DAMPERS

WE CONTROL AIR















PRODUCTS CATALOGUE

PRODUCT BULLETIN

Ver. 9 December 2022





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Note: AMCA certified products are available at AMCA directory of listed products at http://www.amca.org/certified-listed/listedproducts.php



VOLUME CONTROL DAMPER - 3VCD SERIES 3V-SHAPED STEEL BLADES

STANDARD CONSTRUCTION

Frame: I.2mm thick galvanized steel sheet.

Blades: 3 V-shaped I.2mm thick roll-formed

galvanized steel.

Axles: ½" square galvanized steel rod.

Linkage: made of galvanized steel.

Concealed in frame.

Bushing: Self lubricating plastic 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:

IOOXIOOmm for Flanged/Box/Slip & clip types.

IOOXI50mm for Hat-shaped type.

Single section maximum size:

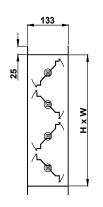
1200X1200mm for Hat-shaped/Flanged types.

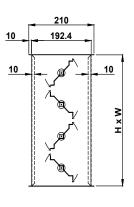
IOOOXIOOOmm for Slip & clip/Box types.

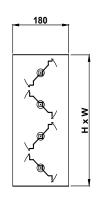


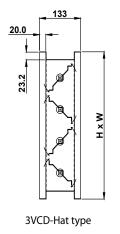


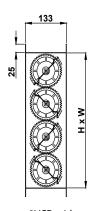
DIMENSIONS













3VCD-Flange type 3VCD-Slip & Clip type

3VCD-Box type

3VCD with gear mechanism

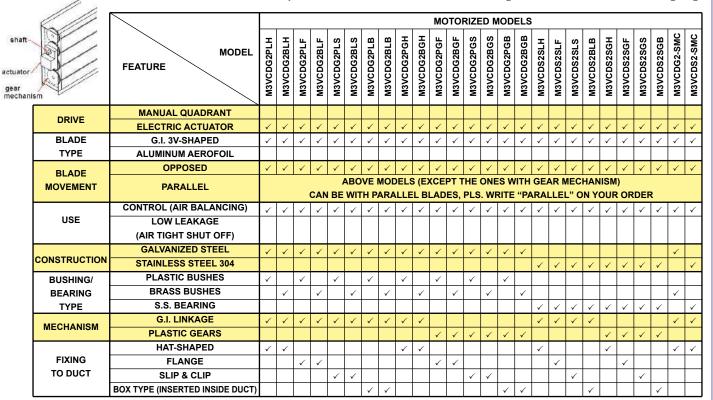


VOLUME CONTROL DAMPER - 3VCD SERIES 3V-SHAPED STEEL BLADES

OPTIONS

											MAN	IUA	L Q	UAE	RA	NT I	MOE	ELS	3								
blades	MODEL	зусреден	зусрезвин	3VCDG2PLF	3VCDG2BLF	3VCDG2PLS	3VCDG2BLS	3VCDG2PLB	3VCDG2BLB	зусрезрен	зусрезвен	3VCDG2PGF	3VCDG2BGF	3VCDG2PGS	3VCDG2BGS	3VCDG2PGB	3VCDG2BGB	3VCDS2SLH	3VCDS2SLF	3VCDS2SLS	3VCDS2BLB	зусрѕ2ѕбн	3VCDS2SGF	3VCDS2SGS	3VCDS2SGB	3VCDG2-SMC	
DRIVE	MANUAL QUADRANT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DRIVE	ELECTRIC ACTUATOR																										
BLADE	G.I. 3V-SHAPED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~	>	✓	✓	>	✓	✓	✓	✓	✓	✓	✓	
TYPE	ALUMINUM AEROFOIL																										
BLADE	OPPOSED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\	✓	✓	\	✓	✓	✓	✓	✓	✓	✓	
MOVEMENT	PARALLEL				CA						EX												,	DDEI	ь		
					~	IA DE	- 441	ш	AKA	LLE	LDL	-ADI	E٥,	PLS	. WI	KIIE	: "P/	AKA	LLE	L. (JIN I	OUI	\ Or	VDE	•		
	CONTROL (AIR BALANCING)	1	✓	✓	□ ✓	V PI	✓	√	AKA ✓	√	✓ I	_ADI	<u>∠</u>	PLS ✓	. WI	RΠE ✓	√ P/	AKA ✓	LLE ✓	<u> </u>	√ I	√	√	√ V	√	√	I
USE	CONTROL (AIR BALANCING) LOW LEAKAGE	✓	√	√	✓	√	✓	√	AR ✓	_		∠	ES ,	_			√ 			√	1	√		_	✓	√	
USE	,	√	✓	✓	✓	✓	✓	✓	<u> </u>	_		<u> </u>	∠	_			√			✓	1	√		_	✓ <u> </u>	✓	
	LOW LEAKAGE	✓ ✓	✓	✓	✓ ✓	✓ ✓	✓ ✓	√ ✓	AKA ✓	_		✓ /	∠ √	_			✓ ✓			✓	1	✓ 		_	✓	✓	
USE CONSTRUCTION	LOW LEAKAGE (AIR TIGHT SHUT OFF)		✓	✓ ✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓ ✓	1	✓ ✓ ✓		_	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		
	LOW LEAKAGE (AIR TIGHT SHUT OFF) GALVANIZED STEEL		✓	✓ ✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√	√	✓ ✓	1	√	✓	✓	✓ ✓		
CONSTRUCTION	LOW LEAKAGE (AIR TIGHT SHUT OFF) GALVANIZED STEEL STAINLESS STEEL 304	√	✓ ✓		✓	✓	✓	√ ✓	✓	√ ✓	✓	✓	✓	√ ✓	✓	√ ✓	✓	√	√	✓ ✓	1	✓ ✓ ✓	✓	✓	✓ ✓		
CONSTRUCTION BUSHING/	LOW LEAKAGE (AIR TIGHT SHUT OFF) GALVANIZED STEEL STAINLESS STEEL 304 PLASTIC BUSHES	√			✓ ✓	✓	✓ ✓	√ ✓	✓ ✓	√ ✓	✓	✓	✓ ✓	√ ✓	✓	√ ✓	✓	√	√	✓ ✓	1	✓ ✓ ✓	✓	✓	✓ ✓	✓ <u> </u>	
CONSTRUCTION BUSHING/ BEARING TYPE	LOW LEAKAGE (AIR TIGHT SHUT OFF) GALVANIZED STEEL STAINLESS STEEL 304 PLASTIC BUSHES BRASS BUSHES	√			✓ ✓	✓	✓ ✓	√ ✓	✓ ✓	√ ✓	✓	✓	✓ ✓	√ ✓	✓	√ ✓	✓	✓ ✓	✓	✓ ✓	✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ <u> </u>	
CONSTRUCTION BUSHING/ BEARING	LOW LEAKAGE (AIR TIGHT SHUT OFF) GALVANIZED STEEL STAINLESS STEEL 304 PLASTIC BUSHES BRASS BUSHES S.S. BEARING	✓ ✓	√	✓	\(\lambda \)	\[\lambda \]	✓ ✓	✓ ✓	✓ ✓	✓ ✓	\[\lambda \] \[\lambda \] \[\lambda \]	✓	✓ ✓	√ ✓	✓	√ ✓	✓	✓ ✓	✓	✓ ✓	✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	
CONSTRUCTION BUSHING/ BEARING TYPE MECHANISM	LOW LEAKAGE (AIR TIGHT SHUT OFF) GALVANIZED STEEL STAINLESS STEEL 304 PLASTIC BUSHES BRASS BUSHES S.S. BEARING G.I. LINKAGE	✓ ✓	√	✓	\(\lambda \)	\[\lambda \]	✓ ✓	✓ ✓	✓ ✓	✓ ✓	\[\lambda \] \[\lambda \] \[\lambda \]	\[\lambda \]	✓ ✓	√ ✓	✓ ✓	✓ ✓ ✓	✓	✓ ✓	✓	✓ ✓	✓ ✓	\(\)	✓ ✓	\[\lambda \]	✓ ✓	✓ ✓	
CONSTRUCTION BUSHING/ BEARING TYPE MECHANISM FIXING	LOW LEAKAGE (AIR TIGHT SHUT OFF) GALVANIZED STEEL STAINLESS STEEL 304 PLASTIC BUSHES BRASS BUSHES S.S. BEARING G.I. LINKAGE PLASTIC GEARS	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	\ \ \	✓	\(\lambda \)	\[\lambda \]	✓ ✓	✓ ✓	✓ ✓	\[\lambda \] \[\lambda \] \[\lambda \]		\[\lambda \]	✓ ✓	√ ✓	✓ ✓	✓ ✓ ✓	✓	✓ ✓ ✓	✓	✓ ✓	✓ ✓	✓ ✓ ✓	✓ ✓	\[\lambda \]	✓ ✓	✓ ✓	
CONSTRUCTION BUSHING/ BEARING TYPE MECHANISM	LOW LEAKAGE (AIR TIGHT SHUT OFF) GALVANIZED STEEL STAINLESS STEEL 304 PLASTIC BUSHES BRASS BUSHES S.S. BEARING G.I. LINKAGE PLASTIC GEARS HAT-SHAPED	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	\ \ \	✓ ✓	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\[\lambda \]	✓ ✓	✓ ✓	✓ ✓	\[\lambda \] \[\lambda \] \[\lambda \]		√	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	√ ✓	✓ ✓	✓ ✓ ✓	✓	✓ ✓ ✓	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	✓ ✓	✓ ✓	✓ ✓ ✓	\frac{1}{4}	\[\lambda \]	✓ ✓	✓ ✓	

