Engine Cast Iron Bracket Three-way Water Pipe Tee Connector

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Model Number: 1303015-K44L0
- Minimum Order Quantity: 100 piece
- Packaging Details: Wooden box packaging
- Delivery Time: Spot goods
- Payment Terms: T/T
- Supply Ability: Annual production of 500000 pieces

Product Specification

- Compressive Strength: High
- Weather Resistance: Yes
- Warranty: 1 Year
- Compatibility: Fits Most Engines
- Surface Finish: Smooth
- Function: Vibration Damping
- Installation Method: Bolt-on
- Vibration Resistance: Yes
- Heat Resistance: Yes
- Machinability: Easy
- Type: Silicone Oil Shock Absorber
- Corrosion Resistance: Yes
- Color: Black
- Tensile Strength: High
- Cost: Affordable

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Product Description

The engine three-way water pipe is an important part of the automobile engine cooling system and is responsible for the transportation and distribution of coolant. It connects the engine water pump, radiator, heater and other components to ensure that the engine maintains a suitable operating temperature during operation. This article will provide an in-depth introduction to the structure, function, manufacturing process and application of the engine tee water pipe in the automotive field.
Structure and function:
Engine tee water pipes are usually made of metal materials (such as aluminum alloy or steel), which have high strength and corrosion resistance. Its structure is Y-shaped or T-shaped, with one end connected to the engine water pump, and the other end connected to the radiator and heater, thus forming a closed cycle of the engine cooling system.
Its main functions include:
Distribution of coolant: The engine's three-way water pipe transports the coolant from the water pump to the radiator, and dissipates the heat in the coolant to the outside air through the radiator, which plays a cooling role.
Heat control: When the engine is working, the flow direction and speed of the coolant need to be adjusted according to temperature changes. The engine three-way water pipe achieves heat control through a reasonably designed structure and valves to ensure that the engine maintains appropriate operation under various working conditions. temperature.
Heating function: In cold climate conditions, the engine's three-way water pipe can also guide coolant into the heater to provide heating for the car and improve driving comfort.
Manufacturing process:
Material selection: Engine tee water pipes are usually made of high-strength, corrosion-resistant metal materials, such as aluminum alloy or stainless steel. The selection of materials needs to consider their properties such as high temperature resistance, pressure resistance and corrosion resistance to ensure that they can still work normally under harsh working conditions.
Stamping: Usually, the stamping process is used in the manufacturing process of the engine tee water pipe. The metal sheet is first cut according to the design requirements, and then formed through a stamping die, and finally a tee water pipe with a specific shape and size is formed.
Welding and connections: The formed tee water pipe may need to be welded or connected to ensure its tightness and structural strength. Common connection methods include welding, threaded connection and flange connection.
Surface treatment: Finally, the engine tee water pipe may require surface treatment, such as spraying anti-corrosion paint or galvanizing, to enhance its corrosion resistance and aesthetics.
Applications in the automotive field:
As an important part of the automobile engine cooling system, the engine tee water pipe is widely used in various types of automobiles, including cars, trucks, buses, etc. They not only ensure the normal operation of the engine under high temperature conditions, but also improve the energy efficiency and driving comfort of the car.
In addition, with the continuous development of automobile technology, the engine tee water pipe is also constantly innovated and improved. For example, some high-end cars use electronically controlled constant temperature cooling systems to monitor the engine temperature in real time through sensors and adjust the flow direction and speed of the three-way water pipe to achieve more precise temperature control and improve engine efficiency and fuel economy.
Future outlook:
With the development of the automobile industry and technological advancement, the engine tee water pipe will continue to develop in a more efficient and smarter direction. In the future, it is expected that materials and designs that are lighter, more resistant to high temperatures, and more energy-saving will appear to adapt to the increasing performance and environmental protection requirements of automobile engines. At the same time, with the rise of new energy vehicles, the design and function of the engine tee water pipe will also face new challenges and opportunities, contributing to the sustainable development of the automotive industry.

Dongfeng (Shiyan) Torsional Damper Company Limited

gjh.8266@163.com dongfengtorsionaldamper.com

10th Floor, Building B, Donghe Center, Dongfeng 3rd Road, Wuhan Economic and Technological Development Zone, China