



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

## STANDARD CONSTRUCTION

**Frame:** 1.2mm thick galvanized steel sheet.

**Blades:** 3 V-shaped 1.2mm thick roll-formed galvanized steel.

**Axes:** 1/2" square galvanized steel rod.

**Linkage:** made of galvanized steel.  
Concealed in frame.

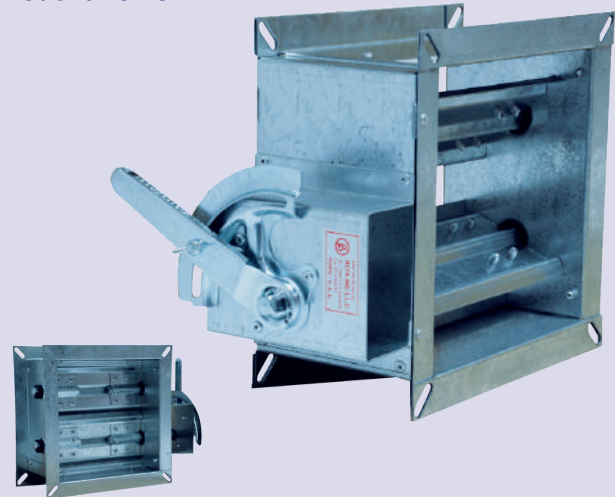
**Bushing:** Self lubricating plastic bushes.

