



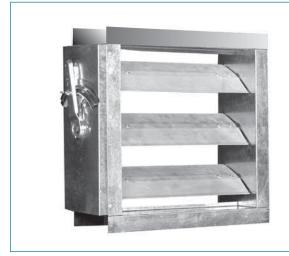


PAGE NO. CONTENTS 01 & 02 Flanged Volume Control Dampers – Model VCD-F1. 03 & 04 Flanged Volume Control Dampers – Model VCD-F2. 05 & 06 Flanged Volume Control Dampers – Model VCD-F3. Slip and Clip Volume Control Dampers – Model VCD-S1. 07 & 08 Slip and Clip Volume Control Dampers – Model VCD-S2. 09 & 10 Slip and Clip Volume Control Dampers – Model VCD-S3. 11 & 12 13 & 14 Round Volume Control Dampers – Model VCD-R. Ordering Data. 15





Model VCD - F1 Shape Square or Rectangular Connection Flanged Type Blades Section Double Skin Aerofoil Blades Construction Extruded Aluminium Blades Operation Manual (Parallal or Opposed)



Features & Characterstics

- VCD F1 single or multi leaf dampers have been specifically designed for use in ventilation systems for volume, flow and pressure control in square and rectangular ducts and air handling units.
- Dampers are ruggedly built, with a casing of robust assembly formed from channel frame for flanged connection to ductwork.
- The blades design provides lower pressure drop in the open position for smooth air motion with reduced turbulence.
- Available in wide variety of standard duct sizes ranging from 100 x 100 mm up to 1200 x 1200 mm in 50 mm increments (other non – standard sizes are available on request.
- Any size combination with a height up to 150 mm is manufactured in single blade unit.
 Other sizes are manufactured in multi blades unit.

Construction Details

Frame: Galvanized steel, 16 or 18 gauge depending on damper size. Formed channel for flanged connection.

Flange Width: 30 mm (standard).

Blades: Extruded Aluminium, double skin with aerofoil section.

Finish:

Frame: Mill Galvanized. Blades: Mill Aluminium.

Axle: Blades rotating around its centre by means of zinc plated steel connecting axle (Spindle).

Bearings: Blades are fixed with the frame by means of plastic bushes.

Linkage: Zinc plated steel side mounted linkage concealed inside the frame.

Blades Seal : As an option, blades rubber gasket seal at one edge is available on request to seal blade to blade joint for low air leakage operation.

Hand Locking Quadrant: Unless otherwise required, all dampers are equipped with external galvanized steel hand quadrant as standard to:

- Adjust damper opening position.
- Indicate damper opening position.
- Lock the blades at the desired position.

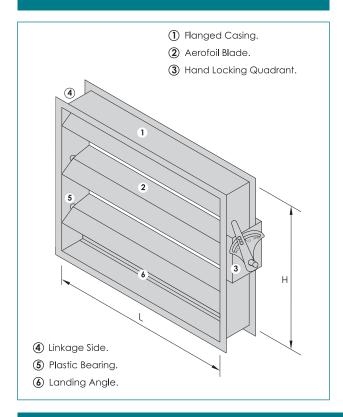
Also, dampers are available with extended steel shaft suitable for electrical actuator assembly.

Minimum Size : 100 x 100 mm.

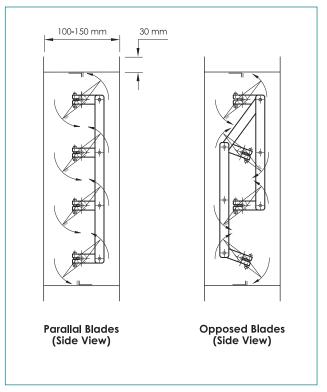
Maximum Size: $1200 \times 1200 \text{ mm}$ as a single section. Multiple section assembly is unlimited where each section operates independently.

