



Dedicated valve actuator  
致力于阀门执行机构的研发与配套

# ALUMINUM AT ACTUATORS

## 铝AT执行器



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WUXI ACCTON FLUID TECHNOLOGY CO., LTD



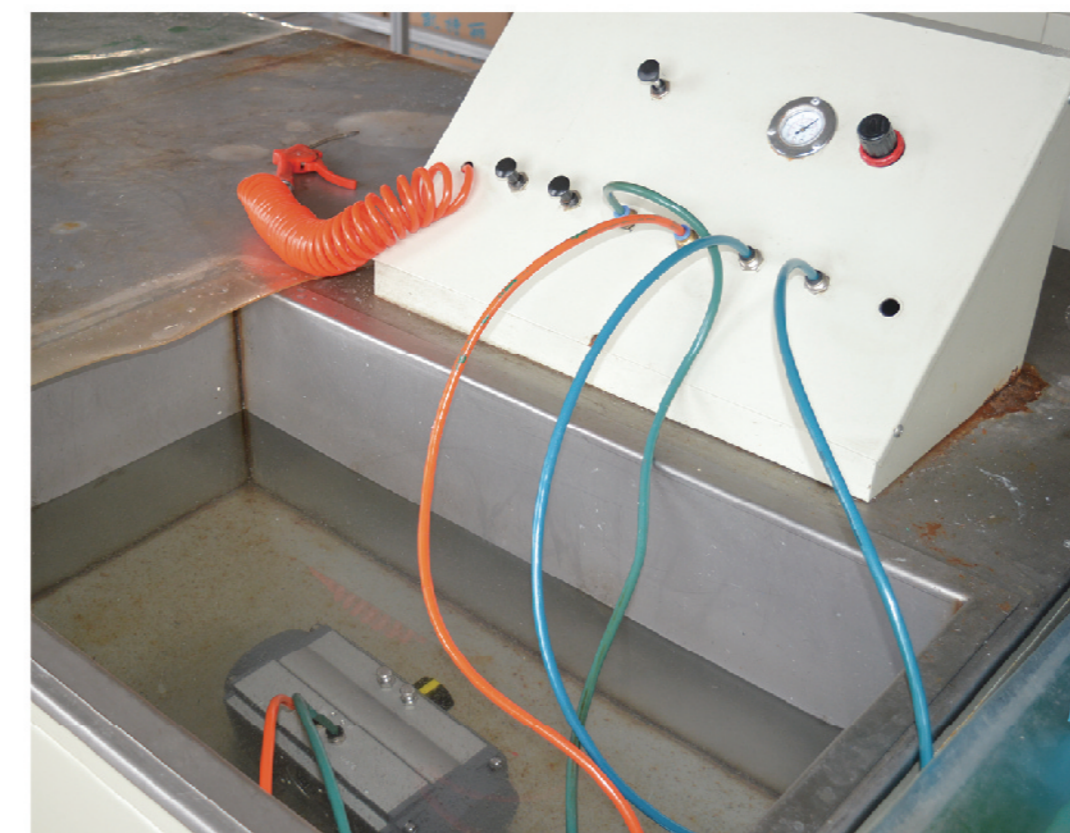
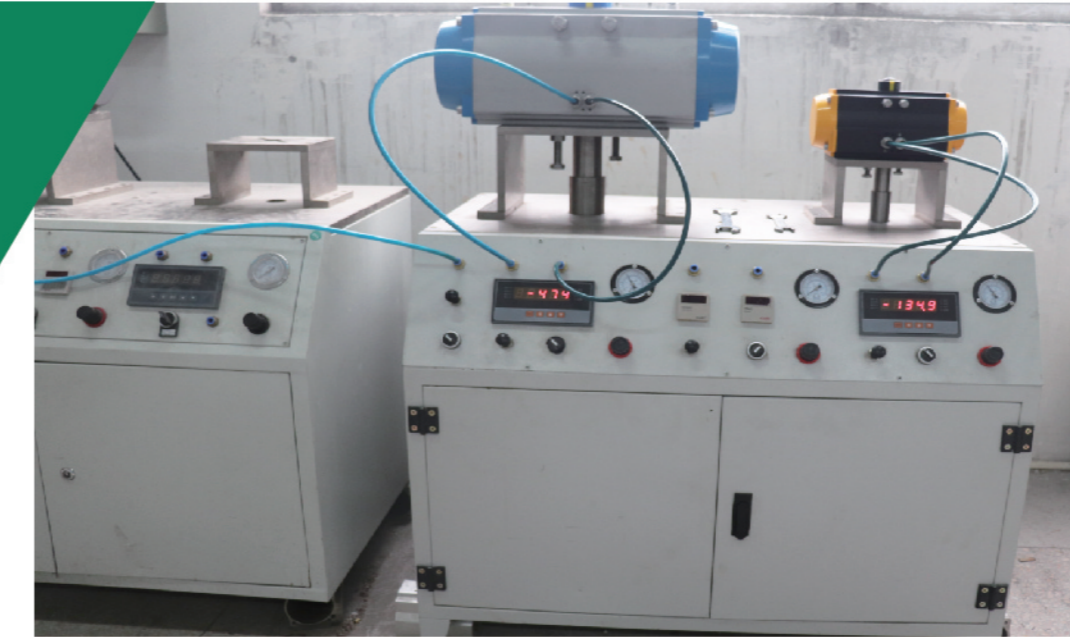
**01** 专业 可靠 先进  
Mechanical Manufacturing  
专业制造气动执行器  
Professional Manufacturing of Pneumatic Actuators



**气动执行器优质供应商**

## 02 工欲善其事，必先利其器 Advanced Testing Equipment 先进的检测设备

用心才能创新 竞争才能发展  
Innovate with Intention Competition can develop



只有好的管理、好的理念、好的人才还是不够的，还需要有精良的设备才能给企业提供强大的生产能力，并且确保产品的卓越品质。

我们有国际上先进生产设备和人才，拥有高精度的加工中心、车铣中心和专机设备为产品质量和企业的发展提供了有力的保障。

only good management,good ideas,good talent is not enough,refined equipment is equally required to guarantee high production capacity and excellent quality. importing global advanced producting and processing equipment and talent,st.hans now has high-accuracy cnc machines,large-size processing machines and custom machines,which guarantee the excellent product quality and thus the rapid development of the company.

产品介绍 Product description

<p><b>1 指示器 Indicator</b></p> <p>NAMUR标准指示器便于安装位置开关、定位器等附件。 Position indicator with NAMUR is convenient for mounting accessories such as Limit Switch box, Positioner</p>	
<p><b>2 齿轮轴 Pinion</b></p> <p>镀镍合金钢、高精度一体式输出轴同时符合NAMUR、ISO5211、DIN3337标准。可根据客户要求定制尺寸和不锈钢材料。 The pinion is high-precision and integrative, made from nickelled-alloy steel, full conform to the latest standards of ISO5211, DIN3337, NAMUR. The dimensions can be customized and the stainless steel is available.</p>	
<p><b>3 缸体 Actuator Body</b></p> <p>ASTM6005压铸铝合金缸体可以采用硬质氧化、环氧树脂喷涂（根据要求喷涂蓝色、橙色、黄色等）、PTFE涂层或镀镍满足不同要求。 According to the different requirements, the extruded aluminum alloy ASTM6005 Body can be treated with hard anodized, powder polyester painted (different colours is available such as blue, orange, yellow etc.), PTFE or Nickel plated.</p>	
<p><b>4 端盖 End caps</b></p> <p>压铸铝合金表面金属粉末喷涂各种颜色、PTFE涂层或镀镍处理。 Die-casting aluminum powder polyester painted in different colours, PTFE or Nickel plated.</p> <p><b>端盖颜色</b></p> 	

