



Makkah
For Air Outlets



VOLUME CONTROL DAMPER VCD

Volume Control Damper (Flanged Type)
VCDF

Product Description

- Volume control damper is made of single or multi blades.
- Blades edge seal can be fitted for low leakage requirements.
- Hand locking quadrant is provided for manual operation.
- Extended shaft and motor base is provided for motorized operation.
- The blades are mounted on nylon bearing and operated by external linkage.
- Opposed blade action on request.



VCDF -WITH HAND QUADRANT



VCDFM -WITH ACTUATOR

Standard Construction

Frame : Flanged Steel Chanel 6"×1"×16 gauge galvanized.
Other sizes are available on request.

Blade : 3 V 16 gauge galvanized steel (Reinforced with 3 longitudinal "structurally designed vees"

Bushing : Nylon bearings

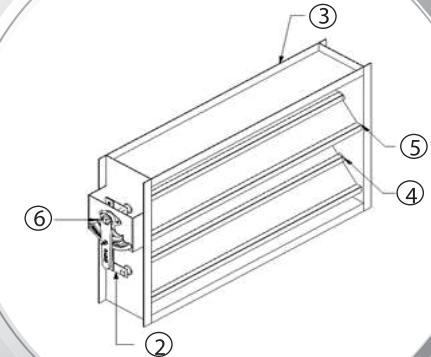
Control shaft : 1/2" × 1/2" square steel spindle.

Operation : Hand Quadrant For manual operation.
Actuator for motorized.

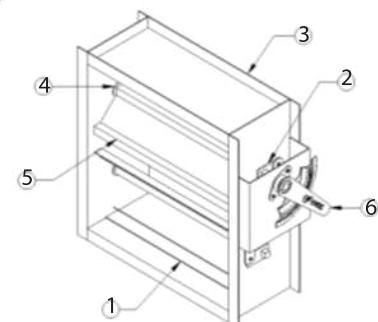
Finish : Mill galvanized.

Minimum size : 4"x 4"

Maximum size : 48"x72" as a single section.
Multiple section assembly of unlimited size, where each section operates independently. For details of multiple sections consult Makkah Al Takyeef Factory



Parallel Blades



Opposed Blades

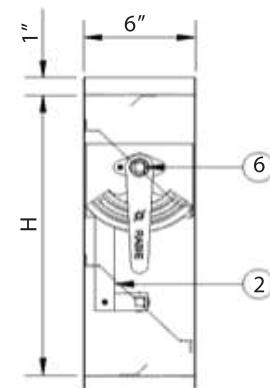
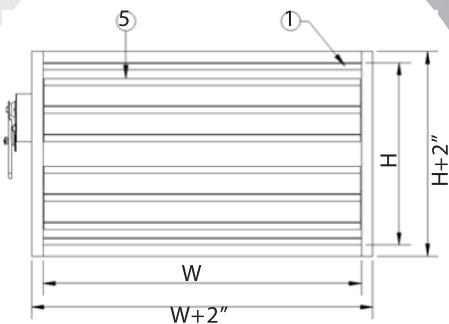
1. Landing Angle
- 2 Side Linkage.
- 3.Casing
4. Bushing
5. Blade
6. Spindle
7. Quadrant

Dimensions

Parallel Blades

Standard sizes

W in inches	H in inches	Number of Blades
4	4	1
6	6	1
8	8	1
10	10	1
12	12	2
14	14	2
16	16	2
18	18	2
20	20	3
22	24	3
24	28	4
26	32	5
28	36	5
30	40	6
32	44	7
34	48	7
36	52	8
38	56	9
40	60	9
42	64	10
44	68	11
48	72	12

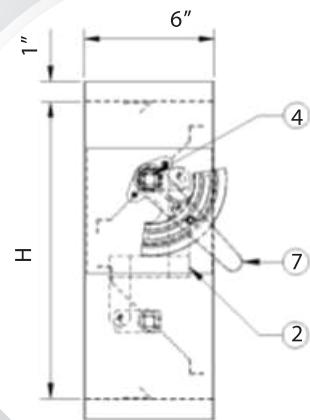
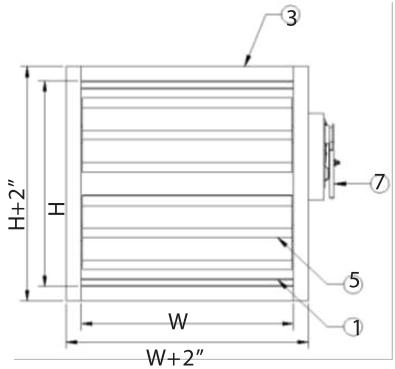


