

Shengli Oilfield R&T Group

A comprehensive industrial group integrated of R&D, design, and manufacturing. R&T Group insists on the business principle of "To Create More value for The Customers."

Contacts:

Tel: +86 546 7775669

Fax: +86 546 7775669

E-mail: marketing@rtpetro.com

Add: No. 1, Tai'er Zhuang Road, Hi-tech Industrial Development Zone,
Dongying, Shandong, China



Oilfield Globe Valve

1. Material: WCB、 WC6 、 WC9、 A105、 F11、 CF8、 CF8M
2. Working pressure: CLASS150-CLASS900
3. Nominal diameter: DN50-DN300
4. Temperature : -196°C-650°C
5. Connection type: flange , weld, thread
6. Suitable medium: water, oil, gas



The structure of globe valve is simpler than that of gate valve, and both its manufacturing and maintenance are relatively convenient.

The seal surface is not easy to wear and gall and has sound sealing performance. When being opened and closed, there is no relative slip between the valve flap and the seal surface of the valve, thus both the wear and gall are not severe and it has sound sealing performance and long service life.

When being opened and closed, the travel distance of the valve flap is small, thus the globe valve height is smaller than that of gate valve while the structure length is longer than that of gate valve.

Globe Valve Manufacturer

- When being opened and closed, the force torsion is large and it is laborious to open and close, and the time of opening and closing is relatively long. The fluid resistance is big because the medium channel in the valve is relatively tortuous. The fluid resistance and the power consumption are big.
- When the nominal pressure of the medium flow direction $P_N \leq 16\text{MPa}$, downstream flowing is usually adopted and the medium flows upward from downward direction of the valve flap; when the nominal pressure $P_N \geq 20\text{MPa}$, upstream flowing is usually adopted, and the medium flows downward from the upper direction of the valve flap. When being used, the globe valve medium could only flow in a single direction and the flow direction could not be changed.
- The globe valve stem axis of the valve is perpendicular to the seal surface of valve seat. The opening or closing travel distance of the valve stem is relatively short and also it has the very reliable turning off action which enables this kind of valve to be suitable for turning off the medium or functioning as adjustment and throttling.

Advantages of Globe Valve

- 1. The structure of globe valve is more simple than the sluice valve, and it is convenient to manufacture and maintain.
- 2. The sealing surface is not easy to wear and abrade and it has a good sealing. There is no relative sliding between the valve flap and valve sealing surface during opening and closing. Therefore the wearing and abrasion are not serious, the sealing performance is good and the service life is long.
- 3. During opening and closing, the valve stroke is small, so the height of globe valve is smaller than that of the sluice valve, but the structure length is longer than that of the sluice valve.
- 4. The opening and closing torque are large so it is laboursome and takes more time to open and close the globe valve.
- 5. The fluid resistance is large because the medium channel is quite tortuous, the fluid resistance is large and the power consumption is large.
- 6. When the nominal pressure of medium flow direction $PN \leq 16\text{MPa}$, generally the downstream is adopted, and the media flows upward from the valve flap; when the nominal pressure $PN \geq 20\text{MPa}$, counter-current is the common, and the media flows down from the flap to increase the seal performance. When used, the globe valve medium can only flow in one direction, and can not change the flow direction.
- 7. When the valve is fully opened, it is often being eroded.
- The valve stem axis of globe valve is perpendicular to the valve seat sealing surface. The distance of stem opening or closing is relatively short and has a very reliable cut-off action, which makes this valve suitable to cut or adjust and throttle a medium.

What Are Globe Valves Used For

- It is mainly used in hot water supply and high-pressure steam pipelines but is not suitable for a medium with larger particles and viscosity. Regulating valves can play a role in regulating the flow rate. It is often used when there is no need to adjust the flow frequently.
- The usage is different according to different sorts:
- The lining fluorine globe valve is applicable to the chloroazotic acid of a wide range of concentrations, sulfuric acid, hydrochloric acid, hydrochloric acid, and various organic acids, strong acid, and strong antioxidants pipelines from -50 to 150°C. It also applies to strong base organic solvents of various concentrations as well as other corrosive gases, liquid medium pipelines.
- As a kind of small-caliber instrumentation valves, the needle valve plays an important role in opening and closing, and accurate flow control in the instrument measuring piping system, and mainly has the power station instrument series, the oil field dedicated series, the American standard series and so on.
- Low-temperature globe valves usually refer to the valves that work at a temperature below -110°C, and it is widely used in liquefied natural gas, liquefied petroleum gas, and other cryogenic industries.
- The plunger valve is also known as the plunger valve, whose sealing surface adopts the radial seal structure. The two elastic sealing rings in a polished plunger compress the elastic sealing ring around the plunger through the load put by the connecting bolt of the valve body and the valve deck to realize seal.
- The oxygen dedicated valve is used in the oxygen pipeline, with the best explosion-proof and flame-retardant performance. It eliminates the unsafe factors of the pipeline of oxygen, and it is widely used in the pipe network of projects which needs to use oxygen such as steel, metallurgy, petrochemical and chemical engineering.
- The bellows globe valve is designed as forming stainless steel bellows, and it has been in reciprocating test for 10000 times without failure. The sealing performance is reliable, and it is applicable to industry and mining of inflammable, explosive, toxic and harmful media, and it can effectively prevent the leakage of the valve.

Thanks for your time!

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- Company: [Shengli Oilfield R&T Group](#)

