



VOLUME CONTROL DAMPER - AVCD SERIES AEROFOIL BLADES

STANDARD CONSTRUCTION

Frame: 1.2mm thick galvanized steel sheet.

Blades: Aerofoil 1.0mm double skin extruded Aluminum profiles/ GI Sheet.

Axles: 1/2" square galvanized steel rod.

Linkage: Made of galvanized steel. Concealed in frame.

Bushing: Self lubricating plastic nylon bushes.

Quadrant: Plated steel with wing nut to lock the blades position. Marked to show the position of the blades.

Fixing to duct: Flanged frame.

Single section minimum size:

100X100mm for Flanged/Box/Slip & clip types.

100X150mm for Hat-shaped type.

Single section maximum size:

1200X1200mm for Hat-shaped/Flanged types.

1000X1000mm for Slip & clip/Box types.

Model A..VCDG2PLF



Model MA..VCDG2PLF



BOX TYPE



S&C TYPE

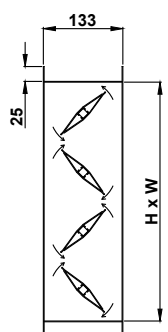


FLANGED TYPE

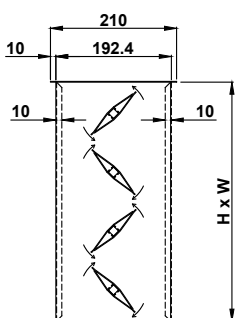


HAT-SHAPE TYPE

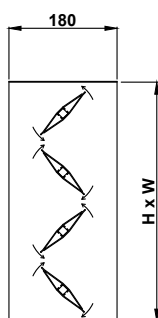
DIMENSIONS



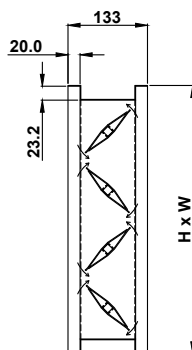
AVCD-Flange type



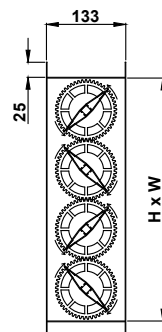
AVCD-Slip & Clip type



AVCD-Box type



AVCD-Hat type



AVCD with gear mechanism



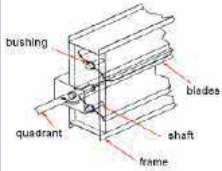
Plastic Bushes





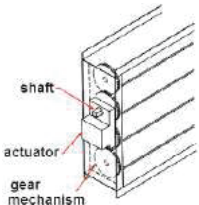
VOLUME CONTROL DAMPER - AVCD SERIES AEROFOIL BLADES

ALUMINIUM BLADES OPTIONS



FEATURE	MODEL	MANUAL QUADRANT MODELS																			
		AUUCDG2PLH	AUUCDG2BLH	AUUCDG2PLF	AUUCDG2BLF	AUUCDG2PLS	AUUCDG2BLS	AUUCDG2PLB	AUUCDG2BLB	AUUCDG2PGH	AUUCDG2BGH	AUUCDG2PGF	AUUCDG2BGF	AUUCDG2PGS	AUUCDG2BGS	AUUCDG2PGB	AUUCDG2BGB	AUUCDS2SLH	AUUCDS2SLF	AUUCDS2SLS	AUUCDS2BLB
DRIVE	MANUAL QUADRANT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ELECTRIC ACTUATOR																				
BLADE TYPE	G.I. AEROFOIL BLADES																				
	ALUMINUM AEROFOIL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BLADE MOVEMENT	OPPOSED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PARALLEL	ABOVE MODELS (EXCEPT THE ONES WITH GEAR MECHANISM) CAN BE WITH PARALLEL BLADES, PLS. WRITE "PARALLEL" ON YOUR ORDER																			
USE	CONTROL (AIR BALANCING)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LOW LEAKAGE (AIR TIGHT SHUT OFF)																				
FRAME CONSTRUCTION	GALVANIZED STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	STAINLESS STEEL 304																✓	✓	✓	✓	✓
BUSHING/ BEARING TYPE	PLASTIC NYLON BUSHES	✓		✓		✓		✓		✓		✓		✓		✓					
	BRASS BUSHES		✓		✓		✓		✓		✓		✓		✓		✓				
	S.S. BEARING																✓	✓	✓	✓	✓
MECHANISM	G.I. LINKAGE	✓	✓	✓	✓	✓	✓	✓	✓												
	PLASTIC GEARS											✓	✓	✓	✓	✓				✓	✓
FIXING TO DUCT	HAT-SHAPED	✓	✓						✓	✓							✓				✓
	FLANGE			✓	✓							✓	✓				✓				
	SLIP & CLIP					✓	✓							✓						✓	
	BOX TYPE (INSERTED INSIDE DUCT)							✓	✓							✓					✓

