

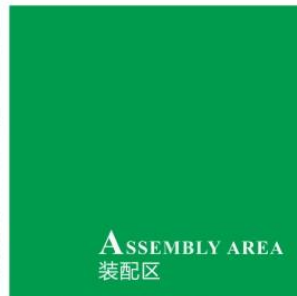
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气动执行器及阀门系列
PNEUMATIC ACTUATORS AND VALVE SERIES
专业生产 品质保证
Professional production, quality assurance



铸造辉煌，唯有品质
Casting brilliant, only has the quality





MANUFACTURING EQUIPMENT

制造装备

以雄厚的技术力量、精良的设备、完善的工艺不断为顾客提供优质产品。
To The Abundant Technical Force,Excellent Equipment,Perfect Technology To Provide Customers With Quality Products Constantly.



工作技术条件

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30μm.
2. 气源压力:
3bar~8bar.
3. 介质环境温度:
标准: -20°C ~ +80°C
低温: -40°C ~ +80°C
高温: -20°C ~ +160°C
4. 行程调节:
0°和90°两个位置
有±5°的调节范围
5. 使用场合: 室内或室外安装

动作形式 Operating type:

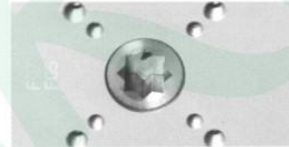
双作用和单作用 Double acting and spring return



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标准槽和缸体上部标准安装孔, 可使限位开关、定位器直接啮合和安装。
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, 可以直接安装分离合器(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.

Operating conditions:

1. Operating media:
Dry or lubricated air, or the non-corrosive gasses the maximum particle diameter must less than 30μm
2. Air supply pressure:
3bar~8bar
3. Operating temperature:
Standard: -20°C ~ +80°C
Low temperature: -40°C ~ +80°C
High temperature: -20°C ~ +160°C
4. Travel adjustment:
Have adjustment range of ±5° for the rotation at 0° and 90°
5. Use occasions: Indoor or outdoor installation

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

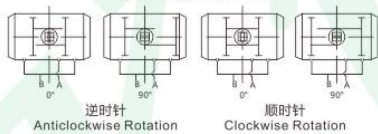
型号 Model	输入气源压力（单位：巴） Input air supply pressure (unit:Bar)						
	2	3	4	5	6	7	8
JAT32D	3.1	4.7	6.2	7.8	9.4	11	12.5
JAT52D	8.5	12.7	17	21.2	25.5	29.7	34
JAT63D	15	22.5	30	37.5	44.9	52.4	59.7
JAT75D	21	31.8	42.4	53	63.6	74.2	84.8
JAT83D	32.5	48.7	65	81.2	97.4	113.7	130
JAT92D	46.5	69.8	93	116.3	140	162.9	186
JAT105D	69.3	104	138.5	173.2	207.8	242.5	277
JAT115D	95	129	172	215	258	301	344
JAT125D	108	162	216	270	324	378	432
JAT140D	184.7	277	369.5	461.8	554	646.5	739
JAT160D	281.5	422	563	704	844	985	1126
JAT190D	453	680	907	1135	1361	1587	1814
JAT210D	554	831	1108	1384	1662	1939	2216
JAT240D	814	1221	1628	2035	2442	2849	3256
JAT270D	1236	1854	2472	3090	3708	4326	4944
JAT300D	1908	2286	3052	3815	4578	5341	6104
JAT350D	2856	3427	4570	5712	6854	7997	9139
JAT400D	4069	4883	6511	8139	9767	11394	13022

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
JAT52SR	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
	12					11.8	8.3	16.0	12.5	20.3	16.8	24.5	21.0	13.0	9.5
JAT63SR	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
	11					22.5	15.5	30.0	23.0	37.5	30.5	44.9	38.0	21.9	14.9
JAT75SR	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
	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

