



执行器色调可定制 Actuator color can be customized

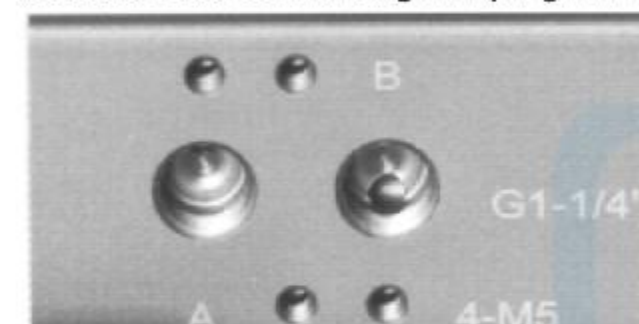
红色/red 蓝色/blue 黑色/black 橙色/Orange 灰色/gray

工作技术条件 Operating conditions:

1. 工作介质: 干燥或润滑的空气或无腐蚀性气体介质中杂质微粒小于30 μ m.
 2. 气源压力: 最小气源压力3bar, 最大气源压力8bar.
 3. 介质环境温度: 标准: -20 $^{\circ}$ C ~ +80 $^{\circ}$ C 低温: -40 $^{\circ}$ C ~ +80 $^{\circ}$ C 高温: -20 $^{\circ}$ C ~ +160 $^{\circ}$ C
 4. 行程调节: 0 $^{\circ}$ 和90 $^{\circ}$ 两个位置 有 $\pm 5^{\circ}$ 的调节范围
 5. 使用场合: 室内或室外安装
1. Operating media: Dry or lubricated air, or the non-corrosive gasses the maximum particle diameter must less than 30 μ m
 2. Air supply pressure: The Min supply pressure is 3 Bar The Max supply pressure is 8 Bar
 3. Operating temperature: Standard: -20 $^{\circ}$ C ~ +80 $^{\circ}$ C Low temperature: -40 $^{\circ}$ C ~ +80 $^{\circ}$ C High temperature: -20 ~ +160 $^{\circ}$ C
 4. Travel adjustment: Have adjustment range of $\pm 5^{\circ}$ for the rotation at 0 $^{\circ}$ and 90 $^{\circ}$
 5. Use occasions: Indoor or outdoor installation

动作形式 Operating type

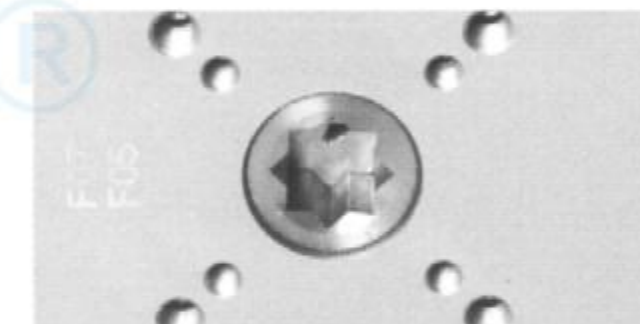
双作用和单作用 Double acting and spring return



气源接口符合NAMUR标准, 可简单方便地安装电磁阀。
Air supply connection is designed in accordance with NAMUR Standard to install solenoid valves.



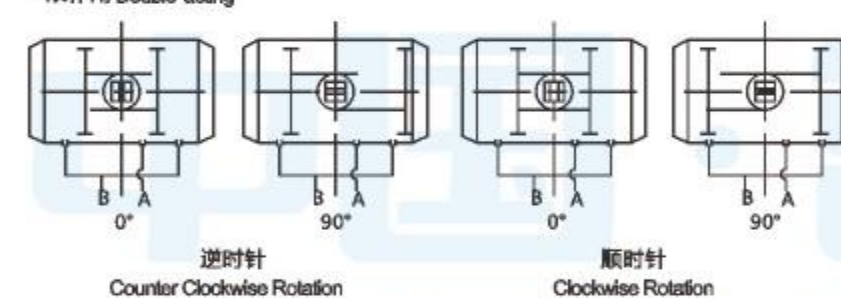
输出轴的NAMUR标准带和缸体上部标准安装孔, 可使限位开关、定位器直接贴合和安装。
The Namur drive pinion and the Namur top mounting connection permit direct installation of accessories such as limit switch box and positioner.



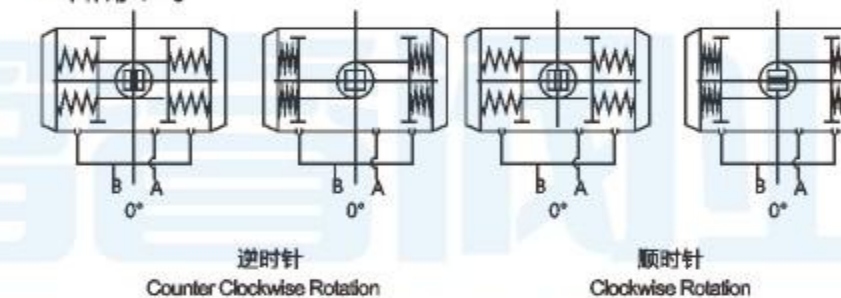
底部安装孔设计符合ISO5211、DIN3337标准, 可以直接安装离合器(气动手轮机构)或安装机架。
Bottom mounting connection is designed in accordance with ISO5211 and DIN3337 standards for direct mounting with valve gear boxes or mounting brackets.

