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The impact mechanism of the hydraulic rock drill is mainly composed of cylinder body, impact piston, reversing valve, and high pressure accumulator [7]. The impact piston and the ...

Abstract In response to the issues of overheating of the shell and insufficient impact energy of the hydraulic rock drill, this paper focuses on the hydraulic rock drill with alternating front and rear ...

This, however, has no effect on the valve, as the air in the inlet m holds the valve to the buffer t. the opposite reversing-port is open to the space around the piston, so that the air can escape ...

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A technology for hydraulic rock drills and reversing valves, which is applied to mechanical equipment, reciprocating drilling rigs, fluid pressure actuators, etc., and can solve problems ...

Embodiment Construction [0008] like figure 1 As shown, the present invention is a rock drill punch pressure-controlled automatic reversing working device, and its impact mechanism 3 is ...

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For the phenomenon of a hydraulic rock drill based on an underlapped reversing valve, the mechanical structure of the overlapped reversing form was ...

VALVITALIA a major Group operating at the global level in the field of the design, production and supply of equipment and components intended for the energy, marine and civil industries. The ...

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As the key part of the hydraulic rock drill, hydraulic impact mechanism transfers the power and its

performance directly influences the overall performance of rock drill [3]. A single ...

the first embodiment of the signal oil output structure of the impact cylinder of the hydraulic rock drill of the present invention includes an impact cylinder and a reversing valve 5, and the ...

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The inner mechanism experiment of the hydraulic rock drill was designed to test the pressure characteristic curves in the piston of the front-rear chamber and in the reversing valve of the ...

In the production and manufacturing process of hydraulic rock drill, there are small impact energy and low impact frequency, and a fault diagnosis ...

Then, the influence of the structure of the reversing valve and the damping system on the impact performance of rock drill was simulated and analyzed. In ...

Hydraulic rock drill is the development core of a modern hydraulic drill rig, which is widely used in mining, tunnel, and building industry, and its performance determined the ...

According to valve structures, hydraulic rock drills are categorized into two: with a sleeve valve and with a core valve. A hydraulic rock drill with a sleeve valve is characterized ...

Shu et al. [5] proposed a mathematical model based on the theory of hydraulic oil volume compression; a joint analysis of the impact reversing system was carried out, but the opening of the reversing ...

The invention discloses a landing leg type rock drill and a reversing operating mechanism for the landing leg type rock drill. The reversing operating mechanism comprises a handle, a pressure ...

For the phenomenon of a hydraulic rock drill based on an underlapped reversing valve, the mechanical structure of the overlapped reversing form was proposed, which affected the ...

The utility model discloses an external reversing device for a high-speed rock drilling percussion drill, which comprises a cylinder body, wherein a piston cavity is arranged in the cylinder body, ...

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Rock drill reversing valve Italy

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Impact System Dynamic Characteristics of Hydraulic Rock Drill Based on an Overlapped Reversing Valve by Yelin Li, Youxin Luo, Xiao Wu published in

Then, the influence of the structure of the reversing valve and the damping system on the impact performance of rock drill was simulated and analyzed. In the above research results, there are ...

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