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



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





VOLUME CONTROL DAMPER - 3VCD SERIES 3V-SHAPED STEEL BLADES

PERFORMANCE DATA

Beta Industrial LLC certifies that the 3VCD 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, Figure 5.4
- * Tested for air performance at standard air density in accordance with ANSI/AMCA 500-D, Figure 5.3
- * Data are based on a torque of 21 in-lb/ft2 applied to close and seat the damper during the test.



PRESSURE DROP DATA

Size 12	2"* 12"	Size 24	4"* 24"	Size 36	5"* 36"	Size 12	2"* 48"	Size 48	3" * 12 "
Air Velocity	Pressure	II 'I II		Air Velocity	Pressure	Air Velocity	Pressure	Air Velocity	Pressure
(fpm)	Drop (IWG)			(fpm)	Drop (IWG)	(fpm)	Drop (IWG)	(fpm)	Drop (IWG)
297	0.002	347	0.003	318	0.002	346	0.003	346	0.003
730	0.009	749	0.01	747	0.009	756	0.01	754	0.01
976	0.02	999	0.02	995	0.015	1003	0.02	1001	0.02
1466	0.04	1514	0.05	1494	0.034	1520	0.04	1515	0.04
1958	0.08	2008	0.08	1991	0.061	2014	0.07	2007	0.08

AIR LEAKAGE DATA

Size 12"* 48"		Size 24"*	36"	Size 36"*	36"	Size 48"*	36"
Leakage through	Pressure						
face area cfm/ft ²	Drop (IWG)						
6.1	0.098	10.3	0.109	5.5	0.106	4.6	0.105
14.9	0.509	22.6	0.510	11.5	0.511	10.6	0.514
21.3	1.025	32.7	1.025	15.7	1.025	14.8	1.031
30.2	2.052	46.5	2.063	23.2	2.049	20.6	2.070
43.6	4.104	66.4	4.137	34.4	4.097	26.4	4.137

Allowable	Leakage	, cfm/ft²
1.0" W.G	4" W.G	8" W.G
3	N/A	N/A
4	8	11
10	20	28
40	80	112
	1.0" W.G 3 4	W.G W.G W.G 3 N/A 4 8 10 20

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

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

Bulletin No. 8, June 2021



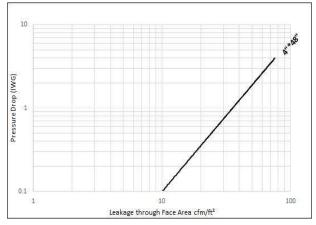


VOLUME CONTROL DAMPER - 3VCD SERIES 3V-SHAPED STEEL BLADES

PERFORMANCE DATA



AIR LEAKAGE DATA



PRESSURE DROP DATA

Size 4	"* 48 "
Air Velocity	
(fpm)	Drop (IWG)
516	0.034
992	0.130
1482	0.291
1985	0.524
2480	0.819

Tested at AMCA 500-D lab Arlington Heights, USA



Ordering Key:

or der ing it	cg.					_
M	3	VCD	G2	P	L	F
:						
QUADRANT						
DRIVEN						
M: MOTORIZED						
3: 3V-SHAPED	G.I. BLADES					
VCD: VOLUME	CONTROL DAMP	ER				
GI: O.9MM G.I.0	CONSTRUCTION					
G2: I.2MM G.I.0	ONSTRUCTION					
G3: 1.5MM G.I.0	ONSTRUCTION					
G4: I.7MM G.I.0	ONSTRUCTION					
SI: I.OMM S.S.	304 CONSTRUC	TION				
	304 CONSTRUC					
	304 CONSTRUC					
	304 CONSTRUC	TION				
P: PLASTIC BU						
B: BRASS BUS						
X: S.S. BUSHES						
S: S.S. BEARIN						
L: G.I. LINKAGE						
H: HAT-SHAPE	ARS MECHANISI	VI				
F: FLANGED TO						
S: SLIP & CLIP						
	INSERTED INSID	E DUCT)				
SIZE: WIDTH X		CDOCI				
Single section mi			Sinc	ale section maximun	n size:	
•	or Flanged/Box/Slip	& clip types.	•	I200XI200mm for		ed tunes
100X150mm for H		a. cp ., pso.		IOOOXIOOOmm for		
	c.iapoa typos.			.ccoxicociiiii ioi	Direction Cirp, Box to	pcs.





