

actionair

MB120



High Temperature Volume Control Damper

Introduction

Actionair has for many years been associated in the design, development and manufacture of life safety equipment.

The HT VCD MB120 complements a comprehensive range of automatic fire and smoke dampers with their associated controls. These provide a complete solution for air conditioning and ventilation systems fire safety engineering strategies.

Specification

The Actionair HT VCD MB120 Volume Control Damper is constructed from galvanised steel 1.2mm thick, 40mm flanged, rectangular or circular casing, (316 stainless steel option available).

75mm interlocking 430 grade stainless steel aerodynamic blades, steel blade end bearings and 300 grade stainless steel peripheral gasketing (316 grade stainless steel blade and blade end bearings available).

The totally enclosed precise movement opposed blade drive is positioned out of the airstream for protection against damage and is hard wearing and free running.

Range and Application

The Actionair HT VCD MB120 Volume Control Dampers are suitable for high temperature applications running continuously up to 400 °C (No Blade Seals) or 170 °C (With Blade Seals) manual operation only. Electrical operation up to 70 °C ductwork temperature, 50 °C ambient.

The Actionair HT VCD MB120 Dampers can be used where the maximum system pressure is up to 1500 Pa and duct velocities to 15m/s.

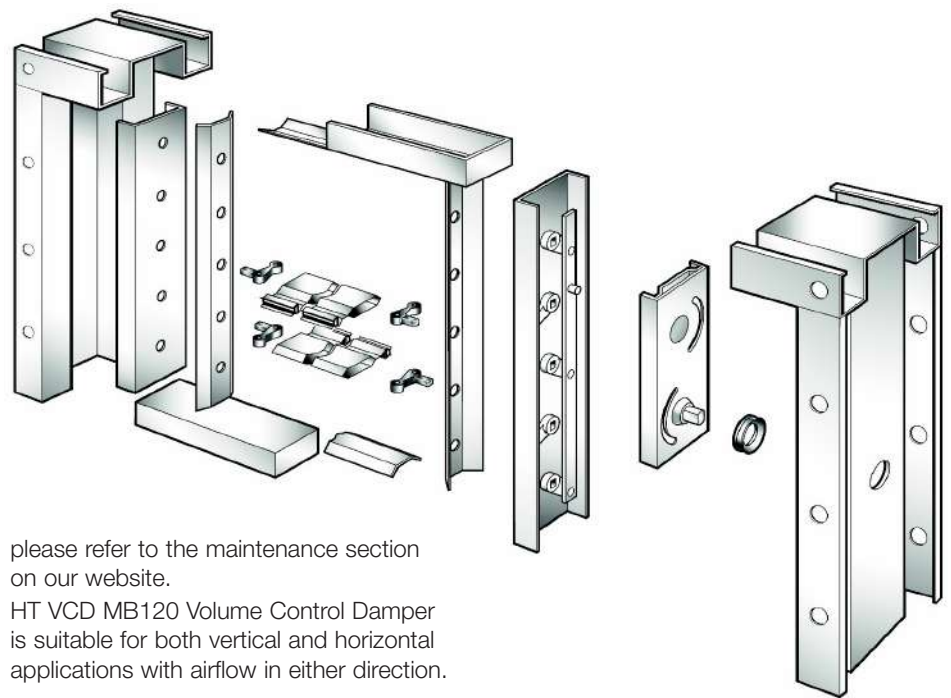
HT VCD MB120 Volume Control Dampers are designed for applications in normal dry filtered air systems and should be subjected to a planned inspection programme, with cleaning and light air lubrication in accordance with good industry practice. When exposed to fresh air intakes and/or inclement conditions

Casing Features

The standard 1.2mm galvanised steel flanged type casing, having a single penetration for the drive control, complies to Class A & B of Eurovent 2/2 and Test procedures for Classes A, B, and C of the HVCA Ductwork Specification DW144, at temperatures not exceeding 70°C.

Pre-punched bolt holes are provided as standard (refer to page 3). In addition stainless steel peripheral gasketing is included, which allows for expansion under high temperature conditions.

