

# VOLUME CONTROL DAMPER (VCD)

## MANUFACTURER OF AIR OUTLETS :

Grills, Diffusers, Control Volume Damper (VCD), Non Return Damper (NRD), Fire Rated Air Ducting and Louvers Systems.

FABRICATION OF GI DUCTS, PI DUCTS, FLEXIBLE DUCTS & EXHAUST AND FRESH AIR LOUVERS

SALE OF FIRE DAMPERS, MOTORIZED SMOKE FIRE DAMPER (MSFD)



## VOLUME CONTROL DAMPER

### FLANGE TYPE GA-VCD/ GG-VCD/GAM-VCD



- **GA- VCD** – Flange type Galvanized steel frame with aluminium blade and hand- operated quadrant.
- **GG-VCD** – Flanged type galvanized steel frame with Galvanized steel blade and hand-operated quadrant.
- **GAM – VCD** – Flange type Galvanized steel frame with aluminium blade and control electric motor. Generally used for application in G.I Ducts and Pre- Insulated Ducts.

#### Application:

- The Flange type Volume Damper has been specially designed for installation in system where high/ medium/ low pressure is experienced. These dampers are designed to operate one control point.
- The dampers blade opening is controlled by hand locking quadrant. (**GA-VCD & GG-VCD**)
- The Dampers blade opening is controlled by electric motor.( **GAM-VCD**)

## VOLUME CONTROL DAMPER



VCD are installed to control and manage the efficient airflow within the designed area. Hence its selection process will be important to assure good operating characteristics in any airflow system, to maximize energy efficiency and minimize installation cost.

Air damper are being manufactured by Airpro to meet varied requirements of air ventilation systems. These dampers constitute of fire damper, volume control damper and duct dampers.



## VOLUME CONTROL DAMPER

### Dimensions of Dampers:

- Minimum size of 100mm (width) x 100mm (height) and maximum size of 2000mm (width) x 2000mm (height)
- Standard size of the flange is 20mm
- Standard length is 170mm.

### Material Specifications:

- **Casing** – 1.2 thickness (18 gauge) GI sheet
- **Blades** – Airfoil blades made of 1.1mm thick Aluminium extruded **(GA-VCD)**  
Blades made of 0.9 mm thickness (21 gauge) GI sheet **(GG-VCD)**
- **Bushes** – PVC bushes 12mm x 12mm sq. with drive/bronze.
- **Linkage** – Linkages are made of 3mm thick Galvanized sheet.
- **Handle** – Handle is made of 1.2mm thick (18 gauge) Galvanized steel with integral rotation slot indicating blade open & close position.**(GA/GG-VCD)**
- **Spindle** – Spindles are made of 12mm x 12mm square Galvanized Steel.
- **Operating** – 10° to 110° as standard.

### Selection of Motors (GAM-VCD)

- Motors are selected by torque requirements and application type in relation to the size of the dampers.

Size of Damper (mm)	Torque of Motor (Nm)	Type of Motor
From 100x100 to 500x500	5	On/ Off or Modulating
From 550x550 to 1000x1000	10	On/ Off or Modulating
From 1050x2000 to 1050x2000	20	On/ Off or Modulating



## VOLUME CONTROL DAMPER

### SLIP & CLIP TYPE GAS-VCD/GGS-VCD



- **GAS – VCD** – Slip & Clip type Galvanized steel frame with aluminium blade and hand-operated quadrant.
- **GGS- VCD** – Slip & Clip type Galvanized steel frame with Galvanized steel blade and hand-operated quadrant. Generally used for majority applications in GI ducts. Sizes are limited to 600mm (width) x 400mm (height) only.

#### Application:

- The Slip & Clip Type Volume Damper has been specially designed for installation in system where medium/ low pressure is experienced .These dampers are designed to operate from one control point. The damper's blade opening is controlled by hand locking quadrant.

#### Dimensions of Dampers:

- Minimum size of 100mm (width) x 100mm (height) and maximum size of 600mm (width) x 400mm (height).
- Standard length is 170mm.

