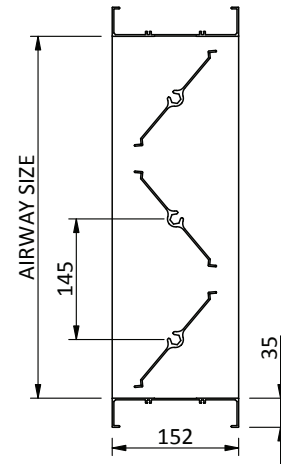


VOLUME CONTROL DAMPER MANUAL Model ADVCDMAN



ADVCDMAN

DESIGN DETAILS (mm)



APPLICATIONS

General purpose volume control damper.

All aluminium construction.

More resistant to corrosion enabling them to be used in areas of high humidity, like swimming centres and tropical environments.

Significantly lighter than their steel counterparts.

Easy to operate.

Low leakage when closed and they create very little resistance when open.

FEATURES

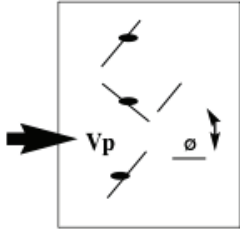
Aluminium lightweight construction (much lighter than steel dampers).

Interlocking Blades for low leakage.

Nylon Bearings.

Quadrant fitted for manual operation.

VOLUME CONTROL DAMPER MANUAL Model ADVCDMAN

P.D. Test Method	Loss Coefficient C									
	L/R	Ø								
Rectangular Duct		80°	70°	60°	50°	40°	30°	20°	10°	0°
 <p>P.D. = $V_p \times C$ where P.D. = Pressure Drop V_p = Velocity Pressure C = Loss Coefficient</p>	0.3	807	284	73	21	9.0	4.1	2.1	0.8	0.52
	0.4	915	332	100	28	11	5.0	2.2	0.9	0.52
	0.5	1945	377	122	33	13	5.4	2.3	0.9	0.52
	0.6	1124	411	148	38	14	6.0	2.3	0.9	0.52
	0.8	1299	495	188	54	18	6.6	2.4	1.0	0.52
	1.0	1521	547	245	65	21	7.3	2.7	1.0	0.52
	1.5	1654	677	360	107	28	9.0	3.2	1.1	0.52
		<p>Where:</p> <p>N = Number of damper blades W = Duct dimension parallel to blade axis L = Sum of damper blade length R = Perimeter of duct</p>								

For manual balancing and motorised opposed blade Dampers, the pressure drop should not exceed the values calculated from the 1981 SMACNA duct design tables.

SPECIFICATIONS

Maximum pressure differential: 1.5kPa (6inch WC).

Maximum approach velocity: 20m/sec (4000 fpm).

Temperature range: -40 to +93 degree C (in inflatable seal).