STANDARD CONSTRUCTION

Frame: I.2mm thick galvanized steel sheet.

Blades: Aerofoil I.Omm double skin extruded

Aluminum profiles/ GI Sheet.

Axles: ½" square galvanized steel rod.

Linkage: Made of galvanized steel. Concealed in

frame.

Bushing: Self lubricating plastic 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:

IOOXIOOmm for Flanged/Box/Slip & clip types.

IOOXI50mm for Hat-shaped type.

Single section maximum size:

I200XI200mm for Hat-shaped/Flanged types.

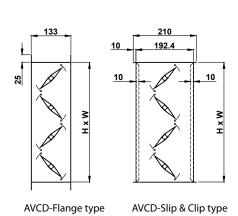
1000X1000mm for Slip & clip/Box types.

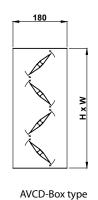


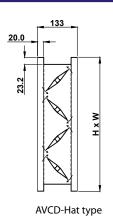


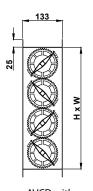


DIMENSIONS











AVCD with gear mechanism



ALUMINIUM BLADES OPTIONS

											MAN	NUA	L Q	UAD	RA	NT N	/OE	ELS	3							
blades	MODEL	AUVCDG2PLH	AUVCDG2BLH	AUVCDG2PLF	AUVCDG2BLF	AUVCDG2PLS	AUVCDG2BLS	AUVCDG2PLB	AUVCDG2BLB	AUVCDG2PGH	AUVCDG2BGH	AUVCDG2PGF	AUVCDG2BGF	AUVCDG2PGS	AUVCDG2BGS	AUVCDG2PGB	AUVCDG2BGB	AUVCDS2SLH	AUVCDS2SLF	AUVCDS2SLS	AUVCDS2BLB	AUVCDS2SGH	AUVCDS2SGF	AUVCDS2SGS	AUVCDS2SGB	AUVCDG2-SMC
DRIVE	MANUAL QUADRANT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DRIVE	ELECTRIC ACTUATOR																									
BLADE	G.I. AEROFOIL BLADES																									
TYPE	ALUMINUM AEROFOIL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BLADE	OPPOSED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\	✓	✓	✓
MOVEMENT	PARALLEL				CAN						•												•	DEF	₹	
	CONTROL (AIR BALANCING)	MANUAL QUADRANT																								
USE	LOW LEAKAGE																									
	(AIR TIGHT SHUT OFF)																									
FRAME	GALVANIZED STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									✓
CONSTRUCTION	STAINLESS STEEL 304																	✓	✓	✓	✓	✓	✓	✓	✓	
BUSHING/	PLASTIC BUSHES	✓		✓		✓		✓		✓		✓		✓		✓										
BEARING	BRASS BUSHES		✓		✓		✓		✓		✓		✓		✓		✓									✓
TYPE	S.S. BEARING																	✓	✓	✓	✓	✓	✓	✓	✓	
	G.I. LINKAGE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	✓	✓	✓					✓
MECHANISM												✓	✓	✓	✓	✓	✓					✓	\	✓	✓	
MECHANISM	PLASTIC GEARS																					-				-
		√	√							✓	✓							✓				✓				✓
FIXING		√	✓	√	√					✓	✓	✓	✓					√	√			✓ 	✓			<u> </u>
	HAT-SHAPED	√	√	√	√	✓	✓			✓	√	✓	✓	√	√			✓ 	✓	✓		√	✓	✓		√

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

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shaft		MODEL	긥	ᇤ	P.F	님	PLS	BLS	PLB	EB	ᅙ	혒	<u> </u>	BG	8 8	BGS	BG	BGE	밁	SLF	SLS	E E	SGH	SGF	ses	SGB	NS-	ي چ
actuator/		FEATURE	MAUVCDG2PL	MAUVCDG2BLH	MAUVCDG2PLF	MAUVCDG2BLF	MAUVCDG2PLS	MAUVCDG2BLS	MAUVCDG2PLB	MAUVCDG2BLB	MAUVCDG2PGH	MAUVCDG2BGH	MAUVCDG2PGF	MAUVCDG2BGF	MAUVCDG2PGS	MAUVCDG2BGS	MAUVCDG2PGB	MAUVCDG2BGB	MAUVCDS2SLH	MAUVCDS2SLF	MAUVCDS2SLS	MAUVCDS2BLB	MAUVCDS2SGH	MAUVCDS2SGF	MAUVCDS2SGS	MAUVCDS2SGB	MAUVCDG2-SMC	MAUVCDS2-SMC
mechani	sm T		Ž	Σ	Σ	₹	Σ	Σ	₹	≨	Σ	≨∣	≨∣	≨∣	≨∣	₹	₹	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Ā	₹	Σ	₹
1	DRIVE	MANUAL QUADRANT																										
	DRIVE	ELECTRIC ACTUATOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	✓ ,	1
	BLADE	G.I. AEROFOIL BLADES																										
	TYPE	ALUMINUM AEROFOIL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	<	✓	✓ \	7
	BLADE	OPPOSED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ ,	/
	MOVEMENT	PARALLEL				CAN						•	CEP ADE											•	DER	<u> </u>		
		CONTROL (AIR BALANCING)	✓	√	√	√	✓	√	√	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	< \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/
	USE	LOW LEAKAGE																										٦
		(AIR TIGHT SHUT OFF)	1 !																									
	FRAME	GALVANIZED STEEL	✓	✓	1	✓	✓	✓	✓	✓	1	1	1	✓	✓	✓	1	✓									✓	
	CONSTRUCTION	STAINLESS STEEL 304																	/	1	1	/	./	1	/	1	,	/
	BUSHING/										- 1					- 1		- 1					٧	٠ ا				
		PLASTIC BUSHES	✓		✓		✓		√		✓		√	1	√		√						•	,				
	BEARING	PLASTIC BUSHES BRASS BUSHES	✓	√	✓	√	✓	√	✓	√	✓	√	-+	✓	-	√	✓	√									✓ .	_
	BEARING TYPE		✓	✓	✓	✓	✓	√	✓	√	√	√	-+	-+	-	√	✓	√	√	· ✓	✓	· ✓	√	√	√	✓	✓ ,	_
	TYPE	BRASS BUSHES	✓ ✓	✓ ✓	✓	✓ ✓	✓	✓ ✓	✓ ✓	✓ ✓	√ √	✓ ✓	-+	-+	-	√	√	✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	√	✓	✓	✓	✓ , ✓ ,	\ \ \
		BRASS BUSHES S.S. BEARING		✓ ✓		✓ ✓					·		-+	-+	-	✓ ✓	✓	✓ ✓		√ ✓	√ ✓	√ ✓	√ ✓	√ ✓	✓ ✓	✓ ✓		\
	TYPE	BRASS BUSHES S.S. BEARING G.I. LINKAGE		✓ ✓		✓ ✓					·		-+	-+	-					✓ ✓	√ ✓	✓ ✓		✓ ✓	✓	✓		
	TYPE	BRASS BUSHES S.S. BEARING G.I. LINKAGE PLASTIC GEARS	✓ ·	✓ ✓		✓ ✓					✓	✓	✓ ·	-+	-		\(\)		✓	✓ ✓ ✓ ✓	√ ✓	✓ ✓	✓	✓ ✓	✓ ✓	✓	√ ·	
	TYPE MECHANISM	BRASS BUSHES S.S. BEARING G.I. LINKAGE PLASTIC GEARS HAT-SHAPED	✓ ·	✓ ✓	✓ /	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓					✓	✓	✓ ·	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	-				✓	✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓	✓	✓	✓	✓	√ ·	/ / /

