



Pneumatic Valve

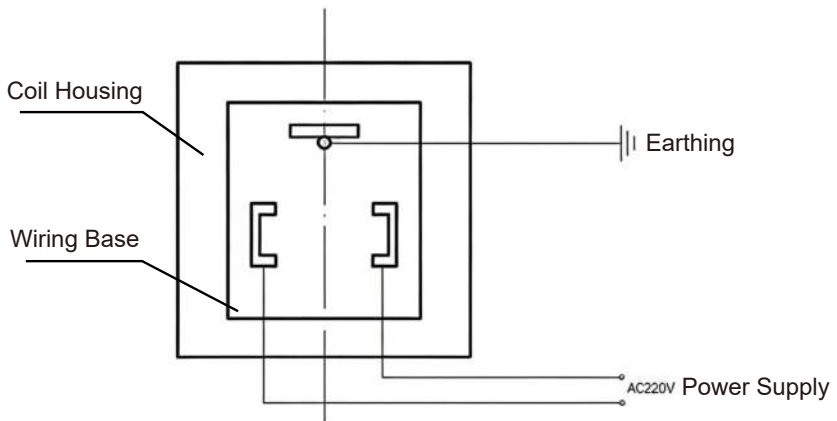
Operation Manual

- Please read this instruction manual carefully before installation and use.
- Retain this manual for future reference.
- Ensure proper use of the product by thoroughly understanding the contents of this manual.

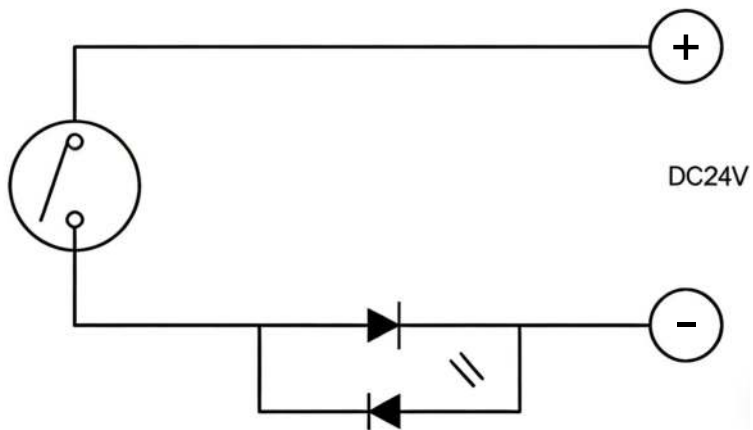
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| Wiring Diagram

