THE INFLUENCE ON THE STUFFING BOX OF THE FORCES GENERATED BY PACKING THERMAL EXPANSION

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ABSTRACT
This paper introduces a test device and a protocol that simulates a stuffing box to evaluate the packing expansion under different temperatures. This test device enables the measurement of axial forces at the bottom of the stuffing box and at the gland follower, the torque generated upon shaft turning and the influence of the thermal expansion on these measurements. It also enables comparisons between different braiding yarns materials such as e-PTFE, e-PTFE with fillers, Flexible Graphite and others. Test results showing these comparisons and correlations are reported.

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