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





STEEL BLADES OPTIONS

1											MAI	NUA	L Q	UAD	RA	NT I	MOD	ELS	3								
blades	MODEL FEATURE	АGVCDG2PLH	АGVCDG2BLH	AGVCDG2PLF	AGVCDG2BLF	AGVCDG2PLS	AGVCDG2BLS	AGVCDG2PLB	AGVCDG2BLB	AGVCDG2PGH	AGVCDG2BGH	AGVCDG2PGF	AGVCDG2BGF	AGVCDG2PGS	AGVCDG2BGS	AGVCDG2PGB	AGVCDG2BGB	AGVCDS2SLH	AGVCDS2SLF	AGVCDS2SLS	AGVCDS2BLB	AGVCDS2SGH	AGVCDS2SGF	AGVCDS2SGS	AGVCDS2SGB	AGVCDG2-SMC	AGVCDS2-SMC
DDIVE	MANUAL QUADRANT	✓	✓	✓	✓	✓	✓	1	✓	✓	1	1	1	✓	✓	✓	✓	✓	✓	✓	1	1	✓	✓	1	✓	✓
DRIVE	ELECTRIC ACTUATOR																										
BLADE	G.I. AEROFOIL BLADES	✓	✓	✓	>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									✓	
TYPE	STAINLESS STEEL AEROFOIL																	✓	✓	✓	✓	✓	✓	✓	✓		✓
BLADE	OPPOSED	✓	✓	✓	>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MOVEMENT	PARALLEL				CAN		ABC WIT				•												•	DEF	₹		
USE	CONTROL (AIR BALANCING)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LOW LEAKAGE (AIR TIGHT SHUT OFF)																										
FRAME	GALVANIZED STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									✓	
CONSTRUCTION	STAINLESS STEEL 304																	✓	✓	✓	✓	✓	✓	✓	✓		✓
BUSHING/	PLASTIC BUSHES	✓		✓		✓		✓		✓		✓		✓		✓											
BEARING	BRASS BUSHES		✓		~		\		✓		✓		✓		✓		✓									✓	
TYPE	S.S. BEARING																	✓	✓	✓	✓	✓	✓	✓	✓		✓
MECHANISM	STEEL LINKAGE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	✓	✓	✓					✓	✓
FIXING	PLASTIC GEARS											✓	✓	✓	✓	✓	✓					1	✓	✓	✓		
	HAT-SHAPED	✓	✓							✓	✓							✓				✓				✓	✓
	FLANGE			✓	✓							✓	✓						✓				✓				
		ı	I	ı		1	✓		ı	1 1	1		1	√	✓	1		1 1	1	/	1	1	1	/			
TO DUCT	SLIP & CLIP					· ·	٧							v	v					· ·				· ·	\dashv	\rightarrow	

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

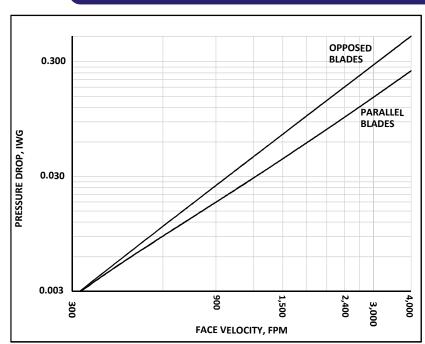
DRIVE		MOTORIZED MODELS																											
DRIVE		(///												МС	TOF	RIZE	D M	ODI	ELS										
BLADE G.I. AEROFOIL BLADES	tuator ⁄	Sm.		MAGVCDG2PLH	MAGVCDG2BLH	MAGVCDG2PLF	MAGVCDG2BLF	MAGVCDG2PLS	MAGVCDG2BLS	MAGVCDG2PLB	MAGVCDG2BLB	MAGVCDG2PGH	MAGVCDG2BGH	MAGVCDG2PGF	MAGVCDG2BGF	MAGVCDG2PGS	MAGVCDG2BGS	MAGVCDG2PGB	MAGVCDG2BGB	MAGVCDS2SLH	MAGVCDS2SLF	MAGVCDS2SLS	MAGVCDS2BLB	MAGVCDS2SGH	MAGVCDS2SGF	MAGVCDS2SGS	MAGVCDS2SGB	MAGVCDG2-SMC	MAGVCDS2-SMC
BLADE G.I. AEROFOIL BLADES		DDIVE	MANUAL QUADRANT																										
TYPE STAINLESS STEEL AEROFOIL OPPOSED OF STAINLESS STEEL OPPOSED OPPOS		DRIVE	ELECTRIC ACTUATOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BLADE MOVEMENT PARALLEL ABOVE MODELS (EXCEPT THE ONES WITH GEAR MECHANISM) CAN BE WITH PARALLEL BLADES, PLS. WRITE "PARALLEL" ON YOUR ORDER		BLADE	G.I. AEROFOIL BLADES	>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									✓	
BLADE MOVEMENT PARALLEL ABOVE MODELS (EXCEPT THE ONES WITH GEAR MECHANISM) CAN BE WITH PARALLEL BLADES, PLS. WRITE "PARALLEL." ON YOUR ORDER CONTROL (AIR BALANCING)		TYPE	STAINLESS STEEL AEROFOIL																	✓	✓	✓	✓	✓	✓	✓	✓		✓
MOVEMENT		BLADE OPPOSED		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	1	✓
USE LOW LEAKAGE (AIR TIGHT SHUT OFF)		MOVEMENT	PARALLEL				CAN						•												,	DER			
CALVANIZED STEEL	Ī		CONTROL (AIR BALANCING)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FRAME GALVANIZED STEEL		USE	LOW LEAKAGE																										
CONSTRUCTION STAINLESS STEEL 304 V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V <th< th=""><th></th><th></th><th>(AIR TIGHT SHUT OFF)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>			(AIR TIGHT SHUT OFF)																										
BUSHING/BEARING PLASTIC BUSHES V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V	ı	FRAME	GALVANIZED STEEL	✓	1	1	1	✓	✓	1	✓	✓	✓	✓	1	✓	1	✓	✓									1	
BEARING BRASS BUSHES		CONSTRUCTION	STAINLESS STEEL 304																	✓	✓	1	✓	✓	✓	✓	1		✓
TYPE S.S. BEARING STEEL LINKAGE	Ī	BUSHING/	PLASTIC BUSHES	✓		✓		✓		✓		✓		✓		✓		✓											П
STEEL LINKAGE	ļ	BEARING	BRASS BUSHES		✓		✓		✓		✓		✓		✓		✓		✓									✓	
MECHANISM PLASTIC GEARS	ļ	TYPE	S.S. BEARING																	✓	✓	✓	✓	✓	✓	✓	✓		√
PLASTIC GEARS		MECHANISM	STEEL LINKAGE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	✓	✓	✓					✓	✓
FIXING FLANGE ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ <th< th=""><th></th><th>MECHANISM</th><th>PLASTIC GEARS</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>✓</th><th>✓</th><th>✓</th><th>✓</th><th>✓</th><th>✓</th><th></th><th></th><th></th><th></th><th>✓</th><th>✓</th><th>✓</th><th>✓</th><th></th><th></th></th<>		MECHANISM	PLASTIC GEARS											✓	✓	✓	✓	✓	✓					✓	✓	✓	✓		
TO DUCT SLIP & CLIP	ſ		HAT-SHAPED	✓	✓							✓	✓							✓				✓				✓	✓
SER USER			FLANGE			✓	✓							✓	✓						✓				✓				\Box
POY TYPE (NOEDTED INCIDE DUCT)			SLIP & CLIP					✓	✓							✓	✓					✓				✓			
			BOX TYPE (INSERTED INSIDE DUCT)							✓	✓							✓	✓				✓				✓		

