

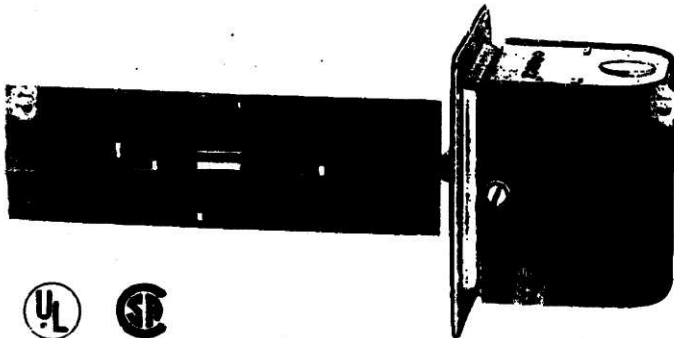
Air Flow Switches For Low, Medium and High Velocities

McDONNELL & MILLER Air Flow Switches sense air flow or no flow by responding only to velocity of air movement. They provide a positive and economical way to detect change or loss of air flow velocity caused by a closed damper or fan inlet, a loose fan wheel, a slipped or broken fanbelt, a dirty or clogged filter, or an overload of a fan motor switch.

The AF1 Series are designed for medium and higher velocity systems, Nos. AF2, AF3 and AF3D are for systems with lower air flow velocities.

AF1 Series

**Air Flow Switches/For Duct Installation
Medium and Higher Velocity**



- Maximum temperature, 300°F
- Minimum temperature, 32°F

The AF1 Series is designed for medium and higher velocity systems. They have a single-pole double-throw switch, can be wired to make one circuit, break a second circuit, when air flow starts or stops in a duct.

They can be installed in the side, top or bottom of a horizontal duct and, if necessary, in a vertical duct with upward air flow. If the only possible installation is in a vertical duct with downward air flow, write factory for instructions, giving duct size and air flow velocities.

The Standard No. AF1 has parts exposed to inside of duct made of brass, steel and Teflon. Switch compartment is sealed from duct by a chrome plated spherical bearing, revolving against a flat Teflon seat; this is not a completely tight seal.

The AF1J is identical to the AF1, except the AF1J has an added chromate treatment to aid in preventing corrosion.

The Stainless Steel No. AF1S has parts exposed to inside of duct made of 18-8, 302 and 316 stainless steel, and Viton; Viton has excellent chemical resistance characteristics. Switch compartment is sealed from duct by a Viton flexible rolling seal; this is a completely tight seal.

For electrical ratings and switch schematics, see page 26.

McDONNELL & MILLER QUALITY THROUGHOUT
Readily Adjusted — Conveniently located screw provides ease of adjustment to air flow velocity.

Easy Wiring — Cover completely removable, no cramped quarters.

Convenient Electrical Knockouts — Connect conduit to either side of switch housing.

Dependable Switch — Single-pole double-throw for universal usage. Snap-action assures reliability.

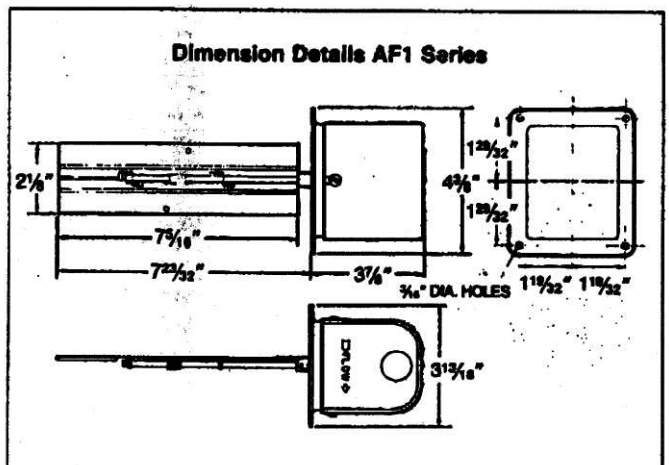
**Air Flow Velocities Required to Actuate
No. AF1 and No. AF1-S**
(Based on Standard Air 0.075 Pounds per Cubic Foot)

HORIZONTAL DUCT (Preferred Installation)

| Paddle Length | Minimum Adjustment | | Maximum Adjustment | |
|---------------------|--------------------|-------------|--------------------|-------------|
| | Flow FPM | No Flow FPM | Flow FPM | No Flow FPM |
| Standard (7 1/4") | 480 | 185 | 1385 | 1160 |
| Trimmed 2" (5 1/4") | 700 | 220 | 2230 | 1820 |

Flow rates are averages which may vary ± 10% from tabulated values.

Dimension Details AF1 Series



VERTICAL DUCT, UPWARD FLOW (For Downward Flow, write factory)

| Paddle Length | Minimum Adjustment | | Maximum Adjustment | |
|---------------------|--------------------|-------------|--------------------|-------------|
| | Flow FPM | No Flow FPM | Flow FPM | No Flow FPM |
| Standard (7 1/4") | 910 | 785 | 1610 | 1460 |
| Trimmed 2" (5 1/4") | 1235 | 1050 | 2560 | 2410 |

Flow rates are averages which may vary ± 10% from tabulated values.