rexroth cast iron gear pump

The is a high-quality positive-displacement hydraulic power component from a renowned German brand. Constructed from high-strength cast iron, it features a compact design and offers high-pRexroth cast iron gear pumpressure resistance and wear resistance. Widely used in various fields such as construction vehicles, agricultural machinery, industrial automation, and port and marine applications, it serves as a core power component in hydraulic systems. Its operational stability directly impacts the overall efficiency of the hydraulic system; understanding common faults and repair methods can effectively extend the product's service life and reduce maintenance costs. As a premier supplier of Rexroth cast iron gear pumps, Runhe Hydraulics has compiled a list of common faults and professional repair methods based on years of industry experience, providing customers with comprehensive technical support throughout the entire process.

Common faults in Rexroth cast iron gear pumps are primarily divided into two categories, each with distinct symptoms that allow for rapid troubleshooting and diagnosis. The first category involves leakage, primarily manifested as oil seepage from the exterior of the pump body, dripping at connection points, or a drop in hydraulic system pressure and insufficient flow. Such faults are often caused by aging or worn seals, loose bolts at the pump body mating surfaces, or excessive clearance resulting from wear on the gears or bushings. Seal aging is the most common cause; after prolonged use, seals lose their elasticity and can no longer effectively contain hydraulic fluid. Loose bolts create gaps at the pump housing joints, leading to oil seepage. Wear on gears and bushings increases internal clearances, resulting in greater hydraulic fluid leakage, accompanied by drops in pressure and flow rate.

For leakage issues, repair methods must be precisely tailored to the cause. If the problem is due to aging or wear of the seals, the pump housing must be disassembled and the original manufacturer's seals replaced. Before replacement, contaminants must be removed from the sealing surfaces to ensure they are flat. During installation, bolts must be tightened evenly to prevent uneven stress on the seals. If the problem is caused by loose bolts, tighten them to the specified torque and inspect the tightness of the bolts regularly to prevent them from loosening again. If the issue is wear on gears or bushings, the pump housing must be disassembled to inspect the extent of wear. Minor wear can be repaired by grinding, while severe wear requires replacement with original equipment manufacturer (OEM) gears and bushings. After replacement, a pressure test must be conducted to ensure there are no leaks.

The second category involves operational abnormalities, primarily manifested as unusual noises from the pump housing, excessive vibration, failure to start, or abnormal rotational speed. Unusual noises are often caused by excessive gear meshing clearance, bearing wear, contaminated hydraulic oil, or insufficient oil levels; excessive vibration is typically related to loose installation or gear imbalance; failure to start or abnormal rotational speed is usually caused by a seized drive shaft, motor failure, or hydraulic oil with incorrect viscosity or excessively low temperature.

Repairs for operational abnormalities must be performed in a step-by-step manner to ensure safety and efficiency. If unusual noises occur, first check the hydraulic oil level and cleanliness. If the oil level is low, top up with standard-compliant hydraulic oil; if the oil is contaminated, replace it immediately and clean the filter. If the gear meshing clearance is too large or the bearings are worn, disassemble the pump housing for repair or replace with genuine parts; If excessive vibration occurs, inspect the mounting and fastening conditions, retighten the mounting bolts, and adjust the pump's levelness; if the pump fails to start or exhibits abnormal rotational

speed, check whether the drive shaft is jammed and whether the motor is functioning properly, while also verifying the hydraulic oil's viscosity and temperature. In winter, preheat the hydraulic oil to ensure its flowability meets requirements. Runhe Hydraulics provides professional repair guidance to help customers quickly resolve various faults and minimize downtime losses.

When selecting a Rexroth cast iron gear pump, high-quality products and professional maintenance support are equally essential. As a professional manufacturer of hydraulic system solutions, Runhe Hydraulics offers a full range of genuine Rexroth cast iron gear pumps and provides customers with end-to-end services, including troubleshooting, maintenance guidance, and parts replacement.

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