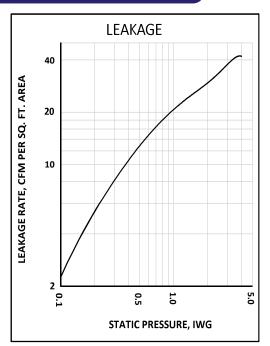
**Other options of S.S. bushes "X" and S.S. bearing "S" are shown at the ordering key.





PERFORMANCE DATA







Ordering Key:

M	AU	VCD	G2	Р	1	F	SIZE
	AU	VCD	GL.	F	_	•	3120
OUADDANT							
QUADRANT							
DRIVEN							
M: MOTORIZED							
	LUMINUM BLADES						
AG: AEROFOIL A							
	CONTROL DAMP) CD					
	CONTROC DAMP	cn					
	ONSTRUCTION ((CTANDADD)					
	ONSTRUCTION	(UAAUVIAIC)					
	ONSTRUCTION						
	304 CONSTRUCT	TION					
	304 CONSTRUC						
	304 CONSTRUC						
	304 CONSTRUC						
	SHES (STANDAR						
B: BRASS BUS	-	,					
X: S.S. BUSHES	5						
S: S.S. BEARIN	GS						
L: STEEL LINK	AGE MECHANISM	(STANDARD)			ı		
G: PLASTIC GE	ARS MECHANISI	M					
H: HAT-SHAPE	O FRAME					•	
F: FLANGED TO	DUCT (STANDA	ARD)					
S: SLIP & CLIP	WITH DUCT						
B: BOX TYPE (I	NSERTED INSID	€ DUCT)					
SIZE: WIDTH X	HEIGHT						•
Single section	minimum size:		5	inale section π	naximum size		

Single section maximum size: I200XI200mm for Hat-shaped/Flanged types. I000XI000mm for Slip & Clip/ Box types.



IOOXIOOmm for Flanged/Box/Slip & clip types.

IOOXI50mm for Hat-shaped types.



LOW-LEAKAGE VOLUME CONTROL DAMPER - LVCD SERIES 3V-SHAPED STEEL BLADES

STANDARD CONSTRUCTION

Frame: I33mm Roll formed hat-shaped made of I.2mm

thick galvanized steel with reinforced corners, having integral bracing and 90° perpendicular

overlap at a corner.

Blades: Roll formed 3 V-shaped made of I.2mm thick

galvanized steel.

Bushes: Brass bushes.

Axles: I/2" Square axles made of galvanized steel.

Linkage: Mechanical and concealed in frame.

Jamb Seals: Stainless steel jamb seals.

Blades Seal: Silicone blades edges seal/gasket.

Leakage: Class I

Air Flow Rating: 2000 FPM / 4 IWG.

Single section minimum size:

ISOXISOmm for Hat-shaped/Flanged types.

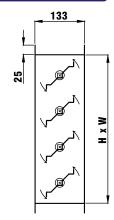
Single section maximum size:

I200XI200mm for Hat-shaped/Flanged types.

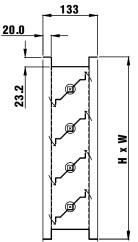
Model LVCDG2BLH



DIMENSIONS



LVCD-Flange type



LVCD-Hat type





LOW-LEAKAGE VOLUME CONTROL DAMPER - LVCD SERIES 3V-SHAPED STEEL BLADES

OPTIONS

		MA	NUA	L Q	UAD	RAN	IT M	ODE	LS
blades	MODEL	LVCDG2BLH	LVCDG2XLH	LVCDG2BLF	LVCDG2XLF	LVCDS2SLH	LVCDS2SLF	LVCDG2-SCM	LVCDS2-SMC
DRIVE	MANUAL QUADRANT	✓	✓	✓	✓	✓	✓	✓	✓
DRIVE	ELECTRIC ACTUATOR								
BLADE	G.I. 3V-SHAPED	✓	✓	✓	✓	✓	✓	✓	✓
TYPE	ALUMINUM AEROFOIL								
BLADE	OPPOSED								
MOVEMENT	PARALLEL	✓	✓	✓	1	✓	✓	1	1
	CONTROL (AIR BALANCING)	✓	✓	✓	✓	✓	✓	✓	✓
USE	LOW LEAKAGE	/		_	_	_	_	_	1
	APPLICATIONS	•	~	v	•	v	•	•	ľ
	GALVANIZED STEEL	✓	✓	✓	✓			✓	
CONSTRUCTION	STAINLESS STEEL 304					✓	✓		✓
BUSHING/	PLASTIC BUSHES								
BEARING	BRASS BUSHES	\		✓				\	
TYPE	S.S. BEARING		✓		✓				
	S.S. BEARING					✓	✓		✓
MECHANISM	G.I. LINKAGE	✓	✓	✓	✓	✓	✓	✓	✓
	PLASTIC GEARS								
	HAT-SHAPED	✓	✓			✓		✓	✓
FIXING	FLANGE			✓	✓		✓		
TO DUCT	SLIP & CLIP								
	BOX TYPE (INSERTED INSIDE DUCT)								

