



BULLOCK MFG Pty Ltd.

Model 6700

Air Volume Control Damper



Product Description

The Bullock Model 6700 Air Volume Control Damper (patent application No. 2004904926) with its unique blade configuration is designed to give greater control of air passing through Air-conditioning or Ventilation systems, either manually using a Quadrant control or via the use of Building systems actuators. This model has been durability tested as per AS1668 for high temperature and ultra low air leakage tested in the closed blade position. Please note that Model 6700 Steel and Stainless steel blade combination do not as yet come with blade tip seals. Available in three material types: Aluminium, Stainless or Galvanised Steel, all of which can be easily installed into sheet-metal duckwork, conditioner housings or air plenums.



Ordering Instructions

- Damper AIRWAY dimension measured in millimeters: WIDTH (blade length) x HEIGHT.
- Damper Controls: "Manual" or "Motorized", left or right hand upper, middle or lower position.
- Damper frame type or size see below. Options: frame mounting slots, bolt together modules.
- Damper hardware: Nylon / Bronze bearings, stainless side blade seals, extended drive shafts.
- Damper Materials: Galvanized / Stainless (and grade)

steel. Aluminium or a combination thereof.



NOTE: Volume control dampers are designed specifically to control airflows, for correct operation always ensure ductwork is self supported and installed to AS4254 methods. INCORRECT INSTALLATION VOIDS ALL WARRANTIES.

Frames and Corners

Aluminium - 6060T5 - "C" type design 35mm x 165mm x 1.8mm thick extrusion.
Stainless / Galvanised Steel - "C" type TDF/TDC 23mm x 165mm x 1.6mm thick or "H" type 25mm, 35mm or 50mm x 215mm x 1.6mm thick. Welded corners have been innovatively phased out with the introduction of the Bullock corner gussets for aluminium dampers. These assist in frame strengthening while allowing expansion in elevated temperature situations.

Blades

Aluminium - 6060T5 - Extruded 1.6mm thick streamline edge design for ultra low airflow resistance's and the available option for added blade seals on both edges to minimize leakage. Oppose blade rotation is standard, parallel action is optional.
Stainless / Galvanized steel - precision cut 1.6mm die and press formed, the interlocking blade tip designs give the blades longitude blade strength and a flat metal blade seal. In the open position blades fit wholly within the damper frame. Please note that Model 6700 Steel and Stainless steel blade combination do not as yet come with blade tip seals.

Blade Seals

All side blade seals are of series 300 stainless steel, alleviating the problem of "aggravated corrosion" of seals through blade swiping action. Blade tips seals are optional silicon seals with a serviceable temperature of up to 220 degrees Celsius or standard blade seal.

Shafts

Hexagonal 13mm zinc die cast design is mechanically fixed to the blades ends. Rotating pivot / drive collar is 16mm diameter stainless steel providing strength., durability and ease of service for bearings. The actuator drive shaft is 12.7mm diameter zinc plated mild steel or optional stainless steel.

Bearings

Sintered bronze 16mm diameter x 4mm thick "top hat" design to suit the 16mm diameter stainless steel pivot collars. These sit flush in a counter sunk frame seat providing strength to the frame penetration and giving precise bearing positioning. Polysulfone, which has a service temperature range up to 160 degree Celsius.

Linkages

Blade linkages have been designed as an external operating system within the frame channel. 3mm aluminium / stainless steel / galvanized steel triangular plate design mechanically lock onto each blade pivot, interconnecting 2mm angles and 1.8mm linkage bar connectors are driven off 6mm stainless steel pivot pin and bearing combinations giving a smooth blade rotation from open to close positions.

Performance Testing

AIR LEAKAGE - Damper leakage tests to verify performance of the model's blade sealing system. The results show ultra low leakage rates.

ELEVATED TEMPERATURES: Independent testing of the aluminium model was carried out for durability in compliance with AS1668 for smoke dampers. No visible signs of damage or distortion were noted in the test where temperatures were recorded at 200 degree Celsius for a duration of 2 hours.

Copy of these tests are available from your local Bullock representative in your state.

Installation and Maintenance

Correct installation is critical for proper operation and long life of air control dampers. Refer to installations to avoid on-site delays through incorrect procedures. NOTE: Volume dampers are designed to control airflow always ensure ductwork or plenums are self supported and installed to AS4254 accepted methods.

INCORRECT INSTALLATION VOIDS ALL WARRANTIES.

Maintain dampers in accordance with AS1851.6 if required.

Specifications are subject to change without notice.

BULLOCK MFG P/L ~ 22 Pike St. Rydalmere. NSW 2116 Ph: (02)9684 1311 Fax: (02)9684 2250
BULLOCK VIC P/L ~ 54 Tarnard Dr. Braeside. VIC 3195 Ph: (03)9587 5522 Fax: (03)9587 6622
BULLOCK WA P/L ~ 34 Industry St. Malaga. WA 6062 Ph: (08)9248 1633 Fax: (08)9248 1733
BULLOCK INDUSTRIES P/L ~ 26 Quindus St, Wacol. QLD 4076 Ph: (07) 3271 2088 Fax: (07)3271 1892
BULLOCK SA P/L ~ U1 Commercial Crt. Dry Creek. SA 5094 Ph: (08) 8349 7088 Fax: (08)8349 7066

email: bullmfg@bigpond.net.au

Copyright © 2004 Bullock Manufacturing Pty Limited. All Rights Reserved.