

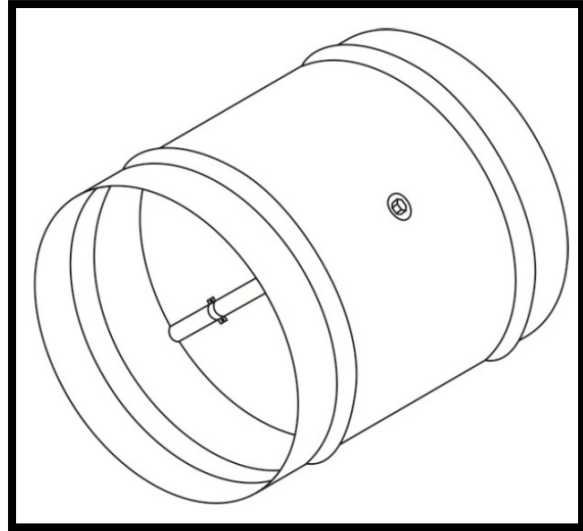
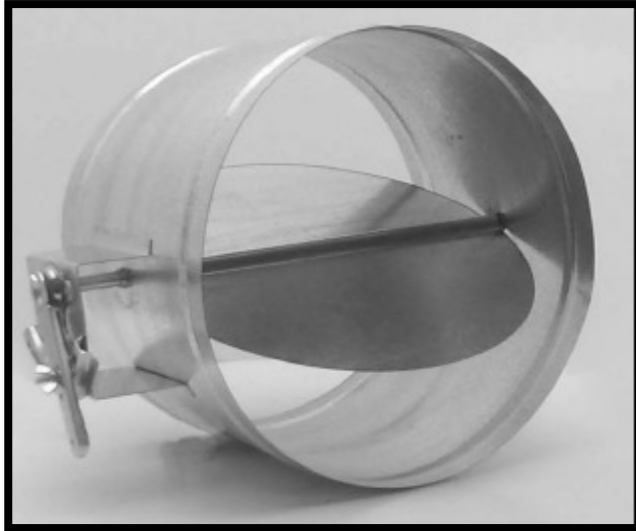


# MACS

AL MUTHATHAWERAH A/C SYSTEMS ACCESSORIES IND. CENTER L.L.C.

## ROUND VOLUME CONTROL DAMPERS

### MACS-GVR-D



### Standard Construction

<b>BODY</b>	Galvanized steel sheet. Gauge 24: from D=80mm to D=500mm. D=500mm and above are fabricated Circular Spigot, Refer to pages 16 & 17.
<b>BLADES</b>	Plain galvanized steel sheet. Gauge 24: from D=80mm to D=500mm.
<b>FINISH</b>	Mill galvanized
<b>CASE BEARINGS</b>	PVC or Brass Bearing as required.
<b>Control Shaft</b>	10mm diameter zinc plated mild steel.

### Minimum Size:

80mm diameter.

### Maximum Size:

500mm diameter as single blade construction.

### Options:

Body, Blades, shafts and blade to shaft fixing: available in Stainless steel.

Blades: Perforated blades available.