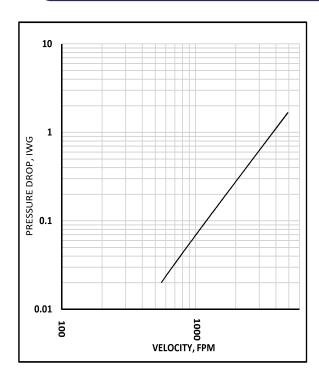
				МО	TOF	RISE	D M	ODE	ELS	
SHAFT		MODEL FEATURE	MLVCDG2BLH	MLVCDG2XLH	MLVCDG2BLF	MLVCDG2XLF	MLVCDS2SLH	MLVCDS2SLF	MLVCDG2-SMC	MLVCDS2-SMC
	DRIVE	MANUAL QUADRANT	✓	✓	✓	✓	✓	✓	✓	✓
	DRIVE	ELECTRIC ACTUATOR								
	BLADE	G.I. 3V-SHAPED	✓	✓	✓	✓	✓	✓	✓	✓
	TYPE	ALUMINUM AEROFOIL								
	BLADE	OPPOSED								
	MOVEMENT	PARALLEL	✓	✓	✓	✓	✓	✓	✓	✓
		CONTROL (AIR BALANCING)	✓	✓	✓	✓	✓	✓	✓	✓
	USE	LOW LEAKAGE	\	/	1	1	1	1	/	/
		APPLICATIONS	٧	•	•	v	v	v	v	٧
		GALVANIZED STEEL	✓	✓	✓	✓			✓	
	CONSTRUCTION	STAINLESS STEEL 304					✓	✓		✓
	BUSHING/	PLASTIC BUSHES								
	BEARING	BRASS BUSHES	✓		✓				✓	
	TYPE	S.S. BUSHES		✓		✓				
		S.S. BEARING					✓	✓		✓
	MECHANISM	G.I. LINKAGE	✓	✓	✓	✓	✓	✓	✓	✓
	FIXING	PLASTIC GEARS								
		HAT-SHAPED	✓	✓			✓		✓	✓
		FLANGE			✓	✓		✓		
	TO DUCT	SLIP & CLIP								
	.0200.	BOX TYPE (INSERTED INSIDE DUCT)								





LOW-LEAKAGE VOLUME CONTROL DAMPER - LVCD SERIES 3V-SHAPED STEEL BLADES

PERFORMANCE DATA



Note:

Pressure drop test was done at an independent laboratory in accordance with the AMCA 500-D standard on 36"X36" sample.

Maximum L	.eakage, cf	m/ft²	
Pressure Class	1.0" W.G	4" W.G	8" W.G
1	4	8	11

Ordering Key:



M	L	VCD	G2	В	L	Н	
 :							
QUADRANT-							
DRIVED							
M:							
MOTORIZED							
L: 3V-SHAPE	G.I. BLADES						
LOW-LEAK	AGE TYPE						
VCD: CONTRO	DL DAMPER	,					
GI: O.9MM G.I	. CONSTRUCTIO	N					
G2: 1.2MM G.1	. CONSTRUCTIO	N (STANDARD))				
G3: I.5MM G.I	. CONSTRUCTIO	N					
G4: I.7MM G.I	. CONSTRUCTIO	N					
	. 304 CONSTRU						
S2: I.2MM S.	5 304 CONSTRU	JCTION					
	5 304 CONSTRU						
	5 304 CONSTRU						
	ISHES (STANDA	(RD)					
X: S.S. BUSH							
S: S.S. BEARI		(STANDADD)					
	E MECHANISM (
	ED FRAME (STA	(NDARD)					
F: FLANGED SIZE: WIDTH							
	on minimum siz mm for Hat-sh	e: aped/Flanged t	ypes.	ingle section m I200XI200r		aped/Flanged t	yр

B



ROUND VOLUME CONTROL DAMPER - VDR MODEL STEEL BLADE

STANDARD CONSTRUCTION

Frame: 0.9mm thick galvanized steel

sheet.

Blades: O.9mm thick galvanized steel

sheet.

Axles: 1/2" square hollow Aluminum

extruded profile.

Bushing: Self lubricating plastic bushes.

Quadrant: Plated steel with wing nut to

lock the blades position.

Marked to show the position

of the blades.

Seal: Foam gasket.

Sizes: 4, 5, 6, 8, 10, 12 inch diameter (AMCA certified).

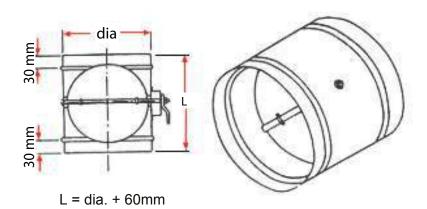
Diameters 14 inch and above are available up on request.







DIMENSIONS







ROUND VOLUME CONTROL DAMPER - VDR MODEL STEEL BLADE

OPTIONS

				Qι		UAL RAN ELS	Τ						ОТО МОІ				
	FEATURE		VDRG2B	VDRG2X	VDRG2S	VDR52X	VDR52S	VDRG2-SMC	VDRS2-SMC	MVDRG2P	MVDRG2B	MVDRG2X	MVDRG2S	MVDRS2X	MVDR52S	MVDRG2-SMC	MVDRS2-SMC
DRIVE	MANUAL QUADRANT	✓	✓	✓	✓	✓	✓	✓	✓								
DRIVE	ELECTRIC ACTUATOR									✓	✓	✓	✓	✓	✓	✓	✓
BLADE TYPE	SINGLE SKIN	✓	✓	✓	√	✓	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
	CONTROL (AIR BALANCING)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
USE	LOW LEAKAGE (AIR TIGHT SHUTT OFF)																
CONSTRUCTION	GALVANIZED STEEL	✓	✓	✓	✓			✓		✓	✓	✓	✓			✓	
CONSTRUCTION	STAINLESS STEEL 304					✓	✓		✓					✓	✓		✓
DUCUING!	PLASTIC BUSHES	✓								✓							
BUSHING/	BRASS BUSHES		✓					1	✓		1					✓	✓
BEARING	S.S. BUSHES			✓		✓						✓		✓			
TYPE	S.S. BEARING				✓		✓						✓		✓		

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

Ordering Key:



M	V	DR	G2	Р	SIZE											
: QUADRANT-																
DRIVED																
M: MOTORIZED																
V: SINGLE SKIN B	LADE															
DR: CONTROL DA	MPER ROUND TYPE	•														
GI: 0.7MM G.I. CONSTRUCTION																
G2: 0.9MM G.I. CONSTRUCTION (STANDARD)																
G3: I.2MM G.I. CO	G3: I.2MM G.I. CONSTRUCTION															
G4: I.5MM G.I. CO	NSTRUCTION															
SI: 0.8MM S.S. 30	04 CONSTRUCTION															
52: I.OMM 5.5 30	4 CONSTRUCTION															
53: I.2MM 5.5 30	4 CONSTRUCTION															
P: PLASTIC BUSH	IES (STANDARD)															
B: BRASS BUSHES																
X: S.S. BUSHES	X: S.S. BUSHES															
S: S.S. BEARINGS	S: S.S. BEARINGS															
SIZE: DIAMETER	OF 4, 5, 6, 8, 10, 12, 1	4, 16, 18, 20, 22 or 2	4	SIZE: DIAMETER OF 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 22 or 24												





ROUND VOLUME CONTROL DAMPER - VDR MODEL STEEL BLADE

PERFORMANCE DATA

4"

12"

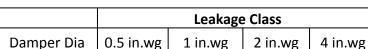
Beta Industrial LLC certifies that the VDR shown hereon is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program.

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

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, Figure 5.4
- * Tested for air performance at standard air density in accordance with ANSI/AMCA 500-D, Figure 5.3
- * Data are based on a torque of 49 in-lb/ft² applied to close and seat the damper during the test.

AIR PERFORMANCE DATA



1A

3

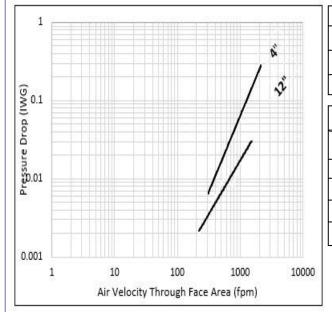
1

3

AIR LEAKAGE DATA

1

3



Maximum Allowable Leakage, cfm/ft ²											
Pressure	1.0"	4"	8"								
Class	W.G	W.G	W.G								
1A	3	N/A	N/A								
1	4	8	11								
2	10	20	28								
3	40	80	112								

Bulletin No. 8, December 2022



1

3



NON-RETURN DAMPER - MODEL NRD

STANDARD CONSTRUCTION

Frame: 0.9mm thick galvanized steel.

Blades: I.Omm thick extruded Aluminum profiles.

Bushing: Brass bushes.

Axles: Round extruded Aluminum profiles.

Seal: Foam blades seals.

Size: Single section up to 600 X 600mm.

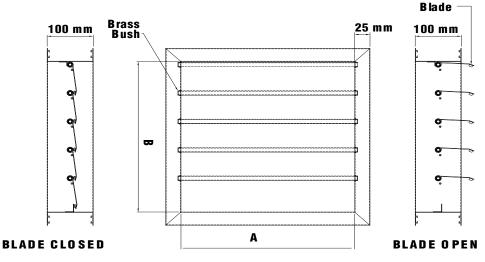
OPTIONS

	MODEL FEATURE	NRD	NRD-CR	NRDE	NRDE-CR
BRASS BUSHES	YES	✓	✓		
	NO			✓	✓
CONNECTING ROD	YES		✓		✓
CONNECTING ROD	NO	✓		✓	
COUNTERWEIGHT	NO	✓	✓	✓	✓
FLANGES	2 SIDES	✓	✓	✓	✓
FINISH	MILL FINISH	✓	✓	√	✓
INSTALLATION	2-SIDES DUCTED	√	√	~	✓
APPLICATION	DISCHARGE & INTAKE	✓	✓	✓	✓



DIMENSIONS

DUCTED NON RETURN DAMPER NRD MODEL:







NON-RETURN DAMPER - MODEL NRD

PERFORMANCE DATA

Beta Industrial LLC certifies that the NRD-CR 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 Perfomance ratings.

Test Information

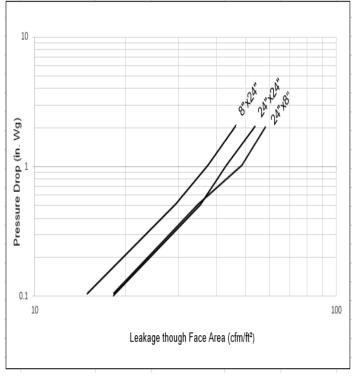
Air leakage is based on operation between 32 °F and 120 °F
Tests were conducted at standard air density in accordance with ANSI/AMCA Standard

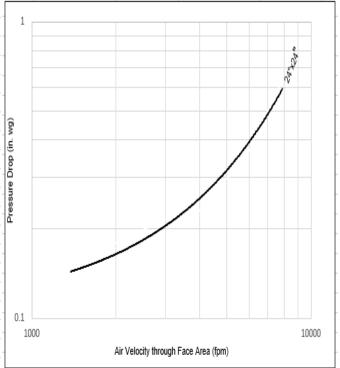
500-D, Figure 5.4 for Air Leakage & Fig 5.5 for Pressure drop, on a 24 in. x 24 in. sample. Air Performance testing conducted in accordance with ANSI/AMCA Standard 500-D, Figure 5.4 for Air Leakage & Fig 5.5 for Pressure drop.



AIR LEAKAGE DATA

AIR PERFORMANCE DATA





Ordering Key:

SWAGNA

N	R	D	€	CR	W	X	Н
NRD: NON-RE	TURN DAMPER V	VITH BRASS BUS	SHES				
NRD-CR: NON	RETURN DAMPE	R WITH BRASS E	BUSHES & CONN	ECTING ROD			
NRDE: NON-R	ETURN DAMPER	WITHOUT BRASS	5 BUSHES				
NDDC.CD. NO	NIDETLION DAMO	CD WITHOUT DD	VCC BLICHEC MI	TH CONNECTING			

ROD

SIZE: WIDTH X HEIGHT

Bulletin No. 8, November 2022





PRESSURE RELIEF DAMPER - MODEL PRD

STANDARD CONSTRUCTION

PRD:

Frame: 0.9mm thick galvanized steel.

Blades: I.Omm thick extruded Aluminum profiles with adjustable counterweight for fine-tune operation.

Axles: Round extruded Aluminum profiles.

Bushing: Brass bushes. Seal: Foam blades seals.

Size: Single section up to I200 X I200mm.

DPRD & IPRD:

Frame: I.2mm thick extruded Aluminum profiles.

Blades: I.Omm thick extruded Aluminum profiles with
adjustable counterweight for fine-tune operation.

Axles: Round extruded Aluminum profiles.