Casings manufactured in Type 1.4401 (316 grade) Austenitic stainless steel are available as an optional extra.



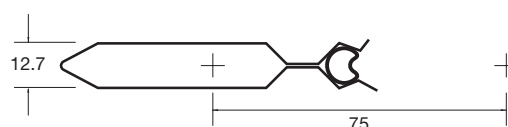
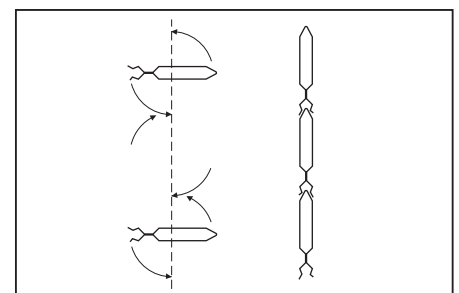
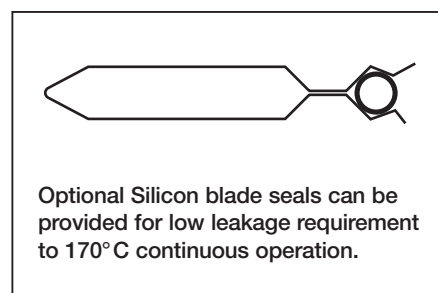
please refer to the maintenance section on our website.

HT VCD MB120 Volume Control Damper is suitable for both vertical and horizontal applications with airflow in either direction.

Blade Features

The damper blades are aerodynamic double skin Type 1.4016 (430 grade) Ferritic stainless steel, which are 75mm wide and when closed interlock to form a positive low leakage shield. Incorporated in the blade are steel blade end bearings. Optional silicone blade seals are available.

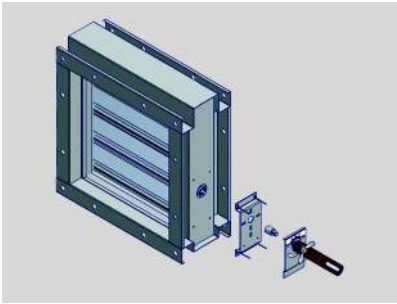
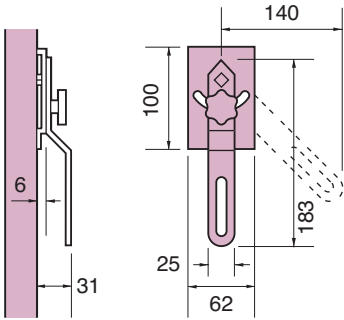
Optional Type 1.4401 (316 Grade) Austenitic stainless steel can be provided for blades and blade end bearings.



Controls

Manual Quadrant Control

Always fitted as standard on the HT VCD MB120 Manual Volume Control Damper.
Consists of a dark brown steel handle, blade position locking facility and quadrant bracket with visual position indication.



Electrical Control

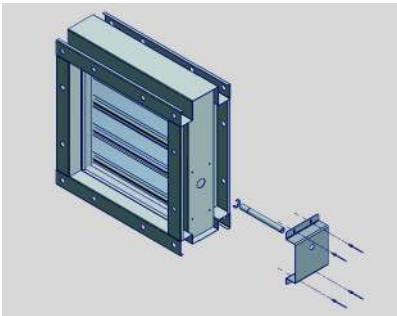
The HT VCD MB120 Volume Control Damper is available with electrical control. There are three options of electrical control available:–

Control Modes (Non ETR)

		Supply Voltage		
		24V	120V	230V
STD	Power on (Reset) Power off (Release)	•	•	•
2P	2 Position on/off drive both ways	•		•
3P	3 Position on/off drive both ways 0-10V Modulating	•		

Note: As the HT VCD MB120 is Non Fire Rated all Modes are without Electrical Thermal Release (ETR). ATEX, Zone 1, Zone 2 and IP66 actuators are available and Hot Boxes are available for the standard Control Modes contact Actionair Sales Office.

