

MEMO

From: F. Baneyx
Subject: Orifice Characterization

Orifice meters are commonly used to measure flow rates and we would like to establish the accuracy of such measurements for orifices of various sizes and shapes. To this end, we have built a test station suitable for measuring flow rates and pressure drops through an orifice.

Your first objective is to see whether or not our facility can yield results for circular orifices and for square orifices. Compare your results with those of the literature (Perry's Handbook 8th Edition Fig. 10.15 and 10.16). We are particularly interested in pressure recovery and an analysis of the sources of error. Avoid using any taps that appear damaged.