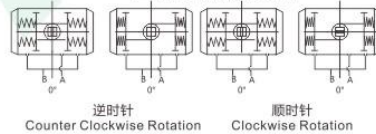
工作原理 Working Principle

双作用 Double acting



逆时针 Anticlockwise Rotation
顺时针 Clockwise Rotation

单作用 spring return



逆时针 Counter Clockwise Rotation
顺时针 Clockwise Rotation

单作用执行器弹簧位置

Spring positions of Spring Return Actuators



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° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	
JAT83S	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	
JAT92S	12					45.5	29.5	61.8	45.8	78.0	62.0	94.2	78.2	51.6	35.6	
	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	
JAT105S	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	
	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	
JAT115S	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	
	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	
JAT125S	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	
	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	
JAT140S	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	
	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: 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° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End
JAT140S	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
JAT160S	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
JAT190S	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
JAT210S	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
JAT240S	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
JAT270S	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	2278	1512

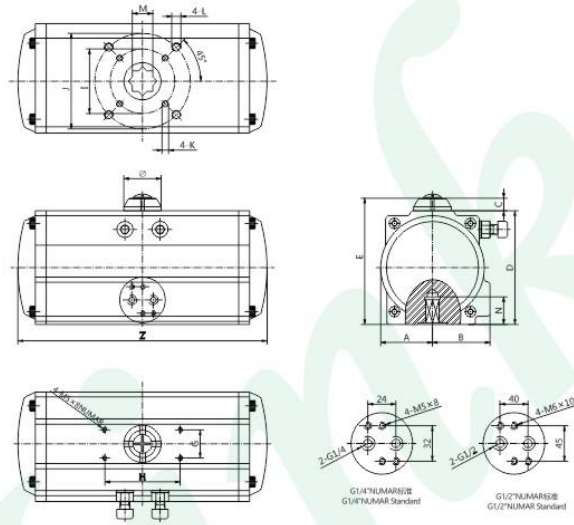
单作用执行器输出扭矩 (单位: Nm) Spring Return Actuator Output Torque(Unit:Nm)

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		2.5Bar		3Bar		3.5Bar		4Bar		4.5Bar			
型号 Model	弹簧 数量 Spring Qty	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End
JAT300S	S05	1097	729									1061	730
	S06	935	494	1316	875	1697	1274					1273	876
	S07	772	258	1153	639	1535	1038	1916	1402			1485	1022
	S08			991	403	1373	802	1754	1166	2138	1546	1697	1168
	S09							1592	930	1976	1310	1909	1314
	S10							1430	695	1814	1074	2122	1460
	S11									1652	838	2334	1606
	S12											2546	1752
JAT350S	S05	1553	964									1702	1173
	S06	1292	586	1863	1157	2432	1738					2043	1408
	S07	1031	208	1602	779	2171	1360	2745	1922			2383	1642
	S08			1341	401	1910	980	2484	1544	3053	2117	2724	1877
	S09							2224	1165	2792	1739	3064	2112
	S10							1963	787	2531	1361	3405	2346
	S11									2270	983	3745	2581
	S12											40856	2816
JAT400S	S07	2028	869									2880	1837
	S08	1736	411	2550	1125	3369	2841					3292	2100
	S09			2259	768	3078	2484	3887	2396			3703	2362
	S10			1967	311	2787	2127	3595	1939	4415	3755	4115	2624
	S11							3303	1482	4124	3398	4526	2887
	S12							3012	1025	3833	3041	4938	3149
	S13											5349	3412
	S14											5761	3674
	S15											6172	3937
	S16											6584	4199

