HD Series Heavy Duty Control Dampers

Installation, Maintenance and Operating Instructions

Models: Flangefit and Spigotfit

Installation:

1. Before installation, the damper should be inspected to ensure that it has not been damaged and is in good condition following transportation.
2. Ensure that all packing materials are removed, as failure to complete could result in permanent damage to the product.
3. Ensure that the ductwork and damper flange or spigots are carefully matched, with the specified sealing material used during installation.
4. Ensure that the ductwork is adequately supported, this is particularly important where large dampers are concerned.
5. Ensure that the damper is free of any foreign matter, the assembly is not distorted and is square with no surface damage that could restrict blade movement.
6. If stored before installation, ensure the product is stacked and stored in clean, dry conditions to prevent the ingress of dust, as well as avoiding excessive temperature or humidity.
7. Care should always be taken when handling dampers on site to avoid subjecting them to excessive stress for which they are not designed.
8. It is important to ensure that all dampers are installed with airflows and pressures conforming to the test data as detailed in the manufacturers technical product manual. Excessive airflows and/or pressures could result in permanent damage and/or malfunction of the damper.

Maintenance:

1. Keep the damper clean and free from any contamination.
2. Where possible, operate the blades against airflow to ensure easy, free movement without distortion or stress of the linkage.
3. Periodic inspection should be made of any seals that have been fitted to the damper, to ensure efficient control and operation.
4. It is recommended within normal preventative maintenance procedures for the blades and inner casings to be cleaned annually, with specific attention being made to ensure all spindles, bushes and linkage mechanisms are clean and rotate freely.
5. The time period can be ascertained by experience or local regulations, but should not exceed a twelve month interval. Inspection should be carried out more frequently where excessive dust or dirty conditions prevail.
6. Normal lubrication should only be made to exposed spindles/bushes and operating linkages outside of the airflow. Excessive lubrication will attract dust and could fail or impede the operation of the damper.

HD Series Volume Control Dampers

Installation, Maintenance and Operating Instructions

Operation:

1. These dampers are primarily designed for use in ductwork systems to balance/regulate the airflow. Once the system has been commissioned to its designed performance, the manual dampers are usually locked in their position with a record noted of blade positions. It is normal for the motorised dampers to have their blades in either the open or closed position during the operation of the system
2. If the damper is supplied with a spindle for the fitting of an actuator by sub-contractors, then attention to torque requirements of the damper and actuator is essential.
3. It is assumed that the airflow through the damper is filtered and environmentally controlled, with regard to humidification and corrosive atmospheres to national and international specifications.

National and International Specifications:

1. The HD Series Heavy Duty Control Damper is designed and manufactured for use as described in the HVCA Ductwork Specification DW144, and as Eurovent 2/2.
2. This product does conform to other national and international specifications not mentioned above, BSB's sales office can confirm details as required.

Recommended Spares:

1. None for this product.

It is always recommended that if either the specifying authority, the installer or the user has any doubts with regard to the product selection and/or suitability to the application, then contact to the following office is advised.

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