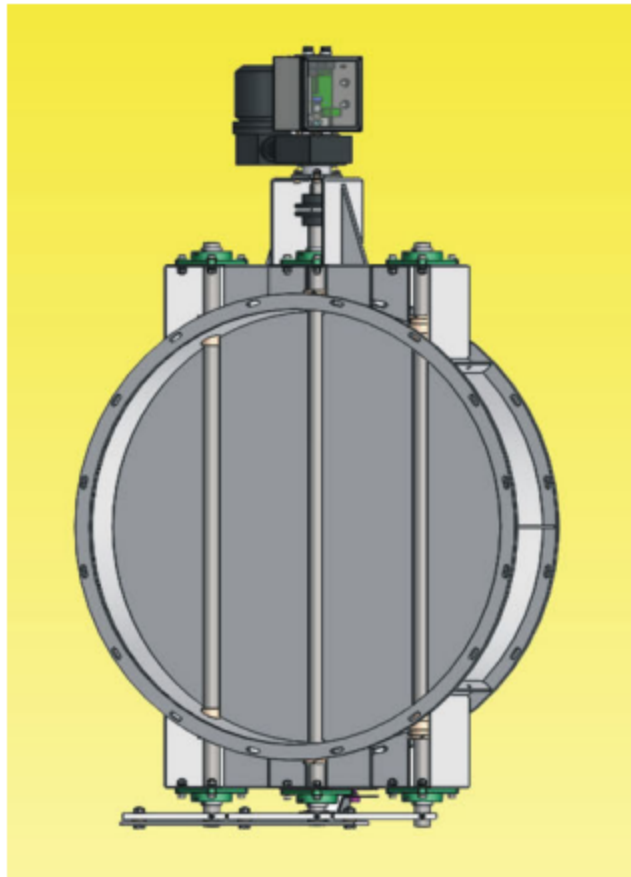




AKRZ/AKRJ
Hot Air Butterfly Valve



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AKRZ/AKRJ Hot Air Butterfly Valve

Overview

AKRZ/AKRJ automatic hot air valve is suitable for coal gasification, coal chemical industry, metallurgy, ceramics and other industries, for controlling heating air, or flue gas flow, for kiln combustion air, flue gas and other pipes.

Features

- The whole valve adopts welding technology, exquisite design and compact structure.
- It adopts flanged installation with low leakage rate and pressure loss.
- The highest temperature resistance is 450°C.
- It can customize the material according to the requirements.

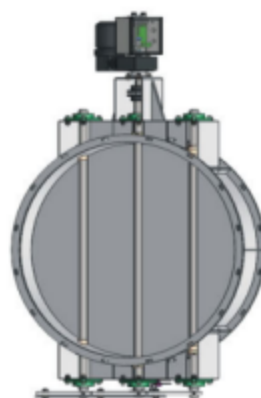
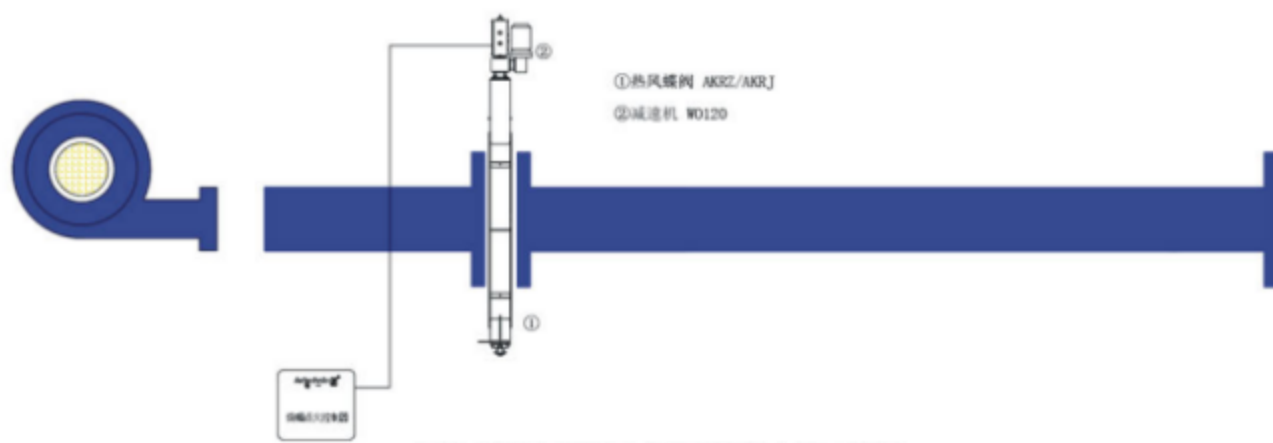


Fig. 1 AKRZ/AKRJ hot air valve

Collocation combination

- Complete integration of actuator and damper;
- $\phi 200$ - $\phi 450$ can be connected to AUJ-60T50 (standard);
- $\phi 500$ - $\phi 1500$ can be connected to NMRV050 reducer (standard);
- Depending on the requirements, the valve plate and barrel can be made of stainless steel SUS304.