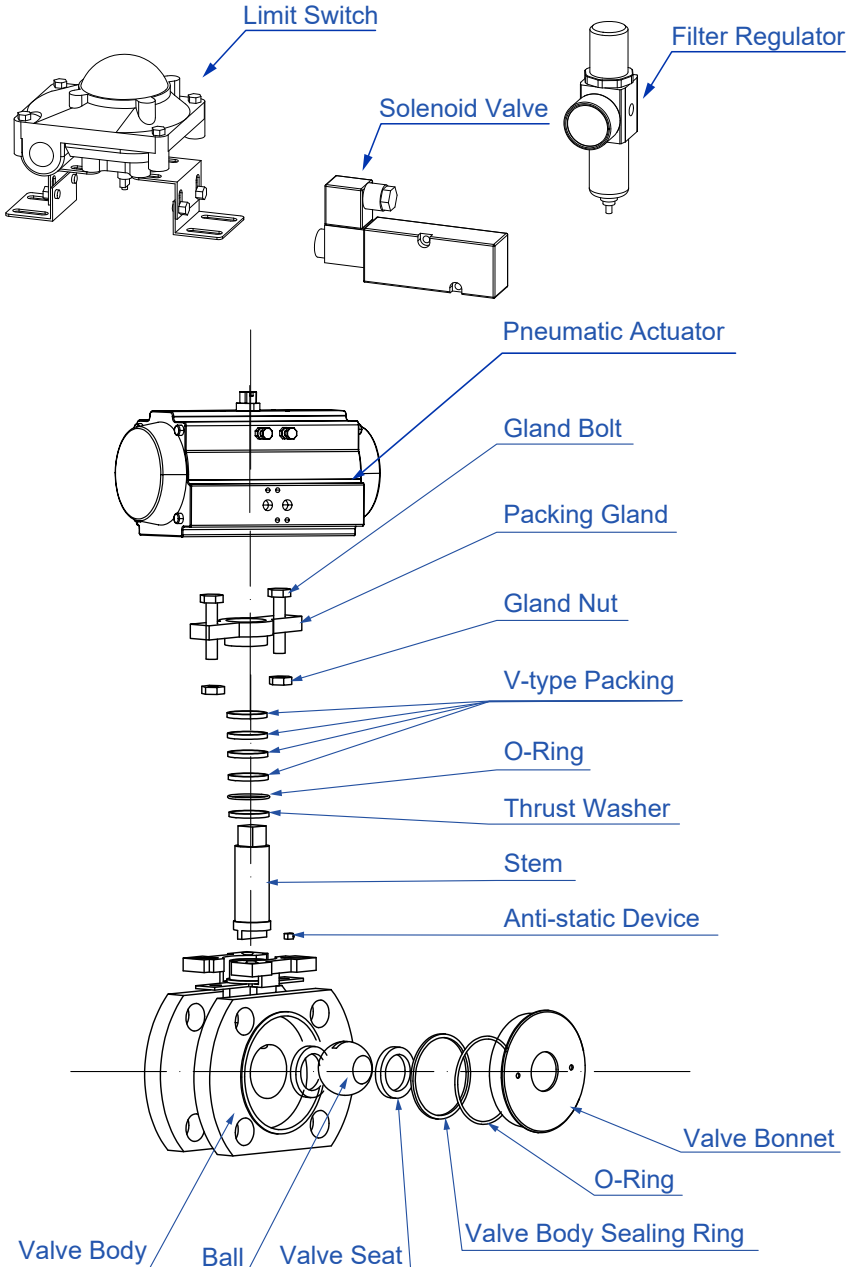


AC Solenoid Valve Wiring Diagram

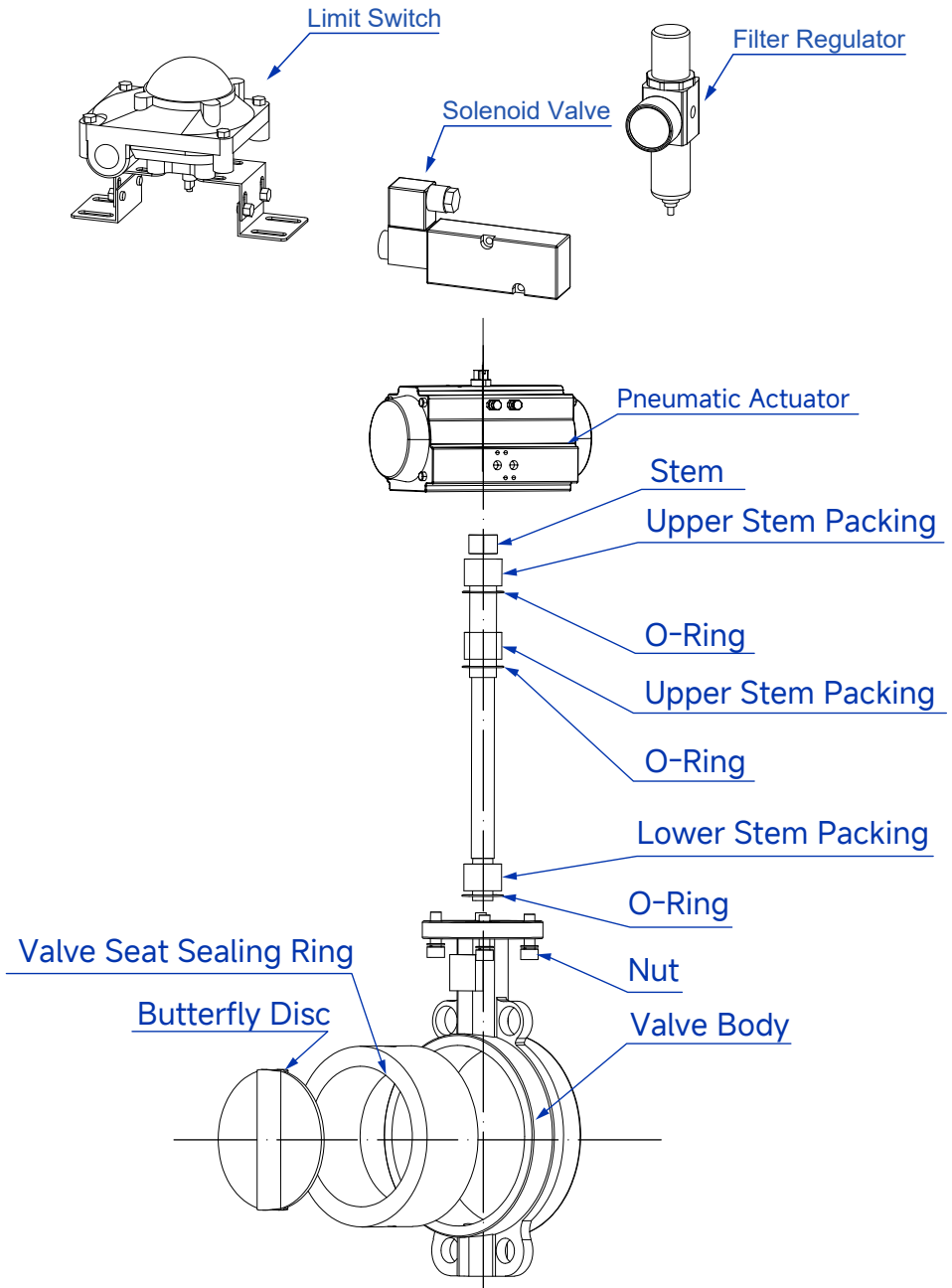


DC Solenoid Valve Wiring Diagram