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

**Fixing to duct:** Flanged frame.

**Size:** Single section up to:  
1200X1200mm for Hat-shaped/flanged types.  
1000X1000mm for slip & clip/box types.

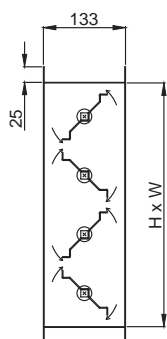
Model 3VCDG2PLF



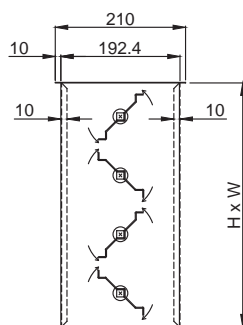
Model 3VCDG2PLH



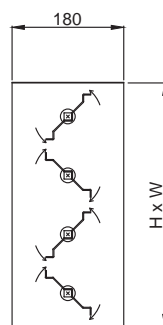
## DIMENSIONS



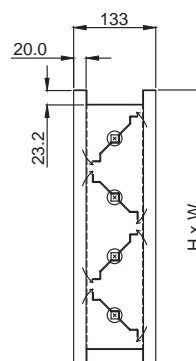
3VCD-Flange type



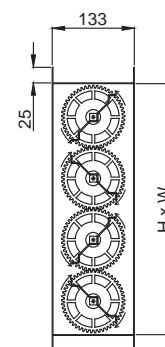
3VCD-Slip & Clip type



3VCD-Box type



3VCD-Hat type



3VCD with gear mechanism



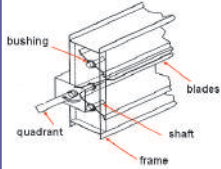
Plastic Bushes





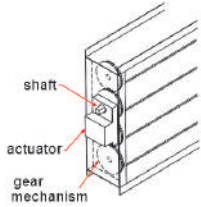
# VOLUME CONTROL DAMPER - 3VCD SERIES 3V-SHAPED STEEL BLADES

## OPTIONS



FEATURE	MODEL	MANUAL QUADRANT MODELS																									
		3VCDG2PLH	3VCDG2BLH	3VCDG2PLF	3VCDG2BLF	3VCDG2PLS	3VCDG2BLS	3VCDG2PLB	3VCDG2BLB	3VCDG2PGH	3VCDG2BGH	3VCDG2PGF	3VCDG2BGF	3VCDG2PGS	3VCDG2BGS	3VCDG2PGB	3VCDG2BGB	3VCDG2SLH	3VCDG2SLF	3VCDG2SLS	3VCDG2BLB	3VCDG2SGH	3VCDG2SGF	3VCDG2SGS	3VCDG2SGB	3VCDG2-SMC	3VCDG2-SMC
DRIVE	MANUAL QUADRANT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ELECTRIC ACTUATOR																										
BLADE TYPE	G.I. 3V-SHAPED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	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)																										
CONSTRUCTION	GALVANIZED STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	STAINLESS STEEL 304																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BUSHING/ BEARING TYPE	PLASTIC 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																									
		M3VCDG2PLH	M3VCDG2BLH	M3VCDG2PLF	M3VCDG2BLF	M3VCDG2PLS	M3VCDG2BLS	M3VCDG2PLB	M3VCDG2BLB	M3VCDG2PGH	M3VCDG2BGH	M3VCDG2PGF	M3VCDG2BGF	M3VCDG2PGS	M3VCDG2BGS	M3VCDG2PGB	M3VCDG2BGB	M3VCDG2SLH	M3VCDG2SLF	M3VCDG2SLS	M3VCDG2BLB	M3VCDG2SGH	M3VCDG2SGF	M3VCDG2SGS	M3VCDG2SGB	M3VCDG2-SMC	M3VCDG2-SMC
DRIVE	MANUAL QUADRANT																										
	ELECTRIC ACTUATOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BLADE TYPE	G.I. 3V-SHAPED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	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)																										
CONSTRUCTION	GALVANIZED STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	STAINLESS STEEL 304																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BUSHING/ BEARING TYPE	PLASTIC 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)									✓	✓							✓	✓			✓			✓		

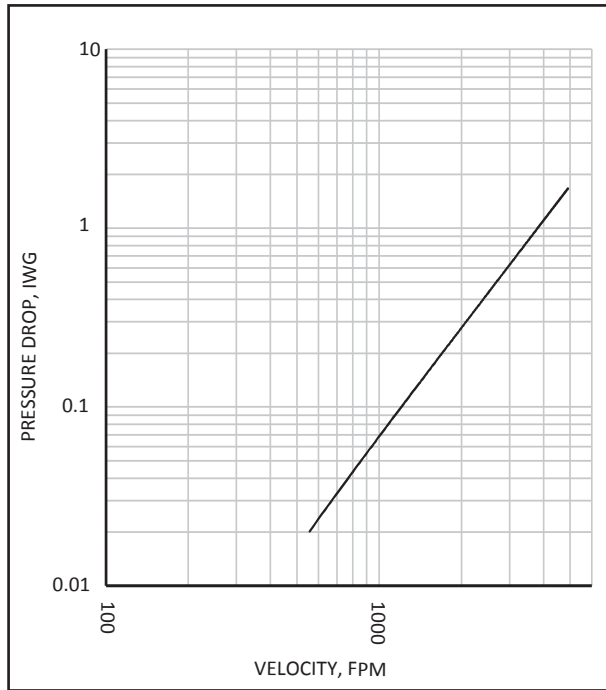
\*\*Other options of S.S. bushes "X" and S.S. bearing "S" are shown at the ordering key.



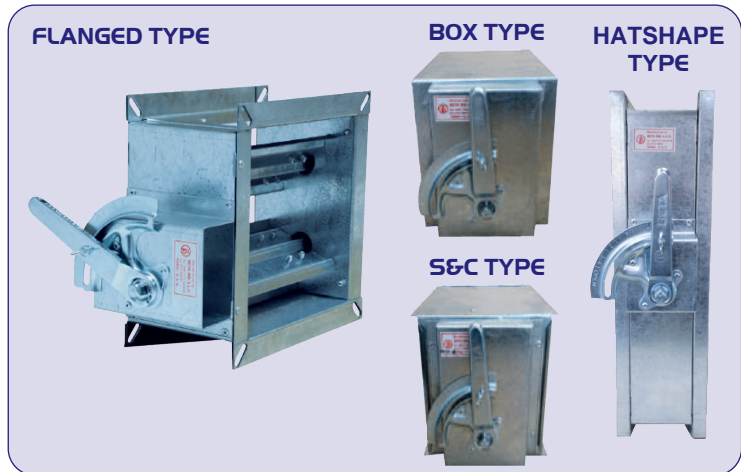


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## PERFORMANCE DATA



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



### Ordering Key:

M	3	VCD	G2	P	L	F	SIZE
-- : QUADRANT DRIVED M: MOTORIZED							
3: 3V-SHAPED G.I. 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 BUSHES (STANDARD) B: BRASS BUSHES X: S.S. BUSHES S: S.S. BEARINGS							
L: G.I. 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							