① Hot Air Butterfly Valve AKRZ/AKRJ

② Reducer W0120

Fig. 2 Installation diagram of AKRZ/AKRJ Hot Air Butterfly Valve

Installation dimensions and specifications

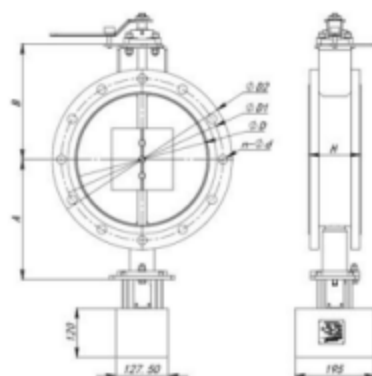


Fig. 3 Dimensional schematic diagram of AKRZ+ Actuator

Dimension and specification table of AKRZ+ Actuator Series

Model	Actuator	A	B	H	φD	φD1	φD2	n-φd
AKRZ-200	AUJ-60T50R/ AUJ-60T50E	350	180	90	205	255	285	6-φ12
AKRZ-250		375	205	90	255	290	335	6-φ12
AKRZ-300		400	230	90	305	350	385	6-φ12
AKRZ-350		425	255	90	355	400	435	8-φ12
AKRZ-400		450	280	90	405	460	485	8-φ12
AKRZ-450		475	305	90	455	505	535	8-φ12

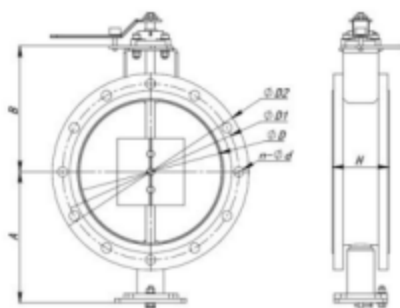


Fig. 4 Dimensional schematic diagram of AKRZ

Dimension and specification table of AKRZ series valve body

Model	A	B	H	φD	φD1	φD2	n-φd	Actuator
AKRZ-200	350	180	90	205	255	285	6-φ12	Optional AUJ-60T50 or BLD-05
AKRZ-250	375	205	90	255	290	335	6-φ12	
AKRZ-300	400	230	90	305	350	385	6-φ12	
AKRZ-350	425	255	90	355	400	435	8-φ12	
AKRZ-400	450	280	90	405	460	485	8-φ12	
AKRZ-450	475	305	90	455	505	535	8-φ12	

Installation dimensions and specifications

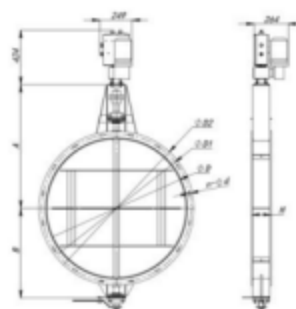


Fig. 5 Dimensional schematic diagram of AKRJ+ reducer

Dimension and specification table of AKRJ+ reducer series

Model	Reducer	A	B	H	φD	φD1	φD2	n-φd
AKRJ-500	NMRV050 with potentiometer R=1K	555	370	90	505	555	585	8-φ12
AKRJ-600		616	420	90	605	660	705	12-φ12
AKRJ-700		666	470	90	705	755	805	12-φ12
AKRJ-800		810	550	90	805	860	905	16-φ15
AKRJ-900		860	600	90	905	970	1005	16-φ15
AKRJ-1000		915	650	150	1005	1070	1105	16-φ15
AKRJ-1100		965	700	150	1105	1170	1205	16-φ15
AKRJ-1200		1015	750	150	1205	1270	1305	16-φ15
AKRJ-1300		1070	800	150	1305	1370	1405	16-φ15
AKRJ-1400		1115	850	150	1403	1470	1505	16-φ15

