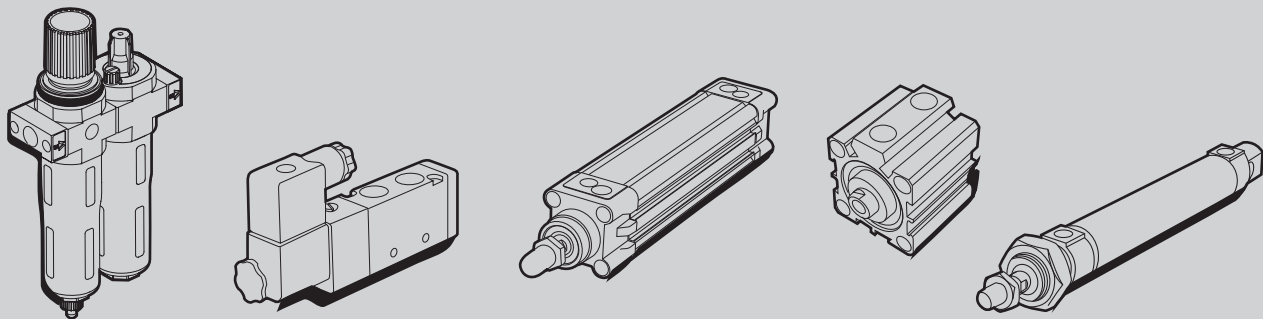




FORWARD

Thanks to browse

Welcome to FORWARD



FORWARD Machinery Co., Ltd.

Pneumatic Component
Hydraulic Component

3 YongHe Road,Industry Zone XiKou,FengHua,ZheJiang,China 315502

Telephone +86 574 8856 6988
+86 574 8884 8789
Fax +86 574 8856 6899
E-mail sales@forwardmachinery.com

宁波 孚沃得机械有限公司

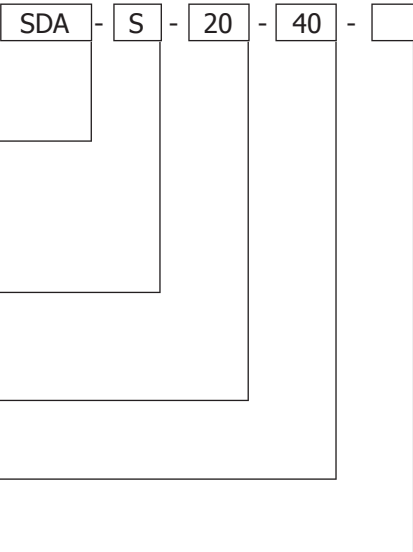
气动元件
液压元件

中国 浙江 奉化市 溪口镇工业园区永和路3号 315502

电话 +86 574 8856 6988
+86 574 8884 8789
传真 +86 574 8856 6899
E-mail sales@forwardmachinery.com



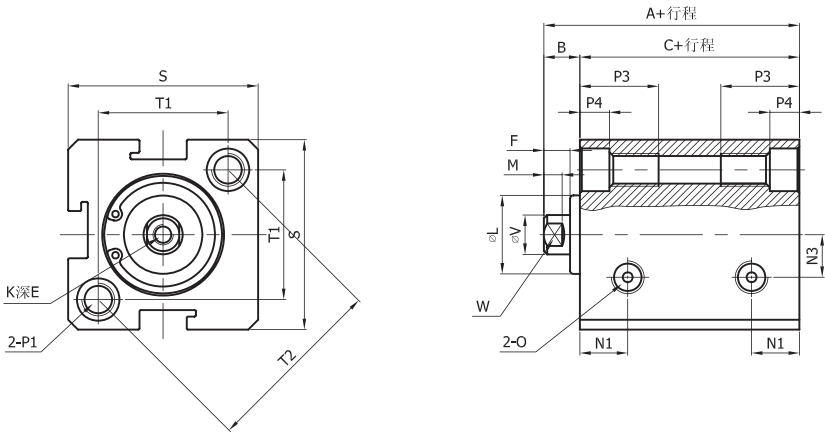
型号 Type	
SDA	复动型 Double-acting
SSA	单动伸出型 Single acting-push type
STA	单动引入型 Single acting-pull type
磁石代号 Magnet	
S	附磁石 With magnet
	不附磁石 Without magnet
缸径 Bore	
行程 Stroke	
牙型 Rod type	
	内螺纹 Female thread
B	外螺纹 Male thread
N	无牙 No thread



