

Reference:

Client:

Project:

Consultant:

Location:

Contractor:

Date:

Submitted by: **BM**



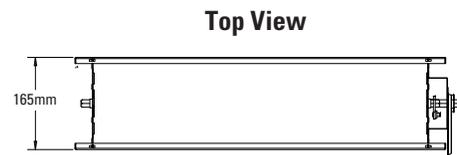
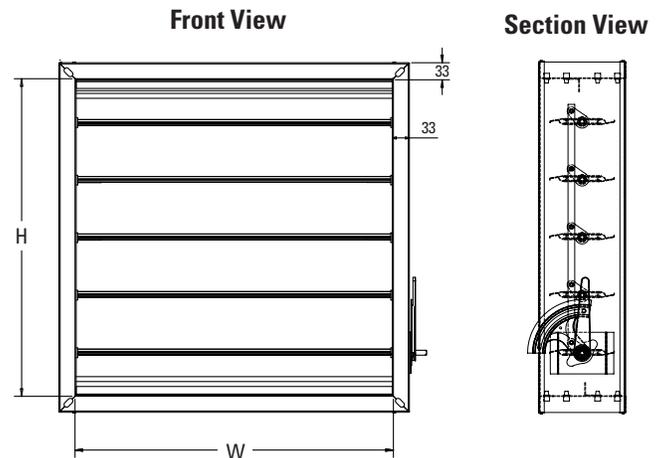
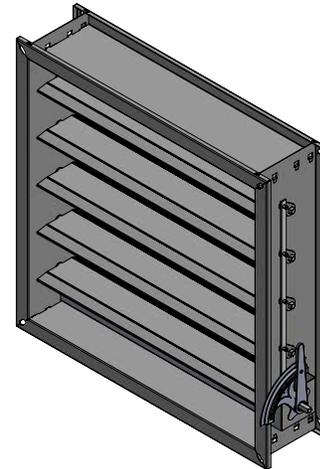
**Model CDF-165 Series**  
Commercial Control Dampers  
Airfoil Blade  
Manual Quadrant/Motorised

**Application:**

The BAS/ CVS commercial control damper models CDF-165-AF-Q and CDF-165-AF-M are intended for low to high pressure and velocity applications and can be provided in opposed or parallel blade orientations. The model CDF-165-AF-Q (manual quadrant) is a general purpose commercial control damper for use in manual balancing control applications where tight sealing is not of primary importance. The model CDF-165-AF-M (motorised) is a general purpose commercial control damper for use in automatic balancing control or shut off applications where tight sealing is a primary requirement.

**Standard Construction:**

|                                | Standard   | Optional  |
|--------------------------------|--|---|
| <b>Frame Material</b>          | 20 gauge thick roll formed galvanized steel flanged frame                        | Multiple gauges galvanized steel or stainless steel flange frame and other flange sizes (only for roll formed frames) |
| <b>Frame Depth</b>             | 165mm  | Other depths available (only for roll formed frames)  |
| <b>Blade Material and Type</b> | 16 gauge galvanized steel roll formed airfoil shape double skin profile (Type 2) | 1.4 mm thick extruded aluminum 6063-T6 airfoil shape (Type 1)   |
| <b>Blade Seal</b>              | Q - None<br>M - Foam Type  | Q - Foam Type, Neoprene, EPDM, Silicon Rubber<br>M - Neoprene, EPDM, Silicon Rubber                                   |
| <b>Blade Operator</b>          | Q - Manual Quadrant<br>M - Electric Actuator (On/Off Type)                       | M - Electric Actuator (Modulating type)   |
| <b>Dimensions</b>              | Actual   | -----   |
| <b>Axle Material</b>           | Zinc plated steel  | Stainless steel   |
| <b>Axle Bearings</b>           | Nylon  | Brass, Bronze, Stainless steel, Acetal Copolymer, Polycarbonate   |
| <b>Type of Blade Operation</b> | Parallel   | Opposed   |
| <b>Jamb Seal</b>               | Q - None<br>M - SS301  | Q - SS301   |



**Minimum & Maximum Sizes:**

| Model                                 | Minimum Single Section | Maximum Single Section     | Maximum Multi Section                      |
|---------------------------------------|------------------------|----------------------------|--|
| <b>CDF-165-AF-Q (Manual quadrant)</b> | 5" x 6"<br>(127 x 152) | 48" x 48"<br>(1219 x 1219) | Unlimited Size<br>(Please consult factory) |
| <b>CDF-165-AF-M (Motorised)</b>       |                        |                            |  |

All dimensions shown in inches, parentheses ( ) indicate millimeters.