工作原理 Working Principle

• 双作用 Double acting



• 单作用 spring return



单作用执行器弹簧位置
Spring positions of Spring Return Actuators



双作用执行器输出扭矩(单位:Nm) Double Acting Actuator Output Torque(Unit:Nm)

型号 Model	输入气源压力 (单位:巴) Input air supply pressure (unit:Bar)						
	2	3	4	5	6	7	8
AT32D	3.1	4.7	6.2	7.8	9.4	11	12.5
AT52D	8.5	12.7	17	21.2	25.5	29.7	34
AT63D	15	22.5	30	37.5	44.9	52.4	59.7
AT75D	21	31.8	42.4	53	63.6	74.2	84.8
AT83D	32.5	48.7	65	81.2	97.4	113.7	130
AT92D	46.5	69.8	93	116.3	140	162.9	186
AT105D	69.3	104	138.5	173.2	207.8	242.5	277
AT115D	95	129	172	215	258	301	344
AT125D	108	162	216	270	324	378	432
AT140D	184.7	277	369.5	461.8	554	646.5	739
AT160D	281.5	422	563	704	844	985	1126
AT190D	453	680	907	1135	1361	1587	1814
AT210D	554	831	1108	1384	1662	1939	2216
AT240D	814	1221	1628	2035	2442	2849	3256
AT270D	1236	1854	2472	3090	3708	4326	4944

单作用执行器输出扭矩 (单位: Nm) Spring Return Actuator Output Torque(Unit:Nm)

气源克服弹簧输出力矩 Output torque of air to spring														弹簧输出力矩 Output torque spring	
气源气压 Air supply pressure		3Bar		4Bar		5Bar		6Bar		7Bar		8Bar			
型号 Model	弹簧 数量 Spring Qty	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
		开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End
AT52SR	5	8.8	7.3	13.0	11.6									5.4	4.0
	6	8.0	6.3	12.2	10.5	16.5	14.8							6.5	4.7
	7	8.2	5.2	11.5	9.4	15.7	13.7	20.0	17.9					7.6	5.5
	8	6.4	4.1	10.7	8.3	14.9	12.6	19.2	16.8	23.4	21.1			8.6	6.3
	9			9.9	7.3	14.1	11.5	18.4	15.8	22.6	20.0	26.9	24.3	9.7	7.1
	10			9.1	6.2	13.3	10.4	17.6	14.7	21.8	18.9	26.1	23.2	10.8	7.9
	11					12.5	9.4	16.8	13.6	21.0	17.9	25.3	22.1	11.9	8.7
AT63SR	12					11.8	8.3	16.0	12.5	20.3	16.8	24.5	21.0	13.0	9.5
	5	15.7	12.5	23.1	20.0									9.9	6.8
	6	14.3	10.5	21.8	18.0	29.3	25.5							11.9	8.1
	7	13.0	8.5	20.4	16.0	27.9	23.5	35.4	31.0					13.9	9.5
	8	11.6	6.5	19.1	14.0	26.6	21.5	34.0	29.0	41.5	36.5			15.9	10.8
	9			17.7	12.0	25.2	19.5	32.7	27.0	40.2	34.5	47.6	42.0	17.9	12.2
	10			16.4	10.0	23.8	17.5	31.3	25.0	38.8	32.5	46.3	40.0	19.9	13.6
AT75SR	11					22.5	15.5	30.0	23.0	37.5	30.5	44.9	38.0	21.9	14.9
	12					21.1	13.5	28.6	21.0	36.1	28.5	43.6	36.0	23.9	16.3
	5	27.0	21.6	39.3	34.0									15.5	10.2
	6	24.9	18.5	37.3	30.9	49.7	43.3							18.6	12.2
	7	22.9	15.5	35.3	27.8	47.6	40.2	60.0	52.6					21.7	14.2
	8	20.9	12.4	33.2	24.7	45.6	37.1	58.0	49.5	70.4	61.8			24.8	16.2
	9			31.2	21.6	43.6	34.0	56.0	46.4	68.3	58.7	80.7	71.1	27.8	18.3
AT140S	10			29.2	18.5	41.6	30.9	53.9	43.3	66.3	55.7	78.8	68.0	30.9	20.3
	11					39.5	27.8	51.9	40.2	64.3	52.6	76.6	64.9	34.0	22.3
	12					37.5	24.7	49.9	37.1	62.2	49.5	74.6	61.8	37.1	24.4

单作用执行器输出扭矩 (单位: Nm) Spring Return Actuator Output Torque(Unit:Nm)

