

The emulsion pump has been widely used since its working fluid, the emulsion, is cheap, fireproof and low sensitive to contamination besides all the hydraulic advantages aforementioned. Consequently, ...

Combined with the specific working face, this study analysed whether a single pump is equipped with an accumulator and the influence of the relevant parameters of the accumulator on the stable liquid ...

The fluid supply system of full-mechanized coal mining face consists of emulsion pump station, accumulator station, fuel tank, fluid supply and return pipeline and its accessories, etc.

The test system for emulsion pump is facing serious challenges due to its huge energy consumption and waste nowadays. To settle this energy issue, a novel energy regenerative system ...

For improving the stability of the liquid supply, the pulsation of pressure and flow, and the hydraulic impact in the operation of the emulsion pump station, a simulation model is established to analyze the ...

Current approaches and techniques for analyzing pump performance handling emulsion and two-phase liquid-liquid flow are reviewed thoroughly. The limitations of the existing models are ...

The emulsion pump station equipped with an accumulator station which is composed of eight accumulators in parallel, the volume of each accumulator is 63 L and the inflation pressure is ...

The emulsion pumping station consists of one emulsion tank and two emulsion pumps, each of which is driven by a frequency converter and equipped with unloading valves and accumulators.

system to reduce the pressure fluctuation, and the other is to improve the fluid supply quality of the emulsion pump station by the intelligent control algorithm. Among them, there were many studies on ...

An optimization method based on accumulator theory research and engineering practice is proposed to reduce noise and extending the service life of multiple components and promote safe and efficient ...

Can emulsion pump station control the fluid supply system at the working face? The control method of emulsion pump station in the fluid supply system of the working face is the key to realize the stable ...