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		5Bar		5.5Bar		6Bar		7Bar		8Bar			
型号 Model	弹簧 数量 Spring Qty	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End
JAT300S	S05											1061	730
	S06											1273	876
	S07											1485	1022
	S08	2517	1929	3739	2073	3118	2456					1697	1168
	S09	2355	1693	2577	1837	2956	2221	3719	2984	4482	3747	1909	1314
	S10	2193	1458	2415	1601	2793	1985	3556	2748	431	3511	2122	1460
	S11	2030	1222	2253	1365	2631	1749	3394	2514	4157	3275	2334	1606
	S12	1868	986									2546	1752
JAT350S	S05											1702	1173
	S06											2043	1408
	S07											2383	1642
	S08	3626	2686	3934	2881	4508	3449					2724	1877
	S09	3366	2307	3673	2503	4247	3071	5390	4212	6532	5356	3064	2112
	S10	3105	1929	3412	2125	3986	2693	5129	3836	6271	4978	3405	2346
	S11	2844	1551	3151	1747	3726	2314	4869	3457	6011	4599	3745	2581
	S12	2584	1172									40856	2816
JAT400S	S07											2880	1837
	S08											3292	2100
	S09											3703	2362
	S10	5223	3567	5752	5026	6559	4738					4115	2624
	S11	4931	3110	5461	4669	6268	4281	7895	5908	9523	7536	4526	2887
	S12	4640	2653	5170	4312	5976	3823	7603	5450	9231	7078	4938	3149
	S13	4348	2195	4879	3955	5685	3366	7312	4993	8940	6621	5349	3412
	S14	4057	1738	4588	3598	5393	2909	7020	4536	9648	6164	5761	3674
	S15	3765	1281	4297	3241	5101	2452	6728	4079	8356	5707	6172	3937
	S16											6584	4199

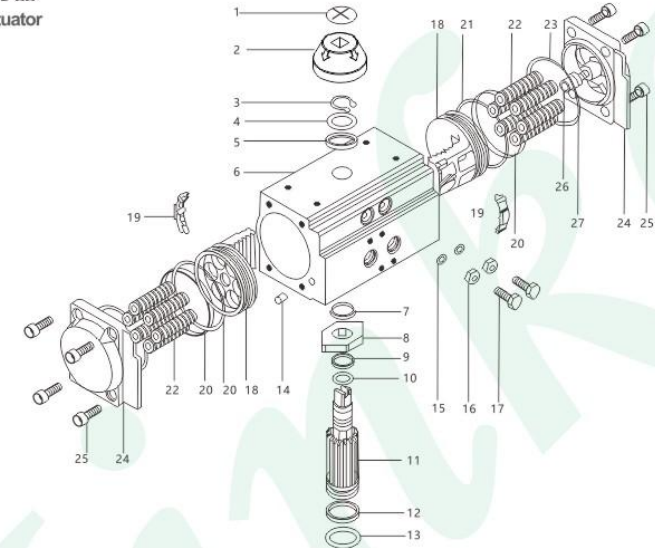
JAT型气动执行器 JAT Pneumatic actuator



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	
JAT-32	DA/SR	22.5	22.5	20	45	65	25	50	-	F03	-	M5×8	9×9	11	110	34	G1/8"
JAT-40	DA/SR	24	34.5	20	60	80	30	50	F03	F05	M5×8	M6×10	9×9	11	126	34	G1/8"
JAT-52	DA/SR	30.5	41.5	20	73	93	30	80	F03	F05	M5×10	M6×10	11×11	15	145	34	G1/4"
JAT-63	DA/SR	36.5	47	20	88.5	108.5	30	80	F05	F07	M6×10	M8×12	14×14	18	169	34	G1/4"
JAT-75	DA/SR	42.5	53	20	100.5	120.5	30	80	F05	F07	M6×10	M8×12	14×14	18	201	34	G1/4"
JAT-83	DA/SR	46.5	57	20	110	130	30	80	F05	F07	M6×10	M8×12	17×17	22	209	34	G1/4"
JAT-92	DA/SR	51	57.5	20	118	138	30	80	F05	F07	M6×10	M8×12	17×17	22	242	41	G1/4"
JAT-105	DA/SR	58	64	20	134	154	30	80	F07	F10	M8×12	M10×16	22×22	25	275	41	G1/4"
JAT-115	DA/SR	64.5	74.5	40	145	185	30	80	F07	F10	M8×12	M10×16	22×22	25	316	62	G1/4"
JAT-125	DA/SR	67.5	70	30	157	187	30	80	F07	F10	M8×16	M10×16	22×22	25	332	41	G1/4"
JAT-140	DA/SR	76	77	30	174	204	30	130	F10	F12	M10×16	M12×20	27×27	30	385	62	G1/4"
JAT-160	DA/SR	86.5	87.5	30	199	229	30	130	F10	F12	M10×16	M12×20	27×27	30	450	62	G1/4"
JAT-190	DA/SR	103	103	30	233	263	30	130	F10	F12	-	M12×20	36×36	34	507	62	G1/4"
JAT-210	DA/SR	113	113	30	257	287	30	130	-	F12	-	M12×20	36×36	34	562	79	G1/4"
JAT-240	DA/SR	129	129	30	293	323	30	130	-	F16	-	M20×24	36×36	34	646	79	G1/4"
JAT-270	DA/SR	146	146	30	333	363	30	130	-	F16	-	M20×24	46×46	52	722	79	G1/4"
JAT-300	DA/SR	162	174	30	350	380	30	130	-	F16	-	M20×25	46×46	50	760	80	G1/2"
JAT-350	DA/SR	190	195	30	410	440	30	130	F16	F22	-	8" M16×25	46×46	50	920	80	G1/2"
JAT-400	DA/SR	260	260	30	466	496	30	130	F16	F22	-	8" M16×25	46×46	50	940	80	G1/2"

