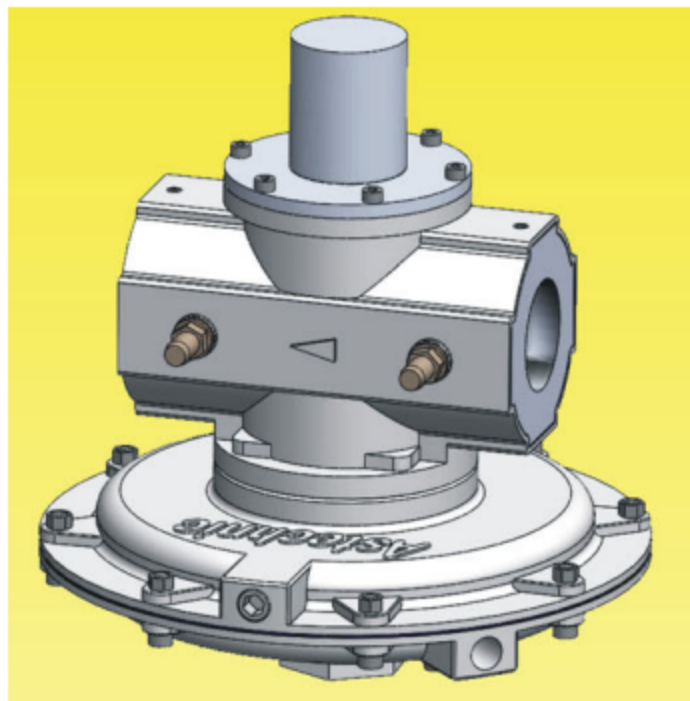




**AIK**  
**Fuel-Air Proportional Valve**



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## AIK Fuel-Air Proportional Valve

### Overview

As a dynamic balancing device during the combustion of the kiln, the fuel-air proportional valve controls the air flow through the gas flow, thus realizing the energy-saving effect of the kiln. It has the function of voltage stabilization. by stabilizing the pressure of the air, the burner combustion is more stable and the ignition success rate is higher.

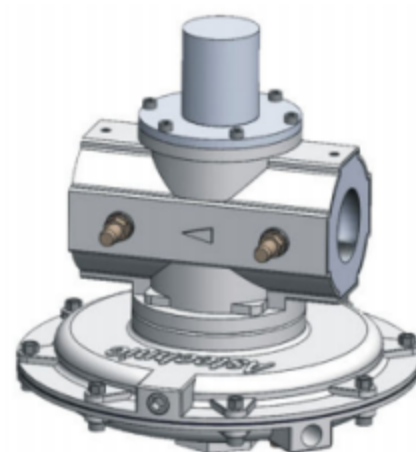


Fig. 1 AIK Fuel-Air Proportional Valve

### Features

- It can maintain a constant air / gas ratio.
- It is used for air pipe flow control.
- It can fine-tune the constant ratio of air outlet pressure and gas control pressure.
- It works stably and has high control precision.