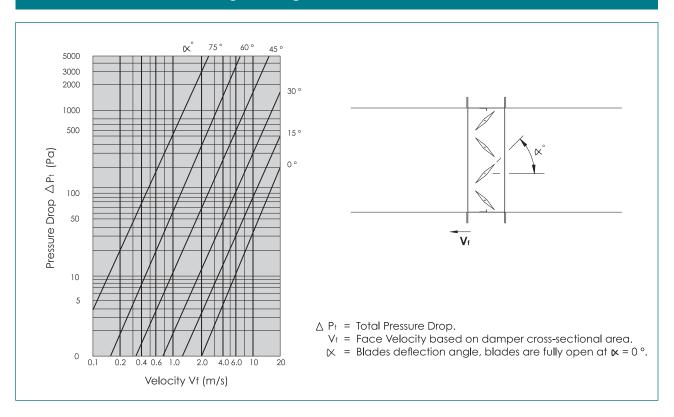


Model VCD - F1



Blades and Linkage Operation







ModelVCD - F2ShapeSquare or RectangularConnectionFlanged TypeBlades SectionDouble Skin AerofoilBlades ConstructionGalvanized SteelBlades OperationManual (Parallal or Opposed)



Features & Characterstics

- VCD F2 single or multi leaf dampers have been specifically designed for use in ventilation systems for volume, flow and pressure control in square and rectangular ducts and air handling units.
- Dampers are ruggedly built, with a casing of robust assembly formed from channel frame for flanged connection to ductwork.
- The blades design provides lower pressure drop in the open position for smooth air motion with reduced turbulence.
- Available in wide variety of standard duct sizes ranging from 100 x 100 mm up to 1200 x 1200 mm in 50 mm increments (other non – standard sizes are available on request.
- Any size combination with a height up to 250 mm is manufactured in single blade unit.
 Other sizes are manufactured in multi blades unit.

Construction Details

Frame: Galvanized steel, 16 or 18 gauge depending on damper size. Formed channel for flanged connection.

Flange Width: 30 mm (standard).

Blades: Galvanized steel sheet, double skin with gerofoil section.

Finish:

Frame: Mill Galvanized. Blades: Mill Aluminium.

Axle: Blades rotating around its centre by means of zinc plated steel connecting axle (Spindle).

Bearings : Blades are fixed with the frame by means of plastic bushes.

Linkage: Zinc plated steel side mounted linkage concealed inside the frame.

Blades Seal: As an option, blades rubber gasket seal at one edge is available on request to seal blade to blade joint for low air leakage operation.

Hand Locking Quadrant: Unless otherwise required, all dampers are equipped with external galvanized steel hand quadrant as standard to:

- Adjust damper opening position.
- Indicate damper opening position.
- Lock the blades at the desired position.

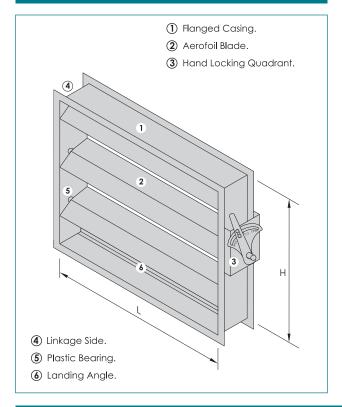
Also, dampers are available with extended steel shaft suitable for electrical actuator assembly.

Minimum Size : 100 x 100 mm.

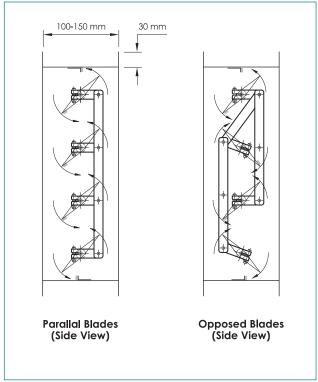
Maximum Size: $1200 \times 1200 \text{ mm}$ as a single section. Multiple section assembly is unlimited where each section operates independently.