气源克服弹簧输出力矩 Output torque of air to spring															弹簧输出力矩 Output torque spring	
气源气压 Air supply pressure		3Bar		4Bar		5Bar		6Bar		7Bar		8Bar				
型号 Model	弹簧 数量 Spring Qty	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	
		开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	
AT83S	5	33.8	27.2	50.1	43.4									21.5	14.9	
	6	30.9	22.9	47.1	39.1	63.3	55.3							25.8	17.8	
	7	27.9	18.6	44.1	34.8	60.4	51.0	76.6	67.3					30.1	20.8	
	8	24.9	14.3	41.2	30.5	57.4	46.7	73.6	63.0	89.9	79.2			34.4	23.8	
	9			38.2	26.2	54.4	42.4	70.7	58.7	86.9	74.9	103.1	91.1	38.7	26.7	
	10			35.2	21.9	51.5	38.1	67.7	54.4	83.9	70.6	100.2	86.8	43.0	29.7	
	11					48.5	33.8	64.7	50.1	81.0	66.3	97.2	82.5	47.3	32.7	
	12					45.5	29.5	61.8	45.8	78.0	62.0	94.2	78.2	51.6	35.6	
AT92S	5	48.0	39.5	71.3	62.8									30.3	21.8	
	6	43.7	33.5	66.9	56.7	90.2	80.0							35.6	26.1	
	7	39.3	27.4	62.6	50.7	85.8	73.9	109.1	97.2					42.4	30.5	
	8	34.9	21.4	58.2	44.6	81.5	67.9	104.7	91.2	128.0	114.4			48.4	34.9	
	9			53.8	38.6	77.1	61.8	100.4	85.1	123.6	108.4	146.9	131.6	54.5	39.2	
	10			49.5	32.5	72.8	55.8	96.0	79.0	119.3	102.3	142.6	125.6	60.6	43.6	
	11					68.4	49.7	91.7	73.0	114.9	96.3	138.2	119.5	66.6	47.9	
	12					64.0	43.7	87.3	66.9	110.6	90.2	133.8	113.5	72.7	52.3	
AT105S	5	64.6	57.7	99.2	92.4									46.2	39.3	
	6	56.7	48.5	91.4	83.1	126.0	117.8							55.4	47.2	
	7	48.9	39.3	83.5	73.9	118.2	108.5	152.8	143.2					64.6	55.0	
	8	41.0	30.0	7507.0	64.7	110.3	99.3	144.9	133.9	179.6	168.6			73.9	62.9	
	9			67.8	55.4	102.4	90.1	137.1	124.7	171.7	159.3	206.3	194.0	83.1	70.7	
	10			59.9	46.2	94.6	80.8	129.2	115.5	163.9	150.1	198.5	184.7	92.3	78.6	
	11					86.7	71.6	121.4	106.2	156.0	140.9	190.6	175.5	101.6	86.5	
	12					78.9	62.4	113.5	97.0	148.1	131.6	182.8	166.3	110.8	94.3	
AT115S	5	81.4	51.3	124.4	94.3	167.4	137.3							77.7	47.6	
	6	71.8	35.8	114.8	78.8	157.8	121.8							93.2	57.2	
	7	62.3	20.0	105.3	63.0	148.3	106.0	191.3	149.0					109.0	66.7	
	8			95.8	48.0	138.8	91.0	181.8	134.0	224.8	177.0			124.0	76.2	
	9			86.3	32.0	129.3	75.0	172.3	118.0	215.3	161.0	258.3	204.0	140.0	85.7	
	10					119.7	60.0	162.7	103.0	205.7	146.0	248.7	189.0	155.0	95.3	
	11					110.0	44.0	153.0	87.0	196.0	130.0	239.0	173.0	171.0	105.0	
	12							144.0	72.0	187.0	115.0	230.0	158.0	186.0	114.0	
AT125S	5	131	104	192	166									80	53	
	6	120	88	182	150	243	211							96	64	
	7	110	72	171	134	232	195	294	257					112	74	
	8	99	56	161	118	222	179	283	241	345	302			128	85	
	9			150	102	211	163	273	225	334	286	395	347	144	96	
	10			139	86	201	147	262	209	323	270	385	331	160	106	
	11					190	131	251	193	313	254	374	315	175	117	
	12					179	115	241	177	302	2038	363	299	191	127	
AT140S	5	188	144	280	236									133	89	
	6	170	117	263	209	355	302							160	107	
	7	152	90	245	183	337	275	430	368					187	125	
	8	135	64	227	156	319	249	412	341	504	433			213	142	