**5 活塞 Pistons**

双活塞齿条、采用铸铝硬质氧化或者铸钢镀锌处理，安装位置对称、运作迅速、使用寿命长，简单的颠倒活塞可以改变旋转方向。

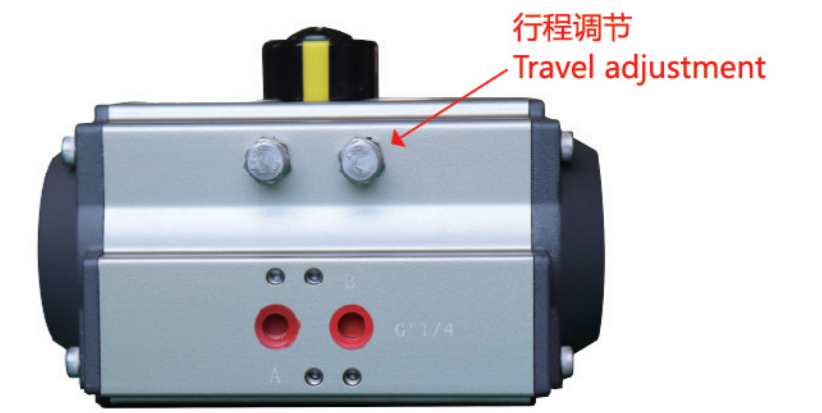
The twin rack pistons are made from Die-casting aluminum treated with hard anodized or made from cast steel with galvanization. Symmetric mounting position, long cycle life and fast operation, reversing rotation by simply inverting the



**6 行程调节 Travel adjustment**

两个独立的行程调节螺钉可以进行方便精确±5°的调节开关位置。

The two independent external travel stop adjustment bolts can adjust ±5° at both open and close directions easily and precisely.



**7 高性能弹簧 High performance springs**

采用优质材料、涂层处理、预压装配。具有较强的抗腐蚀性和使用寿命。能够按期、简单的拆卸单作用执行器通过改变弹簧数量满足不同的力矩输出范围。

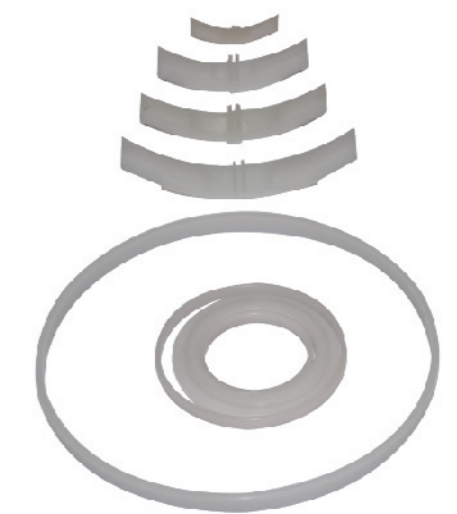
Preloaded coatingsprings are made from the high quality material for resistant to corrosion and longer service life which can be, demounted safely and conveniently to satisfy requirement of torque by changing quantity of springs.



**8 轴承、导板 Bearing & Guides**

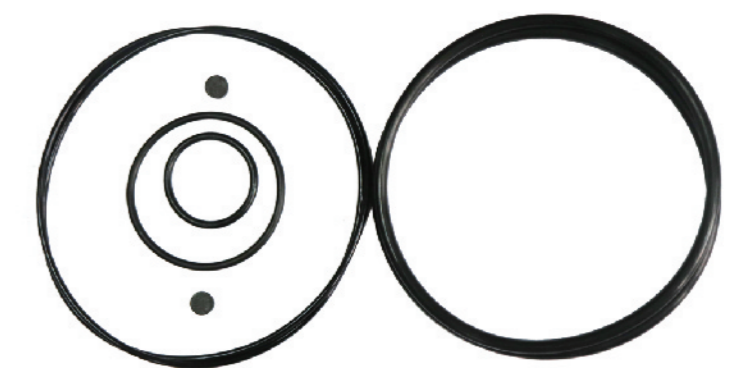
采用低摩擦、长寿命复合材料，避免了金属与金属的直接接触，维修更换简单方便。

Made from low friction, long-life compound material, to avoid the direct contact between metals. The maintenance and replacement are easy and convenient.

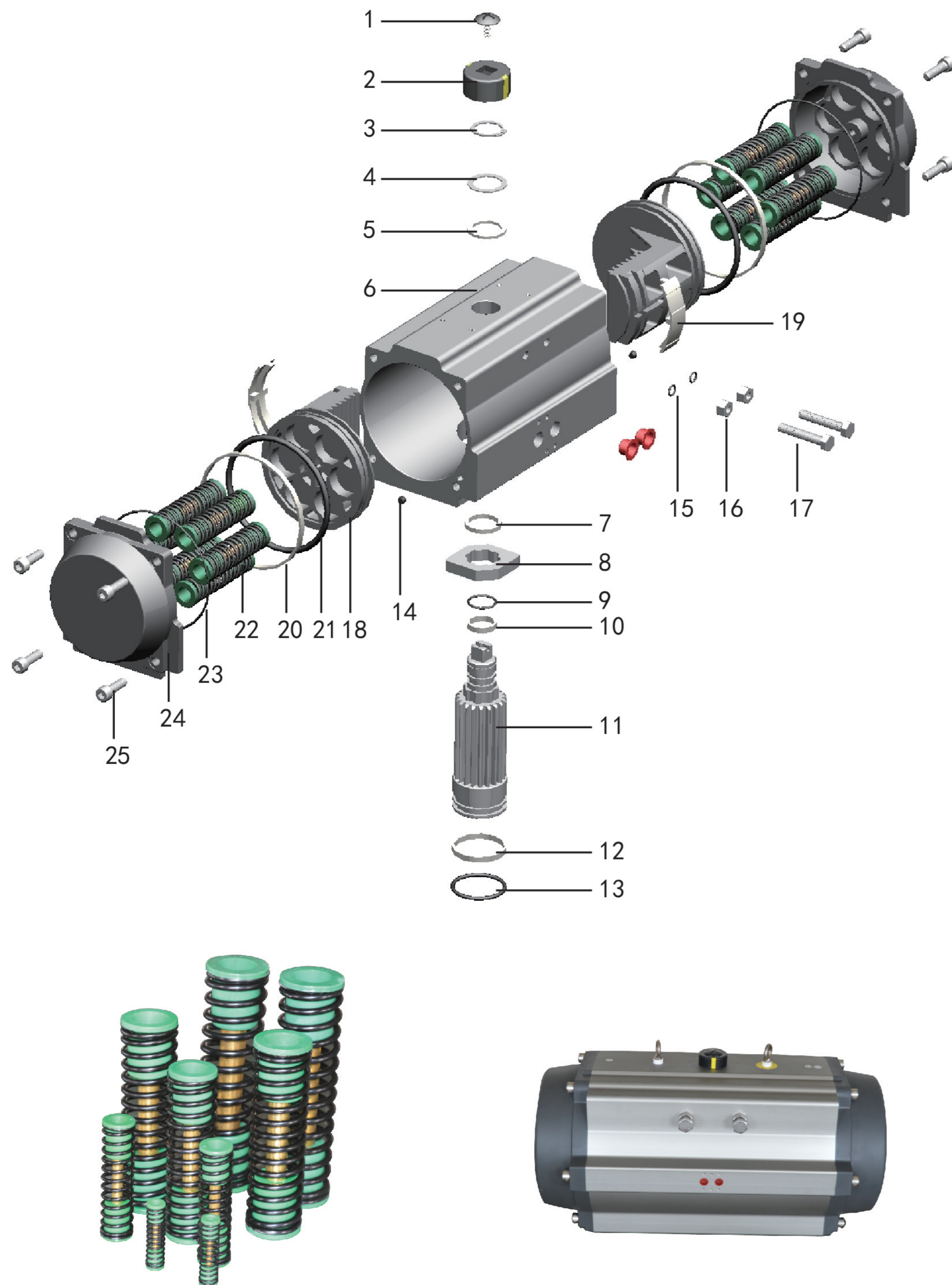


**9 密封 O-rings**

在常温工作条件下使用丁腈橡胶温度是：-20°C~+80°C  
在高温使用氟橡胶温度是：-15°C~+150°C  
在低温使用硅橡胶温度是：-60°C~+80°C  
Temperature conditions to use NBR: -20°C~+80°C  
In High temperature conditions to use Viton: -15°C~+150°C  
In Low temperature conditions to use Silicone: -60°C~+80°C



