

AD/AS系列 拨叉式气动执行机构

AD/AS series fork type pneumatic actuator

铁野控制阀门(上海)有限公司
YEAH CONTROL VALVE (SHANGHAI) CO., LTD.



概述及应用

拨叉式气动执行机构，是一种程活塞式执行机构，适用90°转角的阀门（如球阀、蝶阀、旋塞阀）的开关切断或计量控制，尤其适用于要求大扭矩的大口径阀门。压缩空气进入气缸，推动活塞作直线运动，活塞通利用活塞销与拨叉U型槽设计将活塞的直线运动转为拨叉的旋转运动，拨叉旋转带动输出轴转动，从而实现对阀门的控制。

产品特点

- > 国际标准(DIN3337、NAMUR、ISO5211)
- > 硬质阳极氧化铝主体和粉末涂层端盖
- > 工作介质为压缩空气，滤除异物或灰尘，其尺寸最大不应超过40μ
- > 供给介质必须采用除湿气动压力，如果空气中有水分，必须安装单独的除湿装置。

技术参数 Technical Parameters

工作气压 Working pressure 3~8Bar

推荐压力 Recommended pressure 4~6Bar

设计压力 Design pressure 10Bar

Overview and Application

Fork type pneumatic actuator is a type of stroke piston actuator, suitable for on/off or metering control of 90°angle valves (such as ball valves, butterfly valves, plug valves), especially for large-diameter valves that require high torque. Compressed air enters the cylinder, pushing the piston to move in a straight line. The piston uses the piston pin and fork U-shaped groove design to convert the piston's straight line motion into the fork's rotating motion, and the fork's rotation drives the output shaft to rotate, thereby achieving control of the valve.

Product Features

- International standards (DIN3337, NAMUR, ISO5211)
- Hard anodized aluminum body and powder coated end caps
- The working medium is compressed air, which filters out foreign objects or dust, and its maximum size should not exceed 40μ
- The supply medium must use dehumidification pneumatic pressure. If there is moisture in the air, a separate dehumidification device must be installed.

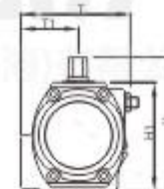
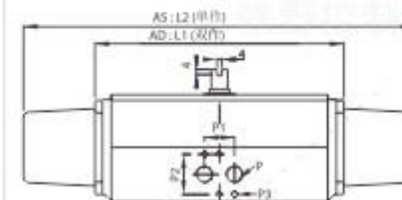
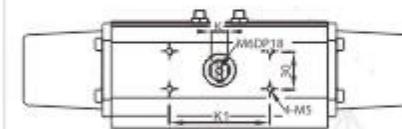
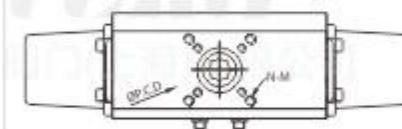
产品认证 Product Certification

TUV IEC61508-SIL3安全
完整性功能认证
TUV ISO15848低泄漏认证
TUV API607防火认证

TUV IEC61508-SIL3 Certification
of safety and integrated functions
TUV ISO15848 Low-leakage
certification
TUV API607 Fireproofing certification



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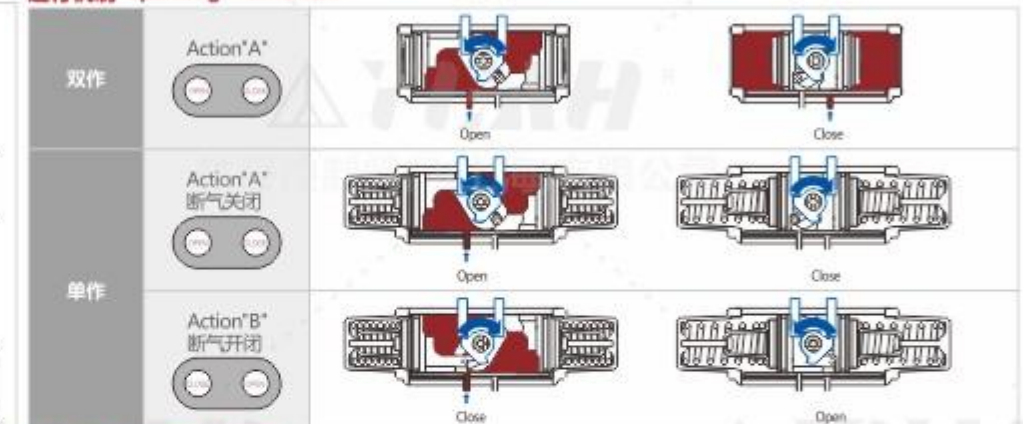
安装图像



模型	P	P1	P2	P3
A50~A210	PT1/4	24	32	M5
A250/A300	PT1/4	24	32	M5
	#PT3/8	40	45	M6
	#PT1/2	40	45	M6



运行机制 Operating mechanism



选型指南 Selection guide

阀门尺寸	双作		单作	
	球阀	蝶阀	球阀	蝶阀
1/2"			AS50	
3/4"	AD50			
1"				
1 1/4"			AS65	
1 1/2"	AD65			AS50
2"		AD50	AS80	
2 1/2"	AD80		AS100	AS65
3"		AD65	AS125	
4"	AD100		AS140	AS80
5"	AD125	AD80	AS160	
6"	AD140		AS185	AS100
8"	AD160	AD100	AS210	AS125
10"	AD185		AS250	AS140
12"	AD210	AD125	AS300	AS160
14"	AD250	AD140		AS185
16"	AD300	AD160		AS210
18"		AD185		AS250
20"~22"		AD210		AS300
24"~32"		AD250		
34"~40"		AD300		

*基于 10K/#150.