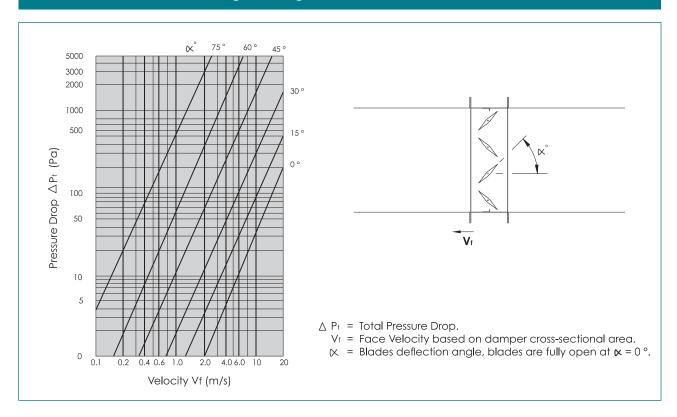


Model VCD - F2



Blades and Linkage Operation







ModelVCD - F3ShapeSquare or RectangularConnectionFlanged TypeBlades Section3V - Single Skin BladeBlades ConstructionGalvanized SteelBlades OperationManual (Parallal or Opposed)



Features & Characterstics

- VCD F3 single or multi leaf dampers have been specifically designed for use in ventilation systems for volume, flow and pressure control in square and rectangular ducts and air handling units.
- Dampers are ruggedly built, with a casing of robust assembly formed from channel frame for flanged connection to ductwork.
- The blades design provides lower pressure drop in the open position for smooth air motion with reduced turbulence.
- Available in wide variety of standard duct sizes ranging from 100 x 100 mm up to 1200 x 1200 mm in 50 mm increments (other non – standard sizes are available on request.
- Any size combination with a height up to 250 mm is manufactured in single blade unit.
 Other sizes are manufactured in multi blades unit.

Construction Details

Fame: Galvanized steel, 16 or 18 gauge depending on damper size. Formed channel for flanged connection.

Flange Width: 30 mm (standard).

Blades: Galvanized steel sheet, "3V" formed, single skin blades.

Finish:

Frame: Mill Galvanized. Blades: Mill Galvanized.

Axle: Blades rotating around its centre by means of zinc plated steel stud.

Bearings: Blades are fixed with the frame by means of plastic bushes.

Linkage: Zinc plated steel side mounted linkage concealed inside the frame.

Blades Seal : As an option, blades rubber gasket seal at one edge is available on request to seal blade to blade joint for low air leakage operation.

Hand Locking Quadrant : Unless otherwise required, all dampers are equipped with external galvanized steel hand quadrant as standard to:

- Adjust damper opening position.
- Indicate damper opening position.
- Lock the blades at the desired position.

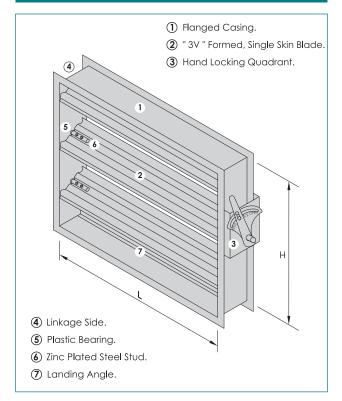
Also, dampers are available with extended steel shaft suitable for electrical actuator assembly.

Minimum Size : 100 x 100 mm.

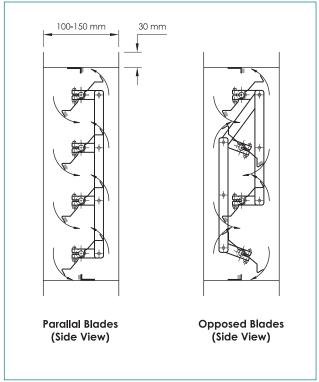
Maximum Size: $1200 \times 1200 \text{ mm}$ as a single section. Multiple section assembly is unlimited where each section operates independently.

