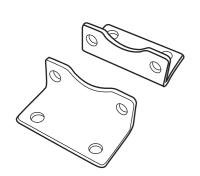
K8 加长活塞杆 Extended piston rod

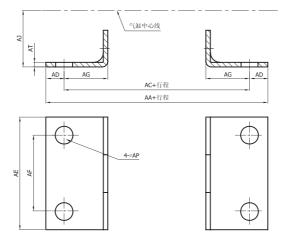




缸径 Bore(mm) Ø	A1	A2	E1	E4	KK		AF	KF
	最大 Max.	最大 Max.			基本螺纹 Basic thread	特殊螺纹 Special thread		
32	35	500	22	26	M10 x 1.25	M10	12	M6
40	35	500	24	30	M12 x 1.25	M12	12	M8
50	70	500	32	37	M16 x 1.5	M16	16	M10
63	70	500	32	37	M16 x 1.5	M16	16	M10
80	70	500	40	46	M20 x 1.5	M20	20	M12
100	70	500	40	51	M20 x 1.5	M20	20	M12

脚架安装件 LB

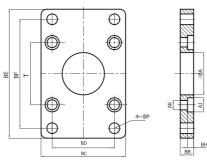


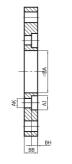


Dimensions and ordering data												
Bore(mm) Ø AA AC AD AE AF AG AJ AP Type												
32	158	142	8	48	32	24	32	7	LB-32			
40	179	161	9	53	36	28	36	9	LB-40			
50	190	170	10	63	45	32	45	9	LB-50			
63	209	185	12	73	50	32	50	9	LB-63			
80	248	210	19	98	63	41	63	12	LB-80			
100	258	220	19	115	75	41	71	14	LB-100			
125	290	250	20	140	90	45	90	16	LB-125			

法兰安装件 FA/FB







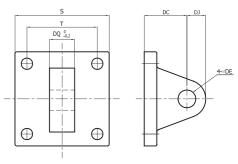
尺寸和订货数据 Dimensions and ordering data													
缸径 Bore(mm) Ø	ВА	BB	BC	BD	BE	BF	ВН	AJ	AK	BP	T	型号 Type	
32	30.3	10	45	32	80	64	6.5	10.5	6.5	7	32.5	FA/FB-32	
40	35.3	10	52	36	90	72	6.5	10.5	6.5	9	38	FA/FB-40	
50	40.3	12	65	45	110	90	8.5	13.5	8.5	9	46.5	FA/FB-50	
63	45.3	12	76	50	120	100	8.5	13.5	8.5	9	56.5	FA/FB-63	
80	45.3	16	94	63	150	126	10.5	16.5	10.5	12	72	FA/FB-80	
100	55.3	16	112	75	175	150	10.5	16.5	10.5	14	89	FA/FB-100	
125	60.3	20	140	90	224	180	15	19	12.5	16	110	FA/FB-125	

标准气缸 Standard cylinder ISO6431 / ODNC

附件 Accessories

单耳环安装件 CA



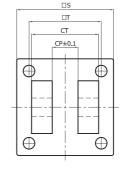


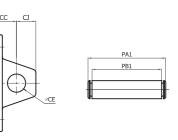
F@RW\RD

	尺寸和订货数据 Dimensions and ordering data													
缸径 Bore(mm)Ø	S	T	DC	DJ	DE	DQ	型号 Type							
32	45	32.5	22	10	10	26	CA-32							
40	52	38	25	11	12	28	CA-40							
50	65	46.5	27	13	12	32	CA-50							
63	76	56.5	32	16	16	40	CA-63							
80	94	72	36	16	16	50	CA-80							
100	112	89	41	20	20	60	CA-100							
125	140	110	50	25	25	70	CA-125							

双耳环安装件 CB







	尺寸和订货数据 Dimensions and ordering data													
缸径 Bore(mm)Ø	S	Т	CT	СР	CC	CJ	CE	PA1	PB1	型号 Type				
32	45	32.5	45	26	22	10	10	53	46.5	CB-32				
40	52	38	52	28	25	11	12	60	53.5	CB-40				
50	65	46.5	60	32	27	13	12	68	61.5	CB-50				
63	76	56.5	70	40	32	16	16	78	71.5	CB-63				
80	94	72	90	50	36	46	16	100	91.5	CB-80				
100	112	89	110	60	41	20	20	120	111.5	CB-100				
125	114	110	120	70	50	25	25	130	121.5	CB-125				

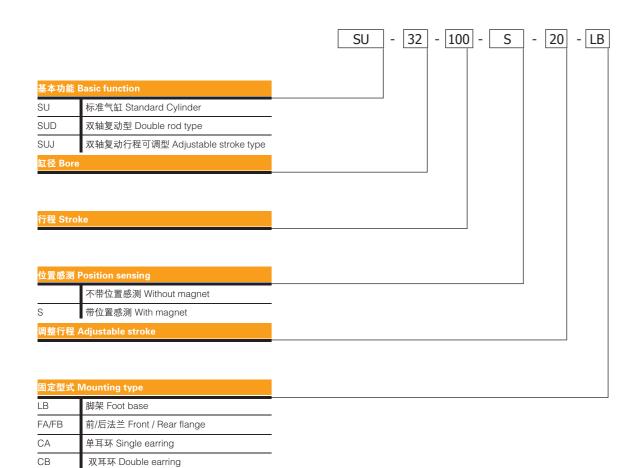
Pneumatic component 83-84 Standard cylinder

