

## Pipe bending



### Describe

The elbow (or elbow pipe) is a crucial fitting used to change the direction of fluid flow in a piping system. It allows pipes to bend and connect different sections, optimizing the layout and ensuring smooth fluid movement. Elbows are categorized by bending angle, radius, material, and size, with common angles being 45°, 90°, and 180°. They are widely used in industries like petroleum, chemicals, power, construction, water supply, and drainage.

### Product Features

- Change the flow direction: Elbows guide fluid from one direction to another, saving space and eliminating the need for additional equipment in complex layouts.
- Multiple angles: Common angles like 45°, 90°, and 180° can be selected based on the pipeline's design requirements.
- Multiple radii: Standard and long radius elbows, with long radius elbows reducing flow resistance, are ideal for large flow, low pressure loss systems.
- High strength & pressure resistance: Made from high-strength materials, elbows withstand high pressure and temperature, suitable for demanding industrial systems.
- Strong adaptability: Available in various materials (stainless steel, carbon steel, plastic), sizes, pressure ratings, and connection types (welding, flanges, threads) to meet diverse needs.
- Fluid flow optimization: Designed to reduce friction, optimize fluid flow, and lower energy consumption by adjusting the angle and radius.

### Technical parameters

Material	Carbon steel, stainless steel, alloy steel, plastic, copper, etc.
Specification	DN15 ~ DN1200 (1/2" ~ 48"), can be customized according to customer requirements
Bending Angle	Common angles such as 45°, 90°, 180°, and other angles can also be customized according to needs
Pressure level	PN6 ~ PN250 (select according to material and working conditions)
radius	Standard and long radius elbows
Connection	Welding, threaded connection, flange connection, socket connection, etc.
Temperature range	°50°C ~ 450°C, the specific temperature range depends on the material and working conditions

- Packaging: According to the specifications and quantity of the elbow, wooden boxes, pallets, bubble films, etc. are usually used for packaging to ensure that the product is not damaged during transportation.