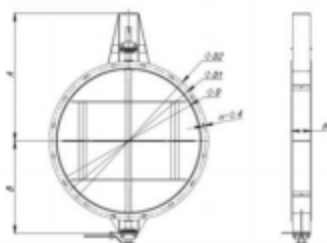


Fig. 6 Dimensional schematic diagram of AKRJ

Dimension and specification table of AKRJ series

Model	A	B	H	φD	φD1	φD2	n-φd	□FXF	φG	4-φE	Reducer
AKRJ-500	555	370	90	505	555	585	8-φ12	□15X15	70	4-φ9	Optional AUJ-60T100 or BLD-10
AKRJ-600	616	420	90	605	660	705	12-φ12	□15X15	70	4-φ9	
AKRJ-700	666	470	90	705	755	805	12-φ12	□15X15	70	4-φ9	Optional AUJ-60T400 or BLD-40
AKRJ-800	810	550	90	805	860	905	16-φ15	□23X23	102	4-φ11	
AKRJ-900	860	600	90	905	970	1005	16-φ15	□23X23	102	4-φ11	Optional AUJ-60T600 or BLD-60
AKRJ-1000	915	650	150	1005	1070	1105	16-φ15	□23X23	102	4-φ11	
AKRJ-1100	965	700	150	1105	1170	1205	16-φ15	□25X25	102	4-φ11	
AKRJ-1200	1015	750	150	1205	1270	1305	16-φ15	□25X25	102	4-φ11	
AKRJ-1300	1070	800	150	1305	1370	1405	16-φ15	□25X25	102	4-φ11	
AKRJ-1400	1115	850	150	1403	1470	1505	16-φ15	□25X25	102	4-φ11	Optional AUJ-60T600 or BLD-60
AKRJ-1500	1165	900	150	1505	1570	1605	24-φ15	□25X25	102	4-φ11	