标准气缸 Standard cylinder / SU

型号代码 Type codes







标准气缸 Standard cylinder / SU

技术参数 Technical data



主要技术参数 General technical data											
缸径 Bore (mm) ø	32	40	50	63	80	100					
工作介质 Medium	经过滤的空气 Filtered Air										
动作形式 Action Form	复动型 Double acti	复动型 Double acting type									
使用压力范围 Pressure range	1~9 bar										
保证耐压力 Proof pressure	15 bar										
环境温度 Condition Temperature	-5∼70° C										
缓冲型式 Cushion type	可调缓冲 Variable cus	shion									
使用速度 Operation Speed	50-800mm/s										
连接尺寸 Connection	1/8"	1/4"		3/8"	_	1/2"					

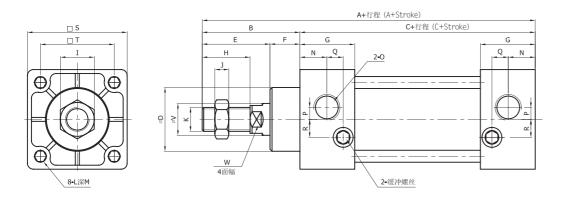
Pneumatic component 85-86 Standard cylinder

F@RW\RD

技术参数 Technical data

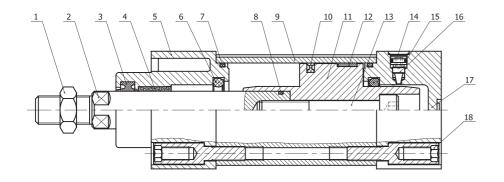
尺寸图 Dimensions

基本尺寸图 Basic version



缸径 Bore(mm) Ø	А	В	С	D	Е	F	G	Н	Ι	J	K	L	М	N	0	Р	Q	R	S	Т	V	W
32	140	47	93	28	32	15	27.5	22	17	6	M10×1.25	M6×1.0	9.5	13.7	1/8	3.5	7.5	7	45	33	12	10
40	142	49	93	32	34	15	27.5	24	17	7	M12×1.25	M6×1.0	9.5	13.5	1/4	6	8.2	9	50	37	16	14
50	150	57	93	38	42	15	27.5	32	23	8	M16×1.5	M6×1.0	9.5	13.5	1/4	8.5	8.2	9	62	47	20	17
63	153	57	96	38	42	15	27.5	32	23	8	M16×1.5	M8×1.25	9.5	13.5	3/8	7	8.2	8.5	75	56	20	17
80	182	75	107	47	54	21	33	40	26	10	M20×1.5	M10×1.5	11.5	16.5	3/8	10	9.5	14	94	70	25	22
100	188	75	113	47	54	21	33	40	26	10	M20×1.5	M10×1.5	11.5	16.5	1/2	11	9.5	14	112	84	25	22

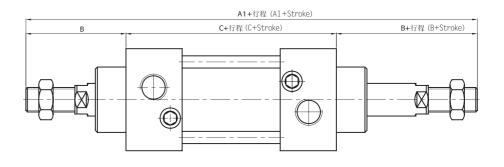
内部结构图 Inner structure



序号 NO.	名称 Item	序号 NO.	名称 Item	序号 NO.	名称 Item
1	螺母 Rod nut	8	活塞杆O型圈 Rod O-ring	15	缓冲防漏O型圈 O-ring
2	活塞杆 Piston rod	9	铝管 Barrel	16	缓冲调整螺丝 Cushion needle
3	防尘 Rod packing	10	活塞密封圈 Piston seal	17	后盖 Back cover
4	含油轴承 Bushing	11	活塞 Pilot body	18	连接螺栓 Connecting bolt
5	前盖 Front cover	12	耐磨环 Wearing		
6	缓冲圈 Cushion	13	内六角螺栓 Screw		
7	管壁O型圈 O-ring	14	内齿挡圈 Locker sheet		

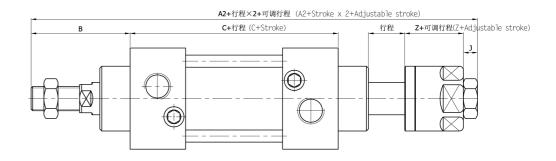
尺寸图-派生型 Dimensions-Various

SUD 双端活塞杆 Through piston rod



缸径 Bore(mm) Ø	A1	В	С
32	187	47	93
40	191	49	93
50	207	57	93
63	210	57	96
80	257	75	107
100	263	75	113

