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THE INFLUENCE OF DIFFERENT BRAIDED PACKING MATERIALS AND NUMBER OF RINGS ON STEM TORQUE AND SELABILITY

JOSÉ C. VEIGA
CARLOS D. GIRÃO
CARLOS F. CIPOLATTI
Teadit Indústria e Comercio Ltda.
Rio de Janeiro, RJ, Brazil

ABSTRACT

This paper introduces a test device and a protocol that simulates packing performance in different size valve stuffing boxes and stems. This test device enables measurement of braided packing compression, relaxation, axial force at the bottom of the stuffing box, the torque generated upon stem turning and the influence of the number of packing rings on stem torque. It also enables comparisons between different braiding yarns materials, impregnations and correlations with seating stress, stem torque and sealability. Test results showing these comparisons and correlations are reported.