Order code and Model of AKRZ/AKRJ Hot Air Butterfly Valve

No.	Order code	Model	Product Description
1	108110010001	AKRZ-200+AUJ-60T50R	φ 200 hot air valve is used with AUJ actuator (three-point switch)
2	108110010002	AKRZ-200+AUJ-60T50E	φ 200 hot air valve is used with AUJ actuator (analog quantity 4-20mA)
3	108110010005	AKRZ-200(304)+AUJ-60T50R	φ 200 hot air valve is used with AUJ actuator (three-point switch) SUS304
4	108110010006	AKRZ-200(304)+AUJ-60T50E	φ 200 hot air valve is used with AUJ actuator (analog quantity 4-20mA) SUS304
5	108110010009	AKRZ-200-S	φ 200 hot air valve (no actuator is included in manual mode)
6	108110010010	AKRZ-200(304)-S	φ 200 hot air valve (no actuator is included in manual mode) SUS304
7	108110020001	AKRZ-250+AUJ-60T50R	φ 250 hot air valve is used with AUJ actuator (three-point switch)
8	108110020002	AKRZ-250+AUJ-60T50E	φ 250 hot air valve is used with AUJ actuator (analog quantity 4-20mA)
9	108110020005	AKRZ-250(304)+AUJ-60T50R	φ 250 hot air valve is used with AUJ actuator (three-point switch) SUS304
10	108110020006	AKRZ-250(304)+AUJ-60T50E	φ 250 hot air valve is used with AUJ actuator (analog quantity 4-20mA) SUS304
11	108110020009	AKRZ-250-S	φ 250 hot air valve (no actuator is included in manual mode)
12	108110020010	AKRZ-250(304)-S	φ 250 hot air valve (no actuator is included in manual mode) SUS304
13	108110030001	AKRZ-300+AUJ-60T50R	φ 300 hot air valve is used with AUJ actuator (three-point switch)
14	108110030002	AKRZ-300+AUJ-60T50E	φ 300 hot air valve is used with AUJ actuator (analog quantity 4-20mA)
15	108110030005	AKRZ-300(304)+AUJ-60T50R	φ 300 hot air valve is used with AUJ actuator (three-point switch) SUS304
16	108110030006	AKRZ-300(304)+AUJ-60T50E	φ 300 hot air valve is used with AUJ actuator (analog quantity 4-20mA) SUS304
17	108110030009	AKRZ-300-S	φ 300 hot air valve (no actuator is included in manual mode)
18	108110030010	AKRZ-300(304)-S	φ 300 hot air valve (no actuator is included in manual mode) SUS304
19	108110040001	AKRZ-350+AUJ-60T50R	φ 350 hot air valve is used with AUJ actuator (three-point switch)
20	108110040002	AKRZ-350+AUJ-60T50E	φ 350 hot air valve is used with AUJ actuator (analog quantity 4-20mA)
21	108110040005	AKRZ-350(304)+AUJ-60T50R	φ 350 hot air valve is used with AUJ actuator (three-point switch) SUS304
22	108110040006	AKRZ-350(304)+AUJ-60T50E	φ 350 hot air valve is used with AUJ actuator (analog quantity 4-20mA) SUS304
23	108110040009	AKRZ-350-S	φ 350 hot air valve (no actuator is included in manual mode)
24	108110040010	AKRZ-350(304)-S	φ 350 hot air valve (no actuator is included in manual mode) SUS304
25	108110050001	AKRZ-400+AUJ-60T50R	φ 400 hot air valve is used with AUJ actuator (three-point switch)
26	108110050002	AKRZ-400+AUJ-60T50E	φ 400 hot air valve is used with AUJ actuator (analog quantity 4-20mA)
27	108110050005	AKRZ-400(304)+AUJ-60T50R	φ 400 hot air valve is used with AUJ actuator (three-point switch) SUS304
28	108110050006	AKRZ-400(304)+AUJ-60T50E	φ 400 hot air valve is used with AUJ actuator (analog quantity 4-20mA) SUS304
29	108110050009	AKRZ-400-S	φ 400 hot air valve (no actuator is included in manual mode)
30	108110050010	AKRZ-400(304)-S	φ 400 hot air valve (no actuator is included in manual mode) SUS304
31	108110060001	AKRZ-450+AUJ-60T50R	φ 450 hot air valve is used with AUJ actuator (three-point switch)
32	108110060002	AKRZ-450+AUJ-60T50E	φ 450 hot air valve is used with AUJ actuator (analog quantity 4-20mA)
33	108110060005	AKRZ-450(304)+AUJ-60T50R	φ 450 hot air valve is used with AUJ actuator (three-point switch) SUS304
34	108110060006	AKRZ-450(304)+AUJ-60T50E	φ 450 hot air valve is used with AUJ actuator (analog quantity 4-20mA) SUS304
35	108110060009	AKRZ-450-S	φ 450 hot air valve (no actuator is included in manual mode)
36	108110060010	AKRZ-450(304)-S	φ 450 hot air valve (no actuator is included in manual mode) SUS304
37	108120010001	AKRJ-500+NMRV050	φ 500 hot air valve is used with NMRV050(with feedback potentiometer R=1 K)
38	108120010002	AKRJ-500(304)+NMRV050	φ 500 hot air valve is used with NMRV050(with feedback potentiometer R=1 K) SUS304
39	108120010003	AKRJ-500-S	φ 500 hot air valve (no actuator is included in manual mode)
40	108120010004	AKRJ-500(304)-S	φ 500 hot air valve (no actuator is included in manual mode) SUS304