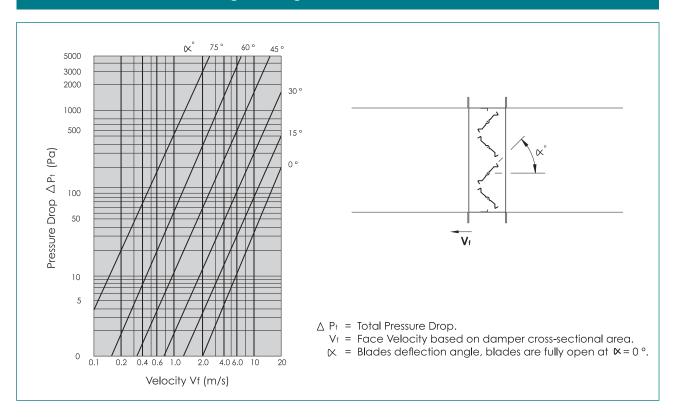


Model VCD - F3



Blades and Linkage Operation







Model

Shape

Square or Rectangular

Connection

Slip & Clip Type

Blades Section

Double Skin Aerofoil

Blades Construction

Extruded Aluminium

Blades Operation

Manual (Parallal or Opposed)



Features & Characterstics

- VCD \$1 single or multi leaf dampers have been specifically designed for use in ventilation systems for volume, flow and pressure control in square and rectangular ducts and air handling units.
- Dampers are ruggedly built, with a casing of robust assembly formed from channel frame for flanged connection to ductwork.
- The blades design provides lower pressure drop in the open position for smooth air motion with reduced turbulence.
- Available in wide variety of standard duct sizes ranging from 100 x 100 mm up to 1200 x 1200 mm in 50 mm increments (other non – standard sizes are available on request.
- Any size combination with a height up to 150 mm is manufactured in single blade unit.
 Other sizes are manufactured in multi blades unit.

Construction Details

Frame: Galvanized steel, 16 or 18 gauge depending on damper size. Formed for Slip and Clip connection to ductwork.

Blades: Extruded Aluminium, double skin with aerofoil section.

Finish:

Frame: Mill Galvanized. Blades: Mill Aluminium.

Axle: Blades rotating around its centre by means of zinc plated steel connecting axle (Spindle).

Bearings: Blades are fixed with the frame by means of plastic bushes.

Linkage: Zinc plated steel side mounted linkage concealed outside the frame.

Blades Seal: As an option, blades rubber gasket seal at one edge is available on request to seal blade to blade joint for low air leakage operation.

Hand Locking Quadrant: Unless otherwise required, all dampers are equipped with external galvanized steel hand quadrant as standard to:

- Adjust damper opening position.
- Indicate damper opening position.
- Lock the blades at the desired position.

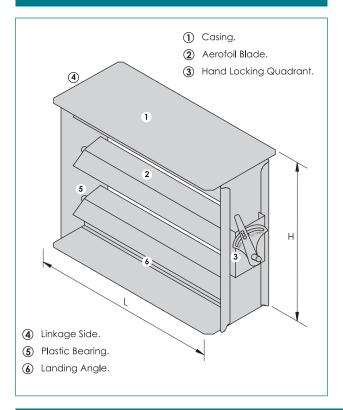
Also, dampers are available with extended steel shaft suitable for electrical actuator assembly.

Minimum Size : 100 x 100 mm.

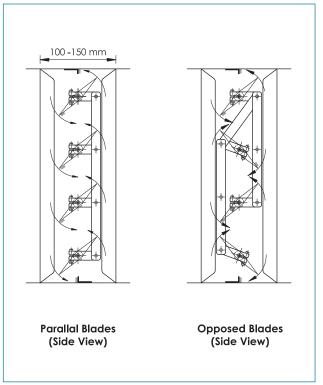
Maximum Size: 1200 x 1200 mm as a single section. Multiple section assembly is unlimited where each section operates independently.

