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Product Name :
Flow In A Pipe Bend

Product Code :
LBNY-0005-10300019



Description :

Pressure measuring points are located in the region of the curvature on both sides: four on the left side and five on the right side. The pressure measuring points are connected to the tube manometers in via the hoses supplied. The experimental unit when used in the aerodynamics trainer, allows the measurement of the static pressure at 29 pressure measuring points along the pipe bend. The transparent pipe bend has a constant rectangular cross-section with 10 pressure measuring points each on the top and bottom. The static pressures can be read on the tube manometers. The pressure curve during a change in the flow direction is investigated using the example of a 90 pipe bend. When laying pipes it is essential that they are adapted to the circumstances of their environment, which means the pipes will necessarily include deflections in the form of bends. Changing the direction of flow in a pipe changes the pressure conditions.

Learning Objectives And Experiments:

Determination of the static pressure at 29 pressure measuring points
Representation of the pressure distribution
Investigation of the pressure curve at a 90 pipe bend.

Technical Specification :

Measurement of static pressure at 29 pressure measuring points along the bend
29 pressure measuring points: 4 on the left side and 5 on the right side, 10 on the top side and 10 on the bottom side
Determining the pressure conditions in flow through a pipe bend
Accessory for aerodynamics trainer
16 tube manometers of for displaying the pressures.



Laboratory Instrument India