No.	Order code	Name	Description
41	108120020001	AKRJ-600+NMRV050	φ600 hot air valve is used with NMRV050(with feedback potentiometer R = 1 K)
42	108120020002	AKRJ-600(304)+NMRV050	φ600 hot air valve is used with NMRV050(with feedback potentiometer R = 1K) SUS304
43	108120020003	AKRJ-600-S	φ600 hot air valve (no actuator is included in manual mode)
44	108120020004	AKRJ-600(304)-S	φ600 hot air valve (no actuator is included in manual mode)SUS304
45	108120030001	AKRJ-700+NMRV050	φ700 hot air valve is used with NMRV050(with feedback potentiometer R = 1 K)
46	108120030002	AKRJ-700(304)+NMRV050	φ700 hot air valve is used with NMRV050(with feedback potentiometer R = 1K) SUS304
47	108120030003	AKRJ-700-S	φ700 hot air valve (no actuator is included in manual mode)
48	108120030004	AKRJ-700(304)-S	φ700 hot air valve (no actuator is included in manual mode)SUS304
49	108120040001	AKRJ-800+NMRV050	φ800 hot air valve is used with NMRV050(with feedback potentiometer R = 1 K)
50	108120040002	AKRJ-800(304)+NMRV050	φ800 hot air valve is used with NMRV050(with feedback potentiometer R = 1K) SUS304
51	108120040003	AKRJ-800-S	φ800 hot air valve (no actuator is included in manual mode)
52	108120040004	AKRJ-800(304)-S	φ800 hot air valve (no actuator is included in manual mode)SUS304
53	108120050001	AKRJ-900+NMRV050	φ900 hot air valve is used with NMRV050(with feedback potentiometer R = 1 K)
54	108120050002	AKRJ-900(304)+NMRV050	φ900 hot air valve is used with NMRV050(with feedback potentiometer R = 1K) SUS304
55	108120050003	AKRJ-900-S	φ900 hot air valve (no actuator is included in manual mode)
56	108120050004	AKRJ-900(304)-S	φ900 hot air valve (no actuator is included in manual mode)SUS304
57	108120060001	AKRJ-1000+NMRV050	φ1000 hot air valve is used with NMRV050(with feedback potentiometer R=1 K)
58	108120060002	AKRJ-1000(304)+NMRV050	φ1000 hot air valve is used with NMRV050(with feedback potentiometer R = 1 K)SUS304
59	108120060003	AKRJ-1000-S	φ1000 hot air valve (no actuator is included in manual mode)
60	108120060004	AKRJ-1000(304)-S	φ1000 hot air valve (no actuator is included in manual mode)SUS304
61	108120070001	AKRJ-1100+NMRV050	φ1100 hot air valve is used with NMRV050(with feedback potentiometer R=1 K)
62	108120070002	AKRJ-1100(304)+NMRV050	φ1100 hot air valve is used with NMRV050(with feedback potentiometer R=1K) SUS304
63	108120070003	AKRJ-1100-S	φ1100 hot air valve (no actuator is included in manual mode)
64	108120070004	AKRJ-1100(304)-S	φ1100 hot air valve (no actuator is included in manual mode)SUS304
65	108120080001	AKRJ-1200+NMRV050	φ1200 hot air valve is used with NMRV050(with feedback potentiometer R=1 K)
66	108120080002	AKRJ-1200(304)+NMRV050	φ1200 hot air valve is used with NMRV050(with feedback potentiometer R=1K) SUS304
67	108120080003	AKRJ-1200-S	φ1200 hot air valve (no actuator is included in manual mode)
68	108120080004	AKRJ-1200(304)-S	φ1200 hot air valve (no actuator is included in manual mode)SUS304
69	108120090001	AKRJ-1300+NMRV050	φ1300 hot air valve is used with NMRV050(with feedback potentiometer R=1 K)
70	108120090002	AKRJ-1300(304)+NMRV050	φ1300 hot air valve is used with NMRV050(with feedback potentiometer R = 1 K)SUS304
71	108120090003	AKRJ-1300-S	φ1300 hot air valve (no actuator is included in manual mode)
72	108120090004	AKRJ-1300(304)-S	φ1300 hot air valve (no actuator is included in manual mode)SUS304
73	108120100001	AKRJ-1400+NMRV050	φ1400 hot air valve is used with NMRV050(with feedback potentiometer R=1 K)
74	108120100002	AKRJ-1400(304)+NMRV050	φ1400 hot air valve is used with NMRV050(with feedback potentiometer R=1K) SUS304
75	108120100003	AKRJ-1400-S	φ1400 hot air valve (no actuator is included in manual mode)
76	108120100004	AKRJ-1400(304)-S	φ1400 hot air valve (no actuator is included in manual mode)SUS304
77	108120110001	AKRJ-1500+NMRV050	φ1500 hot air valve is used with NMRV050(with feedback potentiometer R=1 K)
78	108120110002	AKRJ-1500(304)+NMRV050	φ1500 hot air valve is used with NMRV050(with feedback potentiometer R = 1 K)SUS304
79	108120110003	AKRJ-1500-S	φ1500 hot air valve (no actuator is included in manual mode)
80	108120110004	AKRJ-1500(304)-S	φ1500 hot air valve (no actuator is included in manual mode)SUS304

Precautions for AKRZ/AKRJ Hot Air Butterfly Valve

- This series of butterfly valve and pipeline adopts clamp type flange installation method, and the flange adopts PN1.6Mpa flat welded steel pipe Series 1 flange in "GB/T9119-2000".
- Do not assemble the flange and butterfly valve in advance before welding the pipe and flange to prevent welding melt or other impurities from jamming or damaging the butterfly valve.
- When installing the butterfly valve, the flange gasket should be strictly aligned to prevent jamming during the opening of the butterfly valve.