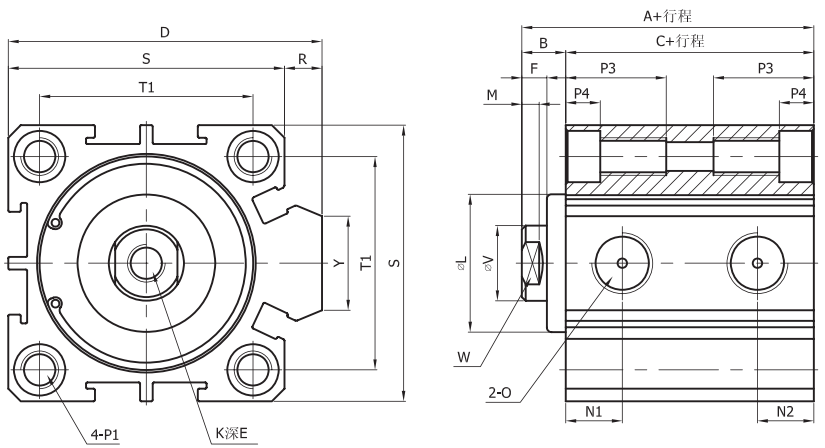
主要技术参数 General technical data											
缸径 Bore (mm) Ø		12	16	20	25	32	40	50	63	80	100
工作介质 Medium		经过滤的压缩空气，润滑或未润滑 Filtered compressed air, lubricated or unlubricated									
动作形式 Action Form		复动型 Double Action									
		单动伸出型、单动引入型 Single acting-push type									
保证耐压力 Pressure		15 bar									
使用压力范围 Operating Pressure	复动型 Double acting	1~9 bar									
	单动型 Single acting	2~9 bar									
缓冲形式 Cushion type		防撞垫 Bumper									
环境温度 Condition Temperature		- 5~70° C									
使用速度 Operation Speed	复动型 Double acting	30~500mm/s						30~350mm/s		30~250mm/s	
	单动型 Single acting	100~500mm/s						—			
连接尺寸 Connection		M5×0.8				1/8"		1/4"		3/8"	

SDA SDAS 尺寸图 Dimensions

Ø 12~16

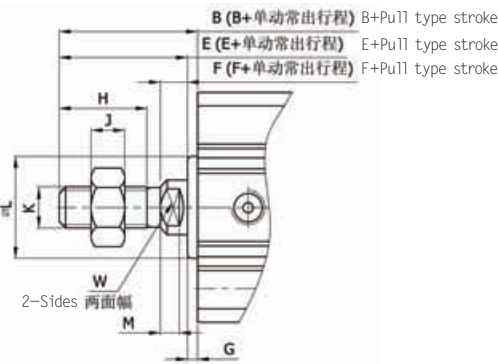


Ø 20~100



外牙尺寸 Male thread

缸径 Bore(mm) Ø	B	E	F	G	H	J	K	L	M	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

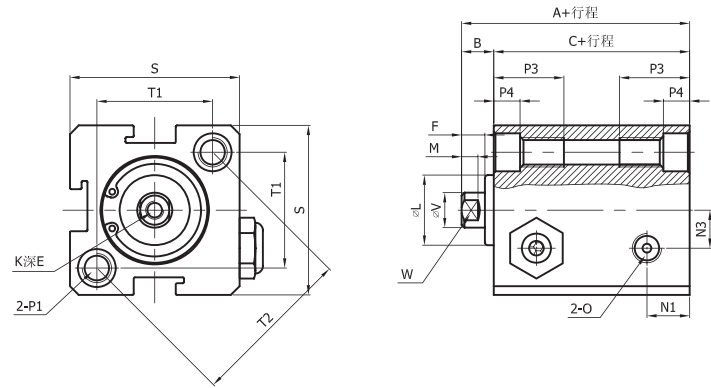


缸径 Bore(mm) Ø	SDA			SDAS			D	E	F	K	L	M	N1		N2	
	A	B	C	A	B	C							S=5	S>5	S=5	S>5
12	22	5	17	32	5	27	—	6	4	M3×0.5	10.2	2.8	6.3		6.3	
16	24	5.5	18.5	34	5.5	28.5	—	6	4	M3×0.5	11	2.8	7.3		7.3	
20	25	5.5	19.5	35	5.5	29.5	36	8	4	M4×0.7	15	2.8	7.5		7.3	
25	27	6	21	37	6	31	42	10	4	M5×0.8	17	2.8	8		8	
32	31.5	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