SUJ 双端行程可调型 Adjustable stroke type

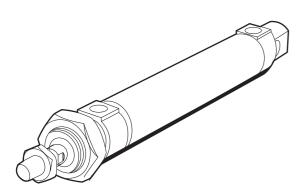


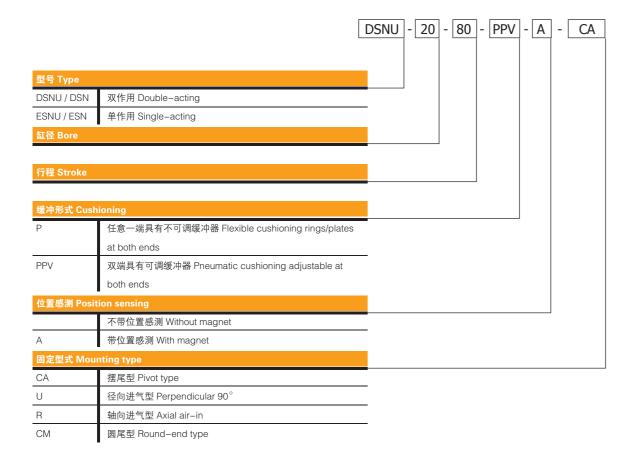
缸径 Bore(mm) Ø	A2	В	С	J	Z
32	182	47	93	6	21
40	185	49	93	7	21
50	196	57	93	8	23
63	199	57	96	8	23
80	242	75	107	10	29
100	248	75	113	10	29

不锈钢迷你气缸 MINI cylinder stainless steel / DSNU,ISO6432

FORWARD

型号代码 Type codes





不锈钢迷你气缸 MINI cylinder stainless steel / DSNU,ISO6432



技术参数 Technical data

	主要	技术参数	General to	echnical d	ata						
缸径 Bore (mm) Ø		8	10	12	16	20	25	32	40		
工作介质 Medium			的压缩空气, compresse			unlubricate	ed				
动作形式 Action Form			单动押出数 acting type			h type、S [.]	ingle actir	ng-pull ty	ре		
保证耐压力 Compression Pressure		15 bar									
使用压力范围 Max. Operating Pressure	复动型 Double—acting type	0.5~7 bar									
	单动型 Single—acting type	2~7 bar									
环境温度 Condition Temperature		-5-70° C									
使用速度范围 Operation Speed Range		50~750 mm/s									
气接口 Pneumatic Connection		M5*0.8 1/8" 1/4"							1/4"		

Pneumatic component 89-90 MINI cylinder stainless steel

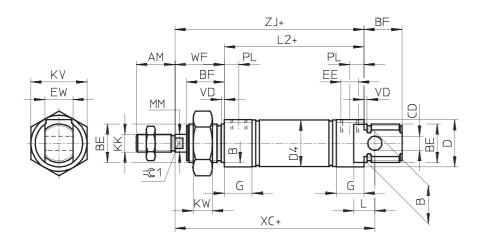
不锈钢迷你气缸 MINI cylinder stainless steel / DSNU,ISO6432

技术参数 Technical data



尺寸图 Dimensions

基本尺寸图 Basic version



缸径 Bore(mm) Ø	AM	В	BE	BF	CD	D	D4	EE	EW	G	KK	KV
8	12	12	M12*1.25	12	4	15	9.3	M5	8	10	M4	19
10							11.3					
12	16	16	M16*1.5	17	6	20	13.3		12		M6	24
16							17.3					
20	20	22	M22*1.5	20	8	27	21.3	G1/8	16	16	M8	32
25	22			22			26.5				M10*1.25	

缸径 Bore(mm) Ø	KW	L	L2	MM	PL	ТО	VD	WF	XC	ZJ	
8	6	6	46	4	6	18	2	16	64	62	
10											
12	8	9	50	6		23		22	75	72	
16			56						82	78	
20	11	12	68	8	8.2	31		24	95	92	
25			69.5	10				28	104	97.2	

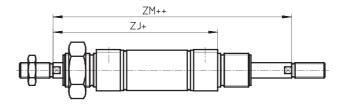
不锈钢迷你气缸 MINI cylinder stainless steel / DSNU,ISO6432

技术参数 Technical data

F@RW\RD

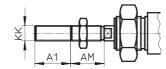
尺寸图-派生型 Dimensions-Various

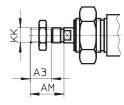
S2 双端活塞杆 Through piston rod



K2 活塞杆加长外螺纹 Extended male piston rod thread

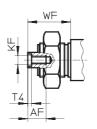
K6 活塞杆缩短外螺纹 Shortened male piston rod thread