JAT型气动执行器 JAT 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 O-ring (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 O-ring (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 O-ring	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 O-ring	2	丁腈橡胶 NBR		氟/硅橡胶/氧化丁腈 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 O-ring	2	丁腈橡胶 NBR		氟/硅橡胶/氧化丁腈 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		



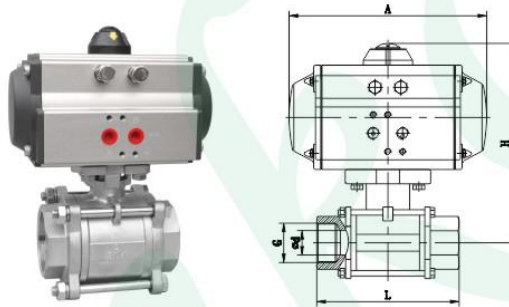
三片式气动螺纹球阀

3PC pneumatic threaded ball valve

Q611F-16P/R

- 公称直径: DN15-DN100
- 压力范围: ≤1000 PSI(6.9 MPa)
- 介质温度: -20°C~+180°C
- 环境温度: -20°C~+60°C
- 阀体材质: 不锈钢
- 密封: 聚四氟乙烯
- 执行机构: 铝合金
- 控制压力: 3bar-8bar
- 控制功能: 双作用、单作用
- 标准: Rp(BSP); Rc(BSPT); NPT
- 适用介质: 水、气、油、酸、碱等

- Nominal diameter: DN15-DN100
- Pressure range: ≤1000PSI(6.9Mpa)
- Medium Temp: -20°C~+180°C
- Environment Temp: -20°C~+60°C
- Body material: Stainless steel
- Sealing: PTFE
- Body of actuator: Aluminium alloy
- Control pressure: 3bar-8bar
- Control feature: Double acting, Single acting
- Standard: Rp(BSP); Rc(BSPT); NPT
- Applicable medium: water, gas, oil, acid, alkali, etc



外形连接尺寸 Overview Dimension

规格Size(G)	d	L	A	H	执行器Actuator
1/2"	15	75	153	131	JAT-052
3/4"	20	80	153	135	JAT-052
1"	25	90	153	145	JAT-052
1 1/4"	32	110	173	165.5	JAT-063
1 1/2"	38	120	173	178.5	JAT-063
2"	50	140	187	197.5	JAT-075
2 1/2"	65	185	216	225	JAT-083
3"	78	205	275	261	JAT-105
4"	98	240	316	316	JAT-115

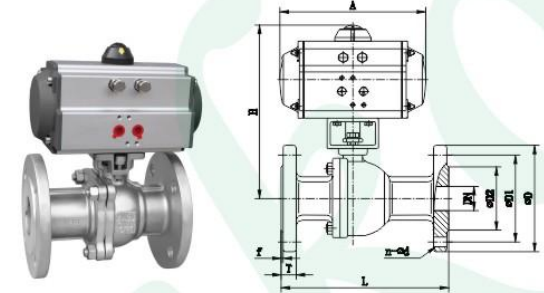
二片式气动法兰球阀

2PC pneumatic flanged ball valve

Q641F-16P/R

- 公称直径: DN15-DN200
- 压力范围: 1.6Mpa-6.4Mpa
- 介质温度: -20°C~+180°C
- 环境温度: -20°C~+60°C
- 阀体材料: 不锈钢、铸钢
- 密封: 聚四氟乙烯
- 执行机构: 铝合金
- 控制压力: 3bar-8bar
- 控制功能: 双作用、单作用
- 标准: GB, ANSI, DIN, JIS
- 适用介质: 水、气、油、酸、碱等
- 法兰标准: JB, GB, ISO, HG, ASME, JIS等