Bushing: Brass bushes. Seal: Foam blades seals.

Size: Single section up to I200 X I200mm.



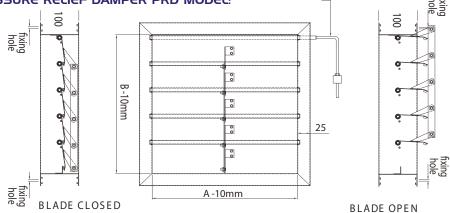
OPTIONS

	MODEL	PRD	DPRD	IPRD
BRASS BUSHES	YES	✓	✓	~
BLADES CONNECTING	YES	✓	✓	✓
COUNTERWEIGHT	YES	~	✓	✓
FLANGES	1 SIDE		✓	✓
PLANGES	2 SIDES	✓		
FINISH	MILL FINISH	✓		
FINISH	POWDER COATED TORAL9010/9016		✓	✓
INSTALLATION	2-SIDES DUCTED	✓		
INSTALLATION	WALL-MOUNTED		✓	✓
APPLICATION	DISCHARGE		✓	
AFFLICATION	INTAKE			✓



DIMENSIONS

DUCTED PRESSURE RELIEF DAMPER PRD MODEL:

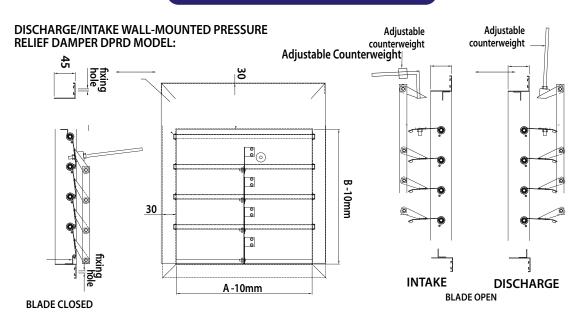


OPTION: PRD MODELS CAN BE MADE OF I.2MM THICK ALUMINUM FRAME INSTEAD OF STEEL FRAME. OTHER COMPENENTS REMAIN AS STANDARD CONSTRUCTION.

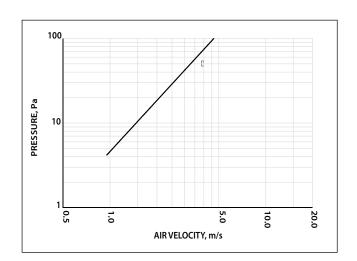




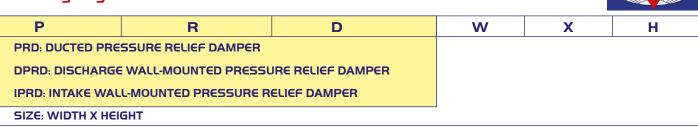
DIMENSIONS



FOR PRD MODELS:



Ordering Key:







ACCESS DOORS







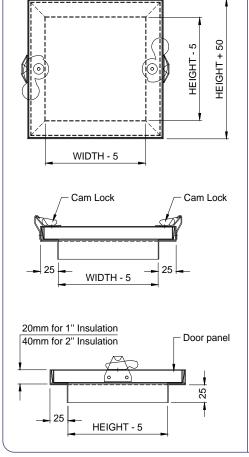
Description:

- Made of I.2mm thick galvanized steel.
- Contain I" thick glass fiber insulation of 24kg/m³ (2" optional).
- Provided with gasket betwen door & frame.
- For closure, equipped with one of the following alternatives.
 - 2 cam locks (standard)
 - -I cam lock & Piano-hinge.
 - Piano-hinge & handle operated lock with key.

Dimensions:

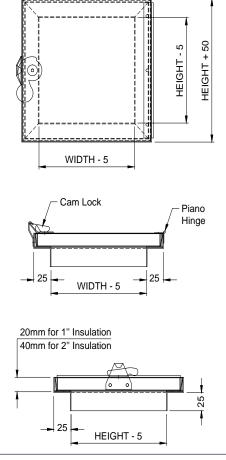
WIDTH + 50

ACCESS DOOR WITH 2 CAM LOCKS

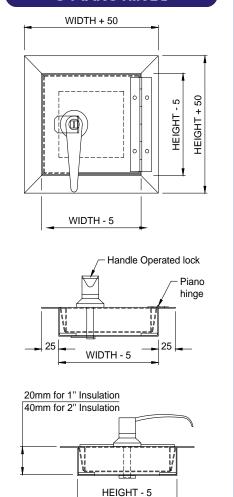


ACCESS DOOR WITH A CAM LOCK & PIANO HINGE

WIDTH + 50



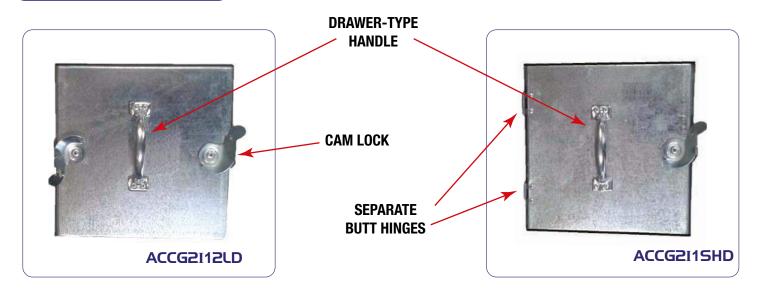
ACCESS DOOR WITH A HANDLE OPERATED LOCK & PIANO HINGE





DAMPERS

OPTIONS





Ordering Key:

Α	С	С	G2	I1	Р	Н	L	K	W	Х	Н
ACCESS DOOR											
GO: 0.7MM G.I. CONSTRUCTION											
G1: O.9MM G.I. CONSTRUCTION											
G2: I.2MM G.I. CONSTRUCTION (STANDARD)											
G3: I.5MM G.I. CONSTRUCTION											
I1: 1" INSULATION THICKNESS (STANDARD)											
I2: 2" INSULATION THICKNESS (OPTIONAL)											
2L: WITH 2 CAM LOCKS (STANDARD)											
2LD: WITH 2 CAM LOCKS & DRAWER - TYPE HANDLE											
PH: WITH PIANO HINGE AND A CAM LOCK											
PHD: WITH PIANO HINGE, A CAM LOCK & DRAWER - TYPE HANDLE											
SH: WITH SEPARATE HINGES & A CAM LOCK											
SHD: WITH SEPARATE HINGES, A CAM LOCK & DRAWER - TYPE HANDLE											
PHLK: WITH PIANO HINGES & HANDLE OPERATED LOCK WITH A KEY											
SHLK: WITH SEPARATE BUTT HINGES & HANDLE OPERATED LOCK / KEY											
SIZE: WIDTH X HEIGHT											



NOTES:



DAMPERS



NOTES:





NOTES:





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