零件和材料 Parts and Material



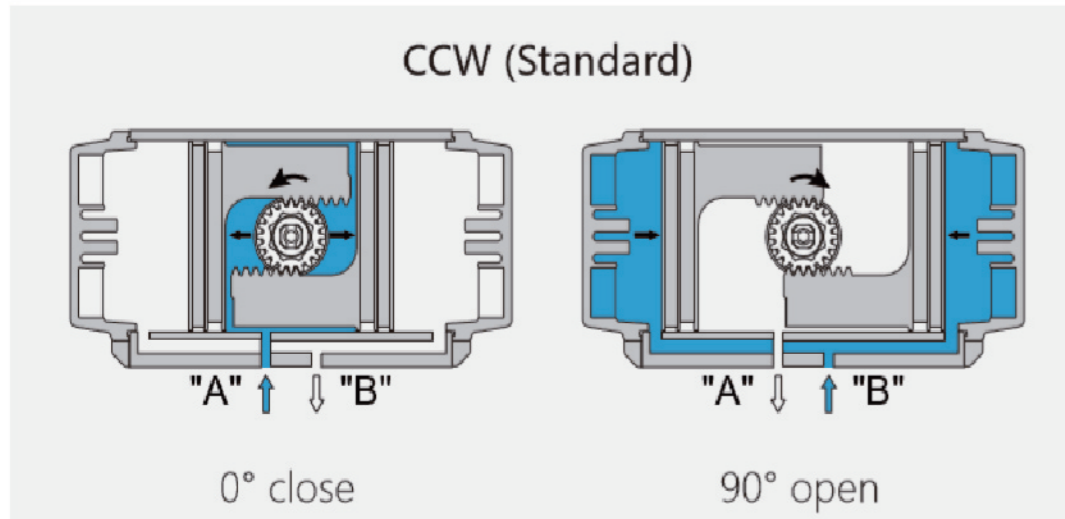
参数 Parameters

序号	名称	数量	材料	防腐处理	可选材料
1	指示器螺钉	1	塑料		
2	指示器	1	塑料		
3	轴挡	1	不锈钢		
4	金属垫片	1	不锈钢		
5	外垫片	1	工程塑料		
6	缸体	1	铝合金	硬质氧化	
7	内垫片	1	工程塑料		
8	凸轮	1	合金钢		
9	上轴O型圈	1	丁腈橡胶		氟橡胶/硅橡胶
10	上轴支撑圈	1	工程塑料		
11	轴	1	合金钢	镀镍	不锈钢
12	下轴支撑圈	1	工程塑料		
13	下轴O型圈	1	丁腈橡胶		氟橡胶/硅橡胶
14	塞头	2	丁腈橡胶		氟橡胶/硅橡胶
15	调节螺栓O型圈	2	丁腈橡胶		氟橡胶/硅橡胶
16	螺母	2	不锈钢		
17	调节螺栓	2	不锈钢		
18	活塞	2	压铸铝合金	硬质氧化	
19	活塞导板	2	工程塑料		
20	活塞支撑圈	2	工程塑料		
21	活塞O型圈	2	丁腈橡胶		氟橡胶/硅橡胶
22	弹簧	0-12	琴钢丝	浸漆	
23	端盖O型圈	2	丁腈橡胶		氟橡胶/硅橡胶
24	端盖	2	压铸铝合金	粉末喷涂	
25	端盖紧固螺栓	8	不锈钢		

NO.	Description	Qty	Standard Material	Protection	Optional Material
1	Indicator screw	1	Plastic		
2	Indicator	1	Plastic		
3	Axis block	1	Stainless steel		
4	Metal gasket	1	Stainless steel		
5	Outside washer	1	Engineering plastics		
6	Body	1	Aluminum	Hard anodized etc	
7	Inside washer	1	Engineering plastics		
8	Cam	1	Alloy steel		
9	Bearing(Pinion top)	1	NBR		Viton/Silicone
10	Shaft support ring	1	Engineering plastics		
11	Axis	1	Alloy steel	Nickel plated	Stainless steel
12	Lower shaft support ring	1	Engineering plastics		
13	Bearing(Pinion bottom)	1	NBR		Viton/Silicone
14	Plugs	2	NBR		Viton/Silicone
15	O-ring (Adjusting bolt)	2	NBR		Viton/Silicone
16	Screw nut	2	Stainless steel		
17	Adjusting bolt	2	Stainless steel		
18	Piston	2	Die-casting aluminum	Hard anodized etc	
19	Piston guides	2	Stainless steel		
20	Piston support ring	2	Engineering plastics		
21	O-ring (Piston)	2	NBR		Viton/Silicone
22	Spring	0-12	Spring steel	Dip coating	
23	Plug	2	NBR		Viton/Silicone
24	End cap	2	Die-casting aluminum	Powder polyster painted etc	
25	End cap fastening bolt	8	Stainless steel		

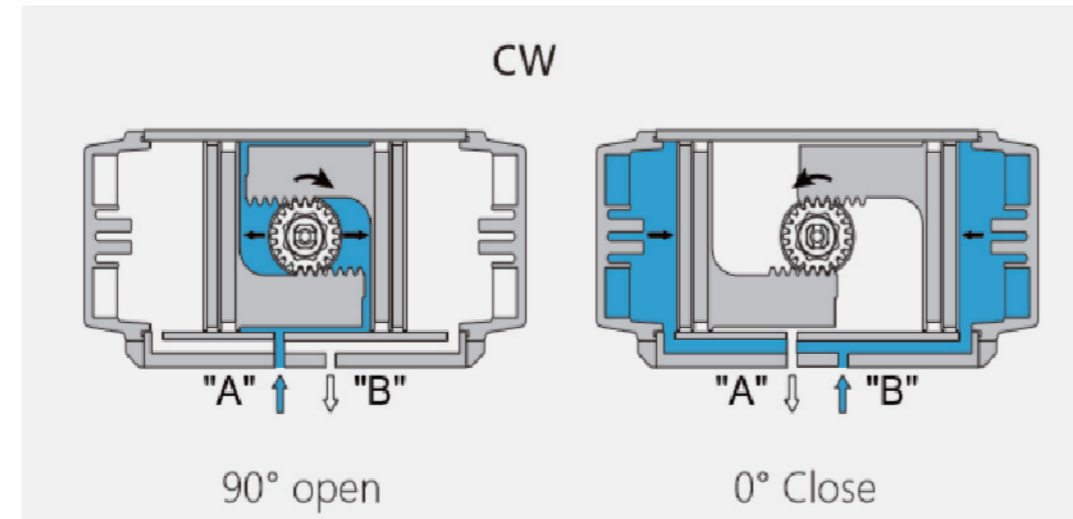
工作原理 Operating Principle

双作用执行器 Double Acting Actuators



A口进气, 压缩空气推动活塞向外运动, 使执行器输出轴逆时针旋转(0°→90°), B口排气。B口进气, 压缩空气推动活塞向内运动, 使执行器输出轴顺时针旋转(90°→0°), A口排气。