Structural Drawing of Pneumatic Ball Valve

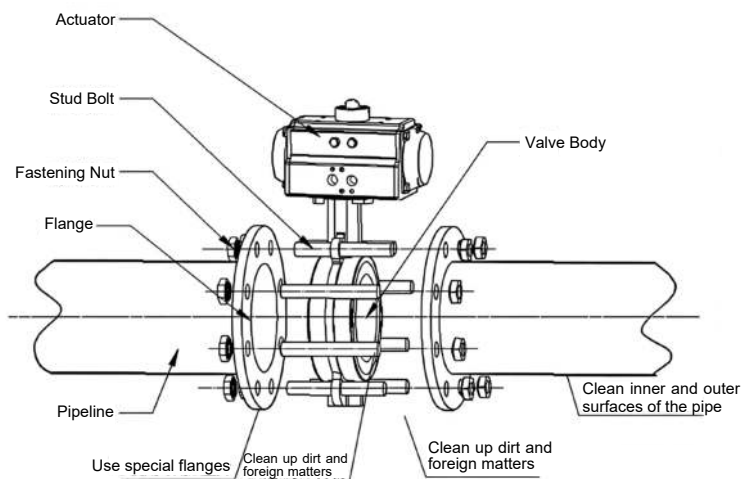
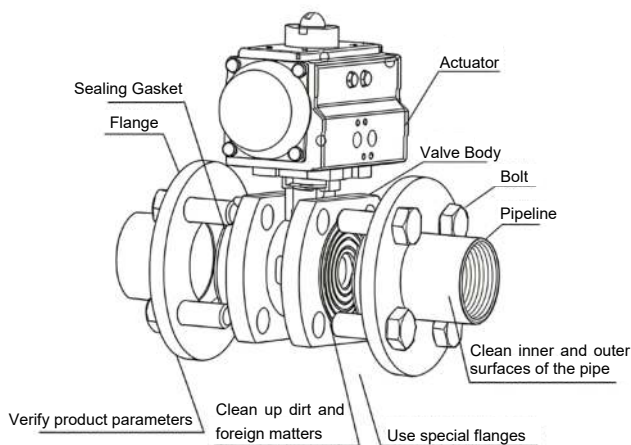


