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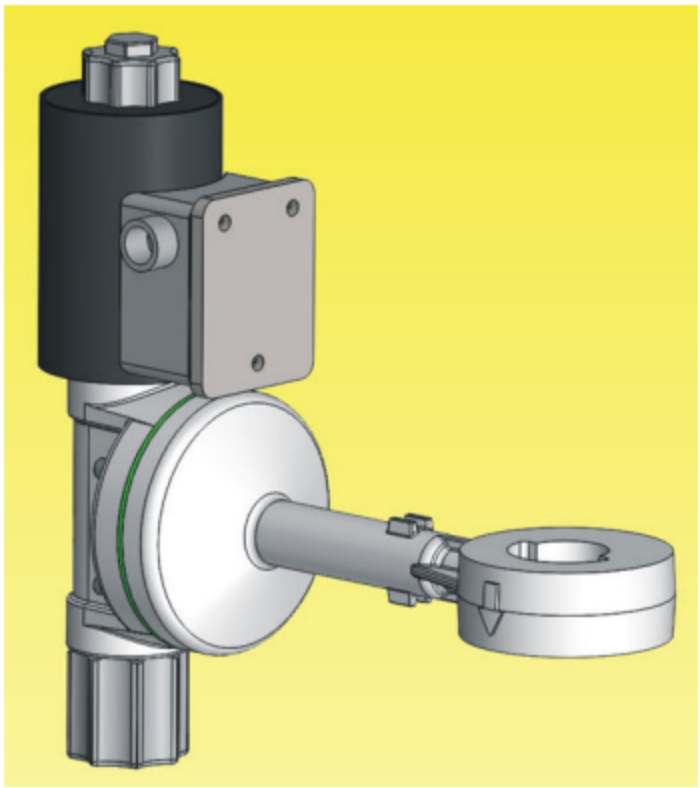
ACK
Air Pulse Solenoid Valve



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ACK Air Pulse Solenoid Butterfly Valve

Overview

ACK air pulse electromagnetic butterfly valve is suitable for gas, hot and cold air and smoke and other gases. It is an ideal equipment for regulating flow in gas pipeline, in which the butterfly valve used by ACK has a safe closing function. On some important occasions, this kind of butterfly valve can also prevent air from entering the furnace uncontrolled when the main valve shuts down.

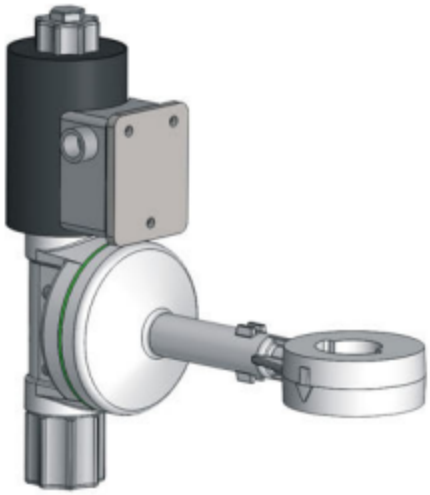


Fig. 1 ACK air pulse solenoid butterfly valve

Features

It is used for cold air, hot air and smoke.

Low leakage rate, low pressure loss, high control precision.

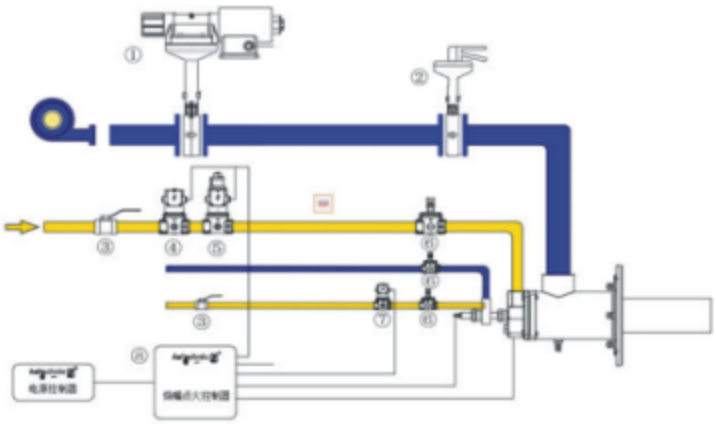
It is suitable for intermittent operation.

Low maintenance operation.

It can be used at temperatures up to 450℃.

Functions and Applications

- ACK air pulse electromagnetic butterfly valve is used in occasions where there are many times of intermittent operation, the function of flow regulation and the high switching frequency of large and small fire. Valve closure ensures a low leakage rate. After installing the electromagnetic actuator, the valve is suitable for intermittent operation.