**Other options of S.S. bushes "X" and S.S. bearing "S" are shown at the ordering key.



FEATURE	MODEL	MOTORIZED MODELS																			
		MAUUCDG2PL	MAUUCDG2BLH	MAUUCDG2PLF	MAUUCDG2BLF	MAUUCDG2PLS	MAUUCDG2BLS	MAUUCDG2PLB	MAUUCDG2BLB	MAUUCDG2PGH	MAUUCDG2BGH	MAUUCDG2PGF	MAUUCDG2BGF	MAUUCDG2PGS	MAUUCDG2BGS	MAUUCDG2PGB	MAUUCDG2BGB	MAUUCDS2SLH	MAUUCDS2SLF	MAUUCDS2SLS	MAUUCDS2BLB
DRIVE	MANUAL QUADRANT																				
	ELECTRIC ACTUATOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BLADE TYPE	G.I. AEROFOIL BLADES																				
	ALUMINUM AEROFOIL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BLADE MOVEMENT	OPPOSED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PARALLEL	ABOVE MODELS (EXCEPT THE ONES WITH GEAR MECHANISM) CAN BE WITH PARALLEL BLADES, PLS. WRITE "PARALLEL" ON YOUR ORDER																			
USE	CONTROL (AIR BALANCING)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LOW LEAKAGE (AIR TIGHT SHUT OFF)																				
FRAME CONSTRUCTION	GALVANIZED STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	STAINLESS STEEL 304																✓	✓	✓	✓	✓
BUSHING/ BEARING TYPE	PLASTIC NYLON BUSHES	✓		✓		✓		✓		✓		✓		✓		✓					
	BRASS BUSHES		✓		✓		✓		✓		✓		✓		✓		✓				
	S.S. BEARING																✓	✓	✓	✓	✓
MECHANISM	G.I. LINKAGE	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	✓	✓		✓
	PLASTIC GEARS											✓	✓	✓	✓	✓				✓	✓
FIXING TO DUCT	HAT-SHAPED	✓	✓						✓								✓				✓
	FLANGE			✓	✓							✓	✓				✓				
	SLIP & CLIP					✓	✓							✓	✓					✓	
	BOX TYPE (INSERTED INSIDE DUCT)							✓	✓							✓					✓