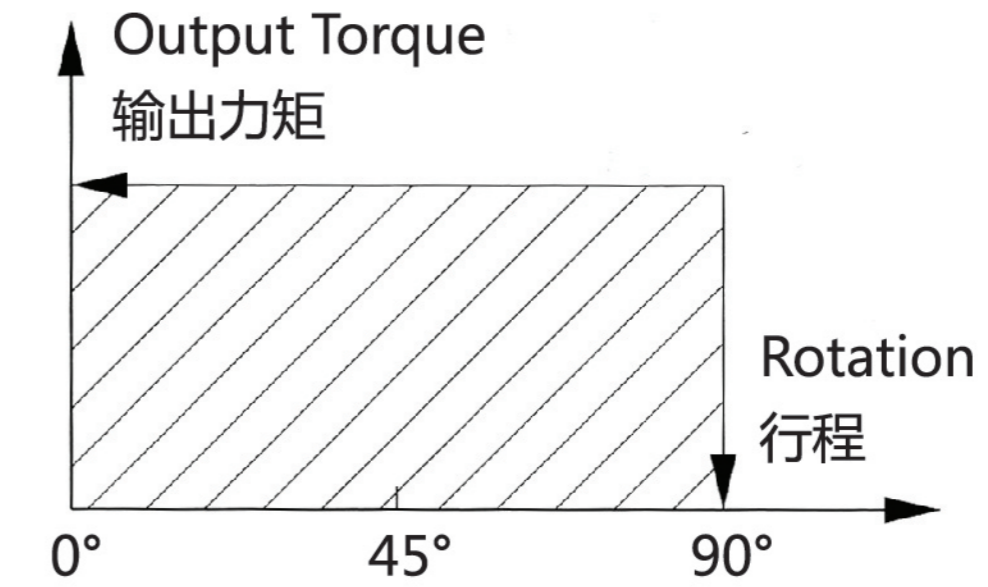
Air to Port A forces the pistons outwards, causing the drive shaft to turn counterclockwise while the air is being exhausted from Port B. Air to Port B forces the pistons inwards, causing the drive shaft to turn clockwise while the air is being exhausted from Port A.



A口进气, 压缩空气推动活塞向外运动, 使执行器输出轴顺时针旋转(90°→0°), B口排气。B口进气, 压缩空气推动活塞向内运动, 使执行器输出轴逆时针旋转(0°→90°), A口排气。

Air to Port A forces the pistons outwards, causing the drive shaft to turn clockwise while the air is being exhausted from Port B. Air to Port B forces the pistons inwards, causing the drive shaft to turn counterclockwise while the air is being exhausted from Port A.

双作用输出力矩 Output Torque Of Double Acting Actuators



Unit:Nm

型号Model	气源压力Air supply pressure(Unit:bar)									
	2	2.5	3	4	4.5	5	5.5	6	7	8
DA-32	3	4	5	6	7	8	8	9	11	12
DA-40	5	6	7	10	11	12	13	14	17	19
DA-52	8	10	12	16	18	20	22	24	28	32
DA-63	15	18	22	29	33	36	40	44	51	58
DA-75	20	25	30	40	45	50	55	60	70	80
DA-83	31	39	47	63	70	78	86	94	110	125
DA-92	45	56	68	90	102	113	124	135	158	181
DA-105	66	83	99	132	149	165	182	198	231	264
DA-125	100	125	150	200	226	251	276	301	351	401
DA-140	171	214	256	342	385	427	470	513	598	684
DA-160	266	332	399	532	598	665	731	798	931	1064
DA-190	426	532	638	851	958	1064	1170	1277	1490	1702
DA-210	532	665	798	1064	1197	1330	1463	1596	1862	2128
DA-240	769	962	1154	1539	1731	1924	2116	2308	2693	3078
DA-270	1170	1462	1754	2339	2632	2924	3216	3509	4094	4679
DA-300	1526	1908	2289	3052	3434	3815	4197	4578	5341	6104
DA-350	2285	2856	3427	4570	5141	5712	6283	6854	7997	9139
DA-400	3256	4070	4884	6512	7326	8140	8954	9768	11396	13024

双作用执行器的选型：  
在正常操作条件下，双作用执行器考虑的安全系数为20%-30%。

示例：

- 阀门力矩=100Nm
- 安全力矩=100×(1+30%)=130Nm
- 气源压力=5Bar

对照双作用力矩表，选配双作用执行器最小规格为DA105。

Sizing:Double Acting Actuator

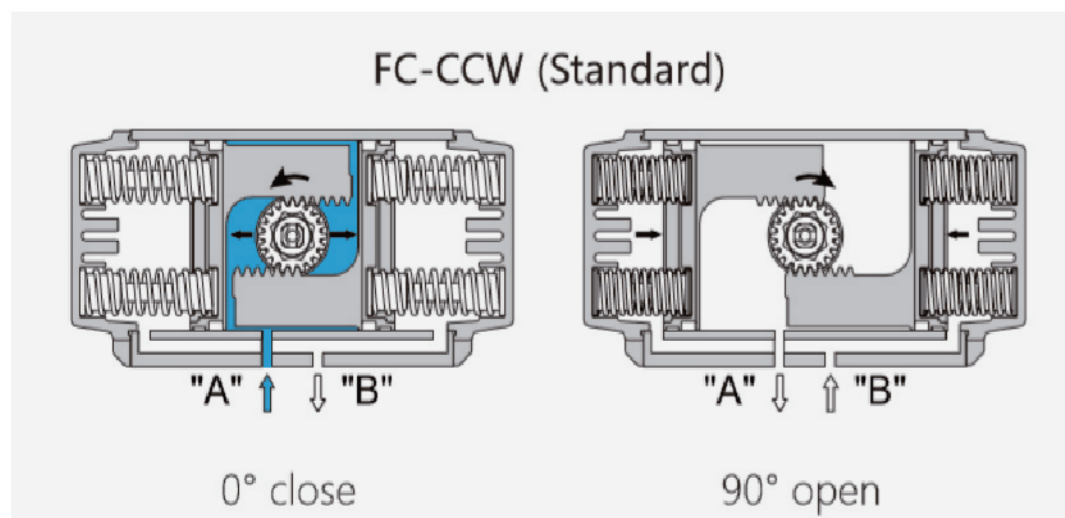
The suggested safety factor for double acting actuators under normal working conditions is 20%-30%.

Example:

- The torque needed by valve=100N·m
- The torque considered safety factor(1+30%)=130N·m
- Air Supply=5Bar

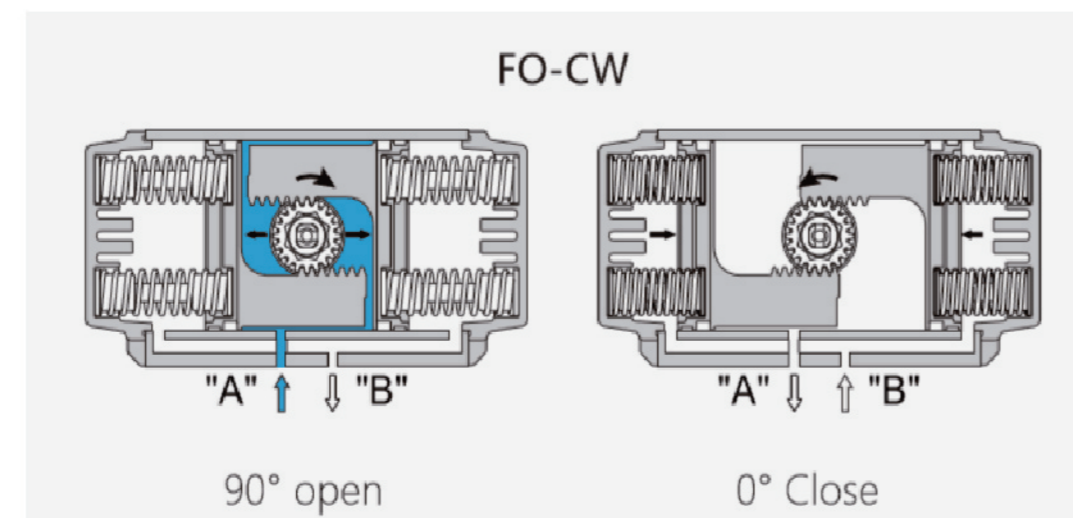
According to the above table,we can choose the minimum model is DA105.