① Air Pulse Solenoid Valve ACK
② Manual Hot Air Butterfly Valve AVH
③ Gas manual shutoff valve
④ Gas manual shutoff valve AVE. N/AMR. N
⑤ Gas quick opening solenoid valve AVE.L
⑥ Gas Fine Regulating Valve ASH
⑦ Gas Solenoid Valve AMR. N
⑧ Burner Ignition Controller ACU460/ACU480

Fig. 2 Applications of pulse electromagnetic butterfly valve

ACK Air Pulse Solenoid Butterfly Valve

Installation dimensions and specifications

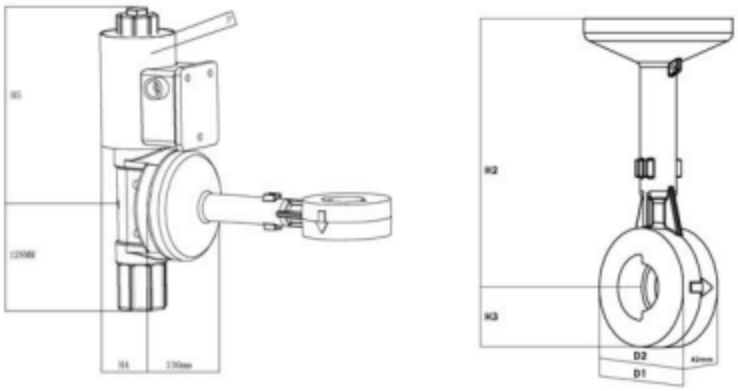
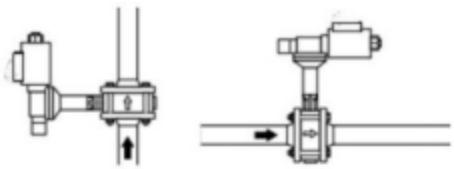


Fig. 3 : Dimensional schematic diagram

Installation of ACK Air Pulse Solenoid Butterfly Valve

Model	H2	H3	H4	D1	D2	F	H5
ACK-40	234	46	91.5	92	85.7	92	233
ACK-50	239	54	91.5	107	105	92	233
ACK-65	243	64	91.5	127	124	92	233
ACK-80	254	71	91.5	142	137	92	233
ACK-100	265	88	91.5	175	170	92	233
ACK-125	265	89	110	205	200	128	286
ACK-150	265	89	110	205	200	128	286

- The butterfly valve must be installed between two flanges, and the distance between the flanges should be equal to 2XDN. When designing a pipeline system, the flow rate of gas in the pipe does not exceed 30m/s.



- The actuator must be installed vertically or horizontally. The position cannot be reversed. When embedded in a vertical pipe, dirt may accumulate on the stop rod, preventing the valve from closing correctly. This is why we recommend a bottom-up flow direction.
- If pipe fittings (reducer fittings) are installed in the piping system, additional pressure loss must be considered. If hot air is flowing through the valve, the pipe should be fully insulated to lower the ambient temperature flange and butterfly valve must not contain insulation material. Butterfly valves should be installed so that rising hot air does not circulate around.
- Butterfly valves and solenoid actuators can be delivered separately or even installed after butterfly valves are installed in the pipeline. Electromagnetic actuators can be used at temperatures up to 250 ℃ (48℉), and butterfly valves can be used at temperatures up to 450 ℃ (840℉).

ACK Air Pulse Solenoid Butterfly Valve

Order code and Model of ACK Air Pulse Solenoid Butterfly Valve

No.	Order code	Model	Product Description
1	110010400001	ACK-40	Nominal diameter DN40 butterfly valve is used with pulse actuator Maximum working pressure: 150mbar, Maximum operating temperature: 450°C
2	110010500001	ACK-50	Nominal diameter DN50 butterfly valve is used with pulse actuator Maximum working pressure: 150mbar, Maximum operating temperature: 450°C
3	110010650001	ACK-65	Nominal diameter DN65 butterfly valve is used with pulse actuator Maximum working pressure: 150mbar, Maximum operating temperature: 450°C
4	110010800001	ACK-80	Nominal diameter DN80 butterfly valve is used with pulse actuator Maximum working pressure: 150mbar, Maximum operating temperature: 450°C
5	110011000001	ACK-100	Nominal diameter DN100 butterfly valve is used with pulse actuator Maximum working pressure: 150mbar, Maximum operating temperature: 450°C
6	110011250001	ACK-125	Nominal diameter DN125 butterfly valve is used with pulse actuator Maximum working pressure: 150mbar, Maximum operating temperature: 450°C
7	110011500001	ACK-150	Nominal diameter DN150 butterfly valve is used with pulse actuator Maximum working pressure: 150mbar, Maximum operating temperature: 450°C

Precautions for ACK Air Pulse Solenoid Butterfly Valve

- The installation direction of ACK air pulse electromagnetic butterfly valve has strict requirements. In order to facilitate on-site installation, the factory pulse solenoid valve is packaged separately, so it needs to be assembled on site.
- Do not weld the pipe and flange after assembling the flange and the butterfly valve in advance to prevent the welding melt or other impurities from blocking or damaging the butterfly valve.
- When installing the butterfly valve, the flange seal gasket should be strictly aligned to prevent the butterfly valve from getting stuck in the process of opening.