Dimensions

Opposed Blades

Standard sizes

W in inches	H in inches	Number of Blades
8	8	2
10	10	2
12	12	2
14	14	2
16	16	2
18	18	2
20	20	3
22	24	3
24	28	4
26	32	5
28	36	5
30	40	6
32	44	7
34	48	7
36	52	8
38	56	9
40	60	9
42	64	10
44	68	11
48	72	12



Volume Control Damper (Cee Shape)

VCDC

Product Description

- Volume control damper is made of single or multi blades.
- Frame is of galvanized steel construction.
- Blades are of single skin inter locking galvanized steel.
- Hand locking quadrant is provided for manual operation.
- Extended shaft and motor base is provided for motorized operation.
- The blades are mounted on Nylon bearing and operated by external and internal linkage.
- Opposed blade action on request.



VCDC -WITH HAND QUADRANT



VCDCM -WITH ACTUATOR

Standard Construction

Frame : Flanged Steel Chanel 6"×1"×16 gauge galvanized.
Other sizes are available on request.

Blade : 3 V 16 gauge galvanized steel (Reinforced with 3longitudinal "structurally designed vees"

Bushing : Nylon bearings

Control shaft : 1/2" × 1/2" square steel spindle.

Operation : Hand Quadrant For manual operation.
Actuator for motorized.

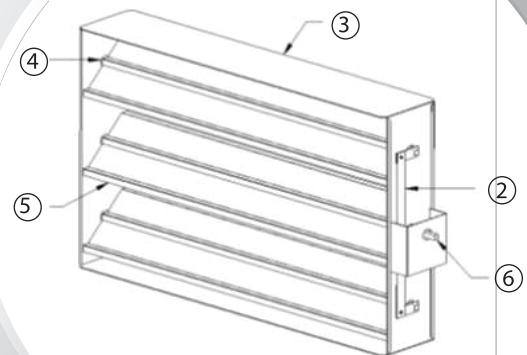
Finish : Mill galvanized.

Minimum size : 4"x 4"

Maximum size: 48"x72" as a single section.
Multiple section assembly of unlimited size, where each section operates independently. For details of multiple sections consult Makkah Al Takyeef Factory

1. Landing Angle
- 2 Side Linkage.
- 3.Casing
4. Bushing
5. Blade
6. Spindle

Parallel Blades

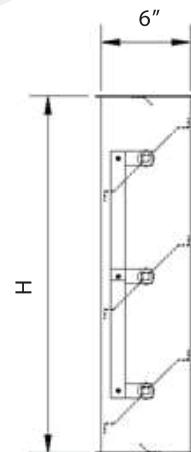
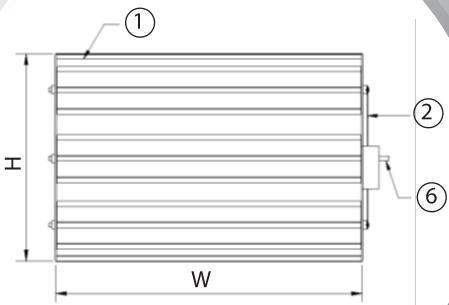


Dimensions

Parallel Blades

Standard sizes

W in inches	H in inches	Number of Blades
4	4	1
6	6	1
8	8	1
10	10	1
12	12	2
14	14	2
16	16	2
18	18	2
20	20	3
22	24	3
24	28	4
26	32	5
28	36	5
30	40	6
32	44	7
34	48	7
36	52	8
38	56	9
40	60	9
42	64	10
44	68	11
48	72	12



Volume Control Damper (with Circular Spigot Transmission)

VCDS

Product Description

- Volume control damper is made of single or multi blades.
- Frame is of galvanized steel, constructed with two circular spigot duct connections.
- Blades are of single skin inter locking galvanized steel.
- Hand locking quadrant is provided for manual operation.
- Extended shaft and motor base is provided for motorized operation.
- The blades are mounted on bearing and operated by external and internal linkage.
- Opposed blade action on request.