**Other options of S.S. bushes "X" and S.S. bearing "S" are shown at the ordering key.

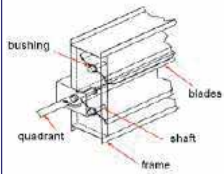




VOLUME CONTROL DAMPER - AVCD SERIES

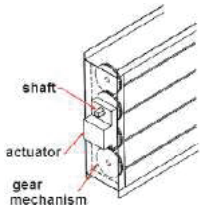
AEROFOIL BLADES

STEEL BLADES OPTIONS



FEATURE	MODEL	MANUAL QUADRANT MODELS																			
		AGVCDG2PLH	AGVCDG2BLH	AGVCDG2PLF	AGVCDG2BLF	AGVCDG2PLS	AGVCDG2BLS	AGVCDG2PLB	AGVCDG2BLB	AGVCDG2PGH	AGVCDG2BGH	AGVCDG2PGF	AGVCDG2BGF	AGVCDG2PGS	AGVCDG2BGS	AGVCDG2PGB	AGVCDG2BGB	AGVCDG2SLH	AGVCDG2SLF	AGVCDG2SLS	AGVCDG2SLB
DRIVE	MANUAL QUADRANT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ELECTRIC ACTUATOR																				
BLADE TYPE	G.I. AEROFOIL BLADES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	STAINLESS STEEL AEROFOIL																✓	✓	✓	✓	✓
BLADE MOVEMENT	OPPOSED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PARALLEL	ABOVE MODELS (EXCEPT THE ONES WITH GEAR MECHANISM) CAN BE WITH PARALLEL BLADES, PLS. WRITE "PARALLEL" ON YOUR ORDER																			
USE	CONTROL (AIR BALANCING)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LOW LEAKAGE (AIR TIGHT SHUT OFF)																				
FRAME CONSTRUCTION	GALVANIZED STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	STAINLESS STEEL 304																✓	✓	✓	✓	✓
BUSHING/ BEARING TYPE	PLASTIC NYLON BUSHES	✓		✓		✓		✓		✓		✓		✓		✓					
	BRASS BUSHES		✓		✓		✓		✓		✓		✓		✓		✓				
	S.S. BEARING																✓	✓	✓	✓	✓
MECHANISM	STEEL LINKAGE	✓	✓	✓	✓	✓	✓	✓	✓												
	PLASTIC GEARS											✓	✓	✓	✓	✓	✓			✓	✓
FIXING TO DUCT	HAT-SHAPED	✓	✓							✓	✓						✓				✓
	FLANGE			✓	✓							✓	✓				✓			✓	
	SLIP & CLIP					✓	✓							✓	✓					✓	
	BOX TYPE (INSERTED INSIDE DUCT)							✓	✓							✓	✓				✓

**Other options of S.S. bushes "X" and S.S. bearing "S" are shown at the ordering key.



FEATURE	MODEL	MOTORIZED MODELS																			
		MAGVCDG2PLH	MAGVCDG2BLH	MAGVCDG2PLF	MAGVCDG2BLF	MAGVCDG2PLS	MAGVCDG2BLS	MAGVCDG2PLB	MAGVCDG2BLB	MAGVCDG2PGH	MAGVCDG2BGH	MAGVCDG2PGF	MAGVCDG2BGF	MAGVCDG2PGS	MAGVCDG2BGS	MAGVCDG2PGB	MAGVCDG2BGB	MAGVCDG2SLH	MAGVCDG2SLF	MAGVCDG2SLS	MAGVCDG2SLB
DRIVE	MANUAL QUADRANT																				
	ELECTRIC ACTUATOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BLADE TYPE	G.I. AEROFOIL BLADES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	STAINLESS STEEL AEROFOIL																✓	✓	✓	✓	✓
BLADE MOVEMENT	OPPOSED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PARALLEL	ABOVE MODELS (EXCEPT THE ONES WITH GEAR MECHANISM) CAN BE WITH PARALLEL BLADES, PLS. WRITE "PARALLEL" ON YOUR ORDER																			
USE	CONTROL (AIR BALANCING)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LOW LEAKAGE (AIR TIGHT SHUT OFF)																				
FRAME CONSTRUCTION	GALVANIZED STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	STAINLESS STEEL 304																✓	✓	✓	✓	✓
BUSHING/ BEARING TYPE	PLASTIC NYLON BUSHES	✓		✓		✓		✓		✓		✓		✓		✓					
	BRASS BUSHES		✓		✓		✓		✓		✓		✓		✓		✓				
	S.S. BEARING																✓	✓	✓	✓	✓
MECHANISM	STEEL LINKAGE	✓	✓	✓	✓	✓	✓	✓	✓												
	PLASTIC GEARS											✓	✓	✓	✓	✓	✓			✓	✓
FIXING TO DUCT	HAT-SHAPED	✓	✓							✓	✓						✓				✓
	FLANGE			✓	✓							✓	✓				✓			✓	
	SLIP & CLIP					✓	✓							✓	✓					✓	
	BOX TYPE (INSERTED INSIDE DUCT)							✓	✓							✓	✓			✓	