- Nominal diameter: DN15-DN200
- Pressure range: 1.6Mpa-6.4Mpa
- Medium Temp: -20°C~+180°C
- Environment Temp: -20°C~+60°C
- Body material: Stainless steel, Cast steel
- Sealing: PTFE
- Body of actuator: Aluminium alloy
- Control pressure: 3bar-8bar
- Control feature: Double acting, Single acting
- Standard: GB, ANSI, DIN, JIS
- Applicable medium: water, gas, oil, acid, alkali, etc
- Flange standards: JB, GB, ISO, HG, ASME, JIS, etc.



外形连接尺寸 Overview Dimension

DN	L	T	f	D	D1	D2	H	A	n-Φd	执行器Actuator
DN15	130	14	2	95	65	45	144	153	4-Φ14	JAT-052
DN20	140	14	2	105	75	55	150	153	4-Φ14	JAT-052
DN25	150	14	2	115	85	65	168.5	173	4-Φ14	JAT-063
DN32	165	16	2	135	100	78	177.5	173	4Φ18	JAT-063
DN40	180	16	3	145	110	85	202.5	187	4-Φ18	JAT-075
DN50	200	16	3	160	125	100	210	216	4-Φ18	JAT-083
DN65	220	18	3	180	145	120	283	275	4-Φ18	JAT-105
DN80	250	20	3	195	160	135	336	316	8-Φ18	JAT-115
DN100	280	20	3	215	180	155	352	332	8-Φ18	JAT-125

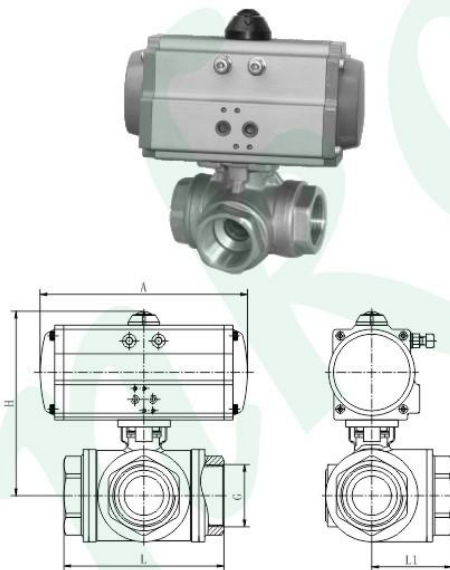
NPS	L	T	f	D	D1	D2	H	A	n-Φd	执行器Actuator
1/2"	108	9.6	1.6	90	60.3	35	188.5	173	4-Φ15	JAT-063
3/4"	117	10.5	1.6	100	69.9	43	203.5	187	4-Φ15	JAT-075
1"	127	11.2	1.6	110	79.4	51	213.5	187	4-Φ15	JAT-075
1-1/4"	140	12.8	1.6	115	88.9	64	235	216	4Φ15	JAT-083
1-1/2"	165	14.3	1.6	125	98.4	73	277	275	4-Φ15	JAT-105
2"	178	15.9	1.6	150	120.7	92	330	316	4-Φ19	JAT-115
2-1/2"	190	17.5	1.6	180	139.7	105	355	332	4-Φ19	JAT-125
3"	203	19.1	1.6	190	152.4	127	391	385	4-Φ19	JAT-140
4"	229	23.9	1.6	230	190.5	157	434	450	4-Φ19	JAT-160
5"	256	23.9	1.6	280	215.9	186	531	507	8-Φ22	JAT-190
6"	394	25.4	1.6	345	241.3	216	602	646	8-Φ22	JAT-240
8"	457	28.6	1.6	405	298.5	270	641	722	8-Φ22	JAT-270