VCDS -WITH HAND QUADRANT



VCDSM -WITH ACTUATOR



Standard Construction

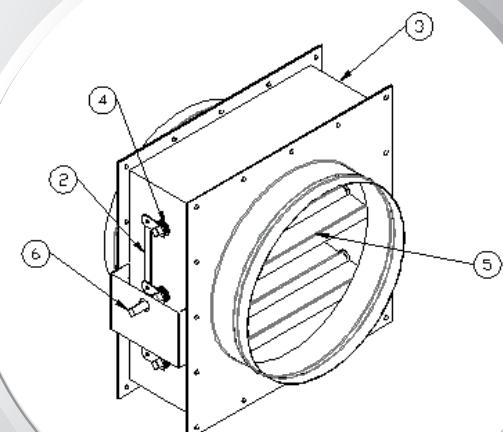
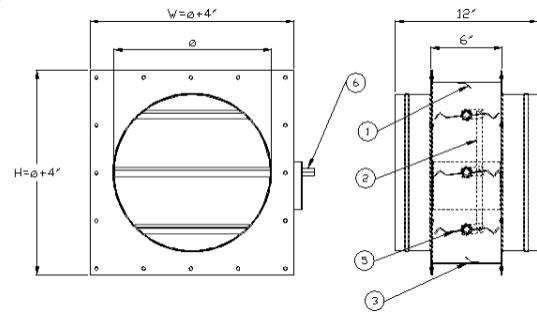
Frame :	Steel Channel " 6 /12"× 16 gauge galvanized. Other sizes are available on request.
Blade :	3 V 16 gauge galvanized steel (Reinforced with 3longitudinal "structurally designed vees"
Bushing :	Nylon bearings
Control shaft :	1/2" × 1/2" square steel spindle.
Operation :	Hand Quadrant For manual operation. Actuator for motorized.
Finish :	Mill galvanized.
Minimum size:	4"x 4"
Maximum size:	48"x72" as a single section. Multiple section assembly of unlimited size, where each section operates independently. For details of multiple sections consult Makkah Al Takyeef Factory

Dimensions

1. Landing Angle
- 2 Side Linkage.
- 3.Casing
4. Bushing
5. Blade
6. Spindle

Parallel Blades Standard sizes

W in inches	H in inches	Number of Blades
4	4	1
6	6	1
8	8	1
10	10	1
12	12	2
14	14	2
16	16	2
18	18	2
20	20	3
22	24	3
24	28	4
26	32	5
28	36	5
30	40	6
32	44	7
34	48	7
36	52	8
38	56	9
40	60	9
42	64	10
44	68	11
48	72	12



Volume Control Damper (with Oval Transmission)

VCDO

Product Description

- Volume control damper is made of single or multi blades.
- Frame is of galvanized steel casing, constructed with two oval spigot duct connections.
- Blades are of single skin inter locking galvanized steel.
- Hand locking quadrant is provided for manual operation.
- Extended shaft and motor base is provided for motorized operation.
- The blades are mounted on bearing and operated by external and internal linkage.
- Opposed blade action on request.



VCDO - WITH HAND QUADRANT



VCDOM-WITH ACTUATOR

Standard Construction

Frame : Steel Channel " 6 /12"× 16 gauge galvanized.
Other sizes are available on request.

Blade : 3 V 16 gauge galvanized steel (Reinforced with 3longitudinal "structurally designed vees"

Bushing : Nylon bearings

Control shaft : 1/2" × 1/2" square steel spindle.

Operation : Hand Quadrant For manual operation.
Actuator for motorized.

Finish : Mill galvanized.

Minimum size: 4"x 4"

Maximum size : 48"x72" as a single section.
Multiple section assembly of unlimited size, where each section operates independently. For details of multiple sections consult Makkah Al Takyef Factory

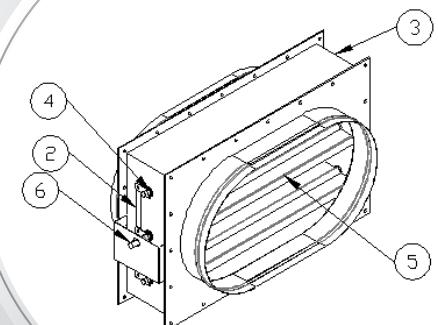
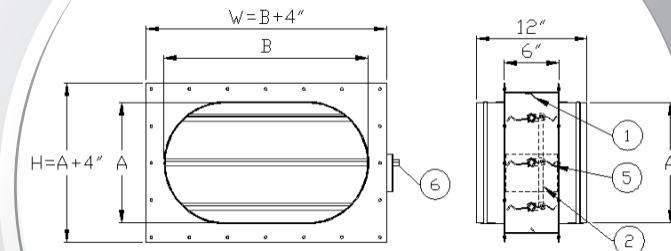
Dimensions