**Other options of S.S. bushes "X" and S.S. bearing "S" are shown at the ordering key.





VOLUME CONTROL DAMPER - AVCD SERIES

AEROFOIL BLADES BLADES

PERFORMANCE DATA

Beta Industrial LLC certifies that the AVCD shown hereon is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to Air Leakage and Air Performance ratings only.

Test Information

- * Air leakage is based on operation between 32 °F and 120 °F
- * Tested for air leakage at standard air density in accordance with ANSI/AMCA Standard 500-D-18, Figure 5.4 Aletrnate
- * Tested for air performance at standard air density in accordance with ANSI/AMCA 500-D-18, Figure 5.5
- * Data are based on a torque of 36 in-lb/ft² applied to close and seat the damper during the test.



PRESSURE DROP DATA

Size 12" x 12"		Size 12" x 24"		Size 24" x 12"		Size 24" x 24"	
Air Velocity (fpm)	Pressure Drop (in.wg)	Air Velocity (fpm)	Pressure Drop (IWG)	Air Velocity (fpm)	Pressure Drop (IWG)	Air Velocity (fpm)	Pressure Drop (in.wg)
1948	0.524	5225	4.256	5246	4.107	2672	1.113
1459	0.295	4464	3.107	4468	2.960	1981	0.608
970	0.131	3480	1.898	3484	1.784	1484	0.341
725	0.073	1983	0.598	1982	0.565	987	0.15
300	0.010	693	0.071	690	0.063	345	0.017

AIR LEAKAGE DATA

Size 12" x 12"		Size 12" x 24"		Size 24" x 12"		Size 24" x 24"	
Leakage Face Area (cfm/ft ²)	Pressure Drop (in.wg)	Leakage Face Area (cfm/ft ²)	Pressure Drop (in.wg)	Leakage Face Area (cfm/ft ²)	Pressure Drop (in.wg)	Leakage Face Area (cfm/ft ²)	Pressure Drop (in.wg)
79.3	4.096	30.1	3.084	57.1	4.114	86.3	4.171
68.1	3.073	25.4	2.057	49.3	3.087	71.3	3.13
62.2	2.562	21.8	1.544	41.3	2.06	54.5	2.088
55.4	2.049	17.7	1.031	29.4	1.032	35.1	1.047
38.7	1.024	12.4	0.518	20.6	0.519	23.7	0.526

Maximum Allowable Leakage, cfm/ft²

Pressure Class	1.0" W.G	4" W.G	8" W.G
1A	3	N/A	N/A
1	4	8	11
2	10	20	28
3	40	80	112

	Width	Height
Minimum	4"	4" *
Maximum	48"	48"