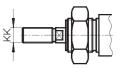




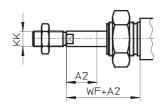
K3 活塞杆内螺纹 Female piston rod thread

K5 特殊活塞杆螺纹 Special piston rod thread





K8 加长活塞杆 Extended piston rod



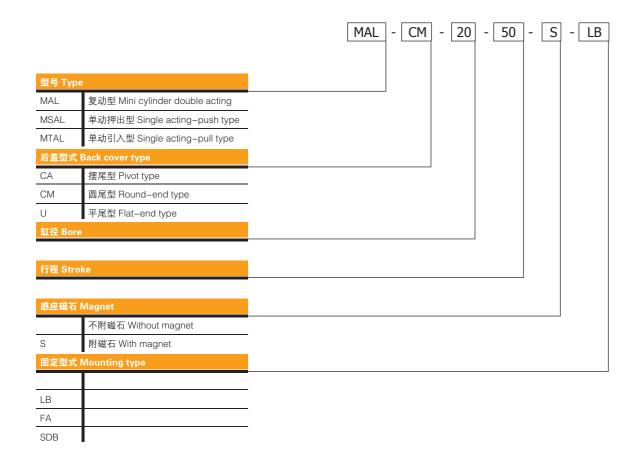
Ø	A1	A2	А3	AM	AF	KF			T4	WF				ZM
[mm]							基本螺纹 Basic thread	特殊螺纹 Special thread			MQ	MA	MH	
8	15	50		12	-	-	M4	-	-	16	62	59.6	61.5	78.4
10	15	50	4	12	-	-	M4	-	-	10	02	59.1	61.8	/0.4
12	20		4	1.0	-	-	MC	-	-	00	72	69.7	72	94
16	20	100		16	-	-	M6	-	-	22	78	75.7	77.8	100
20	25	100		20	10	M4	M8	-	2	24	92	90.5	91.5	116
25	35		8	22	12	M6	M10*1.25	M10	2.6	28	97.5	96.5	97.2	125.5

铝合金迷你气缸 MINI cylinder aluminum barrel / MAL

FORWARD

型号代码 Type codes





铝合金迷你气缸 MINI cylinder aluminum barrel / MAL



技术参数 Technical data

	主要技术参	数 General technical dat	a						
缸径 Bore (mm) Ø	20	25	32	40					
工作介质 Medium	经过滤的压缩空气,润 Filtered compressed at	滑或未润滑 ir,lubricated or unlubrica	ited						
动作形式 Action Form	MAL: 复动型 Double ac	ting type; 其它 Others:	单动型 Single acting						
固定型式 Mounting type	基本型 Basic LB	FA SDB							
保证耐压力 Compression Pressure	15 bar								
使用压力范围 Max. Operating Pressure	MAL: 1-9 bar; 其它系列 Others: 2-9 bar								
环境温度 Condition Temperature	-5~70° C								
使用速度范围 Operation Speed Range	MAL: 30~800 mm/s; 其'	它系列 Others: 50~800 m	m/s						
接管口径 Connection	1/8 1/4								

Pneumatic component

93-94 MINI cylinder aluminum barrel

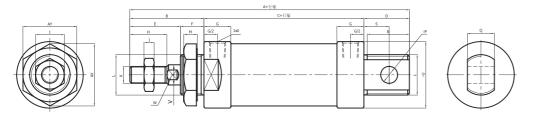
铝合金迷你气缸 MINI cylinder aluminum barrel / MAL

技术参数 Technical data

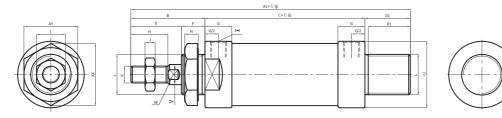
FORW\RD

MAL 尺寸图 Dimensions

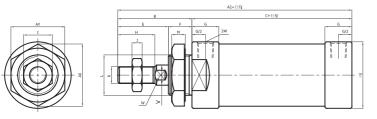
CA: Pivot type



CM: Round-end type



U: Flat-end type





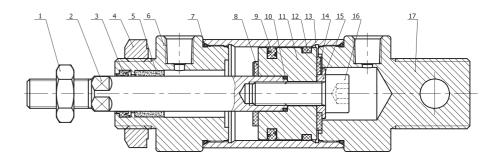
缸径 Bore(mm) Ø	А	A1	A2	В	С	D	D1	Ε	F	G	Н	Ι	J	K	L	М	Р	Q	R	R1	S	U	٧	W	χ	АХ	AY
20	131	122	110	40	70	21	12	28	12	16	20	12	6	M8×1.25	M22×1.5	7	8	16	19	10	12	29	8	6	1/8	33	29
25	135	128	114	44	70	21	14	30	14	16	22	17	6	M10×1.25	M22×1.5	7	8	16	19	12	12	34	10	8	1/8	33	29
32	141	128	114	44	70	27	14	30	14	16	22	17	6	M10×1.25	M24×2.0	8	10	16	25	12	15	39.5	12	10	1/8	37	32
40	165	152	138	46	92	27	14	32	14	22	24	17	7	M12×1.25	M30×2.0	9	12	20	25	12	15	49.5	16	14	1/4	47	41

铝合金迷你气缸 MINI cylinder aluminum barrel / MAL

技术参数 Technical data

F@RW\RD

内部结构图 Inner structure



序号 NO.	名称 Item	序号 NO.	名称 Item	序号 NO.	名称 Item
1	螺母 Rod nut	7	管壁O型圏 O-ring	13	铝管 Barrel
2	活塞杆 Piston rod	8	防撞垫片 Bumper	14	防撞垫片 Bumper
3	前盖密封圈 Rod packing	9	活塞密封圏 Piston seal	15	后垫华司 Back washer
4	前盖螺母 Front cover nut	10	活塞杆O型圏 Rod O-ring	16	内六角螺栓 Screw
5	含油轴承 Bushing	11	活塞 Piston	17	后盖 Back cover
6	前盖 Front cover	12	耐磨环 Wearing		