单作用执行器 Spring Return Actuators



A口进气,压缩空气克服弹簧力, 推动活塞向外运动, 执行器输出轴逆时针转动(0°→90°), B口排气; 执行器失气, 活塞在弹簧力的作用下向内运动, 执行器输出轴顺时针转动(90°→0°), A口排气。

Air to port A forces the pistons outwards, causing the springs to compress. The drive shaft turns counterclockwise while air is being exhausted from port B. Loss of air pressure on port A, the stored energy in the springs forces the pistons inwards. The drive shaft turns clockwise while air is being exhausted from port A.

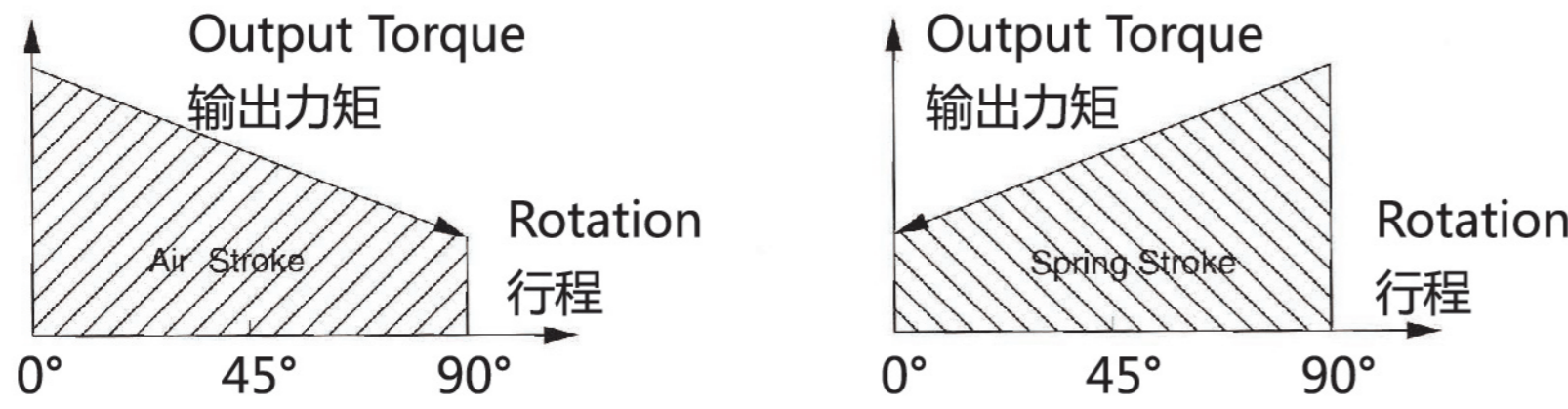


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Air to port A forces the pistons outwards, causing the springs to compress. The drive shaft turns clockwise while air is being exhausted from port B. Loss of air pressure on port A, the stored energy in the springs forces the pistons inwards. The drive shaft turns counterclockwise while air is being exhausted from port A.