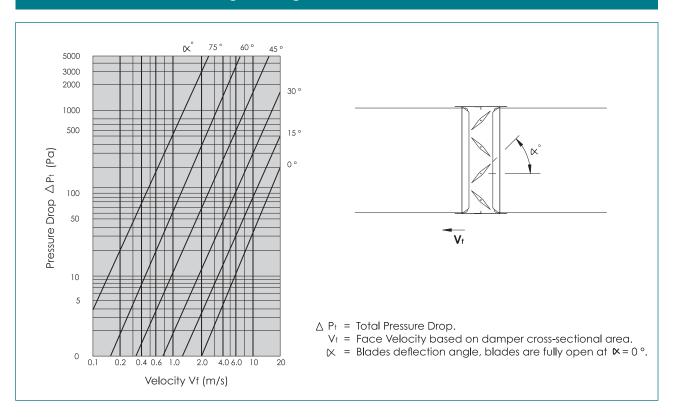


Model VCD - \$1



Blades and Linkage Operation







ModelVCD - S2ShapeSquare or RectangularConnectionSlip & Clip TypeBlades SectionDouble Skin AerofoilBlades ConstructionGalvanized SteelBlades OperationManual (Parallal or Opposed)



Features & Characterstics

- VCD S2 single or multi leaf dampers have been specifically designed for use in ventilation systems for volume, flow and pressure control in square and rectangular ducts and air handling units.
- Dampers are ruggedly built, with a casing of robust assembly formed from channel frame for flanged connection to ductwork.
- The blades design provides lower pressure drop in the open position for smooth air motion with reduced turbulence.
- Available in wide variety of standard duct sizes ranging from 100 x 100 mm up to 1200 x 1200 mm in 50 mm increments (other non – standard sizes are available on request.
- Any size combination with a height up to 250 mm is manufactured in single blade unit.
 Other sizes are manufactured in multi blades unit.

Construction Details

Frame: Galvanized steel, 16 or 18 gauge depending on damper size. Formed for Slip and Clip connection to ductwork.

Blades: Galvanized steel sheet, double skin with aerofoil section.

Finish:

Frame: Mill Galvanized.
Blades: Mill Galvanized.

Axle: Blades rotating around its centre by means of zinc plated steel connecting axle (Spindle).

Bearings: Blades are fixed with the frame by means of plastic bushes.

Linkage: Zinc plated steel side mounted linkage concealed outside the frame.

Blades Seal: As an option, blades rubber gasket seal at one edge is available on request to seal blade to blade joint for low air leakage operation.

Hand Locking Quadrant: Unless otherwise required, all dampers are equipped with external galvanized steel hand quadrant as standard to:

- Adjust damper opening position.
- Indicate damper opening position.
- Lock the blades at the desired position.

Also, dampers are available with extended steel shaft suitable for electrical actuator assembly.

Minimum Size : 100 x 100 mm.

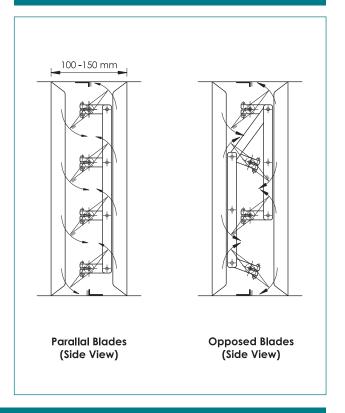
Maximum Size: 1200 x 1200 mm as a single section. Multiple section assembly is unlimited where each section operates independently.

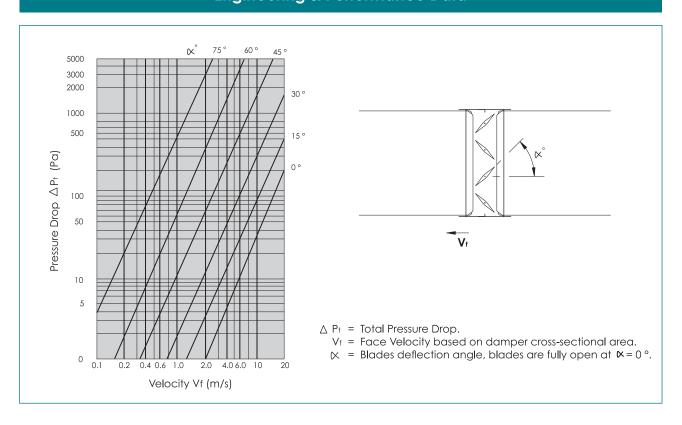


Model VCD - S2

① Casing. ② Aerofoil Blade. ③ Hand Locking Quadrant. 1 4 Linkage Side. ⑤ Plastic Bearing. ⑥ Landing Angle.