F@RW\RD

铝合金迷你气缸 MINI cylinder aluminum barrel / MTAL

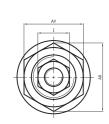
技术参数 Technical data

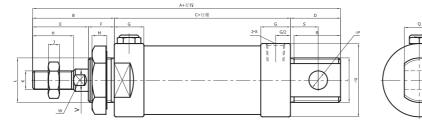
F@RW\RD

MSAL 尺寸图 Dimensions

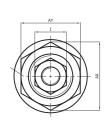
CA: Pivot type

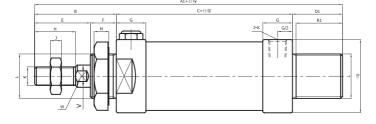
技术参数 Technical data





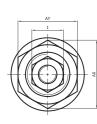
CM: Round-end type

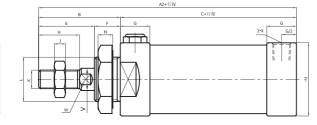






U: Flat-end type





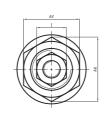


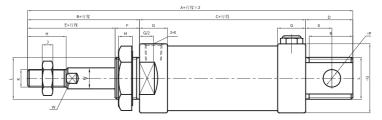
	А		A1		A2			С							
缸径 Bore(mm) Ø	0~50	51~100	0~50	51~100	0~50	51~100	В	0~50	51~100	D	D1	E	F	G	Н
20	131	156	122	147	110	135	40	70	95	21	12	28	12	16	20
25	135	160	128	153	114	139	44	70	95	21	14	30	14	16	22
32	141	166	128	153	114	139	44	70	95	27	14	30	14	16	22
40	165	190	152	177	138	163	46	92	117	27	14	32	14	22	24

缸径 Bore(mm) Ø	Ι	J	К	L	М	Р	Q	R	R1	S	U	V	W	Х	AX	AY
20	12	6	M8×1.25	M22×1.5	7	8	16	19	10	12	29	8	6	1/8	33	29
25	17	6	M10×1.25	M22×1.5	7	8	16	19	12	12	34	10	8	1/8	33	29
32	17	6	M10×1.25	M24×2.0	8	10	16	25	12	15	39.5	12	10	1/8	37	32
40	17	7	M12×1.25	M30×2.0	9	12	20	25	12	15	49.5	16	14	1/4	47	41

TAL 尺寸图 Dimensions

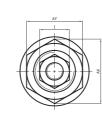
CA: Pivot type

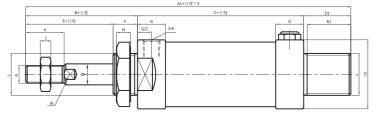






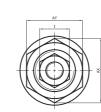
CM: Round-end type

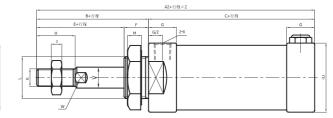






U: Flat-end type







	А				A1		-		A2					С	-		
缸径 Bore(mm) Ø	0~25	26~50	51~75	76~100	0~25	26~50	51~75	76~100	0~25	26~50	51~75	76~100	В	0~25	26~50	51~75	76~100
20	146	156	171	181	137	147	162	172	125	135	150	160	40	85	95	110	120
25	150	160	175	185	143	153	168	178	129	139	154	164	44	85	95	110	120
32	156	166	186	196	143	153	173	183	129	139	159	169	44	85	95	115	125
40	180	190	210	220	167	177	197	207	153	163	183	193	46	107	117	137	147

缸径 Bore(mm) Ø	D	D1	Е	F	G	Н	Ι	J	K	L	М	Р	Q	R	R1	S	U	٧	W	Х	АХ	AY
20	21	12	28	12	16	20	12	6	M8×1.25	M22×1.5	7	8	16	19	10	12	29	8	6	1/8	33	29
25	21	14	30	14	16	22	17	6	M10×1.25	M22×1.5	7	8	16	19	12	12	34	10	8	1/8	33	29
32	27	14	30	14	16	22	17	6	M10×1.25	M24×2.0	8	10	16	25	12	15	39.5	12	10	1/8	37	32
40	27	14	32	14	22	24	17	7	M12×1.25	M30×2.0	9	12	20	25	12	15	49.5	16	14	1/4	47	41

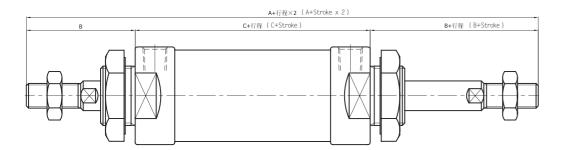
铝合金迷你气缸 MINI cylinder aluminum barrel / MALD

技术参数 Technical data



尺寸图-派生型 Dimensions-Various

MALD 双轴型 Double rod type



缸径 Bore(mm) Ø	A	В	С
20	150	40	70
25	158	44	70
32	158	44	70
40	184	46	92

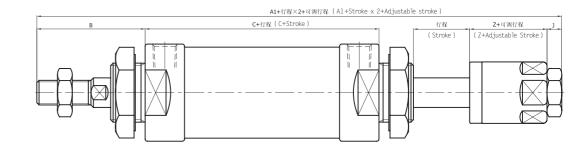
铝合金迷你气缸 MINI cylinder aluminum barrel / MALJ

