

Wilson Flowgrids

Wilson Flowgrid

Description

Wilson Flow Grids are the most accurate flow grid type within the product range. They are supplied to suit rectangular or round ducts.

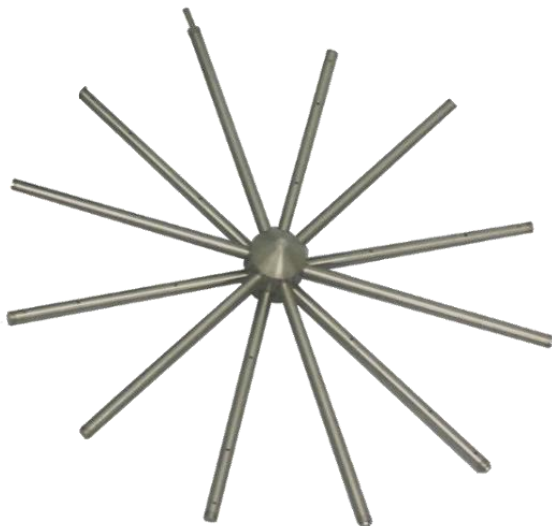
Wilson Flowgrids comprise of a number of tubes that span the whole duct area. Each tube has a number of flow sensing positions some of which face upstream and some downstream, hence the generation of the pressure differential. It is this vast array of sensing positions spanning the whole duct area that makes the Wilson Flowgrid the most accurate within the flowgrid range. By design all Wilson Flow Grids generate “enhanced” differential pressure signals.



Rectangular Flowgrids

Rectangular flowgrids are fabricated using two horizontal steel tubes and a number of vertical pressure sensing tubes which are bound together with Acetal plastic joints. The vertical tubes are positioned so that the pressure sensing ports in the tubes alternately face upstream and downstream. The two horizontal tubes then generate the averaged signal for both the upstream and downstream pressures, thus producing the differential pressure.

Radial Flowgrids



Radial flowgrids work in exactly the same way as rectangular flowgrids with the main difference between the two types being the method of fabrication.

Unlike rectangular Wilson Flowgrids, radial Flowgrids are a fully welded stainless steel construction. There are no plastic parts and so by default, are all high temperature graded, and compatible with some, but not all, chemical and harsh environments.

Wilson Flowgrids are Sensing Precisions most accurate flowgrid for the measurement and primary control of airflow. The differential pressure output signal directly relates to volume flow within the duct and when used with a pressure transmitter can be directly used to control volume flow accurately.

Wilson Flowgrids can be supplied pre-installed in a duct, and where turbulence is present, can also be supplied with a honeycomb flow straightener.

Specifications

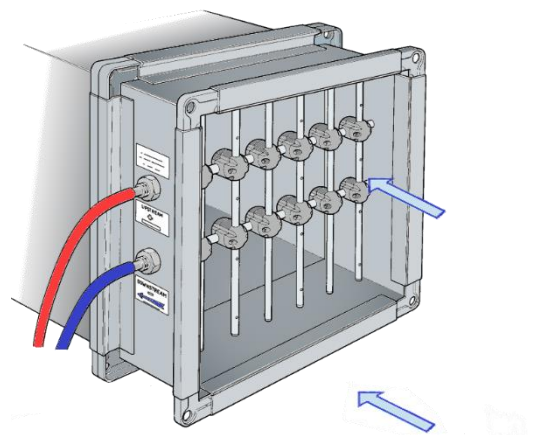
Standards	Complies with relevant BS, ISO & EPA Sections
Variations	Standard, High Temperature & Containment suitable systems
Sizes Rectangular Circular	Up to 3m ² Up to 2.5m Ø
Uncertainty of Flow Measurement	±2% or better from onsite calibration
Temperature Range Standard System High Temp System	80°C Max 850°C Max
Materials Standard System High Temp System	Stainless Steel with Acetal Plastic Joints Fully Stainless Steel
Special Systems	Polypropylene for harsh chemical environments. Grids designed for high temperature applications.
Available Extras	Ducting, Flanges, Scaled Transmitter, Flow Straighteners

Applications

- In Duct Air Velocity Measurement
- In Duct Air Volume Flow Measurement
- BMS Primary Control Systems
- In process control for industries like pharmaceutical and food manufacturing



Special Purpose Radial Flowgrid



Installation of Rectangular Flowgrid