*以上数据仅供参考，可能因阀门材料、压力、流体和使用环境而异。

*该数据不具有法律效力，不能作为法律证据。

尺寸表 Size chart

模型	K1	ISO	P.C.D(O)	N-G (深度)	K	AD L1	AS L2	T	T1	H	H1	CH	轴		AD	AS
													深度	重量(Kg)	重量(Kg)	重量(Kg)
A50	80	F03/F05/F07	36/50/70	4-M5/M6/M8 (10/12/12.5)	9	162	257	75	40	90	70	11*11 #14*14 #9.7*15 14*14	13 14 14 17		1.4	1.6
A65	80	F05/F07	50/70	4-M6/M8 (14/14)	13	202	314	89	46	107	87	11*11 #11.7*17 #9.7*15	13 17 14	2.3	3.0	
A80	80	F07	70	4-M8(15)	13	253	421	101	49.5	126	106	17*17 #14.7*19 22*22 #17.7*22	19 20 26 26	3.9	5.3	
A100	80	F07/F10	70/102	4-M8/M10 (16/19)	19	311	500	129	61.5	148	128	22*22 #17.7*22	26 26	6.7	9.5	
A125	80	F07/F10	70/102	4-M8/M10 (16/19)	19	390	606	151	71.5	174	154	22*22	26	11.3	17.6	
A140	80	F10/F12	102/125	4-M8/M10 (18/26)	24	431	682	164	77	192	172	27*27 #22*22	30	16.4	23.9	
A160	80	F14	140	4-M16(25)	24	506	781	188	89	216	196	36*36 #27*27	38 27	23.7	36.6	
A185	80/130	F14	140	140	24	581	894	217	102	244	224	36*36 #36*36	38 50	34.8	56.9	
A210	130	F16	165	165	36	605	982	231	115	284	254	46*46 #36*36	60 50	45.5	77.2	
A250	130	F16	165	165	36	755	1108	301	152	335	305	46*46	60	65.8	119.6	
A300	130	F16/F25	165/254	165/254	36	889	1345	372	170	408	378	55*55	60	165.0	275.5	

*A300阀体和端盖的材料为球墨铸铁。

#选项

RD/RS系列 齿轮齿条式气动执行机构

RD/RS series gear rack pneumatic actuator

铁野控制阀门(上海)有限公司
YEAH CONTROL VALVE (SHANGHAI) CO., LTD.



概述及应用

齿轮齿条式执行机构，压缩空气进入气缸，推动齿条式活塞直线运动，齿条与齿轮轴上的齿轮啮合带动齿轮轴旋转运动从而实现对阀门的控制。

产品特点

- > 国际标准(DIN3337、NAMUR、ISO5211)
- > 硬质阳极氧化铝主体和粉末涂层端盖
- > 工作介质为压缩空气，滤除异物或灰尘，其尺寸最大不应超过40μ
- > 供给介质必须采用除湿气动压力，如果空气中有水分，必须安装单独的除湿装置。

技术参数 Technical Parameters

工作气压 Working pressure 3~8Bar

推荐压力 Recommended pressure 4~6Bar

设计压力 Design pressure 10Bar

Overview and Application

Gear rack actuator, compressed air enters the cylinder, pushing the rack piston to move in a straight line. The gear teeth mesh with the gears on the gear shaft, driving the gear shaft to rotate and control the valve.

Product Features

- International standards (DIN3337, NAMUR, ISO5211)
- Hard anodized aluminum body and powder coated end caps
- The working medium is compressed air, which filters out foreign objects or dust, and its maximum size should not exceed 40μ
- The supply medium must use dehumidification pneumatic pressure. If there is moisture in the air, a separate dehumidification device must be installed.