Blades and Linkage Operation







ModelVCD - S3ShapeSquare or RectangularConnectionSlip & Clip TypeBlades Section3V - Single Skin BladeBlades ConstructionGalvanized SteelBlades OperationManual (Parallal or Opposed)



Features & Characterstics

- VCD S3 single or multi leaf dampers have been specifically designed for use in ventilation systems for volume, flow and pressure control in square and rectangular ducts and air handling units.
- Dampers are ruggedly built, with a casing of robust assembly formed from channel frame for flanged connection to ductwork.
- The blades design provides lower pressure drop in the open position for smooth air motion with reduced turbulence.
- Available in wide variety of standard duct sizes ranging from 100 x 100 mm up to 1200 x 1200 mm in 50 mm increments (other non – standard sizes are available on request.
- Any size combination with a height up to 250 mm is manufactured in single blade unit.
 Other sizes are manufactured in multi blades unit.

Construction Details

Frame: Galvanized steel, 16 or 18 gauge depending on damper size. Formed for Slip and Clip connection to ductwork.

Blades: Galvanized steel sheet, "3V" formed, single skin blades.

Finish:

Frame: Mill Galvanized. Blades: Mill Galvanized.

Axle: Blades rotating around its axis by means of zinc plated steel stud.

Bearings: Blades are fixed with the frame by means of plastic bushes.

Linkage: Zinc plated steel side mounted linkage concealed in the frame.

Blades Seal : As an option, blades rubber gasket seal at one edge is available on request to seal blade to blade joint for low air leakage operation.

Hand Locking Quadrant: all dampers are equipped with external galvanized steel hand quadrant to:

- Adjust damper opening position.
- Indicate damper opening position.
- Lock the blades at the desired position.

Also, dampers are available with extended steel shaft suitable for electrical actuator assembly.

Minimum Size : 100 x 100 mm.

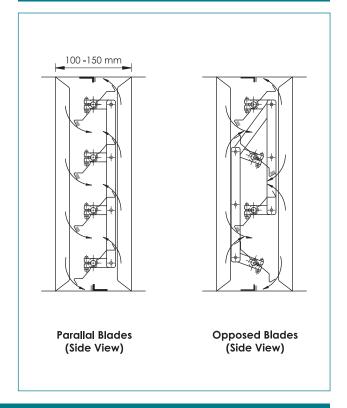
Maximum Size: 1200 x 1200 mm as a single section. Multiple section assembly is unlimited where each section operates independently.

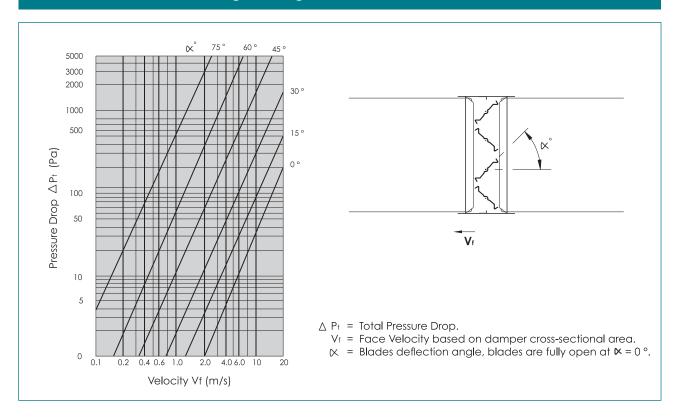


Model VCD - S3

① Casing. ② "3V" Formed, Single Skin Blade. ③ Hand Locking Quadrant. ④ Linkage Side. ⑤ Plastic Bearing. ⑥ Zinc Plated Steel Stud. ⑦ Landing Angle.

