

rexroth cast iron gear pump

The Rexroth Cast Iron Gear Pump features a high-strength cast iron housing, a precision-toothed design, and adaptive clearance compensation technology. With key advantages such as high volumetric efficiency, low flow pulsation, vibration resistance, wear resistance, and strong adaptability to various operating conditions, it has firmly established itself as the industry benchmark for medium- and high-pressure hydraulic systems and is widely used in a variety of hydraulic applications, including industrial equipment, construction machinery, and agricultural machinery. Even the highest-quality original equipment requires proper daily maintenance to ensure long-term, stable performance. As a professional hydraulic solutions provider, Runhe has identified two key maintenance priorities based on the structural characteristics of the Rexroth Cast Iron Gear Pump, offering precise operation and maintenance solutions to ensure the equipment's long-term, stable operation.

1. Strictly control the cleanliness of the hydraulic fluid and perform oil changes regularly and in accordance with specifications. The precision gears and floating side plates of Rexroth cast-iron gear pumps have extremely tight clearances, making them highly sensitive to hydraulic fluid cleanliness. Even minute impurities in the fluid can cause wear on internal precision components, leading to increased internal leakage, reduced flow rate, and decreased operational efficiency—these are the primary causes of premature equipment aging and frequent failures. During routine maintenance, high-precision filtration devices must be installed as standard equipment. Regularly check the pressure differential across the filter elements and promptly replace clogged or aged filter elements to prevent contaminants from entering the pump at the source. At the same time, strictly adhere to the specific oil change standards; mixing different grades of hydraulic fluid is strictly prohibited. When changing the oil, thoroughly remove any accumulated water and sediment from the bottom of the reservoir. Proper fluid maintenance fully preserves the core advantages of Rexroth pumps—high-precision seals and low internal leakage—maintaining a volumetric efficiency of over 95% over the long term and ensuring continuous and stable power output from the equipment.

2. Monitor operating conditions regularly and follow proper equipment operating procedures. Thanks to high-quality cast iron and precision German manufacturing processes, Rexroth cast iron gear pumps can easily handle wide temperature ranges, heavy loads, and prolonged continuous operation. However, prolonged exposure to excessive temperatures, overpressure, dry running, and abnormal vibrations will still accelerate seal aging and structural fatigue damage, thereby shortening the equipment's service life. During daily use, regularly monitor the pump's operating status and maintain the operating temperature below 60°C to prevent seal failure and performance degradation caused by high temperatures. Strictly prohibit improper operations such as overpressure, heavy loads, and prolonged dry running. Periodically inspect the suction lines and connecting bolts to promptly identify and address potential hazards—such as vibration and abnormal noises—caused by air ingress in the lines or loose bolts. By leveraging the excellent vibration-damping and durability properties of cast iron, combined with standardized operating conditions, various types of structural damage can be effectively prevented, fully utilizing the Rexroth pump's product advantages of heavy-duty stability and long-lasting durability.

Rexroth data sheets

bosch Rexroth spec sheet

Rexroth r900968999 pump

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