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EXPERIMENTAL EVALUATION OF EFFECTIVENESS OF LIP SEAL OF CYLINDER-PISTON GROUP OF LONG-STROKE COMPRESSOR STAGE

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In slow-moving compressor stages the piston-cylinder seal is one of the most critical components affecting the tightness of the working chamber. In the present work, conditional clearances in the lip seal of low-speed compressor stages are determined by the method of static blowing. A comparative assessment of the leak-tightness of the piston-cylinder seal with a different number of cuffs and different wall temperatures is carried out.

Keywords: long stroke piston compressor; lip seal, conditional clearance, gas leaks, tightness of the working chamber.

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