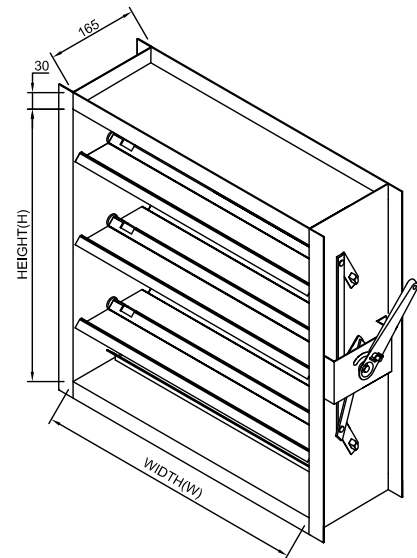


Product Information

Volume Control Damper - Model CD1616 A

Application

Model CD1616A is an opposed blade volume control damper with 3V style Blades. It regulates the flow of air inside a duct or an air handler or other air handling equipment. It may be used to cut off the air to an unused room or to regulate the air in different parts of the building depending upon temperature, climate control, occupancy etc. It's operation can be manual or motorized. Manual dampers are operated by a handle. Motorized dampers are used to regulate airflow constantly and are operated by actuators which in turn are controlled by a thermostat or building management system.



Standard Constructional Details*	
Frame Type	C- Channel – 165mm deep with 30mm Flanges
Frame MOC	Galvanized Steel, 16Ga 120 GSM
Blade Type	Triple V Type
Blade MOC	Galvanized Steel, 16Ga 120 GSM
Axle Bush	Lexan Bush, pressed into Frame
Blade Axle (Shaft) MOC	Zinc Plated Steel 9.5mm Square Bar
Linkage	Tie Bar In Frame
Linkage MOC	3mm Galvanized Steel Tie Bar
* Variations available	

Dimensional Limitations	
Single Section	Multiple Section
1200mm H x 1200mm W (Maximum)	2400mm H x 2400mm W (Maximum)
150mm H x 200mm W (Minimum)	

Features

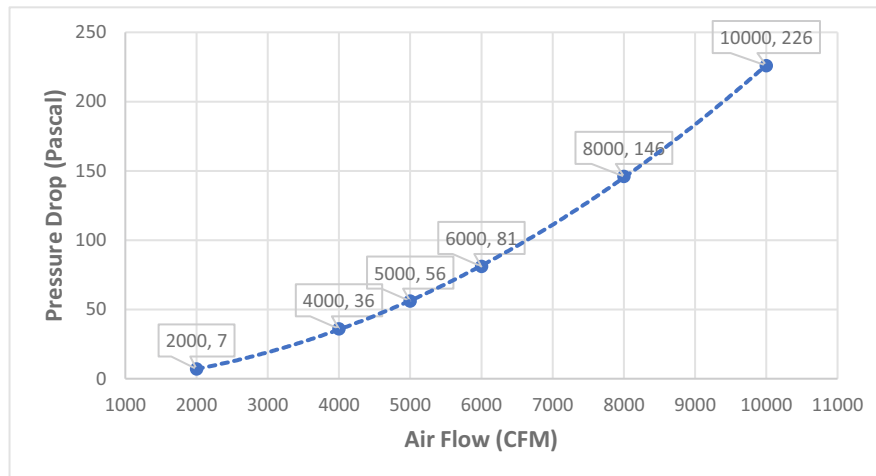
Model CD1616A is a multi-blade sturdy steel construction damper made with a 16Ga Frame of 165mm depth with 30mm flanges suitable for duct connection. It features 16Ga Single skin blades which are reinforced with 3 longitudinal structurally designed “Vees”. The Blades are arranged in opposed manner in order to provide the minimum turbulence in partially open conditions. Axles positively lock to blades without screws and non-corrosive bearings assure long life and ease of operation. The Damper can be operated with a manual handle (standard) or using an Actuator.

When needed, an optional Blade Position indication is available. The Electronic type switch package is linked directly to the Damper blade/axle to provide accurate “fully open” and “fully closed” positions. It is able to interface with the HVAC control system and provide remote damper blade open/close position status. Accessory OCS-M is used for this option.

Product Information

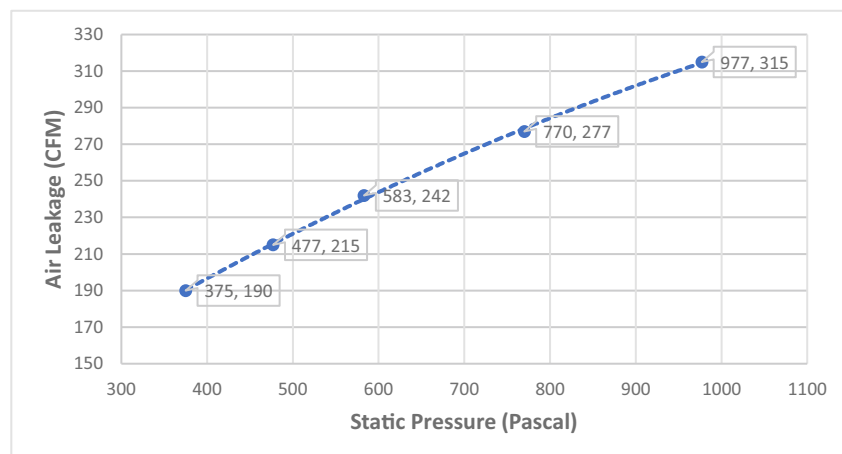
Pressure Drop

Air Flow (CFM)	2000	4000	5000	6000	8000	10000
Air Velocity (FPM)	500	1001	1251	1501	2002	2502
Pressure Drop (Pascal)	7	36	56	81	146	226



