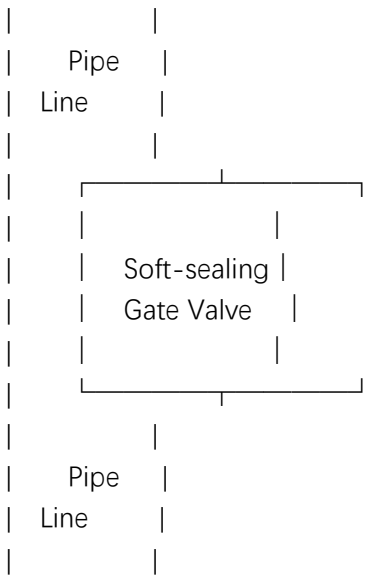
The following is the relevant introduction of the soft-sealing gate valve:

Product Introduction

The soft-sealing gate valve is usually composed of components such as the valve body, valve cover, gate plate, valve stem, and sealing pair. The valve body and valve cover are generally made of materials such as cast iron, ductile iron, or cast steel, which have good strength and corrosion resistance. The gate plate is made by welding or casting steel plates, and its surface is covered with soft sealing materials such as rubber, which can achieve good sealing performance. The valve stem is usually made of stainless steel, which has high strength and corrosion resistance and is used to drive the lifting of the gate plate. The soft-sealing gate valve drives the gate plate to move up and down through the valve stem to realize the opening and closing of the valve, thereby controlling the on-off of the fluid in the pipeline.

Typical Installation Schematic Diagram

plaintext



When installing the soft-sealing gate valve, the following points need to be noted:

- The valve should be installed in a position that is easy to operate and maintain, and avoid installing it in the dead corners of the pipeline or in places that are difficult to access.
- Before installation, check whether the model and specification of the valve match the pipeline system, and whether the sealing surface of the valve is intact.
- The installation direction of the valve should be consistent with the flow direction of the fluid in the pipeline. Usually, there will be an arrow on the valve body of the valve indicating the flow direction.
- When installing, ensure that the valve is firmly connected to the pipeline, and there should be no looseness or leakage.