三通气动螺纹球阀

3-Way Pneumatic thread ball valve

Q614 (5) F-16P/R

- 公称直径: DN15-DN50
- 压力范围: ≤ 1000 psi (6.9 mpa)
- 介质温度: $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$
- 环境温度: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- 阀体材料: 不锈钢、铸钢
- 密封: 聚四氟乙烯
- 执行机构: 铝合金
- 控制压力: 3-8bar
- 控制功能: 双作用、单作用
- 标准: L型, T型
- 标准: Rp(BSP); Rc(BSPT); NPT
- 适用介质: 水、气、油、酸、碱等
- Nominal diameter: DN15-DN50
- Pressure range: ≤ 1000 PSI (6.9Mpa)
- Medium Temp: $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$
- Environment Temp: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Body material: Stainless steel, Cast steel
- Sealing: PTFE
- Body of actuator: Aluminium alloy
- Control pressure: 3-8bar
- Control feature: Double acting, Single acting
- Standard: L-type, T-type
- Standard: Rp(BSP); Rc(BSPT); NPT
- Applicable medium: water, gas, oil, acid, alkali, etc



外形连接尺寸 Overview Dimension

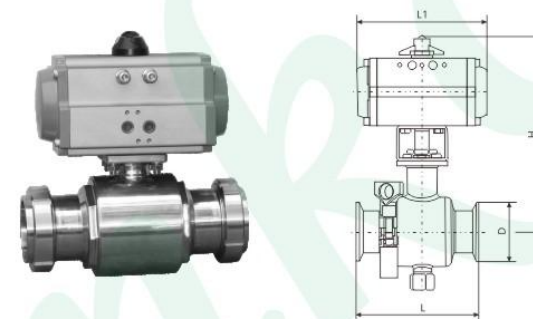
通径DN		外形连接尺寸 Overview Dimension			
mm	英寸(G)	L	L1	H	A
10	3/8"	60	30	57	110
15	1/2"	72	36	68	110
20	3/4"	85	42	70	110
25	1"	91	46	80	140
32	1 1/4"	110	55	85	140
40	1 1/2"	122	61	100	180
50	2"	145	72	110	180

气动卫生级球阀

Sanitary pneumatic ball valve

Q681F-10P/R

- 公称直径: 1/2"~4"
- 压力范围: 0 - 1.0 MPa
- 介质温度: $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$
- 环境温度: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- 阀体材质: 不锈钢
- 密封: 聚四氟乙烯
- 执行机构: 铝合金
- 控制压力: 3bar-8bar
- 控制功能: 双作用、单作用
- 标准: DIN, ISO, SMS, 3A, IDF
- 适用介质: 水、气、油、酸、碱等
- Nominal diameter: 1/2"~4"
- Pressure range: 0-1.0Mpa
- Medium Temp: $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$
- Environment Temp: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Body material: Stainless steel
- Sealing: PTFE
- Body of actuator: Aluminium alloy
- Control pressure: 3bar-8bar
- Control feature: Double acting, Single acting
- Standard: DIN, ISO, SMS, 3A, IDF
- Applicable medium: water, gas, oil, acid, alkali, etc



外形连接尺寸 Overview Dimension

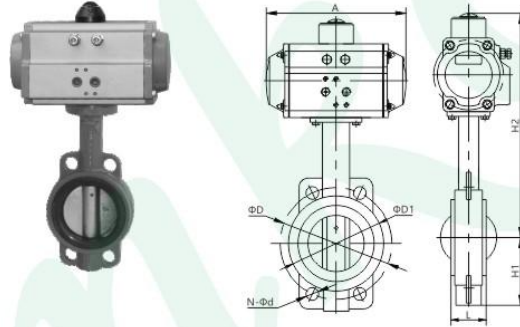
公称通径(NPS)	外形连接尺寸 Overview Dimension				执行器型号 Actuator Model
	D	L	L1	H	
1/2"	34/50.5	101	141/159	172	JATD52/JATS63
3/4"	34/50.5	117	141/159	190	JATD52/JATS63
1"	50.5	125	159/211	199	JATD63/JATS75
1 1/4"	50.5	140	159/211	212	JATD63/JATS75
1 1/2"	50.5	155	211/248	226	JATD75/JATS92
2"	64	165	248/269	257	JATD83/JATS105
2 1/2"	91	170	248/269	279	JATD92/JATS105
3"	106	176	269/315	321	JATD105/JATS125
4"	119	220	315/409	355	JATD125/JATS140