- 1. Landing Angle
- 2 Side Linkage.
- 3.Casing
- 4. Bushing
- 5. Blade
- 6. Spindle

Standard sizes

Parallel Blades

W in inches	H in inches	Number of Blades
4	4	1
6	6	1
8	8	1
10	10	1
12	12	2
14	14	2
16	16	2
18	18	2
20	20	3
22	24	3
24	28	4
26	32	5
28	36	5
30	40	6
32	44	7
34	48	7
36	52	8
38	56	9
40	60	9
42	64	10
44	68	11
48	72	12



Volume Control Damper (Round Type)

VCDR

Product Description

Dampers can be manual with locking quadrant or motorized with different sizes of actuator.v

Standard Construction

Casing:	20 gauge galvanized Steel
Blade:	20 gauge galvanized steel
Bushing:	Brass bearings
Control shaft:	1/2" round bar steel.
Hand Quadrant:	For manual operation.
Finish:	Mill galvanized.
Minimum size:	ø4" in single blade construction.
Maximum size:	ø24" in single blade construction.v



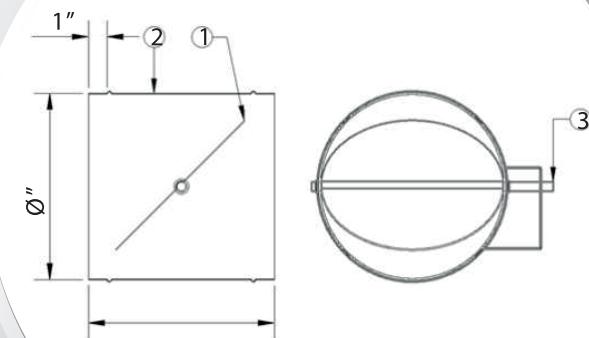
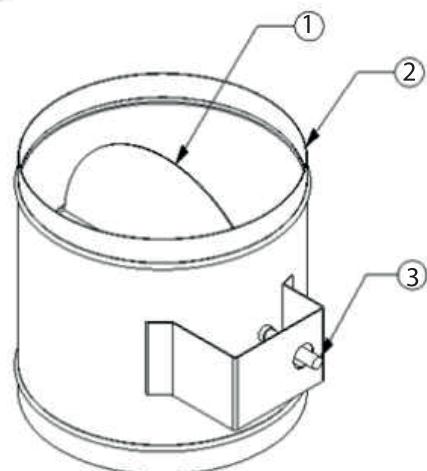
VCDR - WITH HAND QUADRANT



VCDRM - WITH ACTUATOR

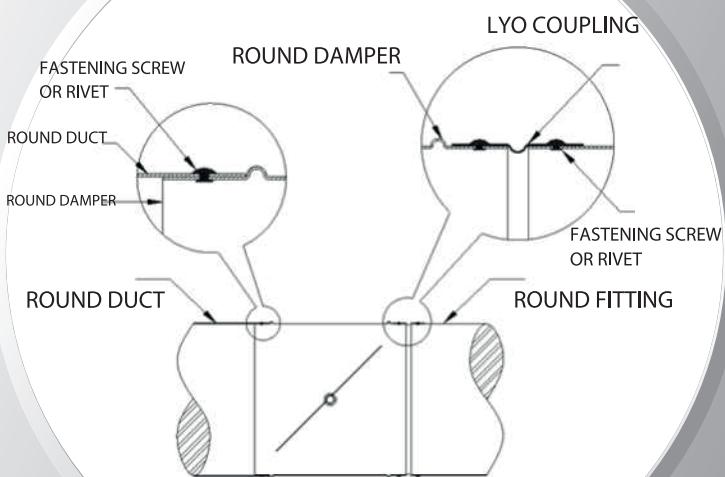
Dimensions

- 1. Blade
- 2. Casing
- 3. Drive shaft / spindle

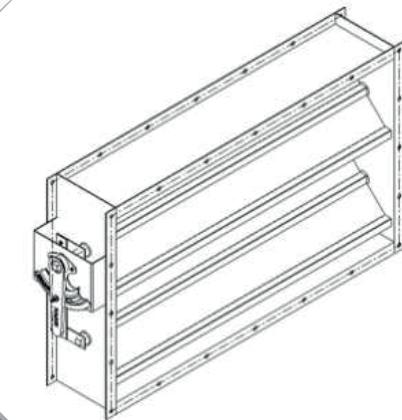


Installation

Round



Flange Drilling



Circular and Oval