Blades and Linkage Operation







Model	VCD - R		
Shape	Round (Circular)		
Connection	Open Ends w/o Flanges		
Type of Ends	Grooved or Straight		
Blade Section	Single Skin Blade		
Blade Construction	Galvanized Steel		





Features & Characterstics

- VCD R round type volume control dampers have been specifically designed for the use in circular duct installations and at the connections between flexible ducts and the inlets of supply air plenums to regulate air flow and control pressure.
- Also these dampers can be used as Shut – Off dampers when sealing against air flow is required.
- Available with open:
 - Grooved Ends or,
 - Straight Ends.
- Available in wide variety of standard duct sizes ranging from 100 mm Ø up to 600 mm Ø in 50 mm increments.

Construction Details

Casing: Galvanized steel, 18 or 20 gauge depending on damper size. Circular formed for circular duct connections.

Ends Type : Open Grooved Ends or, Open Straight Ends.

Blade: Galvanized steel sheet, circular formed, single skin blade.

Finish:

Casing: Mill Galvanized. Blade: Mill Galvanized.

Axle: Blade rotating around its centre by means of zinc plated steel connecting axle (Spindle).

Bearings: Blade are fixed with the frame by means of plastic bushes.

Hand Locking Quadrant: Unless otherwise required, all dampers are equipped with external galvanized steel hand quadrant as standard to:

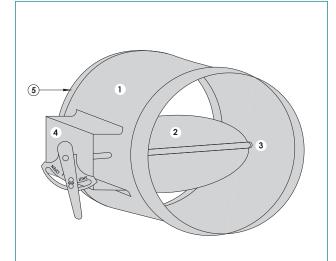
- Adjust damper opening position.
- Indicate damper opening position.
- Lock the blades at the desired position.

Also, dampers are available with extended steel shaft suitable for electrical actuator assembly.

Minimum Size: 100 mm Ø. Maximum Size: 600 mm Ø.

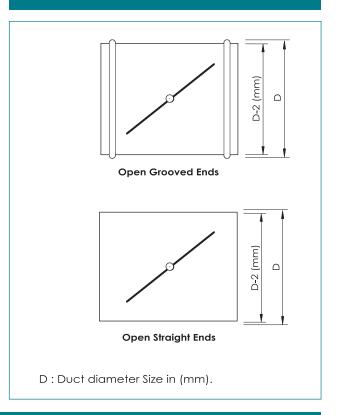


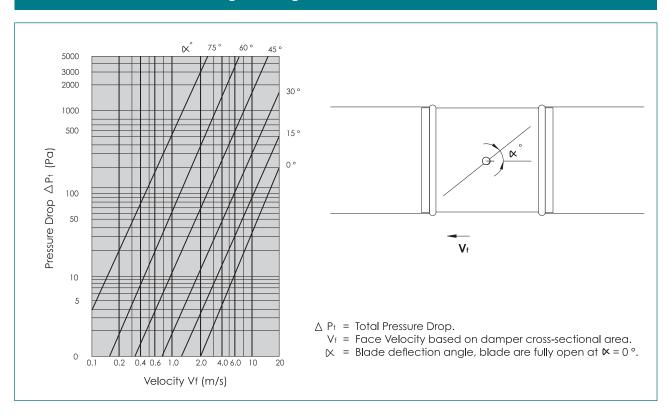
Model VCD - R



- ① Casing.
- 2 Blade.
- 3 Plastic Bearing.
- 4 Hand Locking Quadrant.
- (5) Groove.

Type of Ends and Connections







Ordering Data

• Ordering Specifications:

Specify:

- 1. VCD Model (VCD-F1,F2,F3,S1,....etc).
- 2. Duct Size.
- 3. Quantity.
- 4. Blades operation, Parallel or Opposed type(this specification is not applicable for the Model VCD-R).
- 5. Type of Ends, Grooved or Straight (only mention for the Model VCD-R).
- 6. Blades Seal Rubber Gasket (Optional Accessories).

Example 1:

1	2	3	4	5	6
VCD-FI	12" x 8" 300 x 200 (mm)	22	Parallel	-	-

Example 2:

1	2	3	4	5	6
VCD-\$1	24" x 16" 600 x 400 (mm)	5	Opposed	-	With Blades Seal

Example 3:

1	2	3	4	5	6
VCD-R	10 " Ø 250 mm Ø	30	-	Grooved Ends	_



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