| Structure Diagram of Pneumatic Butterfly Valve



Installation Steps of Pneumatic Valves

■ Precautions Before Installation



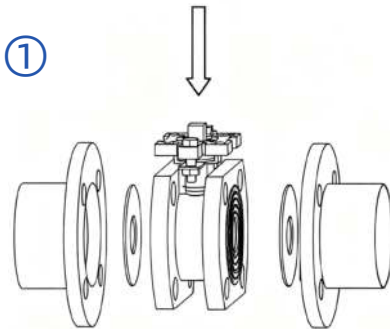
Note:

- 1.The upstream and downstream pipelines of the valve shall be properly prepared. The front and rear pipelines shall be coaxial, and the sealing faces of the two flanges shall be parallel.
- 2.The pipeline shall be capable of bearing the weight of the valve; otherwise, appropriate supports must be installed on the pipeline.
- 3.Pneumatic valves can be installed on pipelines at any angle. To facilitate maintenance, inverted installation is not recommended.

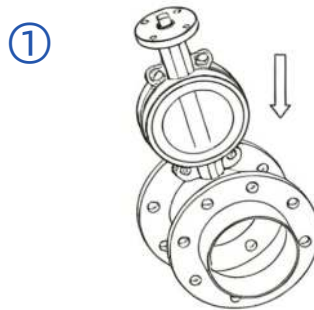
■ Installation Procedures of Pneumatic Valves

- Place the valve between the two mounting flanges;

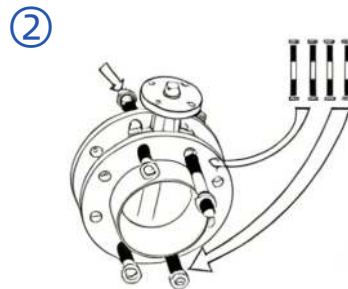
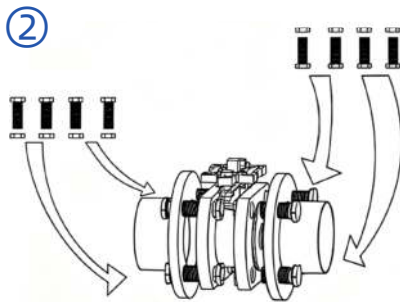
Pneumatic Ball Valve



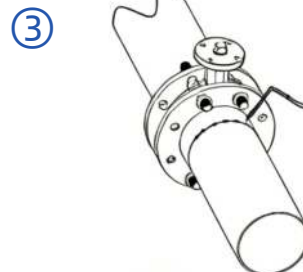
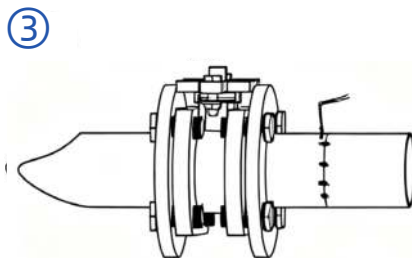
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- Insert the bolts gently into the flange holes and slightly tighten the nuts to correct the flatness of the flange surfaces;

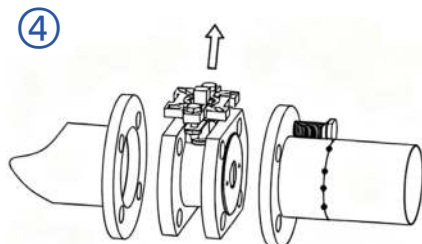


- Fix the flanges to the pipeline by spot welding;