单作用输出力矩 Output Torque Of Spring Return Actuators

Unit:Nm



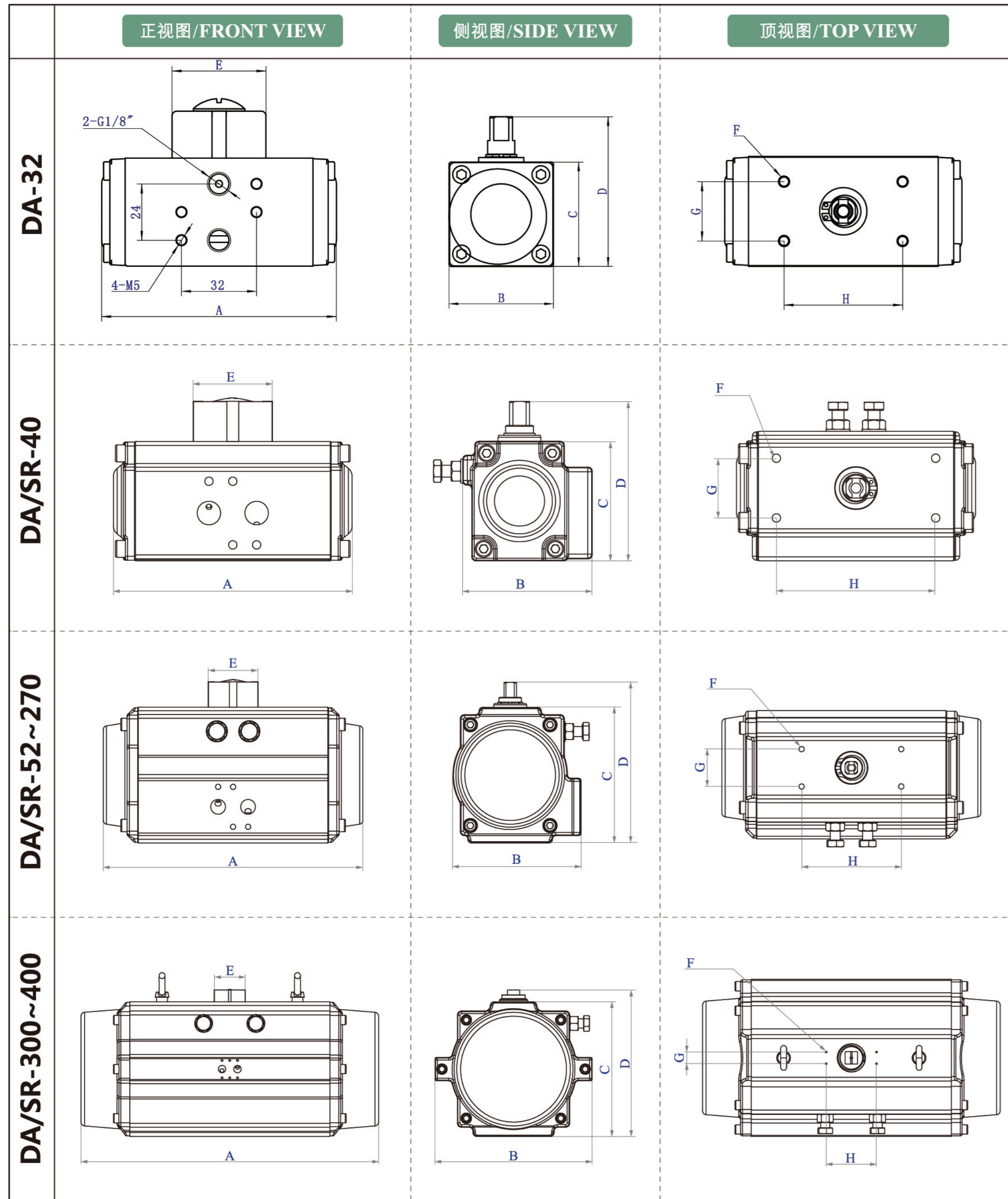
输出扭矩Output torque of air to springs

气泵Air pressure	型号Model	Spring Qty.	2.5BAR		3BAR		4BAR		5BAR		6BAR		7BAR		8BAR		Springs' output	
			0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End
	SR-40	K2	1.3		2.7		5.0	1.4	7.5	3.1	9.8	4.5					7.5	4.8
	SR-52	K5	5.7	3.8	7.6	5.7											6.2	4.3
		K6	4.9	2.5	6.9	4.5	10.9	8.5									7.4	5.0
		K7	4.0	1.3	6.0	3.3	9.8	7.3	14.0	10.4							8.6	5.9
		K8			5.2	2.0	9.2	6.0	13.2	9.1	17.2	14.1					9.9	6.7
		K9			4.3	0.8	8.3	4.8	12.3	7.9	16.3	12.8	20.3	16.8			11.1	7.6
		K10					7.4	3.6	11.5	6.7	15.5	11.6	19.5	15.6			12.4	8.5
		K11					6.6	2.3	10.6	5.4	14.6	10.4	18.6	14.3	22.6	18.3	13.6	9.3
		K12							9.7	4.2	13.8	9.1	17.8	12.2	21.8	17.1	14.8	10.2
	SR-63	K5	11.4	7.7	15.0	11.4	22.3	14.9									10.4	6.8
		K6	10.1	5.7	13.6	9.3	20.9	16.6	28.3	23.9							12.5	8.2
		K7	8.6	3.6	12.5	7.2	19.5	14.5	26.8	21.9							14.6	9.6
		K8			10.9	5.1	18.2	12.4	25.5	19.8	32.8	27.0	40.1	34.3			16.7	10.9
		K9					16.8	10.4	24.1	17.7	31.4	24.9	38.7	32.2			18.8	12.3
		K10					14	8.2	22.8	15.6	30.0	22.8	37.3	30.1	44.7	37.4	20.9	13.7
		K11							21.5	13.5	28.7	20.7	36.0	28.0	43.3	35.3	22.9	15.0
		K12							20.0	11.4	27.3	18.6	34.6	25.9	41.9	33.3	25.0	16.4
	SR-75	K5	14.5	10.6	19.4	15.5	29.5	25.7									14.5	10.5
		K6	12.4	7.6	17.3	12.6	27.4	22.7	37.5	32.8							17.4	12.7
		K7	10.4	4.8	15.2	9.7	25.3	19.9	35.4	29.9							20.3	14.8
		K8			13.1	6.8	23.1	16.9	33.3	27.0	43.2	37.0	53.3	47.0			23.2	16.9
		K9					21.0	14.1	31.2	24.1	41.1	34.1	51.2	44.2			26.1	19.0
		K10					19.0	11.1	28.8	21.2	39.0	31.2	49.1	41.2	59.1	51.2	29.0	21.1
		K11							27.0	18.3	37.0	28.3	47.0	38.4	57.0	48.4	31.9	23.2
		K12							24.9	15.4	34.9	25.4	44.9	35.4	54.9	45.4	34.7	25.3
	SR-83	K5	23.3	16.1	31.1	24.0	46.8	39.7									23.0	15.8
		K6	20.1	11.5	28.0	19.3	43.7	35.1	59.4	50.7							27.6	19.0
		K7	17.0	6.9	24.8	14.8	40.5	30.5	56.2	46.2							32.2	22.1
		K8			21.7	10.1	37.4	25.8	53.1	41.5	68.8	57.2	84.5	72.9			36.8	25.3
		K9					34.2	21.3	49.9	37.0	65.6	52.6	81.2	68.3			41.4	28.5
		K10					31.0	16.6	46.7	32.3	62.4	48.0	78.1	63.7	93.8	79.3	46.0	31.6
		K11							43.6	27.7	59.3	43.4	75.0	59.1	90.6	74.8	50.6	34.8
		K12							40.4	23.2	56.1	38.9	71.7	54.5	87.4	70.2	55.2	38.0
	SR-92	K5	33.1	22.0	44.2	33.2	66.8	55.9									34.4	23.3
		K6	28.4	15.2	39.6	26.4	62.2	49.0	84.8	71.6							41.2	28.0
		K7	23.8	8.2	34.9	19.4	57.5	42.1	80.2	64.7							48.1	32.7
		K8			31.3	12.6	52.9	35.2	75.5	57.9	98.1	80.5	120.7	103.0			55.0	37.3
		K9					48.2	28.4	70.9	51.0	93.5	73.6	116.0	96.1			61.9	42.0
		K10					43.6	21.5	66.2	44.1	88.8	66.7	111.3	89.2	134.0	111.8	68.7	46.7
		K11							61.5	37.2	84.1	59.9	106.6	82.4	129.2	105.0	75.6	51.4
		K12							56.8	30.4	79.4	53.0	101.9	75.5	124.5	98.1	82.5	56.0
	SR-105	K5	51.0	33.4	67.5	49.9	100.6	83.0									49.2	31.6
		K6	44.7	23.5	61.1	40.0	94.2	73.2	127.3	106.2							59.1	38.0
		K7	38.4	13.7	54.9	30.3	87.9	63.4	121.0	96.4							68.9	44.3
		K8			48.5	20.4	81.6	53.5	114.7	86.5	147.7	119.6	180.8	152.7			78.7	50.6
		K9					75.3	43.7	108.4	76.8	141.5	109.8	174.5	142.9			88.6	56.9
		K10					68.9	33.4	102.0	66.5	135.1	99.6	168.2	132.6	201.2	165.7	98.4	63.3
		K11							95.7	57.0	128.7	90.1	161.8	123.1	194.8	156.2	108.3	69.6
		K12							89.4	47.5	122.5	80.6	155.5	113.6	188.6	146.7	118.1	75.9
	SR-125	K5	73	47	98	72	148	122									79	52
		K6	63	31	88	56	138	107	188	157							94	63
		K7	52	15	77	40	127	90	178	141							110	73
		K8			67	25	117	75	167	125	217	176	268	226			125	84
		K9					107	59	157	109	207	159	257	210			141	94
		K10					96	44	146	94	196	144	247	194	297	245	157	105
		K11							136	78	186	128	236	178	286	228	173	115
		K12							125	63	176	113	226	163	276	213	188	125

输出扭矩Output torque of air to springs

气压Air pressure	2.5BAR	3BAR	4BAR	5BAR	6BAR	7BAR	8BAR	Springs' output											
型号Model	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	90° Start	0° End									
SR-140	K5	128	85	171	127	256	213											129	86
	K6	111	59	154	102	239	187		325	273								155	103
	K7	94	33	137	76	222	162		308	247								181	120
	K8			120	50	205	136		291	221	376	307	462	392				206	137
	K9					187	110		273	196	358	281	444	367				232	155
	K10					170	84		256	169	341	255	427	340	512	426		258	172
	K11								238	143	324	229	409	314	495	400		284	189
	K12								221	118	307	203	392	289	478	374		310	206
SR-160	K5	193	124	259	191	392	324											208	140
	K6	165	83	232	149	365	282		498	415								250	168
	K7	137	41	203	107	336	240		469	373								292	196
	K8			176	66	309	199		442	237	575	465	708	598				333	223
	K9					280	157		413	290	546	423	679	556				375	251
	K10					253	115		386	248	519	381	652	514	785	647		417	279
	K11								358	207	491	340	624	473	757	606		458	307
	K12								330	165	463	298	596	431	729	564		500	335
SR-190	K5	332	222	438	329	651	542											309	200
	K6	292	161	398	267	611	480		824	693								371	240
	K7	252	99	358	205	571	418		784	631								433	280
	K8			318	143	531	356		744	569	957	782	1169	995				495	320
	K9					491	295		704	507	917	720	1130	933				557	360