#### Material Specifications:

- **Casing** – 0.7mm thickness (23 gauge) GI sheet or custom built.
- **Blade** – Airfoil blades made of 1.1mm thick aluminium extruded. **(GAS-VCD)**  
Blades made of 0.7mm thickness (23 gauge) GI sheet. **(GGS –VCD)**
- **Bushes** – PVC bushes 12mm x 12mm square with drive/bronze.
- **Linkage** – Linkages are made of 3mm thick Galvanized steel.

## VOLUME CONTROL DAMPER

- **Handle** – is made of 1.2mm thick (18 gauge). Galvanized steel with integral rotation slot indicating blade open and close position.
- **Spindles** – are made of 12mm x 12mm square Galvanized steel.
- **Operating Temperature** – 10 C° to 110° as standard.

### BOX TYPE-GAB-VCD

- Box type Galvanized steel frame with aluminium blade and hand-operated quadrant. Generally used for majority applications in GI ducts and Pre-Insulated ducts. Sizes are limited to 600mm (width) x 400mm (height) only.
- A Box type volume control damper for installation is system where medium/ low pressure is experienced. These dampers are designed to operate from one control point. The dampers blade opening is controlled by hand locking quadrant.

### Dimensions of Dampers:

- Minimum size of 100mm (width) x 100mm (height) and maximum size of 600mm (width) x 400mm (height).
- Standard length 170mm.

### Material Specification:

- **Casing** – 0.9mm thickness (21 gauge) GI sheet.
- **Blades** – Airfoil Blades made of 1.1mm thick aluminium extruded.
- **Bushes** – PVC bushes 12mm x 12mm sq. w/drive.
- **Linkage** – are made of 3mm thick Galvanized steel.
- **Handle** – is made of 1.2mm thick (18 gauge). Galvanized steel with integral rotation slot indicating blade open & close position.
- **Spindle** – are made of 12mm x 12mm square Galvanized steel.
- **Operating Temperature** – 10 ° x 110° as standard.

## VOLUME CONTROL DAMPER

### ROUND TYPE GGR-VCD



- Round type Galvanized steel frame with Galvanized blade and hand-operated quadrant. Generally used for applications in GI ducts and pre-insulated ducts.
- Round type volume control damper has been specially designed for installation in system where high/medium/low pressure is experienced. These dampers are designed to operate from one control point. The damper's blade opening is controlled by hand locking quadrant.

#### Dimensions of Dampers:

- Minimum size of VCD is 100mm $\emptyset$  and maximum size is 400mm $\emptyset$ .
- Standard length is as follows:

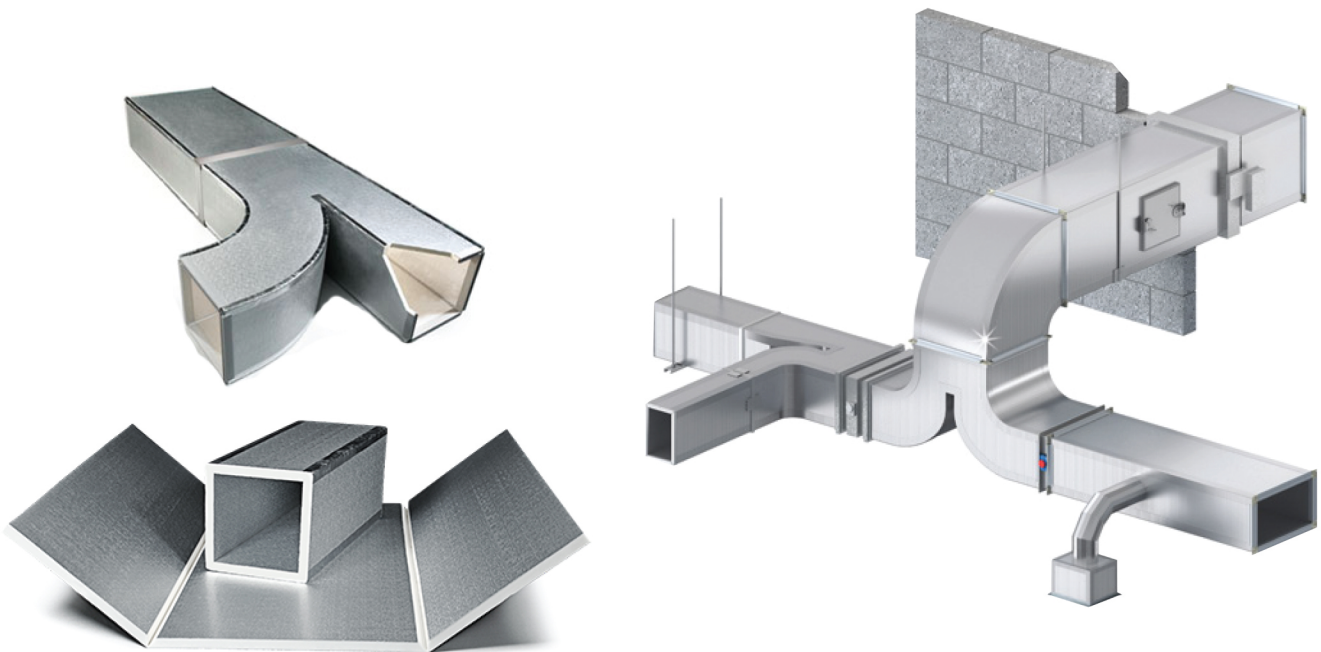


## VOLUME CONTROL DAMPER

### Material Specifications:

- Blades - made of 0.9mm thickness ( 21 gauge) GI sheet.
- Bushes – PVC bushes 8mm x 8mm square with drive.
- Handle – is made of 1.2mm thick (18 gauge).Galvanized steel with integral rotation slot indicating blade open and close position.

### PRE-INSULATED TYPE



- **VCD** - Sandwich panel frame with aluminium blade and hand – operated quadrant.

- **Application:** The Pre-Insulated Type volume control damper has been specially designed for installation in system where high/medium/low pressure is experienced. These dampers are designed to operate from one control point. The dampers blade opening is controlled by locking quadrant.

## VOLUME CONTROL DAMPER

### Dimensions of Dampers:

- Minimum size of 100mm (width) x 100mm ( height) maximum size of 2000mm (width) x 2000mm (height).
- Standard thickness of the flange is 20mm.

### Material Specifications:

- **Casing** – Sandwich Panel 20mm/30mm thickness  
80/80micron/80mm/20mm micron.
- **Blades** – Airfoil blades made of 1.1mm thick aluminium extruded.
- **Bushes** – PVC bushes 12mm x 12mm square with drive. **(PAVCD)**  
Brass bushes with 12mm diameter. **(PAM-VCD)**
- **Linkage** – are made of 3mm thick. Galvanized steel.
- **Handle** – is made of 1.2mm thick (18 gauge). Galvanized steel with integral rotation slot indicating blade open and close position.**(PA-VCD)**
- **Spindles** – are made of 12mm x 12mm square Galvanized steel.
- **Operating Temperature** – 10 ° to 110° as standard.

### Pre-Insulated Type - PAM - VCD Selection of Motors

Size of Damper (mm)	Torque of Motor (Nm)	Type of Motor
From 100x100 to 500x500	5	On/ Off or Modulating
From 550x550 to 1000x1000	10	On/ Off or Modulating
From 1050x2000 to 1050x2000	20	On/ Off or Modulating

**A Member of AADTRA Group  
AIRPRO INDUSTRIES LLC**

**Tel: +971 4 340 8535**

**Sector No. 6 Plot No.12, P.O Box. 2890  
Umm Al Quwain, United Arab Emirates  
Email: [info@airprome.com](mailto:info@airprome.com)  
[www.airprome.com](http://www.airprome.com)**