

FloXact™



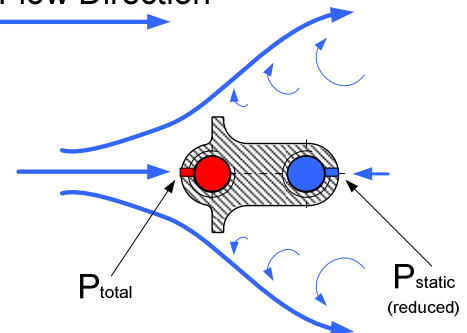
Application

The FloXact™ Stick 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 FloXact™ Stick 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.

Design features

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

Air Flow Direction

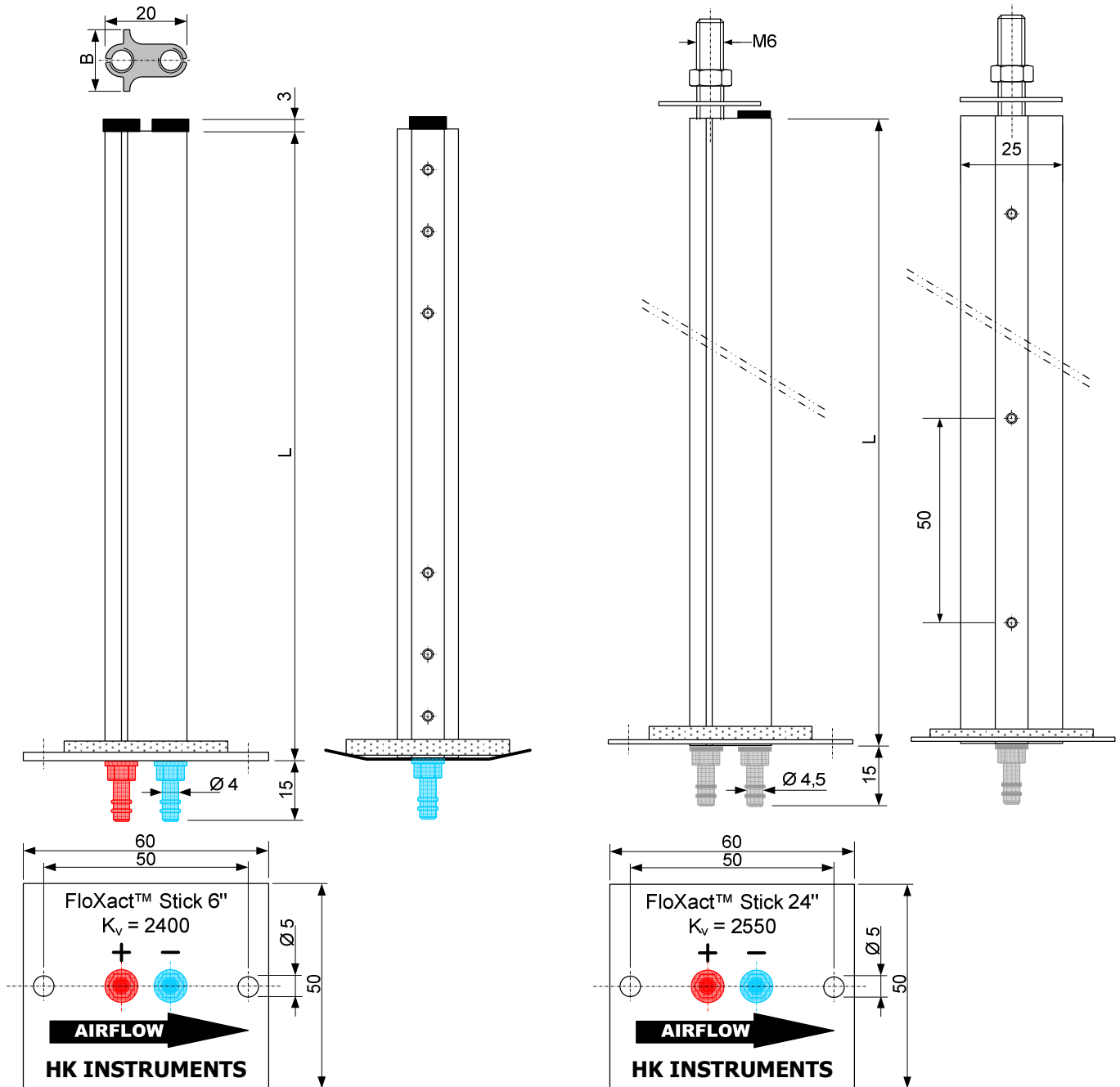


Operation of the FloXact™

Dimensions

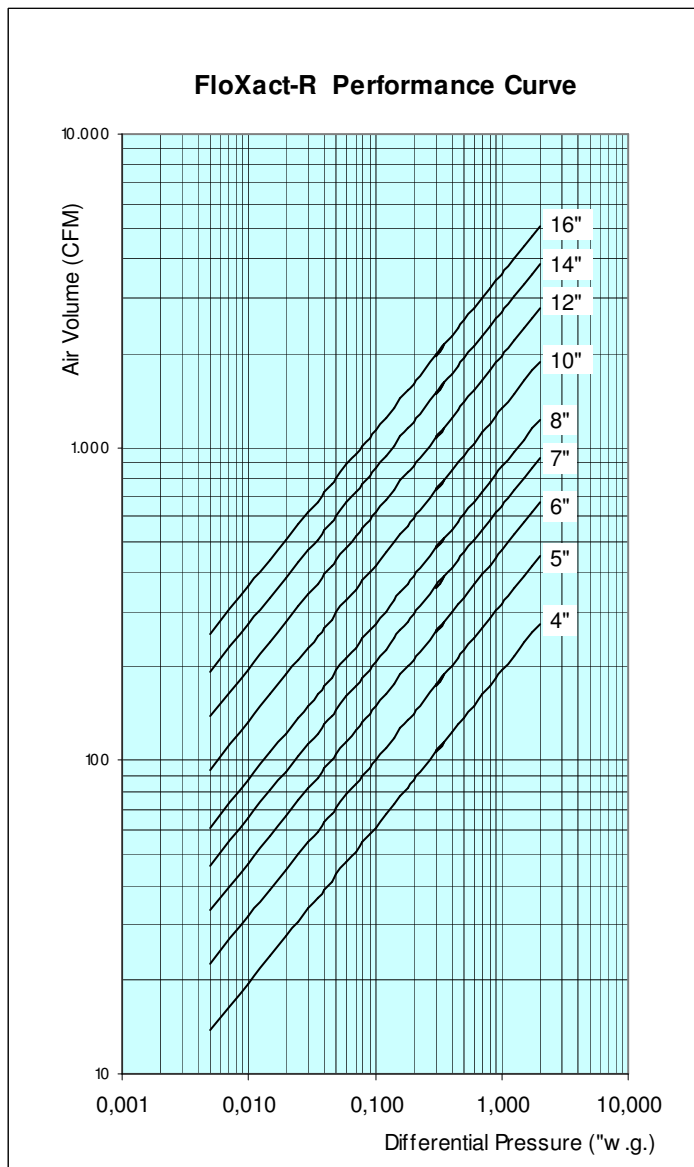
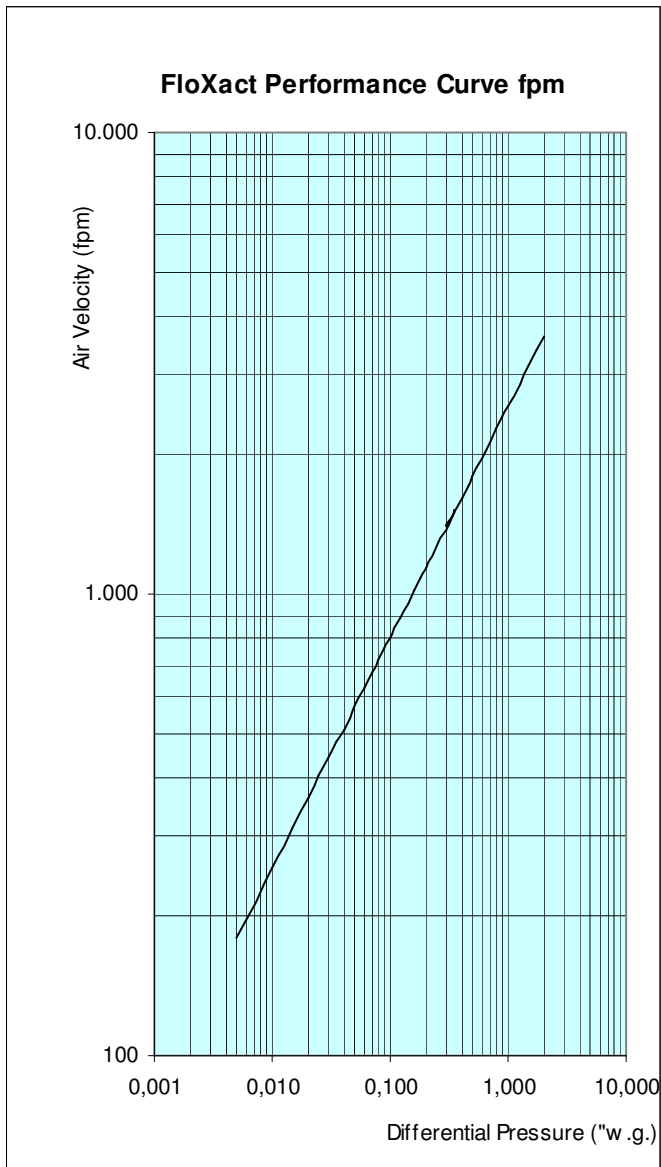
FloXact™-R available models :
100, 125, 160, 200, 250, 315, 400 and 450