**Optional Construction:**

Operators: Manual Quadrant  
Actuators: 24V 230V  
Spring Return Non-Spring Return  
On/Off Modulating  
Airfoil Blade Construction: Type 1

**Airfoil Blade - Type 1**



**Airfoil Blade - Type 2**



As part of our continuous improvement program, we reserve the right to make further improvements without notice.

Submittal

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Submitted by: BM



### Model CDF-165 Series

Commercial Control Dampers

3V Blade

Manual Quadrant/Motorised

#### Application:

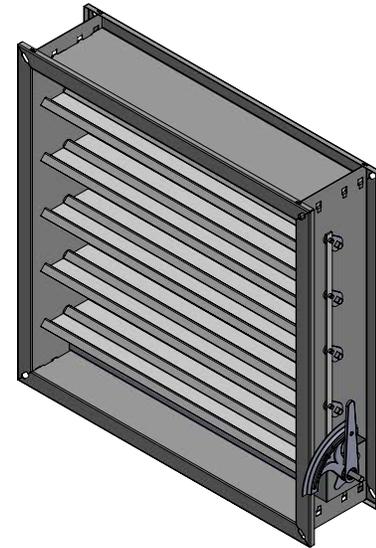
The BAS/ CVS commercial control damper models CDF-165-3V-Q and CDF-165-3V-M are intended for low to high pressure and velocity applications and can be provided in opposed or parallel blade orientations.

The model CDF-165-3V-Q (manual quadrant) is a general purpose commercial control damper for use in manual balancing control applications where tight sealing is not of primary importance.

The model CDF-165-3V-M (motorised) is a general purpose commercial control damper for use in automatic balancing control or shut off applications where tight sealing is a primary requirement.

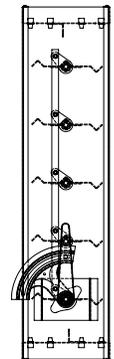
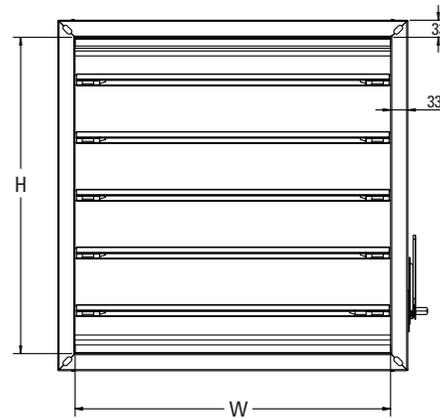
#### Standard Construction:

|                                | Standard   | Optional  |
|--------------------------------|--|---|
| <b>Frame Material</b>          | 20 gauge thick roll formed galvanized steel flanged frame  | Multiple gauges galvanized steel or stainless steel flange frame and other flange sizes (only for roll formed frames) |
| <b>Frame Depth</b>             | 165mm  | Other depths available (only for roll formed frames)  |
| <b>Blade Material and Type</b> | 16 gauge galvanized steel roll formed 3V shape profile     | Multiple gauges of galvanized steel & stainless steel roll formed 3V shape profile                                    |
| <b>Blade Seal</b>              | Q - None<br>M - Foam Type                                  | Q - Foam Type, Neoprene, EPDM, Silicon Rubber<br>M - Neoprene, EPDM, Silicon Rubber                                   |
| <b>Blade Operator</b>          | Q - Manual Quadrant<br>M - Electric Actuator (On/Off Type) | M - Electric Actuator (Modulating type)   |
| <b>Dimensions</b>              | Actual   |   |
| <b>Axle Material</b>           | Zinc plated steel  | Stainless steel   |
| <b>Axle Bearings</b>           | Nylon  | Brass, Bronze, Stainless steel  |
| <b>Type of Blade Operation</b> | Parallel   | Opposed   |
| <b>Jamb Seal</b>               | Q - None<br>M - SS301                                      | Q - SS301   |

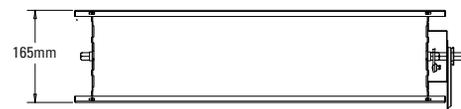


Front View

Section View



Top View



#### Minimum & Maximum Sizes:

| Model                                    | Minimum Single Section | Maximum Single Section     | Maximum Multi Section                      |
|--|------------------------|----------------------------|--|
| <b>CDF-165-3V-Q</b><br>(Manual quadrant) | 4" x 4"<br>(101 x 101) | 48" x 48"<br>(1219 x 1219) | Unlimited Size<br>(Please consult factory) |
| <b>CDF-165-3V-M</b><br>(Motorised)       |                        |                            |  |

All dimensions shown in inches, parentheses ( ) indicate millimeters.

#### Optional Construction:

Operators:

Actuators: 24V 230V  
Spring Return Non-Spring Return  
On/Off Modulating

Manual Quadrant

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Submittal