F@RW\RD

技术参数 Technical data

尺寸图-派生型 Dimensions-Various

MALJ 双轴行程可调型 Adjustable stroke type



缸径 Bore(mm) Ø	A	В	С	J	Z
20	147	40	70	6	19
25	155	44	70	6	21
32	155	44	70	6	21
40	180	46	92	7	21

Pneumatic component

99-100 MINI cylinder aluminum barrel

紧凑型气缸 Compact cylinder / SDA,SSA,STA型号代码 Type codes





型号 Type	ie
SDA	复动型 Double-acting
SSA	单动押出型 Single acting-push type
STA	单动引入型 Single acting-pull type
磁石代号	Magnet
S	附磁石 With magnet
	不附磁石 Without magnet
缸径 Bore	e
行程 Stro	oke
牙型 Rod	I type
	内螺纹 Female thread
В	外螺纹 Male thread
N	无牙 No thread

紧凑型气缸 Compact cylinder / SDA,SSA,STA 技术参数 Technical data



			主要技术	₭参数 Ger	neral tecl	nnical dat	а				
缸径 Bore (mm) Ø		12	16	20	25	32	40	50	63	80	100
工作介质 Medium		经过滤的 Filtered	内压缩空 ^台 d compres	气,润滑或 ssed air,lu	t未润滑 ubricated	or unlubr	icated				
动作形式 Action Form		复动型 Double	Action								
			出型、单章 acting-pu								
保证耐压力 Pressure		15 bar									
使用压力范围 Operating Pressure	复动型 Double acting	1~9 baı	r								
	单动型 Single acting	2~9 bar									
缓冲形式 Cushion type		防撞垫 Bumper									
环境温度 Condition Temperatur	e	- 5~70	° C								
使用速度 Operation Speed	复动型 Double acting	30-500n	nm/s					30-350n	ım/s	30-250	mm/s
	单动型 Single acting	100-500	Omm/s	_	_			-			
连接尺寸 Connection		M5×0.8				1/8"		1/4"		3/8"	·

Pneumatic component 101-102 Compact cylinder

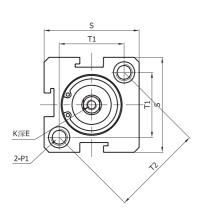
紧凑型气缸 Compact cylinder / SDA,SSA,STA

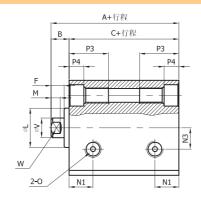
技术参数 Technical data

F@RW\RD

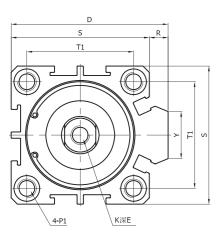


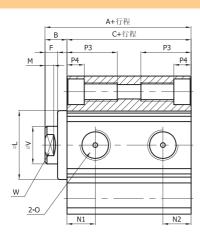
Ø 12~16



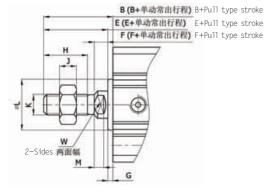


Ø 20~100





外牙尺寸 Male thread



缸径 Bore(mm) Ø	В	Ε	F	G	Н	J	K	L	М	W
12	17	16	4	1	10	4	M5×0.8	10.2	2.8	5
16	17.5	16	4	1.5	10	4	M5×0.8	11	2.8	5
20	20.5	19	4	1.5	13	5	M6×1.0	15	2.8	6
25	23	21	4	2	15	6	M8×1.25	17	2.8	8
32	25	22	4	3	15	6	M10×1.25	22	2.8	10
40	35	32	4	3	25	8	M14×1.5	28	2.8	14
50	37	33	5	4	25	11	M18×1.5	38	2.8	17
63	37	33	5	4	25	11	M18×1.5	40	2.8	17
80	44	39	6	5	30	13	M22×1.5	45	4	22
100	50	45	7	5	35	13	M26×1.5	55	4	27

紧凑型气缸 Compact cylinder / SDA,SSA,STA

技术参数 Technical data



紅径 Bore(mm) Ø		SDA			SDAS								N	11	N	12
urit Bore(iiii)	А	В	С	А	В	С	D	Ε	F	K	L	М	S=5	S>5	S=5	S>5
12	22	5	17	32	5	27	-	6	4	M3×0.5	10.2	2.8	6.3		6.3	
16	24	5.5	18.5	34	5.5	28.5	-	6	4	M3×0.5	11	2.8	7.3		7.3	
20	25	5.5	19.5	35	5.5	29.5	36	8	4	M4×0.7	15	2.8	7.5		7.3	
25	27	6	21	37	6	31	42	10	4	M5×0.8	17	2.8	8 8		8	
32	31.5	7	24.5	41.5	7	34.5	50	12	4	M6×1.0	22	2.8	9		9	
40	33	7	26	43	7	36	58.5	12	4	M8×1.25	28	2.8	10		10	
50	37	9	28	47	9	38	71.5	15	5	M10×1.5	38	2.8	10.5		10.5	
63	41	9	32	51	9	42	84.5	15	5	M10×1.5	40	2.8	9.5	12	9.5	11
80	52	11	41	62	11	51	104	20	6	M14×1.5	45	4	11.5	14.5	11.5	14.5
100	63	12	51	73	12	61	124	20	7	M18×1.5	55	4	16	20.5	16	20.5