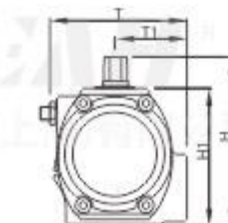
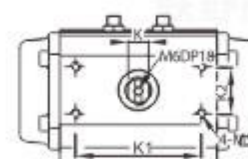
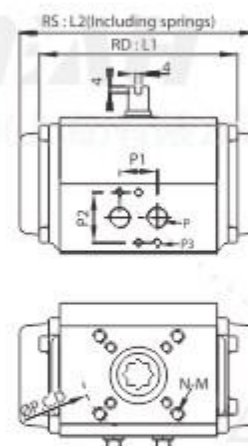
产品认证 Product Certification

TUV IEC61508-SIL3安全
完整性功能认证
TUV ISO15848低泄漏认证
TUV API607防火认证

TUV IEC61508-SIL3 Certification
of safety and integrated functions
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certification
TUV API607 Fireproofing certification



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安装图像

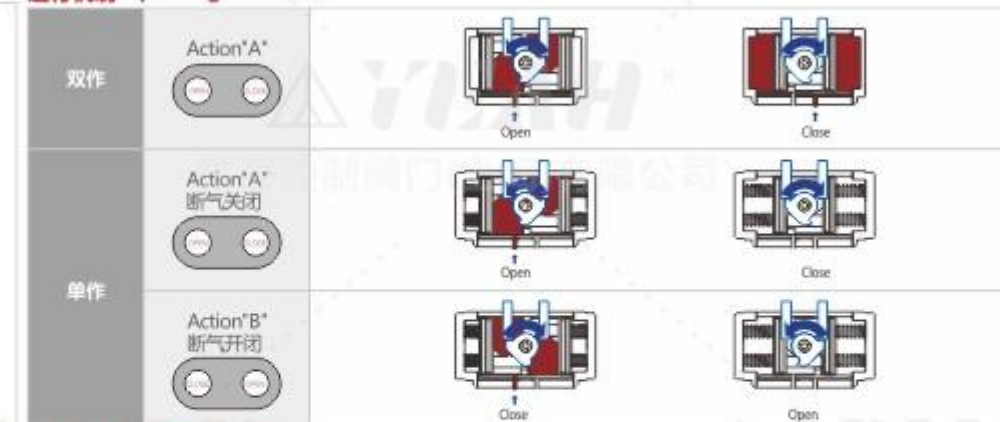


模型	P	P1	P2	P3
R32, R40	PT1/8	24	32	M5
R50~R210	PT1/4	24	32	M5

	K1	K2
R32	25.5	25.5
R40	50	25
R50~R185	80	30
R210	130	30



运行机制 Operating mechanism



选型指南 Selection guide

阀门尺寸	球阀	蝶阀	球阀	蝶阀
1/2"	RD32(1piece)	RD50	RS40	
3/4"	RD40(1piece)		RS50	
1"			RS65	
1 1/4"			RS80	
1 1/2"			RS90	RS50
2"		RD50	RS100	RS65
2 1/2"		RD65	RS115	RS80
3"		RD80	RS125	RS90
4"	RD100/RD115	RD80	RS140	RS100
5"	RD115/RD125	RD90	RS160/RS185	RS115
6"	RD140	RD100	RS185/RS210	RS125
8"	RD160	RD125		RS140
10"	RD185	RD140		RS160
12"	RD210	RD160		RS185
14"		RD185		RS210
16"		RD210		

*基于 10K/#150.

*以上数据仅供参考，可能因阀门材料、压力、流体和使用环境而异。

*该数据不具有法律效力，不能作为法律证据。

尺寸表 Size chart

模型	ISO	P.C.D(Ø)	N-G (深度)	K	RD L1	RS L2	T	T1	H	H1	CH	轴 深度	RD 重量(Kg)	RS 重量(Kg)
@RD32	F03	36	4-M5(7)	7	66	-	45	25	55	45	9*9	9	0.3	-
@R40	F03/F05	36/50	4-M5/M6 (8/12)	9	97	97	63	32	75	55	9*9	9	0.5	0.6
	#F04	#40	#4-M5											
@R50	F03/F05/F07	36/50/70	4-M5/M6/M8 (10/12/12.5)	9	119	133	75	40	90	70	11*11	13	1.0	1.1
	#F04	#42	#4-M5											
@R65	F05/F07	50/70	4-M6/M8 (11/11)	13	131	154	89	46	106.5	86.5	14*14	16	1.4	1.5
	#F07	#70	#4-M5											
@R80	F05/F07	50/70	4-M6/M8 (11/15)	19	189	220	101	49.5	126	106	17*17	19	2.9	3.3
@R90	#F07	#70	4-M8(17)	19	188	223	104	54.5	136	116	17*17	19	3.4	3.8
@R100	F07/F10	70/102	4-M8/M10 (16/19)	19	229	256	132	61.5	148	128	22*22	26	4.7	5.4
											17*17	19		
@R115	F07/F10	70/102	4-M8/M10 (16/19)	19	264	302	141.5	67.5	163	143	22*22	26	6.7	5.4
@R125	F07/F10	70/102	4-M8/M10 (16/19)	19	299	330	151	71.5	174	154	22*22	26	8.6	9.9
@R140	F10/F12	102/125	4-M10/M12 (18/25)	24	332	389	164	77	192	172	27*27	30	12.4	14.5
											22*22	26		
@R160	F10/F12	102/125	4-M10/M12 (18/25)	24	364	416	188	103.5	216	196	27*27	30	16.9	19.5
@R185	F10/F12	102/125	4-M10/M12 (18/25)	24	434	465	217	103	244	224	36*36	30	24.2	29.0
@R210	F14	140	4-M16(23)	36	444	527	231	115	284	254	36*36	30	32.3	37.9

#选项