

VFXP Series

Air Velocity Measurement Probe For Use With EP Series Differential Pressure/Air Velocity Transducer



Product Description

The VFXP Series probe is a differential air pressure device designed to measure air velocities in a duct. It includes multiple sensing points to measure total and static pressures. The VFXP Series incorporates a unique design to amplify the differential pressure by approximately 2.5 times for accurate measurement of lower air velocities down to 200 fpm. It is easy to install and cost effective.

Features

- Multiple sensing points for greater accuracy
- Easy installation
- Chamfered sensing points for consistent readings
- 2% accuracy
- 2.5x signal amplification
- Accepts 1/4-inch OD tubing

Mounting

- Check that the VFXP is sized correctly for the duct in which it is being installed.
- The VFXP is mounted in the duct through a 1-inch (2.54 cm) hole.
- Secure the opposite end with the provided threaded bolts.
- Ensure that the flow direction of the air in the duct corresponds with the arrow printed on the label of the VP flow sensor probe.
- For round ducts, install the VP diagonally to minimize the irregularities of the air flow patterns in the horizontal and vertical planes.

Available Products

Probe Length*

VFXP -

06 = 6 in. (15.24 cm)
 08 = 8 in. (20.32 cm)
 10 = 10 in. (25.40 cm)
 12 = 12 in. (30.48 cm)
 14 = 14 in. (35.56 cm)

Example:
 VFXP-

*Contact your Schneider Electric sales representative for projects requiring a longer probe length.

Configuring Velocity Output

Calibration is necessary because the VXFP probe samples multiple points within a cross-section of a duct to obtain an average.

When the VXFP probe is used in conjunction with a Schneider Electric EP Series Differential Pressure/Air Velocity Transducer, the value reported by the EP (in Velocity mode) must be divided by the corresponding EP Divisor in the Calibration Chart.

Note: The EPP (panel) and the EPU (universal) models used in velocity mode, require the use of a VFXP Series air velocity/ measurement probe or AA18, AA19 or AA20 velocity pitot tubes; sold separately. Please note that the tubing accessory kit included with the EP Series is intended to be used with the included pickup probes and may not form an adequate seal with the VFXP Series. When using the VFXP Series, additional tubing, adapters or clamps should be made available by the customer and may be necessary depending upon application. The EP Series barb fittings support 5mm tubing.

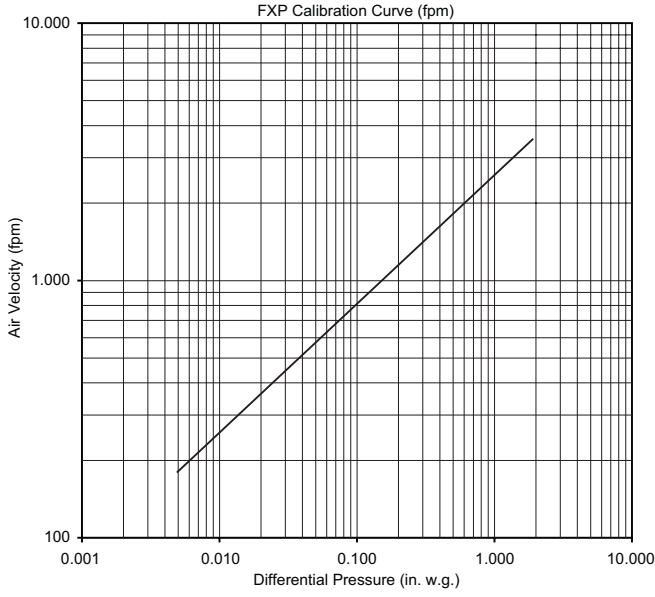
Calibration Chart

Probe Length	EP Divisor
6 in. (15.24 cm)	1.678
8 in. (20.32 cm)	1.615
10 in. (25.40 cm)	1.641
12 in. (30.48 cm)	1.602
14 in. (35.56 cm)	1.586

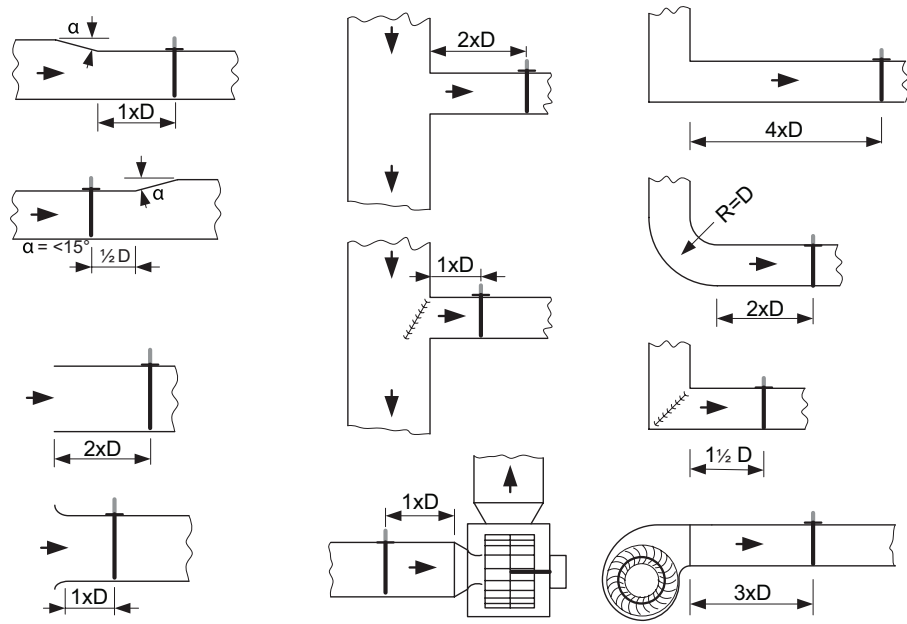
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Performance Wiring



Minimum Straight Duct Approach



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