

45° Elbow



Describe

The 45° elbow is a commonly used fitting in piping systems, designed to change the direction of the pipe by 45 degrees. It is ideal for situations that require a gentler turn, allowing smooth fluid flow while reducing friction and pressure loss. Due to its moderate angle, the 45° elbow is suitable for most fluid piping systems and is widely used in industries such as petroleum, chemical, electricity, construction, and water supply and drainage.

Product Features

- Angle design: The 45° bending angle can effectively change the flow direction of the fluid. Compared with the 90° elbow, the fluid friction loss is smaller, the pressure loss is lower, and the energy loss of the system is reduced.
- Wide applicability: It is suitable for a variety of pipeline connections, such as oil, natural gas, chemical, HVAC, water supply systems and other fields, especially in the pipeline layout that requires a certain angle of turning, it has strong adaptability.
- Multiple materials: 45° elbows of different materials can be selected according to different conditions such as the medium, temperature, and pressure of the pipeline, such as carbon steel, stainless steel, alloy steel, plastic, etc.
- High pressure resistance and corrosion resistance: Made of high-strength materials, it has excellent pressure resistance and corrosion resistance, and is suitable for high temperature, high pressure and corrosive media environments.
- Multiple connection methods: The 45° elbow can provide different connection methods, including welding, threading, flange connection, etc., to ensure tight connection and stability with the pipeline system.
- Easy to install: Due to its simple design, the 45° elbow is easy to install and disassemble, and can be used for various pipeline installation and maintenance work.

Technical parameters

Material	Carbon steel, stainless steel, alloy steel, copper, aluminum, plastic, etc.
Specification	DN15 ~ DN1200 (1/2" ~ 48") or customized according to customer needs
Pressure level	PN6 ~ PN250
Connection	Butt welding, threaded connection, flange connection, socket connection, etc.
Temperature range	-50°C ~ 450°C (specific temperature range varies according to material and application)
standard	Conforms to GB, ANSI, DIN, JIS and other international standards.