### Functions and Applications

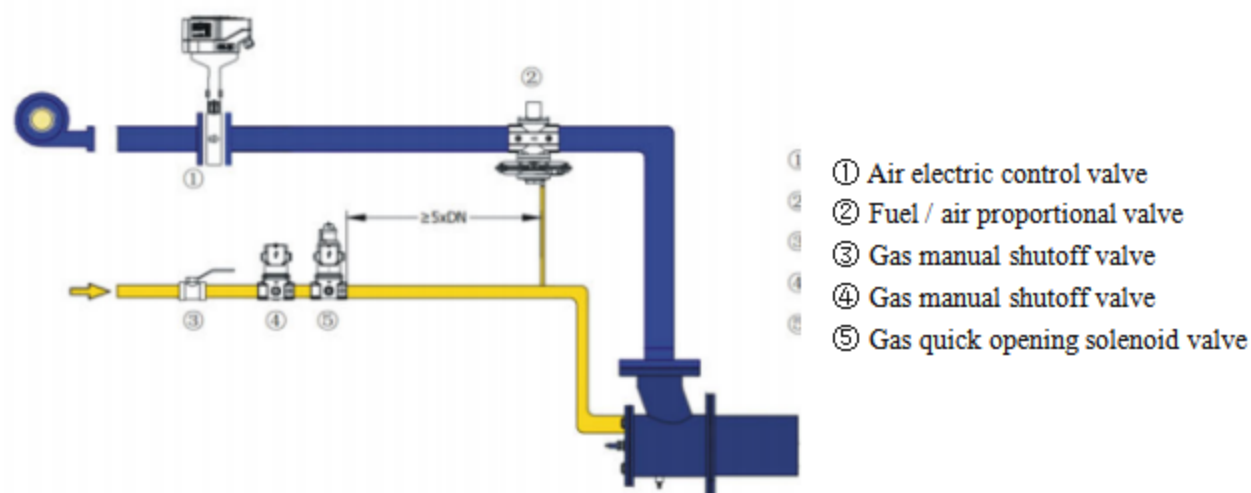


Fig. 2 Working diagram of AIK fuel-air proportional valve

## AIK Fuel-Air Proportional Valve

### Installation dimensions and specifications

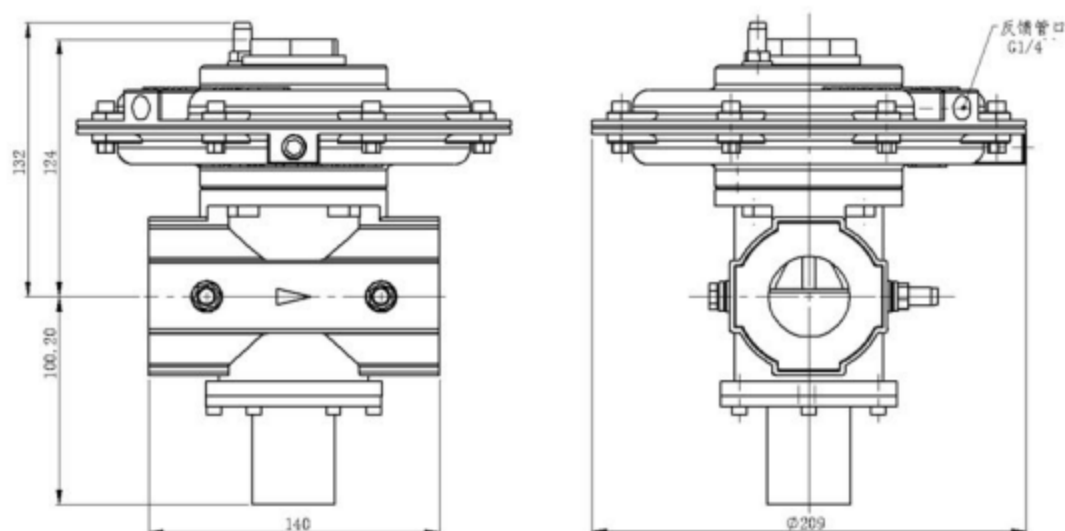


Fig. 3 Outline dimension diagram of AIK fuel-air proportional valve

### Technical Parameters of AIK Fuel-Air Proportional Valve

- Product Structure: Internal thread connection;
- Working medium: air, gas, liquefied petroleum gas, Natural gas and other non-corrosive gases;
- Operating temperature:  $-15^{\circ}\text{C} \sim 60^{\circ}\text{C}$ ;
- Maximum inlet pressure: 500mbar;
- Maximum pressure difference: 100mbar;