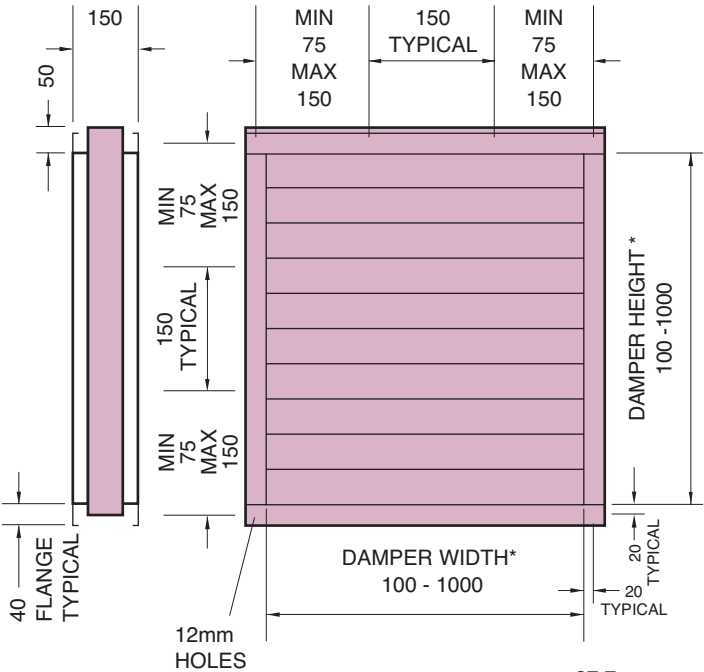
Extended Spindle Control



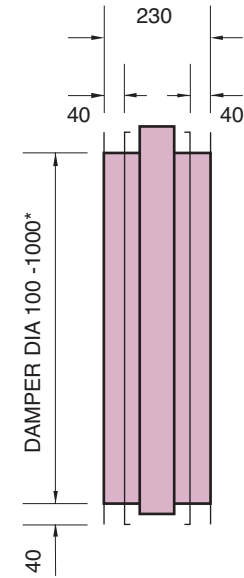
Dimensional Data

Square and Rectangular

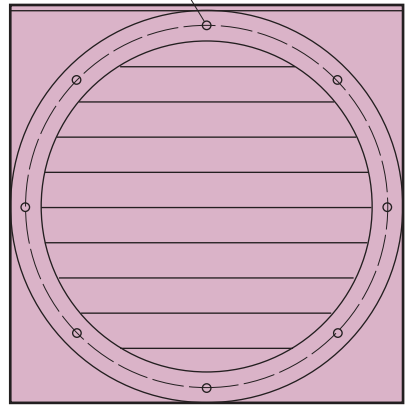
*1mm Increments



Circular



SEE TABLE BELOW FOR NUMBER OF HOLES, TO BE EQUALLY SPACED ON PCD
ALIGNMENT OF HOLES TAKEN FROM CENTRE LINE OF SQUARE SECTION PLATE

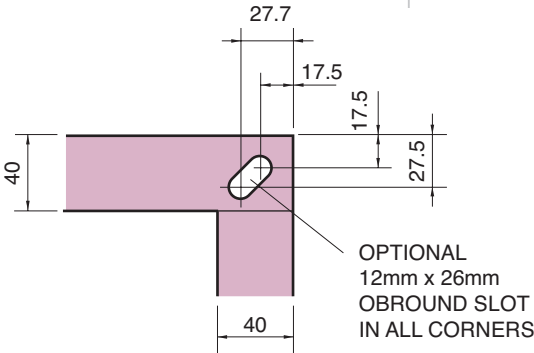


PCD = NOM . DIA. + 40mm
HOLE DIM. SEE TABLE BELOW

Circular Damper Fixing Hole Details

Damper Dia.	Number of Holes	Hole Dia.
100 - 250	4 off	7.0
251 - 500	8 off	10.0
501 - 750	12 off	12.0
751 - 1000	16 off	12.0

The HT VCD MB120 can also be supplied with plain flanges, slot corner holes, customers own bolt hole pattern (available - square / rectangular and circular) or circular spigot.



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