

SECTION D – FITTINGS & ACCESSORIES



Description

These VCDs are a modular design, lightweight and easy to install. The mechanism is formed from strong, diecast aluminium shafts, links and arms. The blades are designed to minimise drag when fully open and provide a good seal when closed. The driveshaft is 12.5mm zinc plated and can be specified for manual or motorised operation. Long life resilient bushes are fitted to facilitate smooth adjustments. The 1.5mm outer frame and 1.8mm blades are constructed from a durable 6060/T6 extruded aluminium alloy. The NRD blades are 1.35mm thick.

To ensure performance the damper and adjacent ductwork must be installed in accordance with AS4254.

Selection Guide

All volume control dampers can be specified for manual or motorised drive fitting.

Standard Volume Control Damper (AVCD)

For balancing applications with low and medium velocity air. No blade seals or side seals.

Positive Shut-off Volume Control Damper (AVCDP)

To regulate air flow and provide very low leakage when shut-off is required. Includes standard application black Santoprene rubber blade seals, venetian side seals and tough synthetic bushes. Air leakage meets Australian Standard AS 1682.1, section 5 – air leakage test.

Volume Control Smoke Damper (AVCDS)

For flow regulation and low leakage smoke control at medium temperatures, 200°C specification. Special components include brass bushes, stainless steel venetian side seal and heat resistant grey silicone rubber blade seals. Air leakage meets Australian Standard AS 1682.1, and results pending for AS1530.4 requirements.

Non-return Damper (ANRD)

The Non-return damper or backdraft damper uses individual steel shaft hinges for each blade. Long life synthetic bushes are fitted and the blade tips are lined with foam seals for quiet operation.

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Ordering Procedure

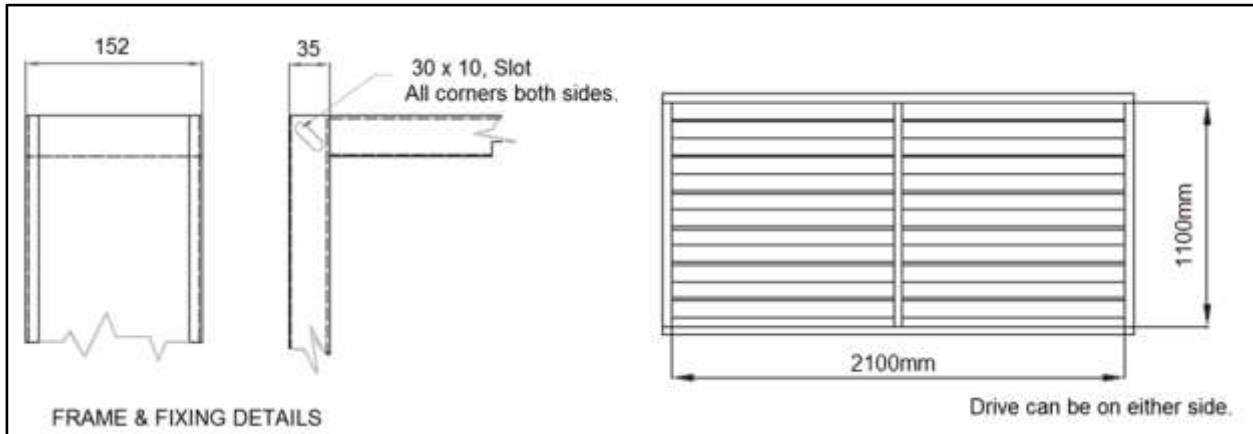
Select the appropriate model and actuation type. The maximum blade length is 1000mm and longer units have a centre mullion support included. The size is based on the airway area i.e. the blade length and the overall height. For large open areas the largest unit modular size is 2100mm wide x 1100mm high which run from a single drive mechanism.

Codes	Description	Side Seal	Blade Seal	Bush	Mix Width	Max Height
AVCD	Manual volume control damper	N	N	Nylon	2100	1100
AMVCD	Motorised volume control damper	N	N	Nylon	2100	1100
AVCDP	Manual volume control damper positive shut-off	Y	Silicon - black	Nylon	2100	1100
AMVCDP	Motorised volume control damper positive shut-off	Y	Silicon - black	Nylon	2100	1100
AVCDS	Manual volume control smoke damper	Y	Silicon - grey	Brass	2100	1100
AMVCDS	Motorised volume control smoke damper	Y	Silicon - grey	Brass	2100	1100
ANRD	Non-return dampers	N	Foam	Nylon	1000	1100

Actuator not included.

Dimensions

Details of the maximum size module.

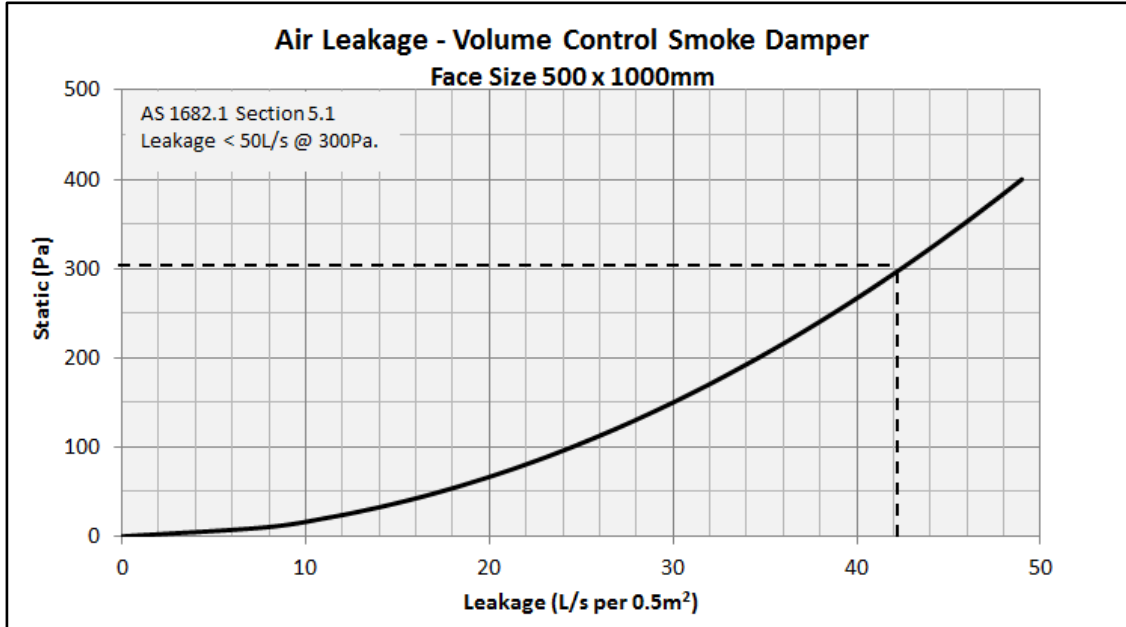


Application

Correct installation is very important for the operation of the Volume Control Damper and to ensure its long life prosperity. DO NOT distort the damper when securing to the ductwork or plenum. The ductwork or plenums that the damper is to be attached must be securely supported and diagonally square. The surface that the damper is to be attached must also be flat. Failure to ensure the ductwork or plenums meet the fitting criteria will affect the operation of the damper. Incorrect installation voids all warranty.

For medium air velocities the suggested drive torque is 5Nm per square metre.

Performance Graphs



Maximum recommended pressure 400Pa.