10、外形尺寸图 Dimensions

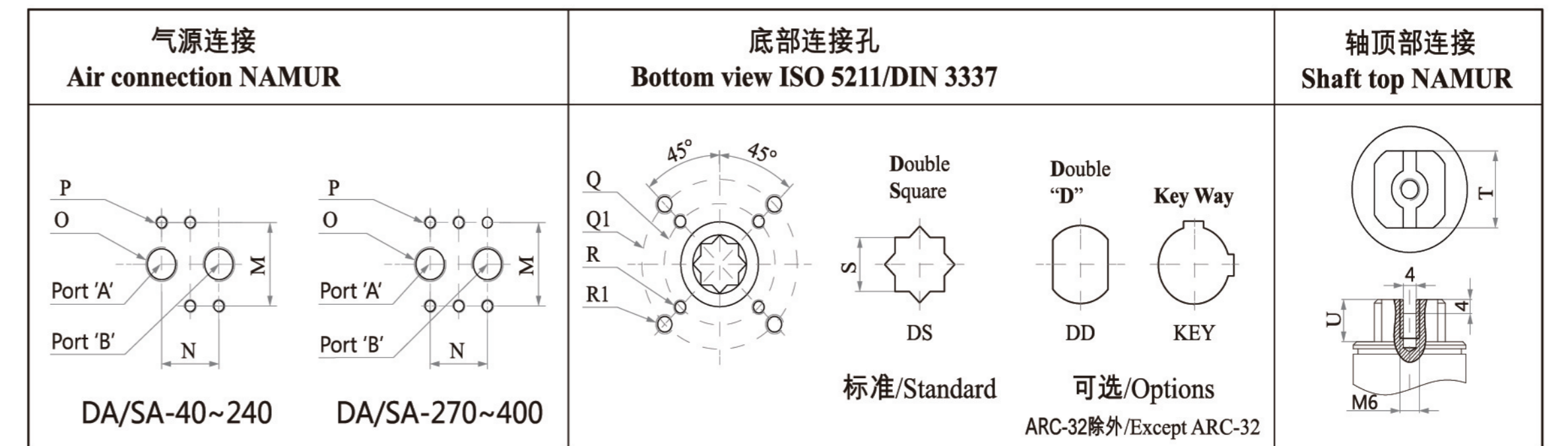


外形尺寸表 Dimensions

单位：毫米 / Unit:mm

型号 Model	32	40	52	63	75	83	92	105	125	140	160	190	210	240	270	300	350	400
A	110	122	147	168	186	212	262	268	301	390	458	534	538	602	718	782	920	940
B	46	65	71.5	83	95	103	108.5	121.5	142	152.5	174	206	226	260	294	336	385	520
C	46	60	72	88	99.5	109	116.5	133	155	172	197	230	255	289	326	350	410	466
D	66	80	92	108	119.5	129	136.5	153	185	202	227	260	285	319	356	380	440	496
E	Ø40	Ø40	Ø40	Ø40	Ø40	Ø40	Ø40	Ø40	Ø55	Ø55	Ø55	Ø80	Ø80	Ø80	Ø80	Ø80	Ø80	Ø80
F	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8
G	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
H	50	80	80	80	80	80	80	80	80/130	80/130	80/130	130	130	130	130	130	130	130

连接尺寸图 Connection



连接尺寸表 Connection

单位：毫米 / Unit:mm

型号 Model	32	40	52	63	75	83	92	105	125	140	160	190	210	240	270	300	350	400
M	32	32	32	32	32	32	32	32	32	32	32	32	32	32	45	45	45	45
N	24	24	24	24	24	24	24	24	24	24	24	24	24	24	40	40	40	40
O	G1/8"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/2"	G1/2"	G1/2"	G1/2"
P	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M6x10	M6x10	M6x10	M6x10
Q	/	F03	F03	F05	F05	F05	F05	F07	F07	F10	F10	/	/	/	/	F16	F16	F16
Q1	F03	F05	F05	F07	F07	F07	F07	F10	F10	F12	F12	F14	F14	F16	F16	Ø215	F25	F25
R	/	M5x8	M5x8	M6x10	M6x10	M6x10	M6x10	M8x13	M8x13	M10x16	M10x16	/	/	/	/	M20x25	M20x25	M20x25
R1	M5x6	M6x9	M6x9	M8x13	M8x13	M8x13	M8x13	M10x16	M10x16	M12x19	M12x19	M16x23	M16x23	M20x25	M20x25	M20x25	M16x24	M16x24
S	9x12	11x14	11x14	14x18	14x18	17x21	17x21	22x26	22x26	27x31	27x31	36x50	36x50	46x60	46x60	46x60	46x60	55x60
T	10	10	10	10	10	10	14	14	22	22	22	32	32	32	32	32	32	32
U	10.5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

\* 8个连接孔。 8 screw holes



在正常工作条件下，单作用执行器考虑的安全系数为30%-50%

例如：

阀门需要力矩=80N·m

安全力矩=80 ( 1+30% ) =104N·m

气源压力=5Bar

对照单作用执行器输出力矩表，我们可以查到SR140K7

输出力矩为

空气行程0°=308N·m

空气行程90°=247N·m

弹簧行程90°=181N·m

弹簧行程0°=120N·m

所有输出力矩均大于我们需求。

注意：

单作用执行器弹簧复位过程中，执行器B口通气不影响执行器输出力矩，相反帮助弹簧的复位。

The suggested safety factor for spring return actuator under normal working conditions is 30-50%

Example:

The torque needed by valve=80N.m

The torque consider safety factor(1+30%)=104N·m

Air Supply=5Bar

According to the table of spring return actuators' output,

we find out torque of SR140 K7 is:

Air stroke 0°=308N·m

Air stroke 90°=247N·m

Spring stroke 90°=181N·m

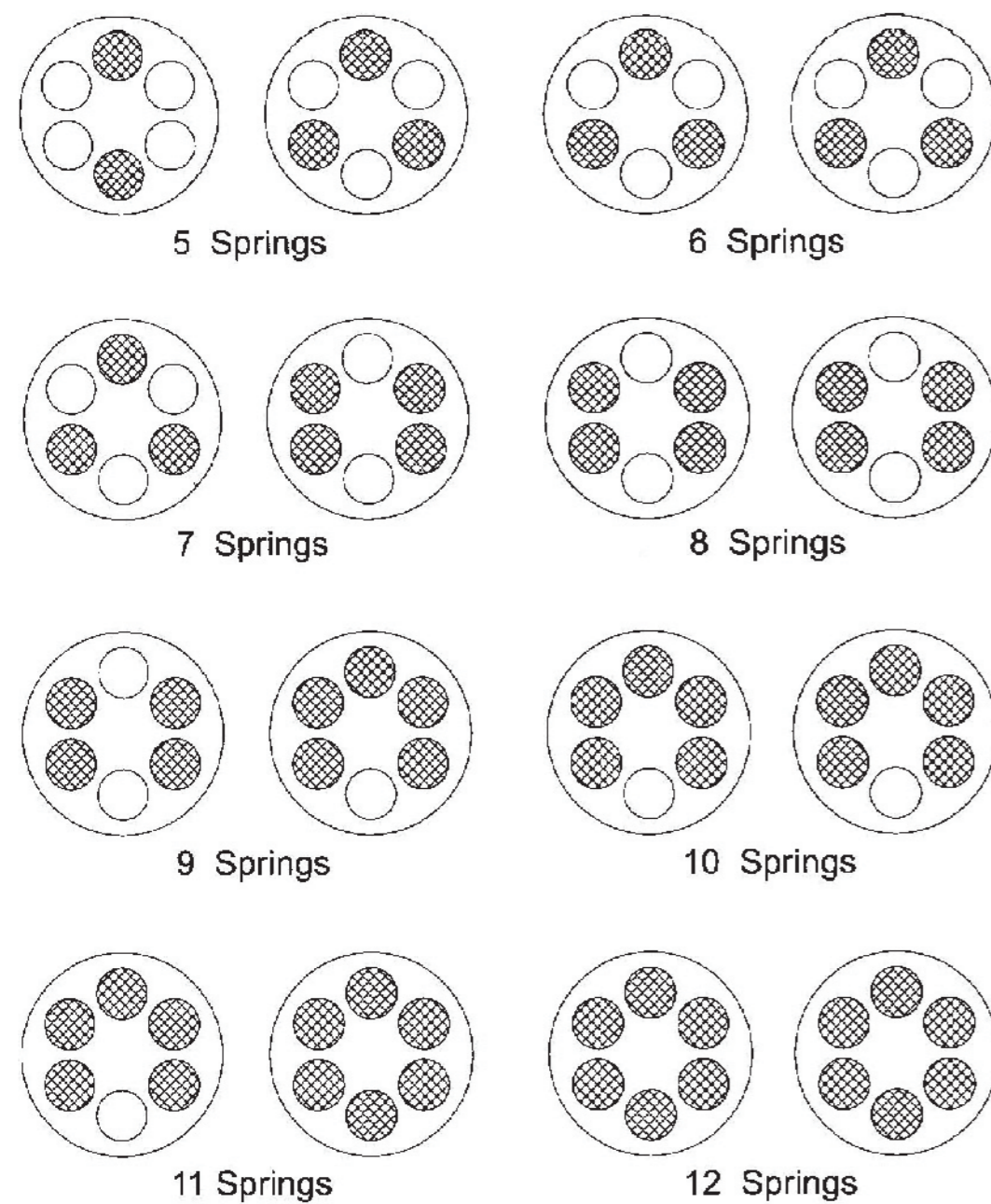
Spring stroke 0°=120N·m

All the output torque is large than we needed.