缸径 Bore(mm) Ø	N3	0	P1	Р3	P4	R	S	T1	T2	٧	W	Υ
12	6	M5×0.8	两侧: ∅6.5\螺牙M5×0.8、通孔∅4.2	12	4.5	-	25	16.2	23	6	5	-
16	6.5	M5×0.8	两侧: Ø6.5\螺牙M5×0.8、通孔Ø4.2	12	4.5	-	29	19.8	28	6	5	-
20	-	M5×0.8	两侧: ∅6.5\螺牙M5×0.8、通孔 ∅4.2	14	4.5	2	34	24	-	8	6	10
25	-	M5×0.8	两侧: ∅8.2\螺牙M6×1.0、通孔∅4.6	15	5.5	2	40	28	-	10	8	10
32	-	1/8	两侧: ∅8.2\螺牙M6×1.0、通孔∅4.6	16	5.5	6	44	34	-	12	10	15
40	-	1/8	两侧: ∅10\螺牙M8×1.25、通孔∅6.5	20	7.5	6.5	52	40	-	16	14	16
50	-	1/4	两侧: ∅11\螺牙M8×1.25、通孔∅6.5	25	8.7	9.5	62	48	-	20	17	20
63	-	1/4	两侧: ∅11\螺牙M8×1.25、通孔∅6.5	25	8.7	9.5	75	60	-	20	17	20
80	-	3/8	两侧: Ø14\螺牙M12×1.75、通孔Ø9.2	25	10.5	10	94	74	-	25	22	26
100	-	3/8	两侧: ∅17.5\螺牙M14×2.0、通孔 ∅11.3	30	13	10	114	90	-	32	27	26

Pneumatic component

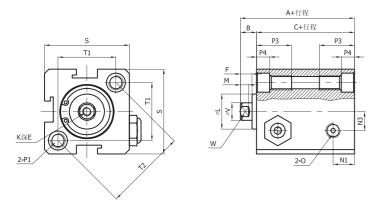
103-104 Compact cylinder

F@RW\RD

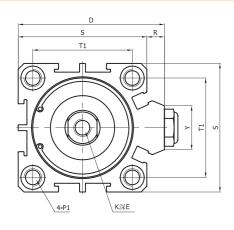
技术参数 Technical data

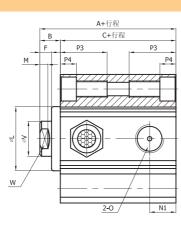
SSA SSAS 尺寸图 Dimensions

Ø 12~16



Ø 20~100



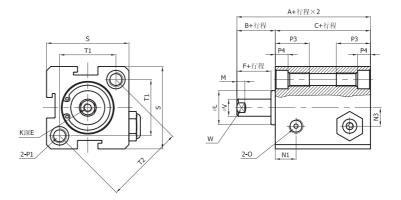


			SSA					SSAS								
缸径 Bore(mm) Ø		A			С	A	1		(;						
	S ≤ 10	S>10	В	S ≤ 10	S>10	S ≤ 10	S>10	В	S ≤ 10	S>10	D	Ε	F	K	L	М
12	32	42	5	27	37	42	52	5	37	47	-	6	4	M3×0.5	10.2	2.8
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	M3×0.5	11	2.8
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	M4×0.7	15	2.8
25	37	47	6	31	41	47	67	6	41	51	42	10	4	M5×0.8	17	2.8
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	M6×1.0	22	2.8
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	M8×1.25	28	2.8

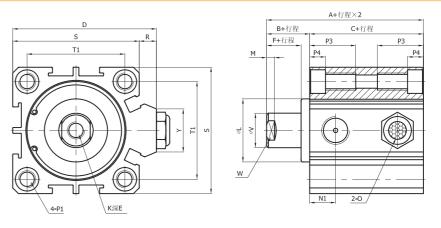
缸径 Bore(mm) Ø	N1	N3	0	P1	РЗ	P4	R	S	T1	T2	٧	W	Υ
12	6.3	6	M5×0.8	两侧: Ø6.5\螺牙M5×0.8、通孔Ø4.2	12	4.5	-	25	16.2	23	6	5	-
16	7.3	6.5	M5×0.8	两侧: ∅6.5\螺牙M5×0.8、通孔∅4.2	12	4.5	-	29	19.8	28	6	5	-
20	7.5	-	M5×0.8	两侧: ∅6.5\螺牙M5×0.8、通孔∅4.2	14	4.5	2	34	24	-	8	6	10
25	8	-	M5×0.8	两侧: ∅8.2\螺牙M6×1.0、通孔 ∅4.6	15	5.5	2	40	28	-	10	8	10
32	9	-	1/8	两侧: ∅8.2\螺牙M6×1.0、通孔 ∅4.6	16	5.5	6	44	34	-	12	10	15
40	10	-	1/8	两侧: Ø10\螺牙M8×1.25、通孔Ø6.5	20	7.5	6.5	52	40	-	16	14	16