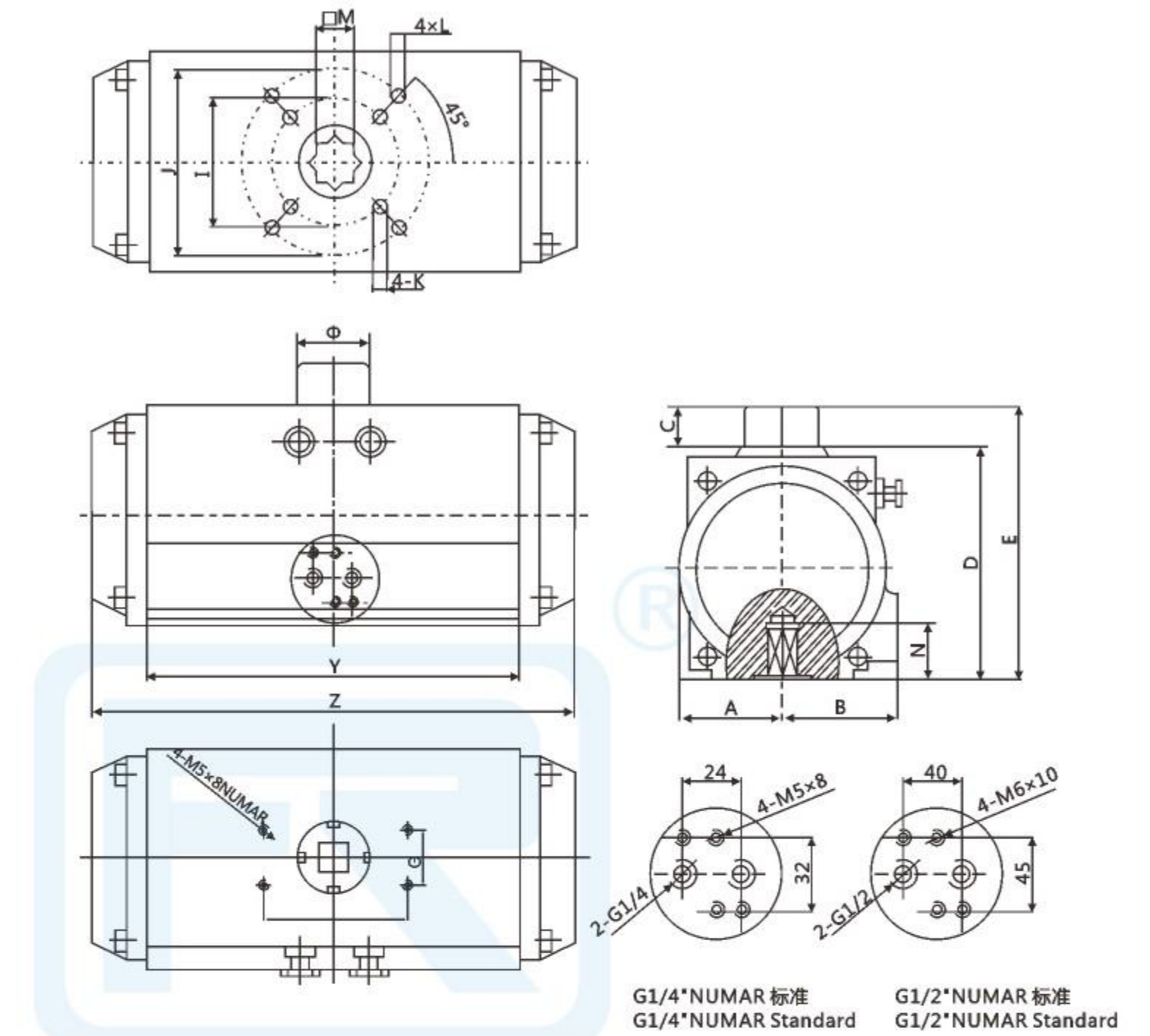
单作用执行器输出扭矩 (单位: N·m) Spring Return Actuator Output Torque(Unit:Nm)