Attention

During the restoration,the spring return actuators' output will not be affected by the inputing air from the port B.On the contrary , it will help the restoration of springs.

### 单作用执行器弹簧安装形式 Spring mounting form for spring return actuators



在单作用执行器的选配过程中，如果能够了解阀门在开启、运行和关闭时的扭矩分配，我们就可以更加经济、更加合理地选配执行器。

During selecting the spring return actuators ,we can choose the more reasonable and more economical actuators,if we know the differe nt torque needed by the valve working at ope ning, operating and closing.

Example:

The max torque needed by the butterfly valve=104N.m

The torque after

opened(operating)104×30%=32N.m

Air Supply=5Bar

We can select the SR125 K11

output torque is:

Air stroke 0°136N.m>104N.m

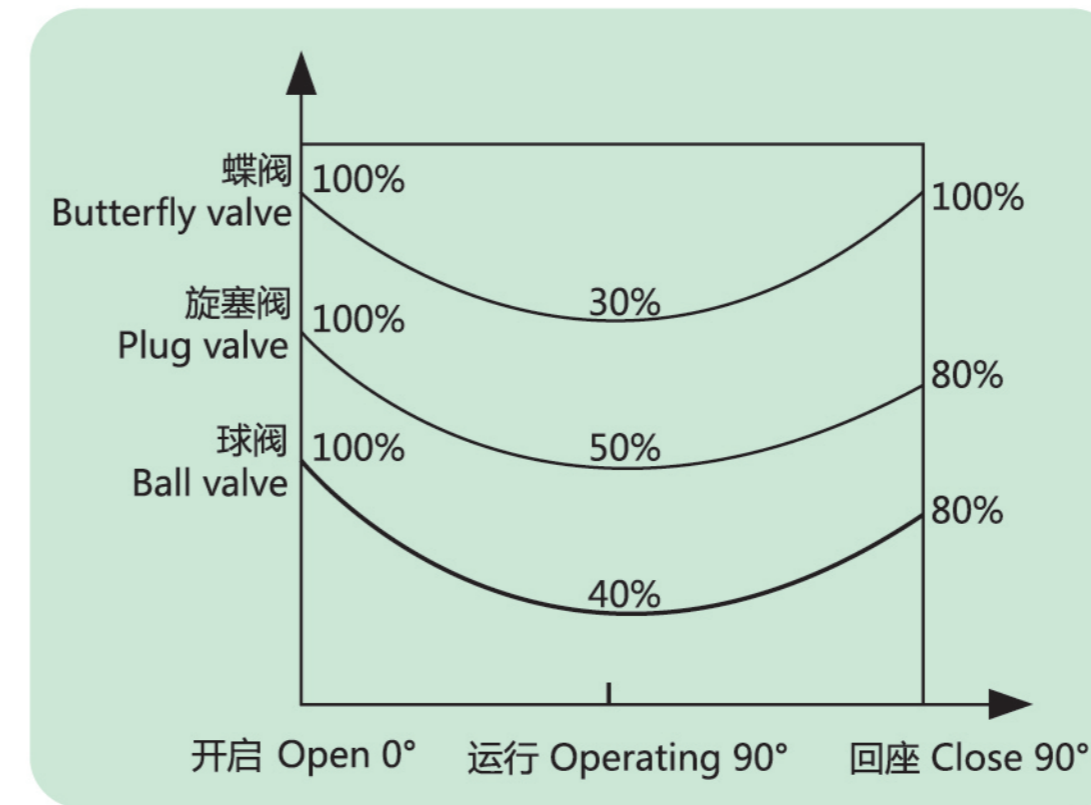
Air stroke 90°=78N.m>32N.m

Spring stroke 90°=173N.m > 32N.m

Spring stroke 0°=115N.m > 104N.m

The above datas show the actuator' s torqu e can satisfy

the requirement of the butterfly valve



例如：

蝶阀原最大扭矩=104N·m

打开后扭矩104×30%=32N·m

气源压力=5Bar

我们可以选择 SR125 K11

空气行程0°=136N·m>104N·m

空气行程90°=78N·m>32N·m

弹簧行程90°=173N·m>32N·m

弹簧行程0°=115N·m>104N·m

以上数据显示可以满足该蝶阀的正常启闭。

注意 确保执行器的输出扭矩和驱动阀门所需要的扭矩相符（执行器的型号和气源压力）。

请注意，选型扭矩不仅取决于阀门，还要考虑相关的工况、安全系数等参数。

Note Make sure that the torque necessary to operate the valve is compatible with the actuator torque (it depends on both actuator type and air supply).

Please note that the requested torque depends not only on the valve,but on the working conditions and the safety margins of the plant in question,too.

### 重量表 Weight Table

型号Model	32	40	52	63	75	83	92	105	125
重量 ( DA )	0.7kg	1kg	1.4kg	2kg	2.7kg	3.5kg	4.7kg	5.7 kg	8.1kg
重量 ( SR )	-	1.1kg	1.5 kg	2.1kg	2.9 kg	4 kg	5.4kg	7.0 kg	10.5kg

型号Model	140	160	190	210	240	270	300	350	400
重量 ( DA )	12.3 kg	20kg	33kg	37.8 kg	56 kg	80kg	100.6 kg	160kg	197.3 kg
重量 ( SR )	16kg	25.4kg	39kg	47.4kg	69.2kg	102.2kg	128.2kg	209.2kg	243kg

注：1、SR为12根弹簧；2、重量为净重量

### 耗气量 Air Consumption

开向体积和关向体积Air Volume Opening&Closing

型号Model	Air volume opening 开向体积 ( 升 )	Air volume closing 关向体积 ( 升 )
32	0.04	0.05
40	0.08	0.11
52	0.12	0.16
63	0.21	0.23
75	0.3	0.34
83	0.43	0.47
92	0.64	0.73
105	0.95	0.88
125	1.6	1.4

型号Model	Air volume opening 开向体积 ( 升 )	Air volume closing 关向体积 ( 升 )
140	2.5	2.2
160	3.7	3.2
190	5.9	5.4
210	7.5	7.5
240	11	9
270	17	14
300	23.8	29.7
350	35.1	46.3
400	52.6	56

耗气量取决于供气压力、开关行程、体积及动作次数，计算如下：

升/分=气缸体积 ( 开向体积+关向体积 ) × [ 供气压力 ( Kpa ) + 101.3 ] / 101.3 × 次数/分钟


Air consumption rest with Air Supply,Air volume and Action cycle times,expressions:


L/Min=Air volume(Air volume Opening+Air volume closing) × [ Air Supply(Kpa)+101.3 ] / 101.3 × Action cycle times/min

气动执行器配件区域 Pneumatic actuator accessories area

给客户提供更加全面选择  
provide customers with a more comprehensive choice

缸体氧化/hard anodized			
标准硬质氧化 standard hard anodized	彩色氧化 colorful hard anodized	本色氧化 natural color hard anodized	拉丝氧化 bursh finished
			

端盖的颜色/Color of end caps

司有许多其他颜色详细请咨询公司/Any other Custom color pls contact with us

指转接套/Adaptor


指示器/indicator		
		

