

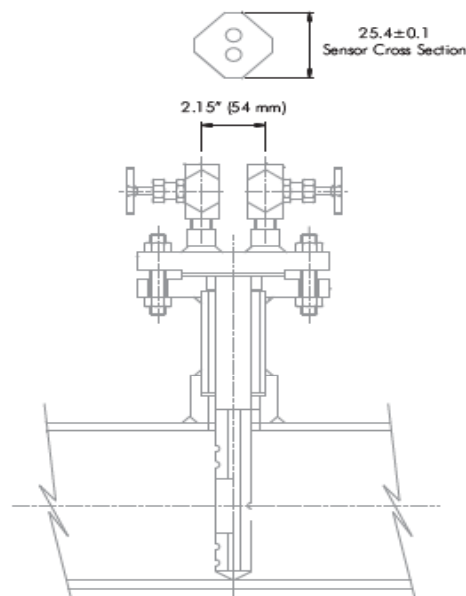
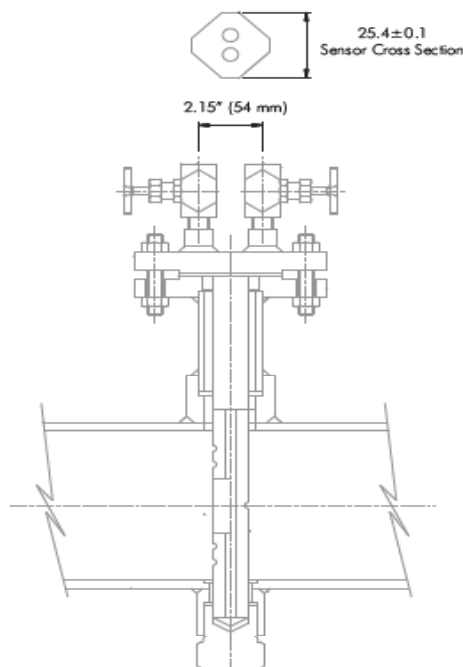
Averaging Pitot Tubes

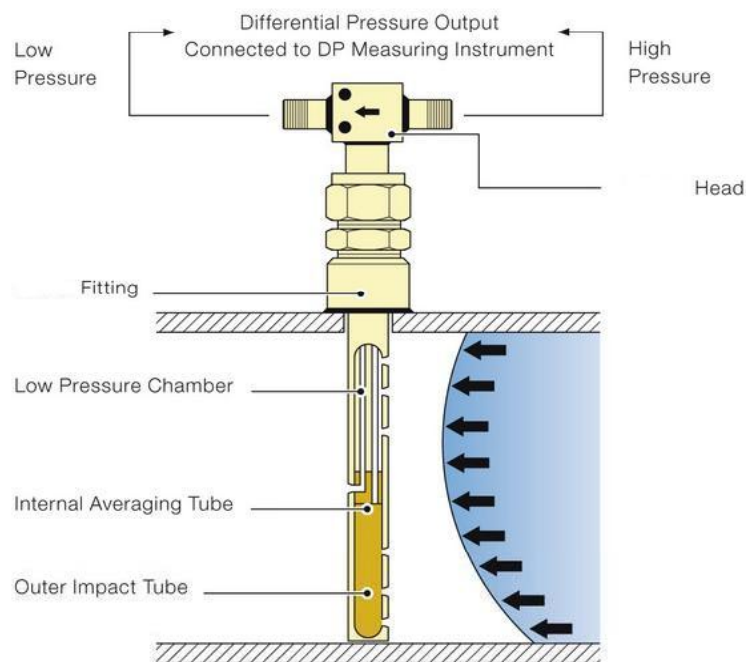


Averaging Pitot tube is a differential pressure producer suitable for liquid, gas and steam flow measurement. It offers simple, low cost installation into pipes and ducts, and high energy savings due to its low unrecovered pressure loss. There are no moving parts or sharp edges to wear, so long term accuracy can be maintained.

Features

- Unique profile shape enables high flow rate tam down.
- Dual averaging for better accuracy.
- Suitable for gas, liquid, steam flow measurement.
- Repeatability of measurement $\pm 0.1\%$
- Short Upstream and Downstream pipe lengths.
- Long term accuracy unaffected by wear.





The outer impact tube has a number of pressure sensing holes facing upstream which are positioned at equal annular points in accordance with a log-linear distribution. The 'total pressures' developed at each upstream hole by sum of the impact of the flowing medium and the static pressure are firstly averaged within the outer impact tube and then to a second order (and more accurately) averaged within the internal averaging tube. This pressure is represented at the head as the high pressure component of the DP output. The low pressure component is generated from a single sensing hole located on the downstream side of the outer impact tube, measuring static pressure.

