

PVP 2011

2012 Pressure Vessels & Piping Conference

Pressure Vessel Technologies - A Look Ahead into the Next Decade



July 17 - 21, 2011

Baltimore Marriot Waterfront Hotel

Baltimore, Maryland, USA

Proceedings of the ASME 2012 Pressure Vessel and Piping Division Conference

PVP2011

July 17-21, 2011, Baltimore, Maryland, USA

PVP2011-57751

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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