气源克服弹簧输出力矩 Output torque of air to spring														弹簧输出力矩 Output torque spring	
气源气压 Air supply pressure		3Bar		4Bar		5Bar		6Bar		7Bar		8Bar			
型号 Model	弹簧 数量 Spring Qty	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
		开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End	开始 Start	结束 End
AT140S	9			209	129	302	222	394	314	486	407	579	499	240	160
	10			191	103	284	195	376	288	469	380	561	472	267	178
	11					266	169	358	261	451	353	543	446	293	196
	12					248	142	341	234	433	327	525	419	320	214
AT160S	5	286	222	427	362									201	136
	6	259	182	400	322	541	463							241	163
	7	232	141	373	282	513	423	654	564					281	190
	8	205	101	345	242	486	383	627	524	768	664			321	218
	9			318	202	459	343	600	483	741	624	881	765	361	245
	10			291	162	432	303	573	443	713	584	854	725	401	272
	11					405	263	545	403	686	544	827	685	441	299
	12					377	222	518	363	659	504	800	645	481	326
AT190S	5	448	332	675	559									349	232
	6	402	262	629	489	856	716							418	278
	7	356	192	582	419	809	646	1036	873					488	325
	8	309	123	536	350	763	576	990	803	1217	1030			558	371
	9			490	280	717	507	943	733	1170	960	1397	1187	627	418
	10			443	210	670	437	897	664	1124	891	1351	1117	697	464
	11					624	367	851	594	1077	821	1304	1048	767	510
	12					577	297	804	524	1031	751	1258	978	837	557
AT210S	5	638	468	950	780									467	297
	6	579	375	890	687	1202	998							560	356
	7	519	282	831	593	1143	905	1455	1217					654	416
	8	460	188	772	500	1083	812	1395	1123	1707	1435			747	475
	9			712	407	1024	718	1336	1030	1647	1342	1959	1653	840	535
	10			653	313	965	625	1276	937	1588	1248	1900	1560	934	594
	11					905	531	1217	843	1529	1155	1840	1467	1027	653
	12					846	438	1158	750	1469	1062	1781	1373	1121	713
AT240S	5	963	666	1452	1155									799	503
	6	862	506	1351	995	1840	1484							959	603
	7	762	346	1250	835	1739	1324	2228	1812					1119	704
	8	661	187	1150	675	1639	1164	2127	1652	2616	2141			1279	804
	9			1049	515	1538	1004	2027	1492	2525	1981	3004	2470	1439	905
	10			949	355	1437	844	1926	1333	2415	1821	2903	2310	1599	1005
	11					1337	684	1825	1173	2315	1661	2803	2150	1759	1106
	12					1236	524	1725	1013	2213	1501	2702	1990	1919	1207
AT270S	5	1431	1028	2118	1715									1033	630
	6	1305	821	1992	1508	2679	2195							1240	756
	7	1179	615	1866	1302	2553	1989	3240	2676					1446	882
	8	1053	408	1740	1095	2427	1782	3114	2469	3801	3156			1653	1008
	9			1614	889	2301	1576	2988	2263	3675	2950	4363	3637	1860	1134
	10			1488	682	2175	1369	2862	2056	3549	2743	4237	3430	2066	1260
	11					2049	1162	2736	1849	3423	2536	4111	3223	2273	1386
	12					1923	956	2610	1643	3297	2330	3985	3017	2480	1512

