

Reference:

Client:

Project:

Consultant:

Location:

Contractor:

Date:

Submitted by: **BM**



**Model CDF-100 Series**  
Commercial Control Dampers  
*Airfoil Blade*  
Manual Quadrant/Motorised

**Application:**

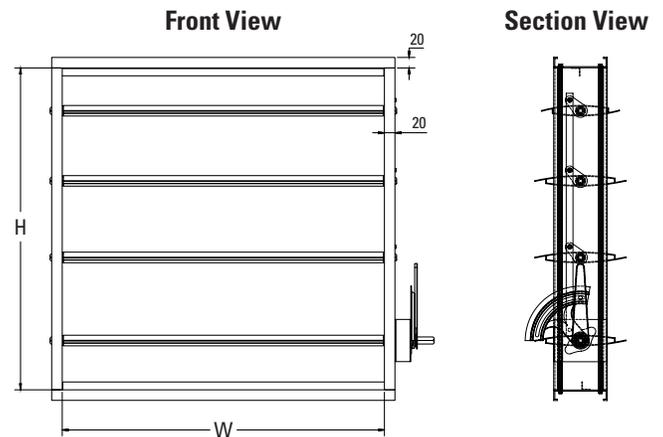
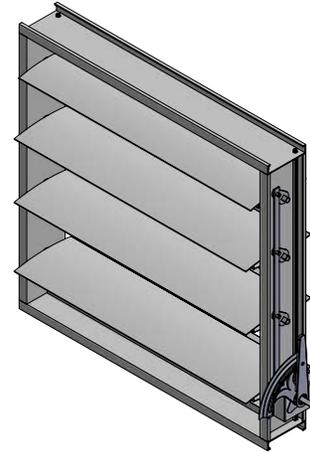
The BAS/ CVS commercial control damper models CDF-100-AF-Q and CDF-100-AF-M are intended for low to high pressure and velocity applications and can be provided in opposed or parallel blade orientations.

The model CDF-100-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-100-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>	2.3mm thick extruded aluminium 6063-T6 flanged frame	Multiple gauges galvanized steel or stainless steel flange frame and other flange sizes (only for roll formed frames)
<b>Frame Depth</b>	100mm	Other depths available (only for roll formed frames)
<b>Blade Material and Type</b>	1.4 mm thick extruded aluminum 6063-T6 airfoil shaped (Type 1)	16 gauge galvanized steel or stainless steel roll formed airfoil shape double skin profile (Type 2)
<b>Blade Seal</b>	Q - None M - Foam Type	Q - Foam Type, Neoprene, EPDM, Silicon Rubber M - Neoprene, EPDM, Silicon Rubber
<b>Blade Operator</b>	Q - Manual Quadrant 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 M - SS301	Q - SS301



**Minimum & Maximum Sizes:**

Model	Minimum Single Section	Maximum Single Section	Maximum Multi Section
<b>CDF-100-AF-Q</b> (Manual quadrant)	5" x 6" (127 x 152)	48" x 48" (1219 x 1219)	Unlimited Size (Please consult factory)
<b>CDF-100-AF-M</b> (Motorised)			

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 2

**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.

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### Model CDF-100 Series

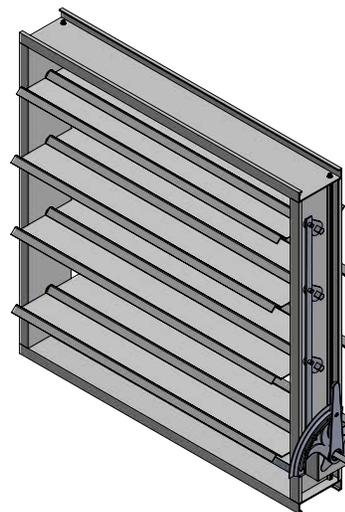
Commercial Control Dampers  
3V Blade  
Manual Quadrant/Motorised

#### Application:

The BAS/ CVS commercial control damper models CDF-100-3V-Q and CDF-100-3V-M are intended for low to high pressure and velocity applications and can be provided in opposed or parallel blade orientations. The model CDF-100-3V-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-100-3V-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.

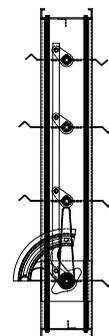
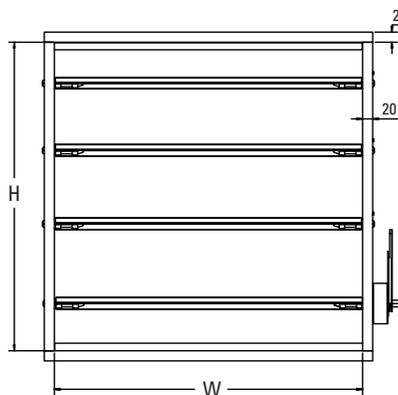
#### Standard Construction:

	Standard	Optional
<b>Frame Material</b>	2.3mm thick extruded aluminium 6063-T6 flanged frame	Multiple gauges galvanized steel or stainless steel flange frame and other flange sizes (only for roll formed frames)
<b>Frame Depth</b>	100mm	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 M - Foam Type	Q - Foam Type, Neoprene, EPDM, Silicon Rubber M - Neoprene, EPDM, Silicon Rubber
<b>Blade Operator</b>	Q - Manual Quadrant 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 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-100-3V-Q</b> (Manual quadrant)	4" x 4" (101 x 101)	48" x 48" (1219 x 1219)	Unlimited Size (Please consult factory)
<b>CDF-100-3V-M</b> (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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