备注: 根据不同的阀门扭矩, 不同的气源压力及不同的实际工况, 选择相匹配的执行器其相关外形尺寸也随之变化
Note: Depending on the valve torque, different air pressure and different physical conditions, choose to match its associated actuator dimensions also changes

气动对夹蝶阀 Pneumatic wafer butterfly valve

D671X-16C

- 公称直径: DN40-DN300
- 压力范围: 0-1.0MPa
- 工作温度: -20°C~+160°C
- 阀体: 灰色铸铁, 球墨铸铁, 铸钢, 不锈钢
- 阀座: 球墨铸铁, 铸钢, 不锈钢, 合金
- 特点: 双向密封零泄漏, 无销钉结构
- 介质: 饮用水、污水、高纯度水、海水、空气
- 密封: NBR, EPDM, FPM, 聚四氟乙烯
- 控制压力: 3bar-8bar
- Nominal diameter: DN40-DN300
- Pressure range: 0-1.0MPa
- Working Temp: -20°C~+160°C
- Body: gray cast-iron, ductile cast iron, Cast steel, Stainless steel
- Disc: ductile cast iron, Cast steel, Stainless steel, nickel alloy
- Features: Two-way seal zero leakage, no pin structure
- Medium: drinking water, sewage, high purity water, seawater, air
- Sealing: NBR, EPDM, FPM, PTFE
- Control pressure: 3bar-8bar



气动执行器主要技术参数 Pneumatic Actuator Main Technical Parameters

型号Model	JAT系列、AT系列、AW系列
气源压力Air pressure	0.3MPa~0.8MPa
旋转角度Angle of rotary	0°~90°
限位器Limit switch	APL-210, APL-310, APL-410, APL-510
控制信号Control signal	电信号Electric signal: 0~10mA 4mA~20mA 气信号Gas signal: 0.02MPa~0.1MPa
控制气源Control air supply	洁净、干燥压缩空气Clean, dry compressed air
工作温度Working temperature	-20°C~+80°C

外形连接尺寸 Overview Dimension

DN	L	H1	H2	A	D	D1	N-φd	执行器型号 Actuator Model
50	42	80	276	163	120	118	4-18	AT063
65	44.7	89	290	163	136.2	137	4-18	AT063
80	45.2	95	296	163	160	143	8-18	AT063
100	52	114	332	214	185	156	8-18	AT075
125	54.4	127	358	252	215	190	8-18	AT088
150	55.8	139	383	270	238	212	8-22	AT100
200	60.6	175	457	354	295	268	12-22	AT125
250	65.6	203	510	418	357	325	12-26	AT145
300	76.9	242	577	450	407	403	12-26	AT160

单位 (mm)

卫生级气动蝶阀 Sanitary pneumatic butterfly valve

D681X-10P/R

- 公称直径: DN15 - DN100
- 压力范围: 0-10bar
- 工作温度: -20°C~+120°C
- CSM密封: 三元乙丙橡胶、硅橡胶
- 阀体: SS304, SS316L
- 阀座: SS304, SS316L
- 特点: 双向密封零泄漏, 蝶板外圆球形设计, 无销钉结构
- 介质: 饮用水、高纯度水、海水、空气
- 控制压力: 3bar-8bar
- 连接标准: 3A, DIN, ISO, SMS
- Nominal diameter: DN15-DN100
- Pressure range: 0-10bar
- Working Temp: -20°C~+120°C
- Sealing: EPDM, CSM, Silicon rubber
- Body: SS304, SS316L
- Disc: SS304, SS316L
- Feature: Two-way sealing with zero leakage, outer spherical design of butterfly plate, no pin structure
- Medium: drinking water, high purity water, seawater, air
- Control pressure: 3bar-8bar
- Connection standard: 3A, DIN, ISO, SMS