FloXact™-L available models :
250, 300, ... 1200 (50mm steps)



Dimensions in millimetres

Performance



SIZING THE PRESSURE TRANSMITTER

To size a pressure transmitter for your application, use formula "B". The Kv value can be found in the calibration chart and the velocity must be known or closely approximated. To calculate the velocity use formula "A".

$$V = \text{FPM} = K_v * \sqrt{\Delta P}$$

Formula A

$$\Delta P = \text{"W.C."} = \left[\frac{V}{K_v} \right]^2$$

Formula B

CFM = VA

CFM = cubic feet minute

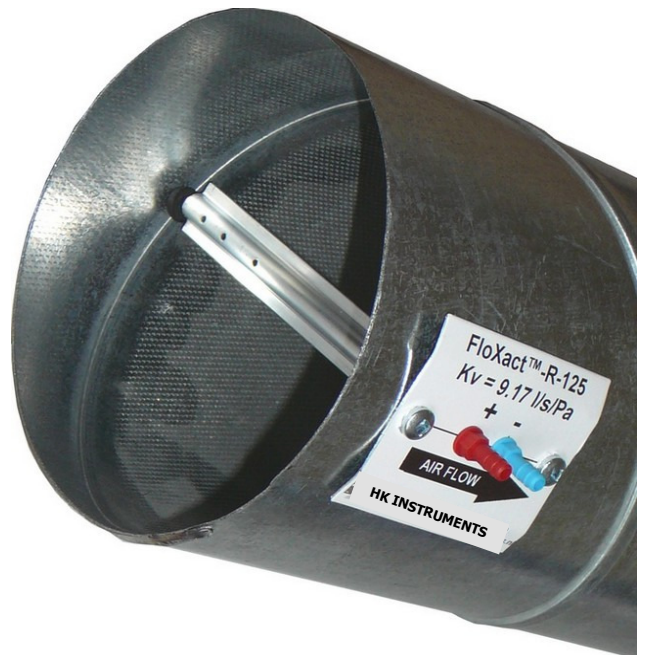
V = velocity (feet per minute)

A = area (square feet)

