



FLOW AROUND a BEND INVESTIGATION F100E



Year 1
study

Features

- Simple attachment to F100 base unit
- 90° bend, constant cross section

Description

The Optional Flow Round a Bend F100E investigation duct has been designed for operation with the Hilton Airflow System F100. The duct allows students to investigate the static pressure distribution on both the inside and outside radius of a 100mm x 50mm rectangular bend. There are also a series of four pressure tapping's arranged radially to allow investigation of secondary flow circulation within the duct. A 90 degree bend of constant cross section has air blown through it from the Airflow System F100. Along the inner and outer radius at strategic points, static pressure tapping points are located. When connected to the F100A the static pressure profile along the inner and outer radius of the bend may be measured at a range of air velocities.

Related Laws/Applications

- Flow around a Bend

Learning capabilities

- Investigation of flow around a bend

Technical Specification

- Four tapping's at 60, 70, 80 and 90mm radius
- 10 outer pressure tapping's
- 10 inner pressure tapping's
- Rectangular Bend: 100mm outside radius
- Rectangular Bend: 50mm inside radius

Essential Ancillaries

- F100
- F100A

What's in the Box?

- 1 x F100E
- 60m Plastic Hose
- 5 x Vinyl Closure
- Instruction manual
- Packing List
- Test sheet

Essential Services

- F100

Ordering information

To order this product, please call PA Hilton quoting the following code:
F100E

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COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 5 YEARS