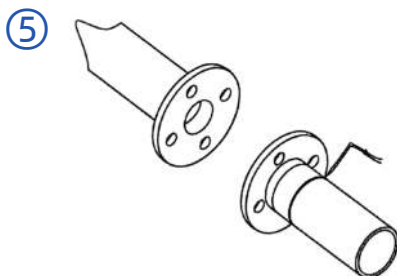


Pneumatic Ball Valve

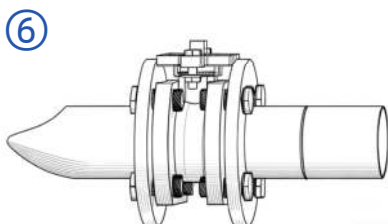
- Remove the valve;



- Fully weld and fix the flanges to the pipeline;



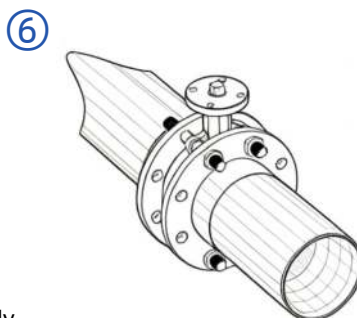
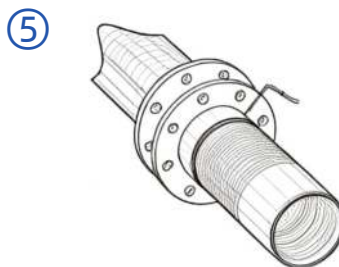
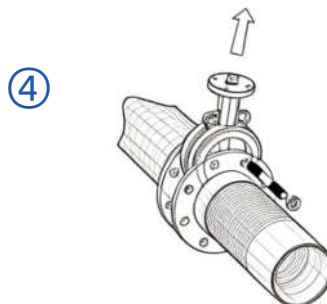
- Reinstall the valve after the weld joints have cooled, ensuring sufficient clearance in the flanges to prevent valve damage; align the valve position and tighten the bolts; tighten all nuts in a crisscross and balanced manner.



- Ensure the valve can open and close freely.

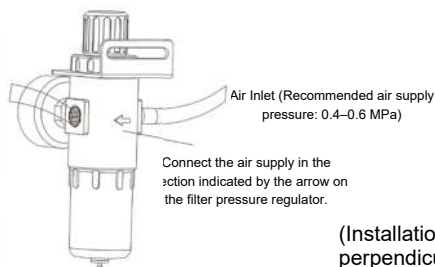
The opening/closing stroke of the control mechanism of pneumatic valves has been pre-adjusted at the factory. It can be put into service by direct wiring if no special stroke requirements are needed.

Pneumatic Butterfly Valve



Accessory Instructions

■ Operating Instructions and Usage Method of Filter Regulator



(Installation direction shall be perpendicular to the ground.)

Instructions for Use

The filter regulator is used on pneumatic control valves to receive air supply pressure from the main air pipeline (drainage recommended once a week). It reduces the pressure to the set value and supplies stable air pressure to the positioner or other related devices. (Inert gas is recommended for the air supply.)

Operation Method

Before supplying pressure, fully turn the adjusting screw counterclockwise to ensure the adjusting spring is free of load.

Install a pressure gauge at the pressure gauge port or the air outlet. This gauge indicates the output pressure after the inlet air pressure is reduced by the regulator.

Block the outlet and pressure gauge port with a ball valve or similar fitting, then supply air pressure through the inlet port.

Manually adjust the adjusting screw until the outlet pressure rises to the set pressure. Stop turning the screw and tighten the lock nut.

■ Common Faults and Solutions of Pneumatic Control Valve

Common Faults	Solutions
Ball valve blocked.	Remove debris, clean valve cavity.
Flange seal leaks.	Replace gasket, tighten flange bolts (evenly).
Packing leaks.	Replace packing correctly.
Valve core leaks.	Check and replace seat seal.

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