

# AFSD

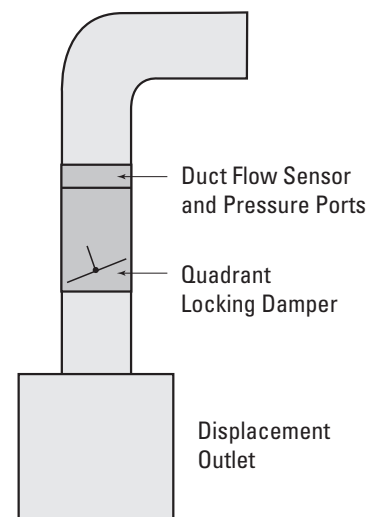
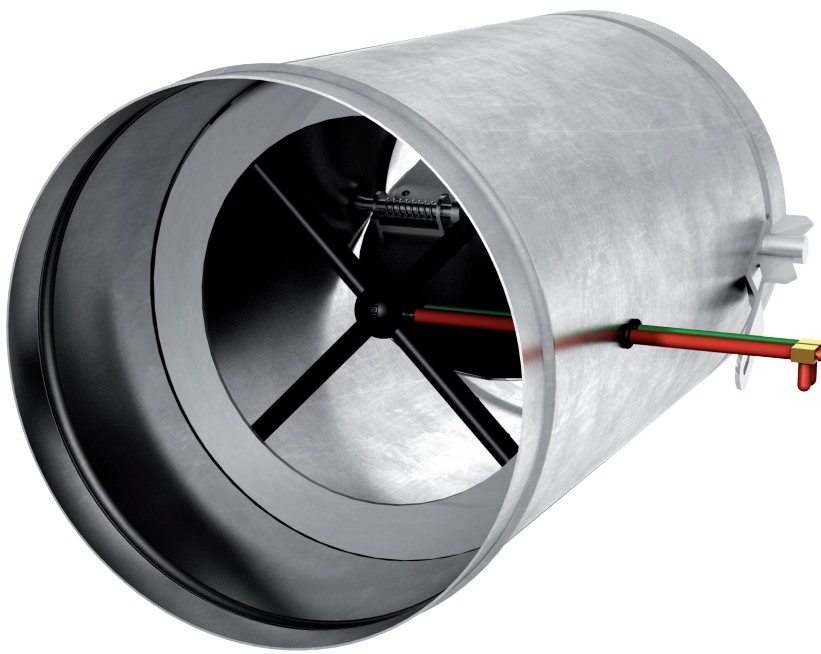
AIRFLOW SENSING DEVICE



# AFSD

## Airflow Sensing Device

The Airflow Sensing Device (AFSD) is a flow measuring station combined with an adjustable damper whereby the air volume can be adjusted. The SP300 multipoint sensor ensures accurate pressure measurement, allowing the balancer to monitor the velocity pressure in the duct. The integral manually operated damper with quarter-lock allows for adjustment until the desired flow rate is obtained. A label on the side provides indication of the airflow for a given velocity pressure. The AFSD is specifically designed to operate with displacement ventilation systems to help balance downstream pressure and help in supplying optimum flow rate to the diffuser.



*AFSD installed in plenum*

## CONSTRUCTION & FINISHES

### + Material

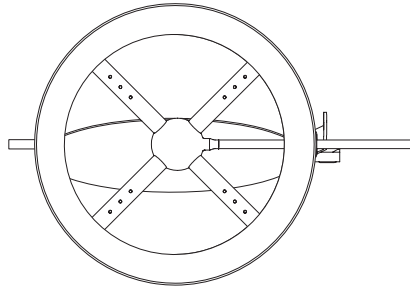
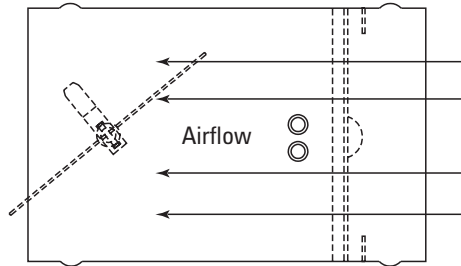
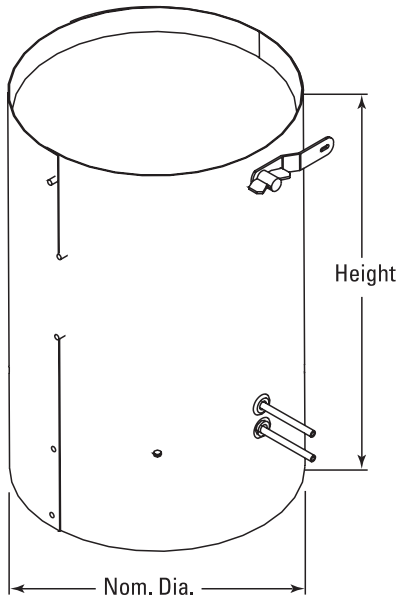
- Housing and Damper – 22 Galvanized Steel
- Airflow Sensor – RoHS compliant injection-molded plastic