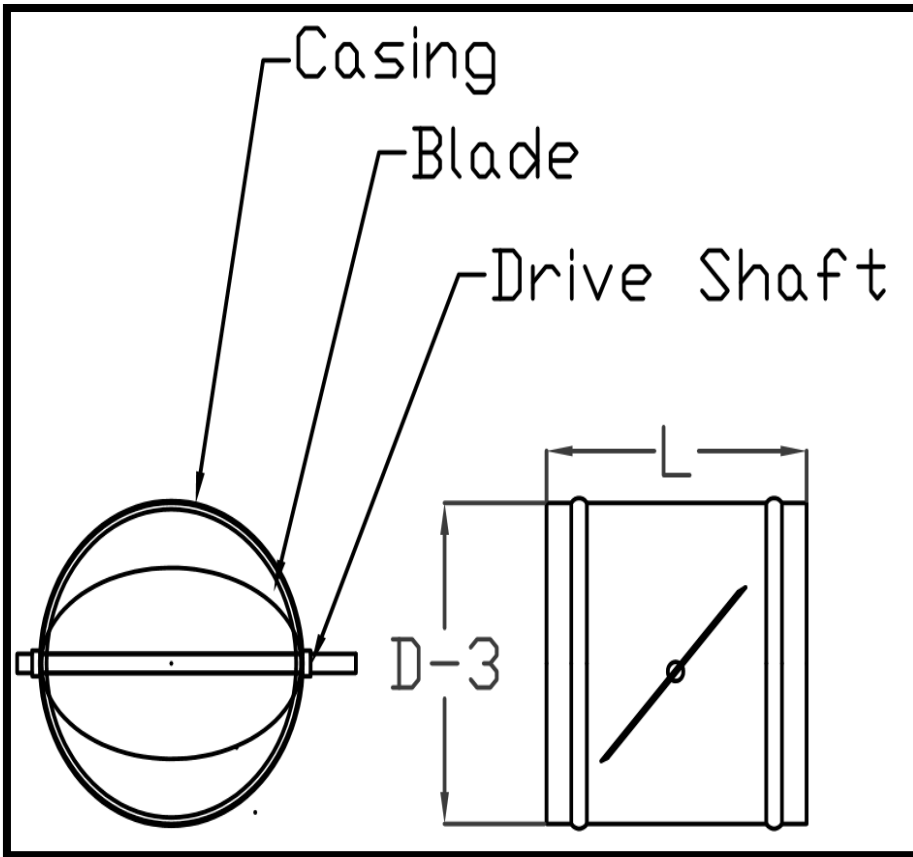
Case Bearings: Sintered Bronze available.



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Operation: Manual or with Actuator.



Standard Sizes
D in mm
80
100
125
140
150
160
180
200
224
250
280
305
315
350
400
450
500



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## INSTALLATION INSTRUCTIONS

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### Installation:

1. Before installation, the damper should be inspected to ensure that it has not been damaged and is in good condition following transportation.
2. Ensure that all packing materials are removed, as failure to complete could result in permanent damage to the product.
3. Ensure that the ductwork and damper flange or spigots are carefully matched, with the specified sealing material used during installation.
4. Ensure that the ductwork is adequately supported; this is particularly important where large dampers are concerned.
5. Ensure that the damper is free of any foreign matter, the assembly is not distorted and is square with no surface damage that could restrict blade movement.
6. If stored before installation, ensure the product is stacked and stored in clean, dry conditions to prevent the ingress of dust, as well as avoiding excessive temperature or humidity.
7. Care should always be taken when handling dampers on site to avoid

subjecting them to excessive stresses for which they are not designed.

8. It is important to ensure that all dampers are installed with airflows and pressures conforming to the test data as detailed in the manufacturers technical product manual. Excessive airflows and/or pressures could result in permanent damage and/or malfunction of the damper.

### Maintenance:

1. Keep the damper clean and free from any contamination.
2. Where possible operate the blades against airflow to ensure easy, free movement without distortion or stress of the linkage.
3. Periodic inspection should be made of any seals that have been fitted to the damper, to ensure efficient control and operation.
4. It is recommended within normal preventative maintenance procedures for the blades and inner casings to be cleaned annually, with specific attention being made to ensure all spindles, bushes and linkage mechanism are clean and rotate freely.
5. The time period can be ascertained by experience or local regulations, but



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should not exceed a twelve month interval. Inspection should be carried out more frequently where excessive dust or dirty conditions prevail.

6. Normal lubrication should only be made to exposed spindles / bushes and

## Operation:

1. These dampers are primarily designed for use in ductwork systems to balance / regulate the airflow. Once the system has been commissioned to its designed performance, the manual dampers are usually locked in their position with a record noted of blade positions. It is normal for the motorized dampers to have their blades in either the open or closed position, during the operation of the system.

operating linkages outside of the airflow. Excessive lubrication will attract dust and could fail or impede the operation of the damper.

2. If the damper is supplied with a spindle for the fitting of an actuator by subcontractors, then attention to torque requirements of the damper and actuator is essential.

3. It is assumed that the airflow through the damper is filtered and environmentally controlled, with regard to humidification and corrosive atmospheres to national and international specifications.

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