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LAYFLAT GATES – ACCURACY CERTIFICATION

Nine different LayFlat gates, covering the full size range of gates, have been extensively tested in the full-scale FlowLab facility at Cohuna. 319 individual tests were undertaken, 176 under unsubmerged conditions and 143 under submerged conditions.

On the basis of these tests, an algorithm has been developed which links gate dimensions, indicated gate angle from a separate gate position indicator algorithm, upstream and downstream water surface elevations and flow rate. The algorithm has been extensively tested for consistency across the full range of LayFlat gate sizes and tests.

Under all conditions, the algorithm has been shown to be accurate to within $\pm 5\%$ at 95% confidence limits.



DR R J KELLER

10th July 2009