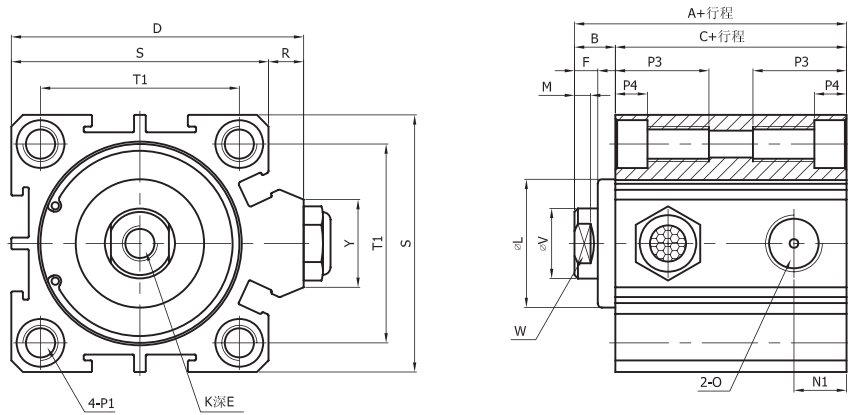
缸径 Bore(mm) Ø	N3	O	P1	P3	P4	R	S	T1	T2	V	W	Y
12	6	M5×0.8	两侧: Ø6.5\螺牙M5×0.8、通孔Ø4.2	12	4.5	—	25	16.2	23	6	5	—
16	6.5	M5×0.8	两侧: Ø6.5\螺牙M5×0.8、通孔Ø4.2	12	4.5	—	29	19.8	28	6	5	—
20	—	M5×0.8	两侧: Ø6.5\螺牙M5×0.8、通孔Ø4.2	14	4.5	2	34	24	—	8	6	10
25	—	M5×0.8	两侧: Ø8.2\螺牙M6×1.0、通孔Ø4.6	15	5.5	2	40	28	—	10	8	10
32	—	1/8	两侧: Ø8.2\螺牙M6×1.0、通孔Ø4.6	16	5.5	6	44	34	—	12	10	15
40	—	1/8	两侧: Ø10\螺牙M8×1.25、通孔Ø6.5	20	7.5	6.5	52	40	—	16	14	16
50	—	1/4	两侧: Ø11\螺牙M8×1.25、通孔Ø6.5	25	8.7	9.5	62	48	—	20	17	20
63	—	1/4	两侧: Ø11\螺牙M8×1.25、通孔Ø6.5	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: Ø17.5\螺牙M14×2.0、通孔Ø11.3	30	13	10	114	90	—	32	27	26

SSA SSAS 尺寸图 Dimensions

Ø 12~16



Ø 20~100

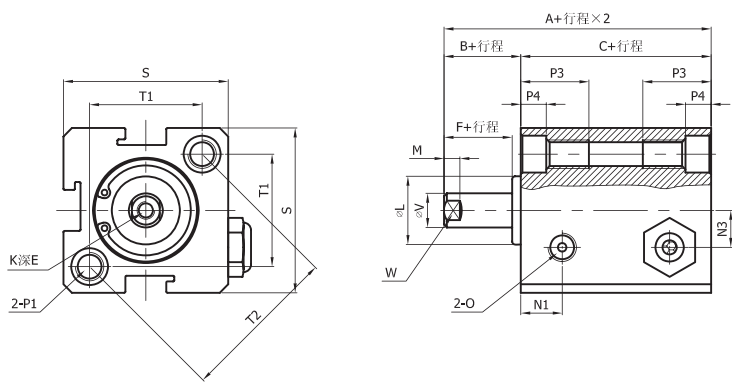


缸径 Bore(mm) Ø	SSA					SSAS					D	E	F	K	L	M
	A		B	C		A		B	C							
	S≤10	S>10		S≤10	S>10	S≤10	S>10		S≤10	S>10						
12	32	42	5	27	37	42	52	5	37	47	—	6	4	M3×0.5	10.2	2.8
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	—	6	4	M3×0.5	11	2.8
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	M4×0.7	15	2.8
25	37	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

