Subject: Steam Flow Measurement Device

Question:

PTC 6 recommends flow nozzles for the measurement of primary flow (para. 4.8.4) and nozzle, orifice and venturi for the measurement of secondary flow (para. 4.16).

Can the Average Pitot Tube/Annubar be used for primary or secondary steam flow measurement?

Answer:

No. Their uncertainty does not meet Code's requirements. See Tables 9.1 – 9.4 for the required uncertainties for flow measurement. The use of Pitot tubes or Annubars is permitted only for measuring minor flows such as those from the sealing steam system or valve leak-off.