

Model AVD Zone Dampers

The fully modulating zone dampers are available in 6", 8", 10", 12", 14", and 16" diameter sizes.



Figure 2.8 AVD Terminal

Upon request we can provide any size of rectangular damper.

The dampers feature elliptical blades for a more linear response and consist of two steel blades separated by an air tight neoprene gasket for quiet operation. The dampers meet SMACHNA and ASHRAE standards and are furnished with a 24V, 3-wire floating electric actuator.

A line at the end of the shaft indicates the blades position. A set screw allows the damper's minimum position to be field adjusted.

Selecting the AVD Terminal

Recommended velocities are the same as for conventional low pressure duct design:

MAIN DUCTS	1100 to 1500 fpm
BRANCH DUCTS	800 to 1100 fpm

Generally the size of the AVD terminal will be the same size as the duct that it is being installed in. If the AVD is installed within 8 feet of an outlet, velocities above 1500 fpm should be avoided.

Table 2-1 is used to select the appropriate damper from the calculated CFM requirements and air velocities with respect to static pressure drop and air noise.

Table 2.1 AVD/STA Capacities

	AVD/STA Selection			
Velocity (fpm)	800	1100	1500	2000
Model & Size (in.)	CFM			
AVD-6"/STA-6"	(.04 pd) – 157	216	287	
AVD-8"/STA-8"	(.03 pd) – 280	385	525	
AVD-10"/STA-10"	(.02 pd) – 435	600	817	1090
AVD-12"/STA-12"	(.015 pd) – 628	865	1180	1572
AVD-14"/STA-14"	(.01 pd) – 854	1177	1604	2139
AVD-16"/STA-16"	(.01 pd) – 1135	1537	2095	2790

Pd – Pressure drop in inches of water gauge is shown for 800 fpm 0.12" w.g. pd