STA STAS 尺寸图 Dimensions

Ø 12~16



Ø 20~100



	STA				STAS											
缸径 Bore(mm) Ø	A			С		А			С							
	S ≤ 10	S>10	В	S ≤ 10	S>10	S ≤ 10	S>10	В	S ≤ 10	S>10	D	Ε	F	K	L	М
12	32	42	5	27	37	42	52	5	37	47	-	6	4	M3×0.5	10.2	2.8
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	M3×0.5	11	2.8
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	M4×0.7	15	2.8
25	37	47	6	31	41	47	67	6	41	51	42	10	4	M5×0.8	17	2.8
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	M6×1.0	22	2.8
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	M8×1.25	28	2.8

缸径 Bore(mm) Ø	N1	N3	0	P1	Р3	P4	R	S	T1	T2	V	W	Υ
12	6.3	6	M5×0.8	两侧: ∅6.5\螺牙M5×0.8、通孔∅4.2	12	4.5	-	25	16.2	23	6	5	-
16	7.3	6.5	M5×0.8	两侧: ∅6.5\螺牙M5×0.8、通孔∅4.2	12	4.5	-	29	19.8	28	6	5	_
20	7.5	-	M5×0.8	两侧: ∅6.5\螺牙M5×0.8、通孔∅4.2	14	4.5	2	34	24	-	8	6	10
25	8	-	M5×0.8	两侧: ∅8.2\螺牙M6×1.0、通孔∅4.6	15	5.5	2	40	28	-	10	8	10
32	9	-	1/8	两侧: ∅8.2\螺牙M6×1.0、通孔∅4.6	16	5.5	6	44	34	-	12	10	15
40	10	-	1/8	两侧: ∅10\螺牙M8×1.25、通孔 ∅6.5	20	7.5	6.5	52	40	-	16	14	16

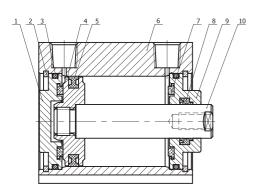
紧凑型气缸 Compact cylinder / SDA,SSA,STA

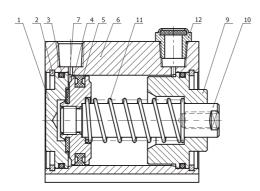
技术参数 Technical data

SDA

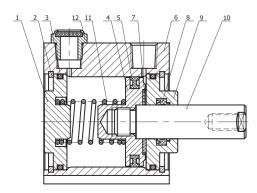
F@RW\RD

内部结构图 Inner structure





STA



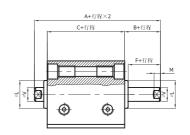
序号 NO.	名称 Item	序号 NO.	名称 Item	序号 NO.	名称 Item
1	后盖 Back cover	6	本体 Body	11	弹簧 Spring
2	C型扣环 C clip	7	防撞垫片 Bumper	12	消声器 Silencer
3	前后盖O型圈 Cover gasket	8	前盖密封圈 Rod packing		
4	活塞 Piston	9	前盖 Front cover		
5	活塞O型圈 Piston O-ring	10	活塞杆 Rod		

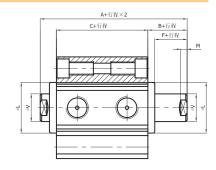
紧凑型气缸 Compact cylinder / SDA,SSA,STA

技术参数 Technical data

F@RW\RD

派生型 VariantsSDAD,SDADS 双端活塞杆 Through piston rodØ 12–16Ø 20 – 100



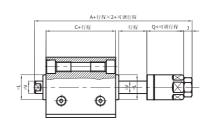


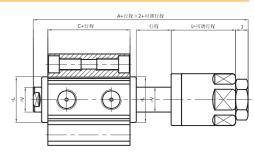
7747 Dana(mm) (7		SDAD		SDADS						
缸径 Bore(mm) Ø	А	В	С	А	В	С	F	٧	L	М
12	27	5	17	37	5	27	4	6	10.2	2.8
16	29.5	5.5	18.5	39.5	5.5	28.5	4	6	11	2.8
20	30.5	5.5	19.5	40.5	5.5	29.5	4	8	15	2.8
25	33	6	21	43	6	31	4	10	17	2.8
32	34.5	7	24.5	48.5	7	34.5	4	12	22	2.8
40	40	7	26	50	7	36	4	16	28	2.8
50	46	9	28	56	9	38	5	20	38	2.8
63	50	9	32	60	9	42	5	20	40	2.8
80	63	11	41	73	11	51	6	25	45	4
100	75	12	51	85	12	61	7	32	55	4

SDAJ,SDAJS 行程可调型 Adjustable stroke type

Ø 12–16

Ø 20 – 100





缸径 Bore(mm) Ø	SD	AJ	SDA					
缸径 Bore(IIIII) Ø	А	С	А	С	Q	J	L	V
12	40	17	50	27	13	4	10.2	6
16	42.5	18.5	52.5	28.5	13	4	11	6
20	47.5	19.5	57.5	29.5	16	5	15	8
25	55	21	65	31	19	6	17	10
32	61.5	24.5	71.5	34.5	21	6	22	12
40	65	26	75	36	21	8	28	16
50	73	28	83	38	21	11	38	20
63	77	32	87	42	21	11	40	20
80	94	41	104	51	24	13	45	25
100	105	51	115	61	24	13	55	32

Pneumatic component

107-108 Compact cylinder