Air Leakage in Closed Condition

Static Pressure (Pascal)	375	477	583	770	977
Air Leakage (CFM)	190	215	242	277	315

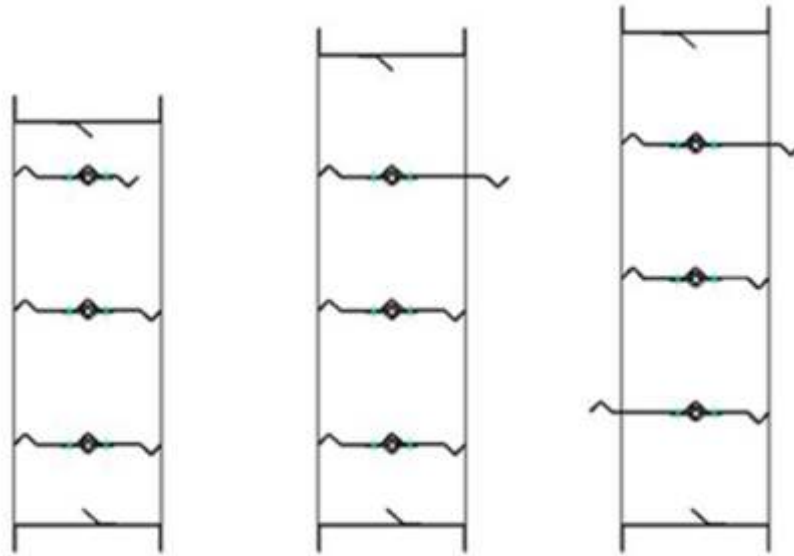


Pressure drop & Air Leakage testing was conducted in accordance with AMCA Standard 500-D. Specimen size was 610mm x 610mm.

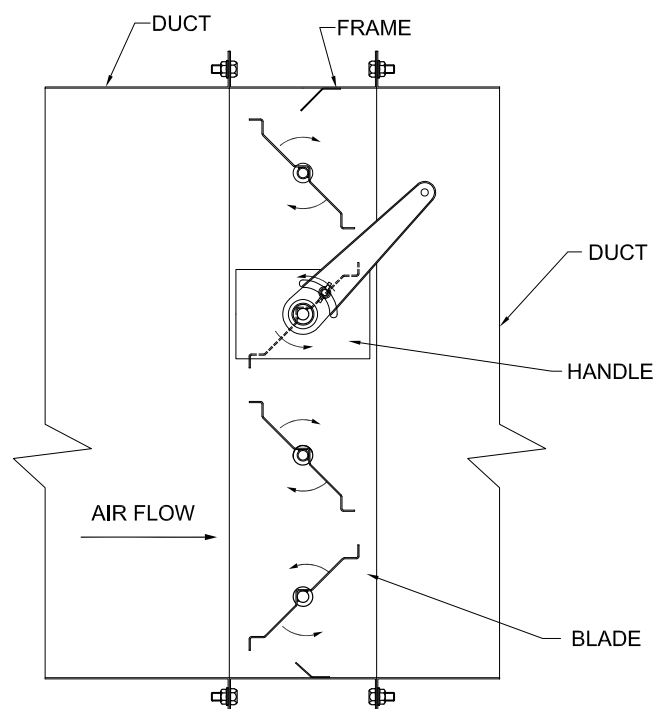
Actual pressure drop & Air Leakage found in any HVAC system is a combination of many factors. This pressure drop & Air Leakage information along with an analysis of other system influences should be used to estimate actual pressure losses & air leakage for a damper installed in a given HVAC system.

Product Information

Note : Caryaire dampers are designed for the lowest possible pressure drop. Our engineering team processes each order individually and provides blade width for the desired heights and ensures that the damper has the highest free area, in open condition, and hence the lowest pressure drop. In order to do this, our blade widths may differ and protrude outside the damper frame from one or more sides, up to a maximum of 48mm.



Installation Detail



Product Information



Specifications

Control Damper frame is galvanized steel of 16Ga thickness, formed into a C channel in 4-piece construction. Frame is 165mm width with 30mm Flanges suitable for duct connection. Damper Blades are single skin galvanized steel of 16Ga thickness and have 3 accurately roll formed longitudinal grooves for reinforcement and proper closure and operation. The blades are arranged for opposed motion to provide least turbulence when in partially open condition. Each Blade has axles, supported on both sides with corrosion resistant bearings turning in an extruded hole in the frame. All Blades are interconnected using linkage in the frame section, out of the airstream.