AT 型气动执行器

AT Pneumatic actuator

外观尺寸 General Drawing

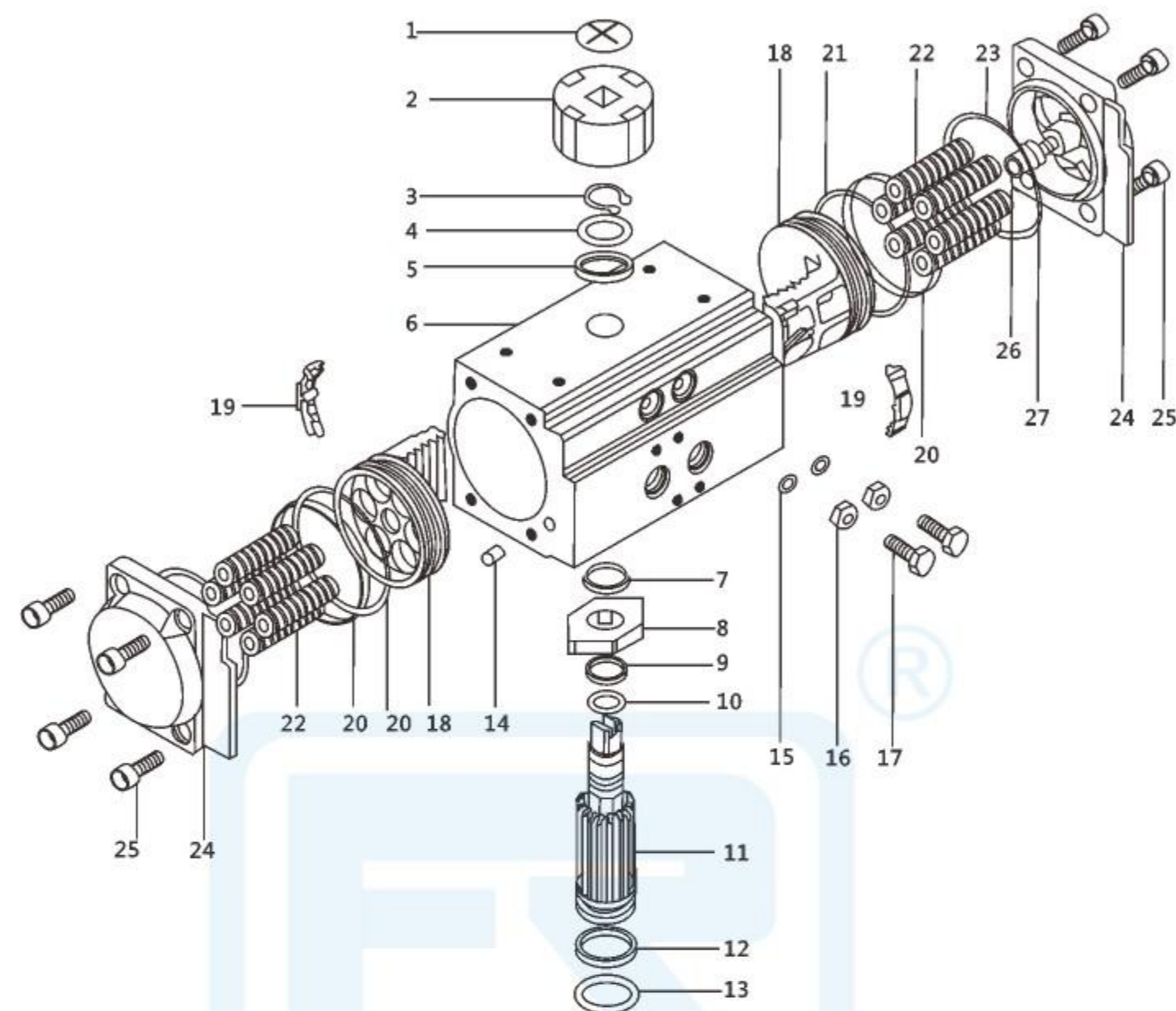


外形连接尺寸 Overview Dimension

型号Model		A	B	C	D	E	G	H	I	J	K	L	M	N	Z	φ	气源接口 Air Supply
At32	DA/SR	22.5	22.5	20	45	70	30	50	-	F03	-	M5×8	9×9	15	110	34	G1/8"
AT40	DA/SR	35	35	20	56	85	30	50	-	F03	-	M5x8	9x9	15	115	34	G1/8"
AT52	DA/SR	30	41	20	72	98	30	80	F03	F05	M5×8	M6×10	11×11	15	150	34	G1/4"
AT63	DA/SR	36	46	20	89	115	30	80	F05	F07	M6×10	M8×12	14×14	15	175	34	G1/4"
AT75	DA/SR	42	52	20	100	127	30	80	F05	F07	M6×10	M8×12	14×14	15	190	34	G1/4"
AT83	DA/SR	46	55	20	109	135	30	80	F05	F07	M6×10	M8×12	14×14	15	215	34	G1/4"
AT92	DA/SR	51	57.5	20	117	143	30	80	F05	F07	M6×10	M8×12	17×17	17	255	41	G1/4"
AT105	DA/SR	58	64	20	134	161	30	80	F07	F10	M8×12	M10×16	22×22	25	278	41	G1/4"
AT115	DA/SR	64.5	74.5	40	145	185	30	80	F07	F10	M8×12	M10×16	22*22	25	310	62	G1/4"
AT125	DA/SR	67.5	70	30	157	195	30	80	F07	F10	M8×12	M10×16	22×22	25	310	41	G1/4"
AT140	DA/SR	76	77	30	174	193	30	130	F10	F12	M10×16	M12×20	27×27	30	310	62	G1/4"
AT160	DA/SR	86.5	87.5	30	199	218	30	130	F10	F12	M10×16	M12×20	27×27	30	400	62	G1/4"
AT190	DA/SR	103	103	30	233	263	30	130	F10	F12	M10×16	M12×20	36×36	34	456	62	G1/4"
AT210	DA/SR	113	113	30	257	287	30	130	-	F12	-	M12×20	36×36	34	525	79	G1/4"
AT240	DA/SR	129	129	30	293	323	30	130	-	F16	-	M20×24	36×36	34	535	79	G1/4"
AT270	DA/SR	146	146	30	333	363	30	130	-	F16	-	M20×24	46×46	52	595	79	G1/4"