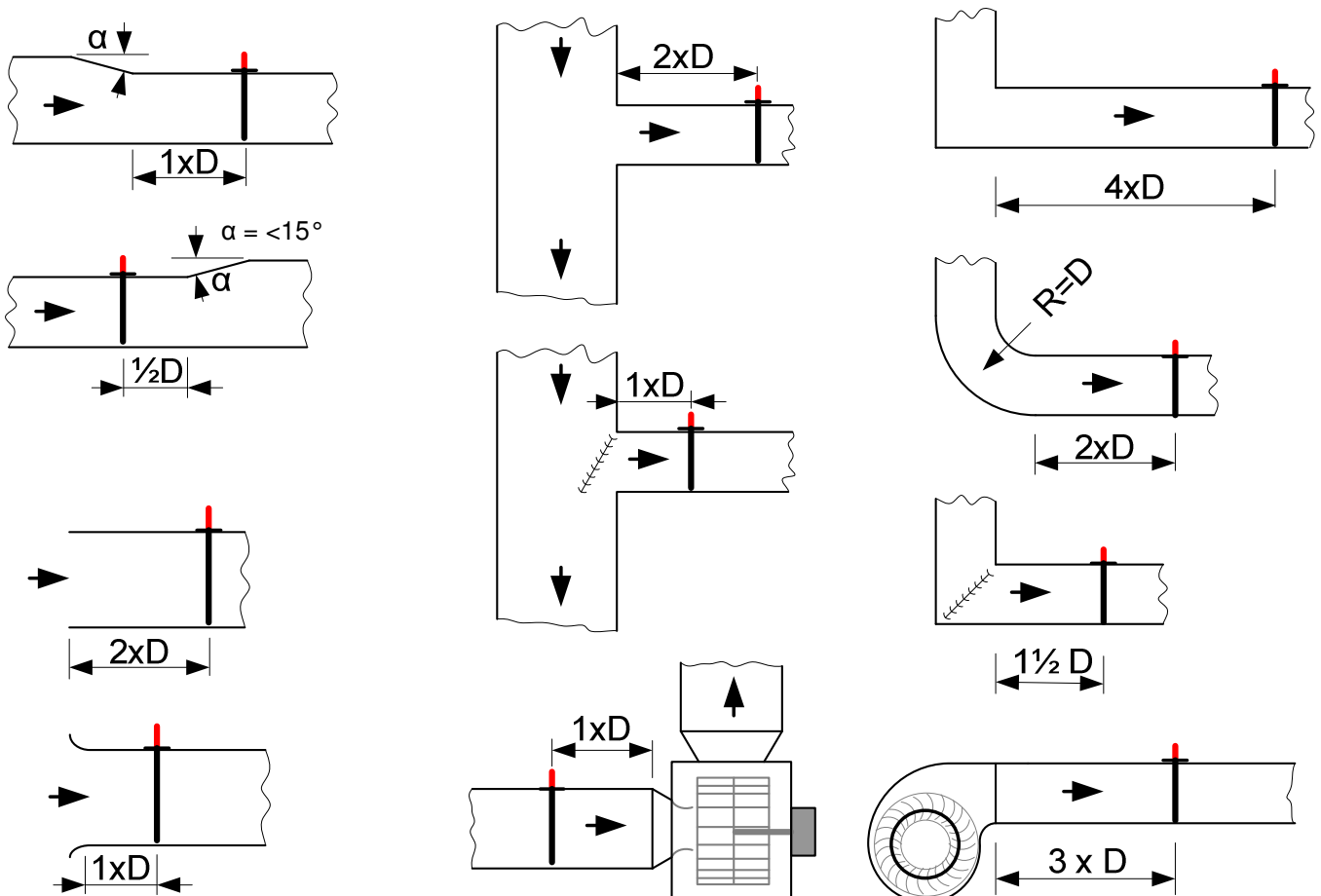
FXP Calibration Chart					
Size	Kv	Size	Kv	Size	Kv
4"	2225	7"	2450	12"	2500
5"	2325	8"	2480	14"	2525
6"	2400	10"	2440	16"	2550
18" and up			2550		

Mounting instructions

- Check that the FloXact™ Stick size corresponds with the duct or terminal were it is installed.
- The FloXact™ Stick is mounted in the duct by drilling a 1" hole.
- Secure the opposite end with the provided threaded bolts.
- Check to make sure that the flow direction of the air in the duct corresponds with the arrow printed on the label of the FloXact™ Stick.
- For round ducts, we recommend to install the FloXact™ Stick diagonally in the duct to minimize the irregularities of the air flow patterns in the horizontal and vertical planes.
- For non standard applications, please contact our office



Minimum straight duct approach



D = duct diameter or equal diameter