

Metal hose



Describe

Metal hoses are flexible pipe components made from materials like stainless steel or alloy steel, known for their high temperature, pressure, and corrosion resistance. They consist of multi-layer bellows, braided mesh, and sealing rings. Metal hoses are used in pipelines for connection, compensation, sealing, shock absorption, and protection. Their main function is to absorb displacement and vibration, making them ideal for tough conditions such as high temperature, pressure, and corrosion. They are widely used in industries like petrochemical, steel metallurgy, electric power, aerospace, and automobiles.

Product Features

- **Excellent Flexibility and Elasticity:** The bellows structure absorbs pipeline expansion, contraction, and vibration due to temperature changes, allowing for axial, lateral, and angular displacements.
- **High Temperature Resistance:** Metal hoses can withstand extreme temperatures, typically from -196°C to 800°C, making them suitable for both high and low temperature environments.
- **Corrosion Resistance:** Made from materials like stainless steel and alloy steel, metal hoses resist corrosion from chemicals such as acids, alkalis, and salts, ideal for transporting corrosive gases and liquids.
- **Pressure Resistance:** They can endure high internal and external pressures, making them perfect for high-pressure applications.
- **Shock and Noise Reduction:** The elasticity and flexibility of metal hoses help absorb vibrations and reduce mechanical noise, ensuring stable equipment operation.
- **Anti-aging and Wear Resistance:** They are durable, resistant to aging, and can handle long-term use without deformation or damage.
- **Flexible Installation:** Due to their excellent bendability, metal hoses are easy to install in confined spaces or complex environments.

Technical parameters

Material	Stainless steel (304, 316, 316L, etc.), alloy steel, copper, aluminum, etc.
Specification	DN6 ~ DN3000, customized according to customer requirements
Pressure level	PN6 ~ PN250, the specific pressure level is selected according to the use requirements
Temperature range	-196°C ~ 800°C (Specific range depends on the selected material and design)
Wall thickness	Usually 0.2mm ~ 1mm, customized according to pressure and temperature requirements
Connection	Flange connection, threaded connection, clamp connection, welding, etc.
Structural form	Single bellows, double bellows, braided mesh enhanced type, etc.