

Rosemount 585M Product Specifications

Overview

The Product Specification Sheet defines the requirements for Averaging Pitot Tubes (APT) designed and manufactured for main steam flow applications in fossil fuel, gas, nuclear and cogeneration power plants.

Proven Reliability

This APT must be manufactured from solid bar stock with rugged mounting hardware that was designed to withstand the process conditions of a main steam line. There shall be no welds in the flow stream.

The APT manufacturer must have a minimum of 10 years of field experience in main steam line flow applications.

Vendor Requirements

- The manufacturer of the APT must be certified to ISO 9001.
- The vendor shall provide technical support for the APT.
- The vendor must have the ability supply a complete seismic report.
- The manufacturer of the APT must hold an ASME NPT stamp.

Instrument Specifications

DESIGN:

- The APT shall be designed and manufactured to the requirements of ASME B31.1.
- For destinations within the EU, the APT must meet the requirements of the Pressure Equipment Directive 97/23/EC (PED).
- The APT shall be designed for continuous operation at temperatures to 1200 °F (649 °C).
- The APT mounting fittings shall be capable of meeting the pressure/temperature requirements of supercritical steam piping at temperatures up to 1200 °F (material dependent).
- The APT mounting fittings shall be designed to include internal hardened bearing sleeves to minimize vibration of the APT.
- The APT shall be easily removable from the pipe for inspection/maintenance. A packing gland with retention mechanism shall be provided for this purpose.

MATERIALS:

- The APT shall be manufactured from a single piece of Alloy 800H or 800HT.
- The APT mounting fittings shall be available in Alloy Steel Grades 11, 22, and 91.

ACCURACY

- The APT uncalibrated flow coefficient shall have a documented accuracy of $\pm 1.5\%$ or better.
- The APT shall be capable of being calibrated to a flow coefficient accuracy of $\pm 0.5\%$ or better.
- The APT flow coefficient shall have a documented linear relationship to Reynolds numbers over the range of 1,000,000 to 30,000,000.

ACCESSORIES:

- The APT shall include the option of an installation alignment device.
- The APT shall include the option of a packing gland plug (for use when the APT is removed during maintenance).

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