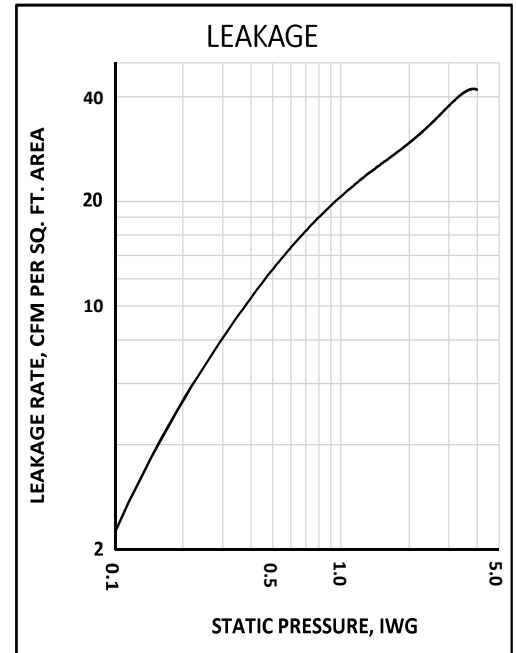
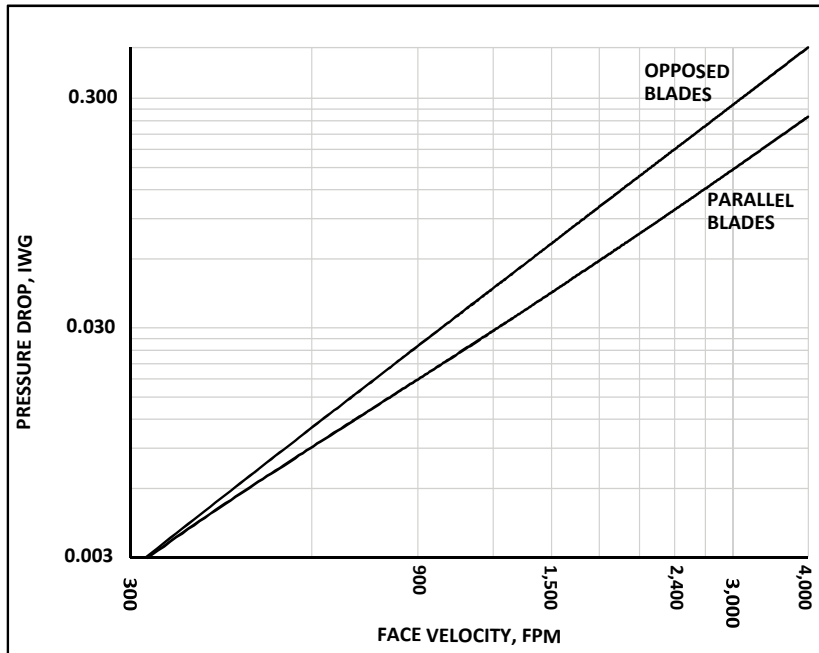
* Minimum height for Hat-shaped type is 6" (150mm)





VOLUME CONTROL DAMPER - AVCD SERIES AEROFOIL BLADES

PERFORMANCE DATA



Ordering Key:

M	AU	VCD	G2	P	L	F	SIZE
--- : QUADRANT DRIVEN M: MOTORIZED AU: AEROFOIL ALUMINUM BLADES AG: AEROFOIL STEEL BLADES VCD: VOLUME CONTROL DAMPER G1: 0.9MM G.I.CONSTRUCTION G2: 1.2MM G.I.CONSTRUCTION (STANDARD) G3: 1.5MM G.I.CONSTRUCTION G4: 1.7MM G.I.CONSTRUCTION S1: 1.0MM S.S. 304 CONSTRUCTION S2: 1.2MM S.S. 304 CONSTRUCTION S3: 1.5MM S.S. 304 CONSTRUCTION S4: 1.7MM S.S. 304 CONSTRUCTION P: PLASTIC NYLON BUSHES B: BRASS BUSHES X: S.S. BUSHES S: S.S. BEARINGS L: STEEL LINKAGE MECHANISM (STANDARD) G: PLASTIC GEARS MECHANISM H: HAT-SHAPED FRAME F: FLANGED TO DUCT (STANDARD) S: SLIP & CLIP WITH DUCT B: BOX TYPE (INSERTED INSIDE DUCT) SIZE: WIDTH X HEIGHT Single section minimum size: 100X100mm for Flanged/Box/Slip & clip types. 100X150mm for Hat-shaped types.							
Single section maximum size: 1200X1200mm for Hat-shaped/Flanged types. 1000X1000mm for Slip & Clip/ Box types.							