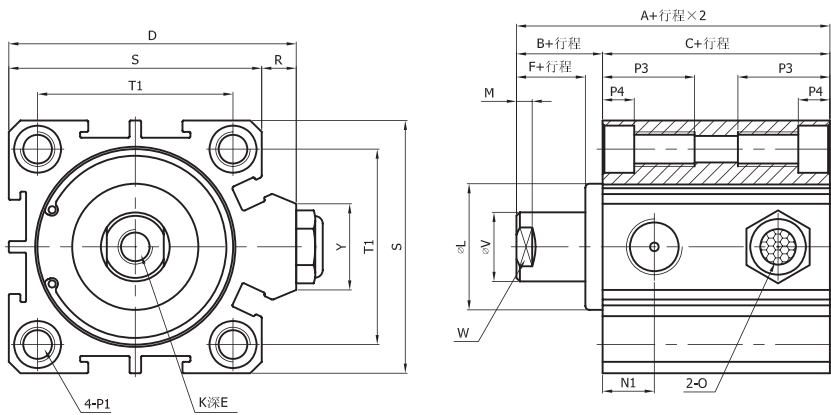
缸径 Bore(mm) Ø	N1	N3	O	P1	P3	P4	R	S	T1	T2	V	W	Y
12	6.3	6	M5×0.8	两侧: Ø6.5螺牙M5×0.8、通孔Ø4.2	12	4.5	—	25	16.2	23	6	5	—
16	7.3	6.5	M5×0.8	两侧: Ø6.5螺牙M5×0.8、通孔Ø4.2	12	4.5	—	29	19.8	28	6	5	—
20	7.5	—	M5×0.8	两侧: Ø6.5螺牙M5×0.8、通孔Ø4.2	14	4.5	2	34	24	—	8	6	10
25	8	—	M5×0.8	两侧: Ø8.2螺牙M6×1.0、通孔Ø4.6	15	5.5	2	40	28	—	10	8	10
32	9	—	1/8	两侧: Ø8.2螺牙M6×1.0、通孔Ø4.6	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	50	40	—	16	14	16

STA STAS 尺寸图 Dimensions

Ø 12~16



Ø 20~100



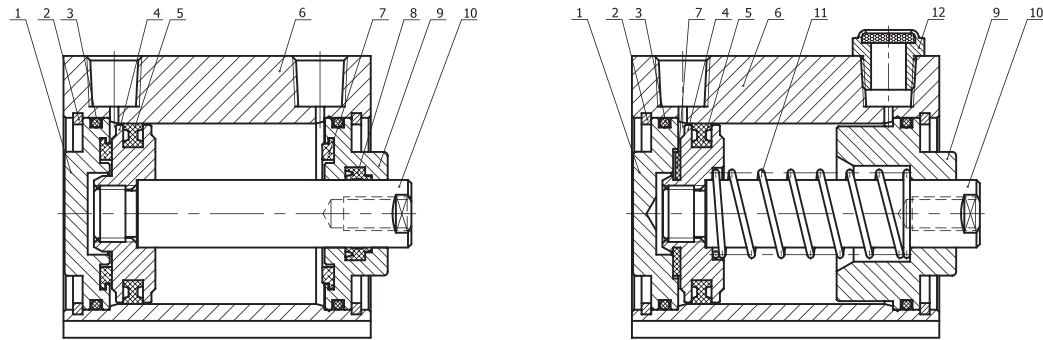
缸径 Bore(mm) Ø	STA					STAS					D	E	F	K	L	M
	A		B	C		A		B	C							
	S≤10	S>10		S≤10	S>10	S≤10	S>10		S≤10	S>10						
12	32	42	5	27	37	42	52	5	37	47	—	6	4	M3×0.5	10.2	2.8
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	—	6	4	M3×0.5	11	2.8
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	M4×0.7	15	2.8
25	37	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	O	P1	P3	P4	R	S	T1	T2	V	W	Y
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: Ø6.5螺牙M5×0.8、通孔Ø4.2	12	4.5	—	29	19.8	28	6	5	—
20	7.5	—	M5×0.8	两侧: Ø6.5螺牙M5×0.8、通孔Ø4.2	14	4.5	2	34	24	—	8	6	10
25	8	—	M5×0.8	两侧: Ø8.2螺牙M6×1.0、通孔Ø4.6	15	5.5	2	40	28	—	10	8	10
32	9	—	1/8	两侧: Ø8.2螺牙M6×1.0、通孔Ø4.6	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	50	40	—	16	14	16