### + Sizes

- 6 in. to 16 in. diameter

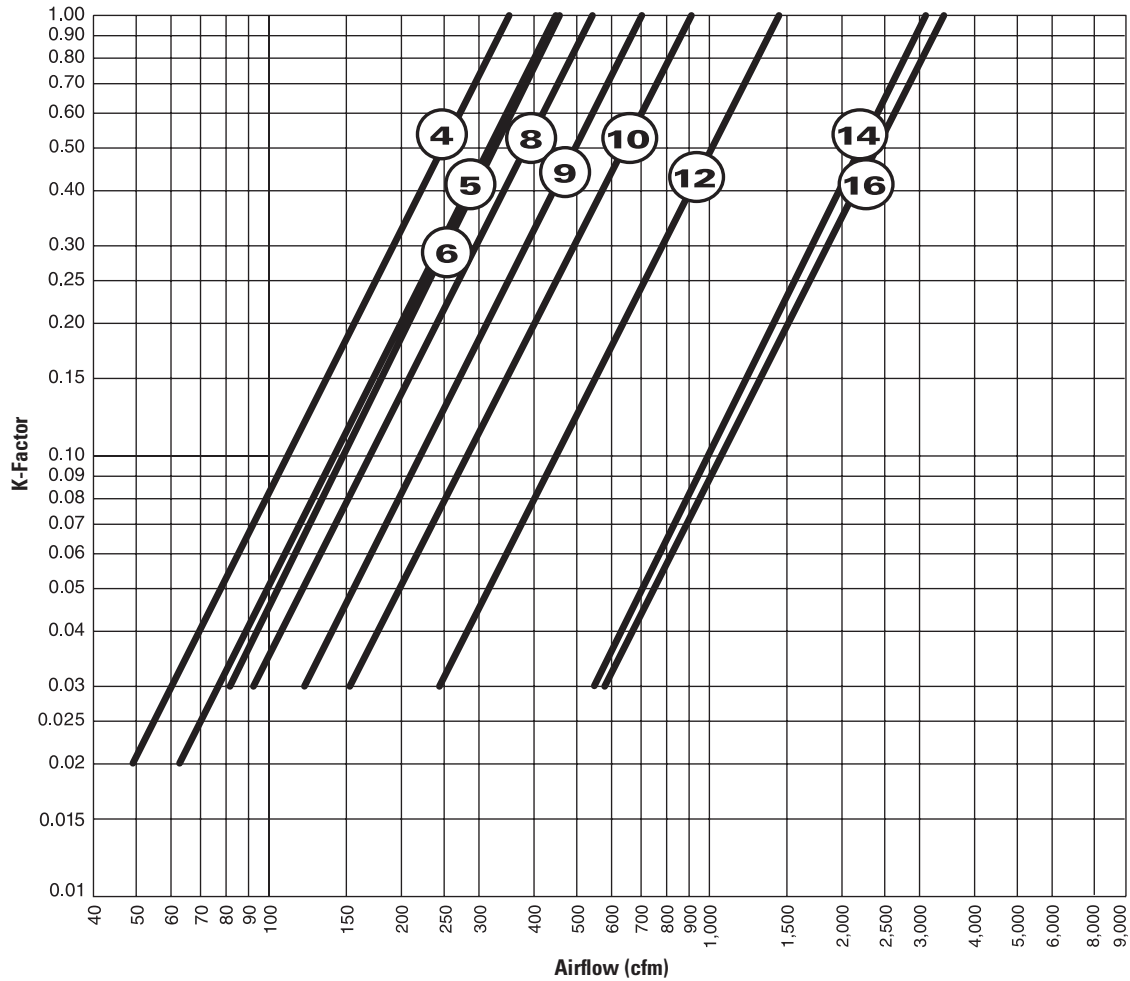


# DIMENSIONAL DATA



Nom. Diameter x Height (in.)
5 x 14
6 x 14
8 x 14
10 x 14
14 x 15
16 x 15

# PERFORMANCE DATA



**Performance Notes:**

1. Locate appropriate K value or slope for AFSD size.
2. Use pressure taps (red line high; green line low) provided for field measurement of pressure differential (VP) with manometer.
3. Loosen wing nut on damper handle and adjust damper to vary VP.
4. When appropriate VP is obtained, tighten wing nut down on handle.

$$V_p = \frac{Q^2}{K^2}$$

where:

$V_p$ = differential pressure at the sensor, in. w.c.

$Q$ = air flow rate at standard conditions, cfm

$K$ = calibration constant



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