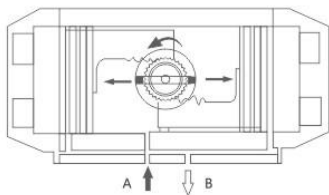
外形连接尺寸 Overview Dimension

公称 口径 (DN)	外螺纹连接尺寸 External thread connection dimensions			三片式连接尺寸 3PC connection dimensions			卡箍连接尺寸 Tri-clamp connection dimensions			对焊连接尺寸 Welded connection dimensions			L0	H	执行器型号 Actuator Model
	L1	D	M	L2	D	d	L3	D	d	L4	D	d			
15	66	78	RD34X1/8	100	78	19.05	66	78	50.5	66	78	19.05	141/141	157/557	JATD52/JATS52
20	66	78	RD44X1/6	100	78	25.4	66	78	50.5	66	78	25.4	141/141	157/557	JATD52/JATS52
25	66	78	RD52X1/6	100	78	31.8	66	78	50.5	66	78	31.8	141/141	157/557	JATD52/JATS52
32	70	86	RD58X1/6	100	86	38.1	70	86	50.5	70	86	38.1	141/141	157/557	JATD52/JATS52
40	76	102	RD65X1/6	104	102	50.8	76	102	50.5	76	102	50.8	141/141	171/180	JATD52/JATS63
50	80	115	RD78X1/6	112	115	63.5	80	115	64	80	115	63.5	141/141	169/169	JATD63/JATS63
65	84	128	RD95X1/6	112	128	76.1	84	128	91	84	128	76.1	159/211	194/208	JATD63/JATS75
80	90	139	RD110X1/4	120	139	88.9	90	139	106	90	139	88.9	159/248	200/224	JATD63/JATS83
100	104	159	RD130X1/4	128	156	101.6	102	156	119	102	156	101.6	211/248	220/242	JATD75/JATS92

备注: 根据不同的阀门扭矩, 不同的气源压力及不同的实际工况, 选择相匹配的执行器其相关外形尺寸也随之变化

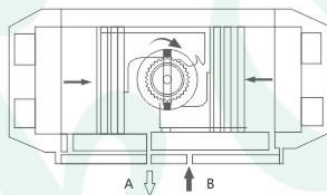
Note: Depending on the valve torque, different air pressure and different physical conditions, choose to match its associated actuator dimensions also changes

>1、双作用式(俯视图) Double Action (Planform)



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口排出。

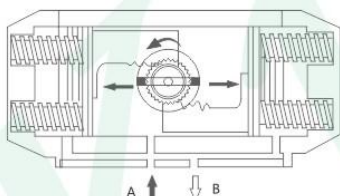
Air into Port A forces the pistons outwards, causing the pinion to turn counterclockwise while the air being exhausted from Port B.



压缩空气由B口输入，使左右活塞中心移动，输出轴顺时针方向转动，关闭阀门，两活塞中间的空气由A口排出。

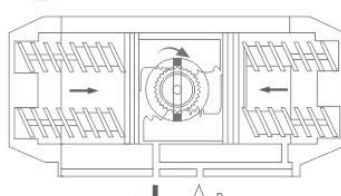
Air into Port B forces the pistons inwards, causing the pinion to turn clockwise while the air is being exhausted from Port A.

>2、单作用式(俯视图) Single Action (Planform)



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，两活塞侧面的空气由B口排出。

Air into Port A forces the pistons outwards, causing the springs to compress, the pinion turns counterclockwise while air is being exhausted from Port B.



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

In the event of loss air pressure or power, the stored energy in the springs forces the pistons inwards, causing the pinion turns clockwise while air is being exhausted from Port A, and air to Port B can accelerate closing the valve.

注:

- 1、标准动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。

Note:

- 1、The standard rotation is clockwise for closing the valve, while counterclockwise for opening.
- 2、If the assembly direction of the piston is reversed, then the standard rotation is counterclockwise for closing the valve, clockwise for opening.

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是损坏。 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
反馈器无信号 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 circuit
	2、反馈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 micro switch broken?	更换微动开关。 Replace the micro switch