AT 型气动执行器

AT Pneumatic actuator

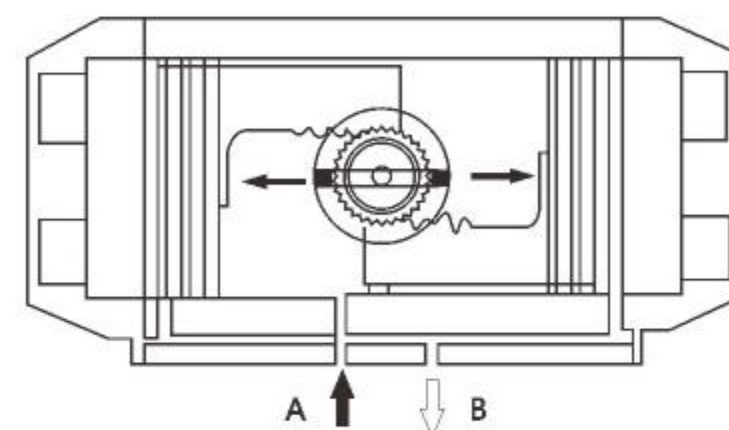


零件和材料 Parts and Materials

序号 No	零件名称 Parts name	数量 Qty	材料 Material	防腐处理 Anti-corrosive	可选材料 Optional materials
1	指示器螺钉 Indicator screw	1	塑料 Plastic		
2	指示器 Indicator	1	塑料 Plastic		
3	卡簧 Spring clip	1	不锈钢 Stainless steel		
4	垫圈 Washer	1	不锈钢 Stainless steel		
5	外垫片 Outer gasket	1	工程塑料 Engineering plastics		
6	缸体 Cylinder body	1	挤压型材 6005 Extruded profile	硬质氧化等 Hard anodizing	
7	内垫片 Inner gasket	1	工程塑料 Engineering plastics		
8	凸轮 Cam	1	合金钢 Alloy steel		氟/硅橡胶 Viton/Silicone rubber
9	上轴 O 形圈 Oring (Pinion top)	1	丁腈橡胶 NBR		
10	上轴轴承 Bearing (Pinion top)	1	工程塑料 Engineering plastics		
11	齿轴 Pinion	1	合金钢 Alloy steel	镀镍 Nickel plating	不锈钢 Stainless steel
12	下轴轴承 Bearing (Pinion bottom)	1	工程塑料 Engineering plastics		
13	下轴 O 形圈 Oring (Pinion bottom)	1	丁腈橡胶 NBR		氟/硅橡胶 Viton/Silicone rubber
14	堵头 Plug	2	丁腈橡胶 NBR		氟/硅橡胶 Viton/Silicone rubber
15	调节螺钉 O 形圈 Adjusting screw Oring	2	丁腈橡胶 NBR		氟/硅橡胶 Viton/Silicone rubber
16	调节螺母 Adjusting screw nut	2	不锈钢 Stainless steel		
17	调节螺栓 Adjusting bolt	2	不锈钢 Stainless steel		
18	活塞 Piston	2	压铸铝/铸钢 Engineering plastics	氧化/镀锌 Oxidation/Zinc plating	不锈钢 Stainless steel
19	活塞导板 Piston guide	2	工程塑料 Engineering plastics		
20	活塞轴承 Piston bearing	2	工程塑料 Engineering plastics		
21	活塞 O 形圈 Piston Oring	2	丁腈橡胶 NBR		氟/硅橡胶/氢化丁腈 Viton/Silicone rubber/HNBR
22	弹簧 Spring	0-12	弹簧钢 Spring steel	浸漆 Dipping paint	
23	端盖 O 形圈 End cover Oring	2	丁腈橡胶 NBR		氟/硅橡胶/氢化丁腈 Viton/Silicone rubber/HNBR
24	端盖 End cover	2	压铸铝 Cast aluminum	粉末喷涂 Powder coating	
25	端盖螺栓 End cover bolt	8	不锈钢 Stainless steel		
26	限位螺栓 Limit bolt	2	不锈钢 Stainless steel		
27	限位螺母 Limit nut	2	不锈钢 Stainless steel		

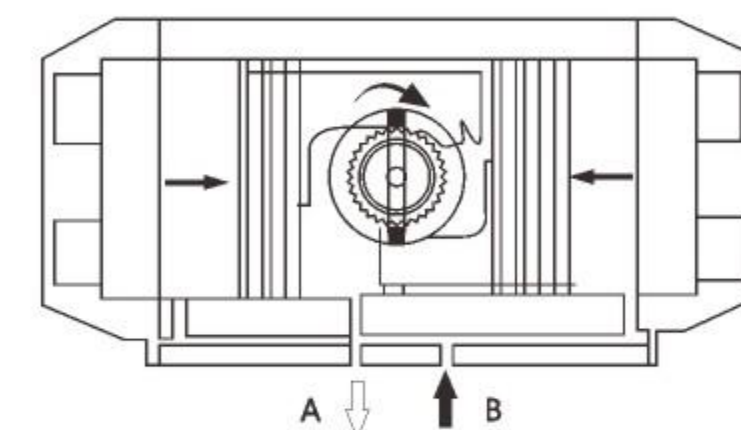
双作用式 (俯视图)

Double acting (top view)



压缩空气由 A 口输入，使左右活塞向相反方向运动，输出轴逆时针方向转动，打开阀门，两活塞侧面空气由 B 口排除。

Compressed air is input from port A to make the left and right pistons move in opposite directions, The output shaft rotates counterclockwise to open the valve and air on the sides of the two pistons Excluded by port B.

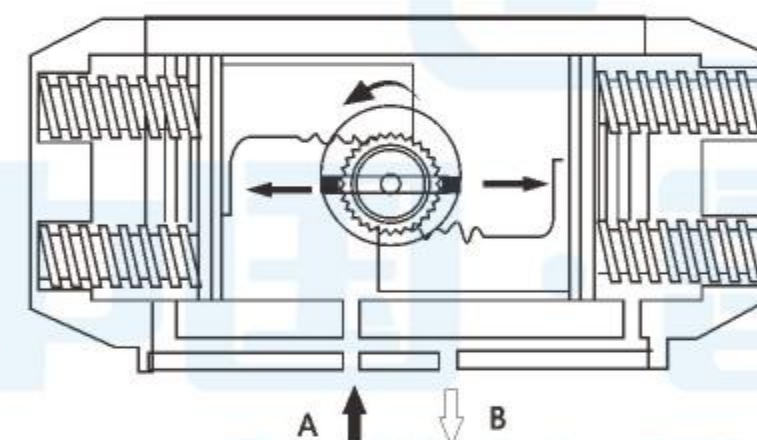


压缩空气由 B 口输入，使左右活塞向相反方向运动，输出轴顺时针方向转动，关闭阀门，两活塞侧面空气由 A 口排除。

Compressed air is input from port B to make the left and right pistons move in opposite directions, The output shaft rotates clockwise to close the valve and the sides of the two pistons are empty. Gas is removed from port A.