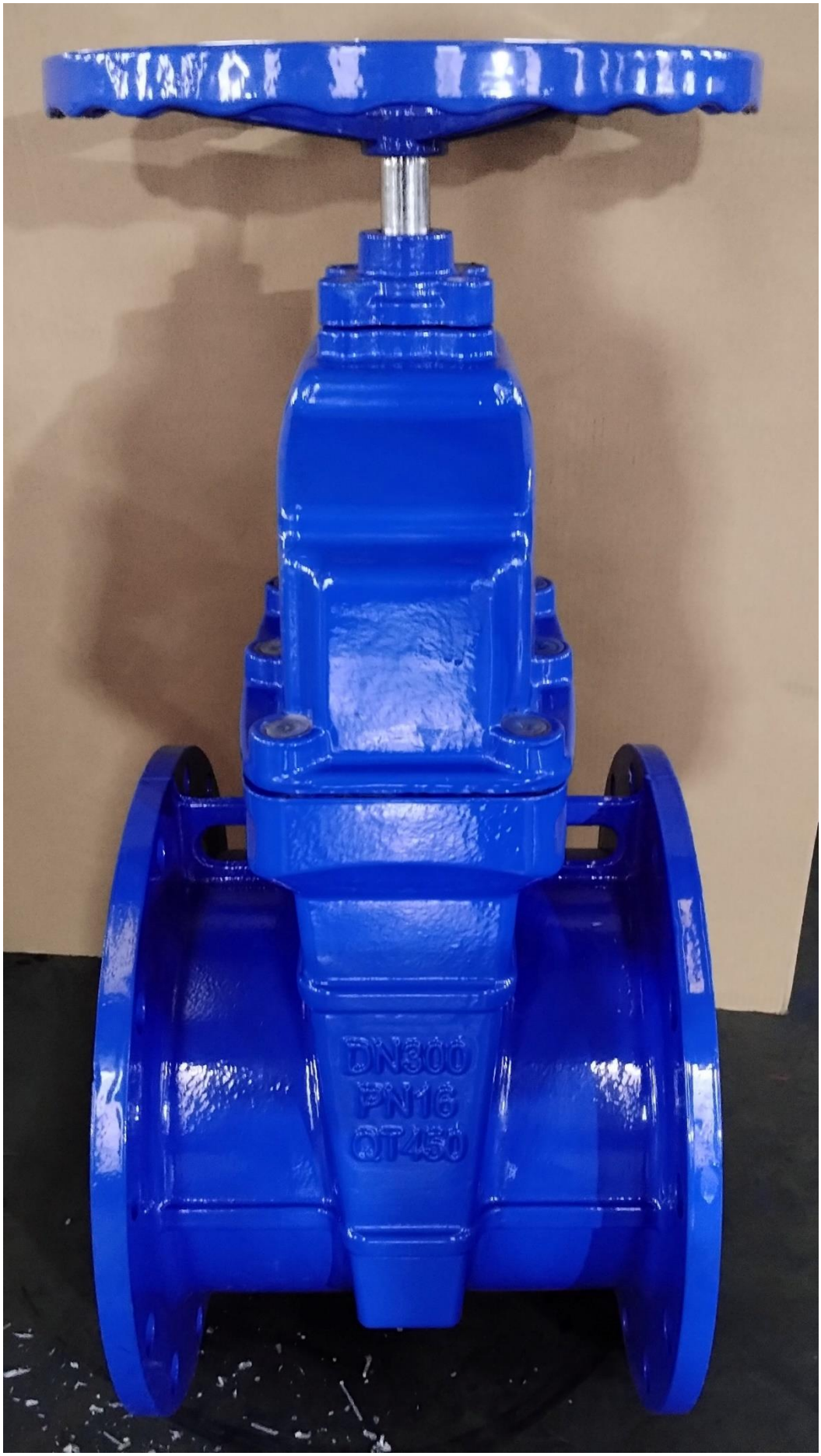
Maintenance and Troubleshooting

- **Maintenance**

    - Regularly check the sealing performance of the valve. If leakage is found, repair or replace the sealing parts in a timely manner.
    - Regularly lubricate the moving parts of the valve such as the valve stem and nut to ensure their flexible rotation.
    - Check whether the connecting bolts of the valve are loose, and if so, tighten them in a timely manner.
    - Regularly clean the dirt and impurities on the surface of the valve to keep the valve clean.
- **Troubleshooting**
    - **Leakage still occurs after the valve is closed**: It may be that the sealing surface is damaged, there are impurities stuck, or the gate plate is not fully closed. The solution is to clean the impurities on the sealing surface, repair or replace the damaged sealing surface, and check and adjust the closing position of the gate plate.
    - **Difficulty in opening the valve**: It may be that the valve stem is rusted, the lubrication is poor, the valve is stuck, or the packing is pressed too tightly. The treatment method is to remove the rust and lubricate the valve stem, clean the foreign objects that are blocking the valve, and appropriately adjust the tightness of the packing.
    - **The valve does not close tightly**: In addition to the problem of the sealing surface, it may also be that the gate plate is deformed or the valve is installed improperly. It is necessary to check the shape of the gate plate and repair or replace it, and recheck the installation of the valve to ensure correct installation.

Performance Characteristics

- **Good sealing performance**: The soft sealing material fits closely with the gate plate, which can effectively prevent the leakage of the medium, and the sealing performance is reliable.
- **Small opening torque**: Due to the small friction between the gate plate and the valve seat of the soft-sealing gate valve, the torque required to open the valve is small, and the operation is more labor-saving.
- **Strong corrosion resistance**: The valve body, valve stem and other components are made of corrosion-resistant materials, which can adapt to different working media and environments and extend the service life of the valve.
- **Large flow capacity**: The passage design of the valve is relatively smooth, the fluid resistance is small, and it can ensure a large flow rate to pass through.
- **Long service life**: The soft sealing material has good wear resistance and aging resistance. Coupled with a reasonable structural design, the soft-sealing gate valve has a long service life.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