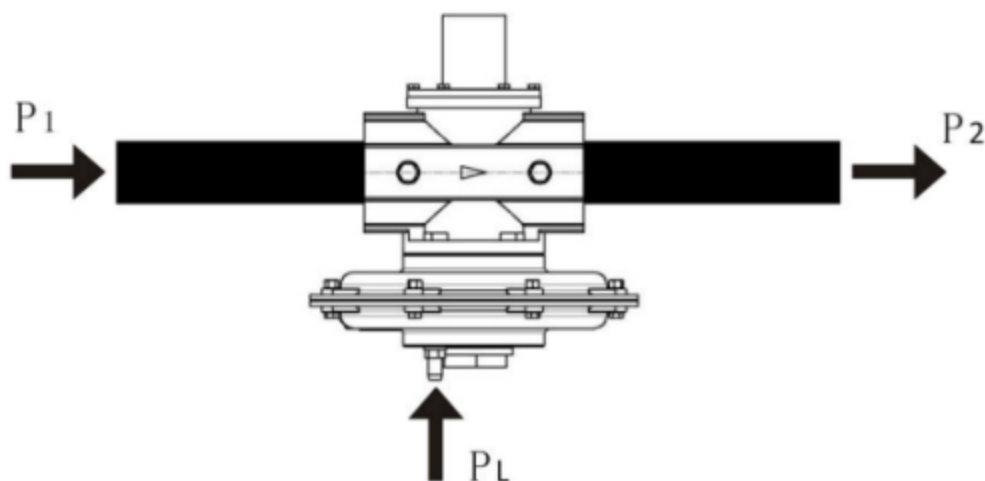


Fig. 4 Installation diagram of AIK fuel-air proportional valve

## AIK Fuel-Air Proportional Valve

### Flow pressure loss curve

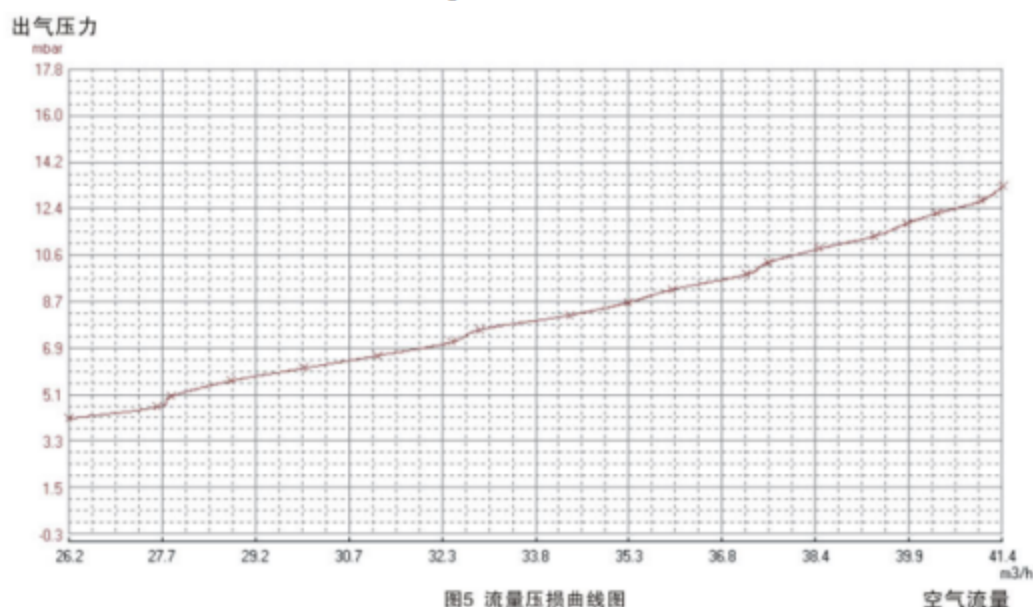


Fig. 5 Flow pressure loss curve

### Order code and Model of AIK Fuel-Air Proportional Valve

No.	Order code	Model	Product Description
1	104030320001	AIK32	Thread connection: Rp11/4 Inlet pressure: 500mbar Maximum pressure difference: 100mbar

### Precautions for system design, installation and maintenance of AIK Fuel-Air Proportional Valve

- The AIK fuel-air proportional valve is suitable for systems without preheating combustion air and is located upstream of the gas burner. Please install the manual valve on the gas control line of the fuel-air proportional valve and the filter upstream of the fuel-air proportional valve. The pressure guide tube and the test hole should not leak, otherwise the proportional valve can not work properly, and the pressure guide pipe must be made of metal tube.
- The gas control pressure PL must be greater than the air inlet pressure P1 plus differential pressure  $\Delta P$ , that is,  $PL > P1 + \Delta P$  (for  $\Delta P$ , see flow pressure loss curve).
- The position above the valve should be reserved for easy adjustment with inner hexagonal wrench.
- Before the proportional valve is installed on the pipe, the pipe should be cleaned and attention should be paid to the correct use of sealing materials such as raw material belt during installation to prevent foreign bodies from falling into the valve.