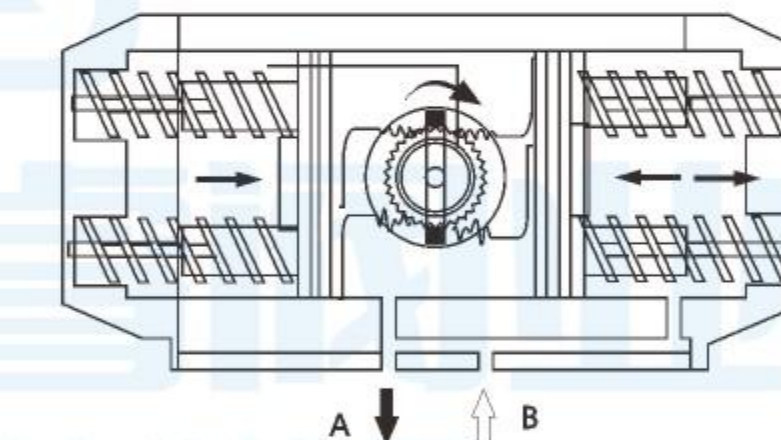
单作用式 (俯视图)

Single acting (top view)



压缩空气由 A 口输入，使左右活塞向相反方向运动，输出轴逆时针方向转动，打开阀门，两活塞侧面空气由 B 口排除。

Compressed air is input from port A to make the left and right pistons move in opposite directions, The output shaft rotates counterclockwise to open the valve and air on the sides of the two pistons Excluded by port B.



失气或失电时，由于弹簧的作用使两活塞中心移动，输出顺时针方向，关闭阀门，空气由 A 口排除，B 口进气可加速关闭阀门。

When losing air or power, the center of the two pistons moves due to the action of the spring, and the output clockwise, close the valve, the air will be discharged from port A, and the intake of port B can accelerate Close the valve.

备注：

- 1、标准运作的旋转方向为顺时针关闭阀门，逆时针为打开阀门。
- 2、颠倒活塞装配的旋转方向为逆时针关闭阀门，顺时针为打开阀门。

Remarks:

1. The rotation direction of standard operation is to close the valve clockwise and counterclockwise To open the valve.
2. Reverse the rotation direction of the piston assembly to close the valve counterclockwise, The hour hand opens the valve.

故障与对策

Failure and Countermeasure

故障现象 Fault Phenomenon	检查项目 Check Item	对策 Countermeasure
气动阀门不能动作 Pneumatic valve does not act	1、电磁阀是否正常，线圈是否烧坏，电磁阀芯是否被脏物卡死。 Does the solenoid work normally? Is the circuit burned? Is the mandrel of the solenoid blocked by impurity?	更换电磁阀、更换线圈、清除脏物。 Replace the solenoid coil or remove the impurity
	2、对气动执行器单独供气试验，检查密封圈及气缸是否损坏。 With air supplying the pneumatic actuator, are the o-rings or the cylinder broken?	更换已坏密封圈及气缸。 Replace the broken O-rings and cylinder body
	3、阀内有杂质将阀芯卡住。 Is impurity blocking the valve?	清除杂质，更换已损件。 Clean out the impurity, replace the broken parts
	4、手动机构的手柄处在手动位置。 Is the handle of the manual equipment at the manual state?	将手柄转到气动位置。 Put the handle to the pneumatic state
动作迟缓、爬行 Acting slowly	1、气源压力不够。 Is the air supply pressure sufficient?	增加气源压力(0.4-0.7Mpa) Improve the air pressure (0.4-0.7Mpa)
	2、气动执行器输出扭矩过小。 Is the output torque of pneumatic actuator not enough?	增大气动执行器的型号规格。 Select a bigger model of the pneumatic actuator
	3、阀门阀芯或其他阀件装配太紧。 Is impurity blocking the valve?	重新装配调整。 Reassemble and adjust the valve
	4、气源管路堵塞，流量过小。 Is the air supply pipe blocked making the air flux too small?	排除堵塞，更换过滤器滤芯。 Clean out the block, replace the filter stem
回信器无信号 The feedback has no signal	1、电源线路短路或断路。 Is the power shorted out or stopped?	检修电源线路。 Check the circuitry
	2、回信器内凸轮位置不准确。 Is the cam of the feedback in the incorrect position?	调整凸轮至正确位置 Adjust the cam to the correct position
	3、微动开关损坏。 Is the limit switch broken?	更换微动开关 Replace the limit switch



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