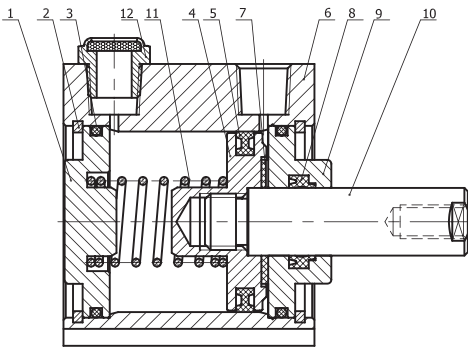
内部结构图 Inner structure

SDA

SSA



STA



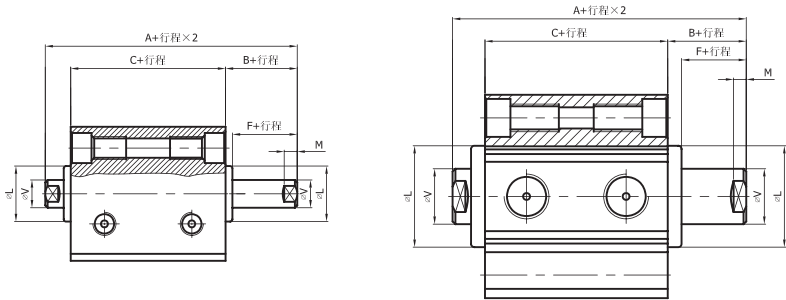
序号 NO.	名称 Item	序号 NO.	名称 Item	序号 NO.	名称 Item
1	后盖 Back cover	6	本体 Body	11	弹簧 Spring
2	C型扣环 C clip	7	防撞垫片 Bumper	12	消声器 Silencer
3	前后盖O型圈 Cover gasket	8	前盖密封圈 Rod packing		
4	活塞 Piston	9	前盖 Front cover		
5	活塞O型圈 Piston O-ring	10	活塞杆 Rod		

派生型 Variants

SDAD,SDADS 双端活塞杆 Through piston rod

Ø 12-16

Ø 20 - 100

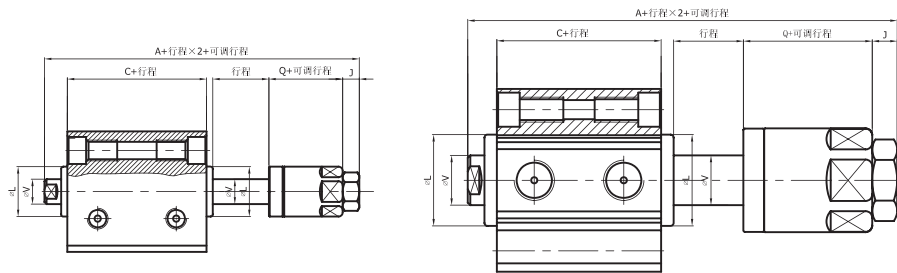


缸径 Bore(mm) Ø	SDAD			SDADS			F	V	L	M
	A	B	C	A	B	C				
12	27	5	17	37	5	27	4	6	10.2	2.8
16	29.5	5.5	18.5	39.5	5.5	28.5	4	6	11	2.8
20	30.5	5.5	19.5	40.5	5.5	29.5	4	8	15	2.8
25	33	6	21	43	6	31	4	10	17	2.8
32	34.5	7	24.5	48.5	7	34.5	4	12	22	2.8
40	40	7	26	50	7	36	4	16	28	2.8
50	46	9	28	56	9	38	5	20	38	2.8
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	SDAJ		SDAJS		Q	J	L	V
	A	C	A	C				
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