

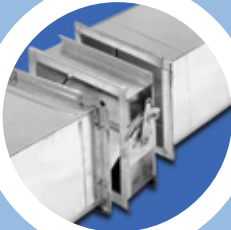


**SHARQAWI**

**Air Distribution Systems Co. Factory**

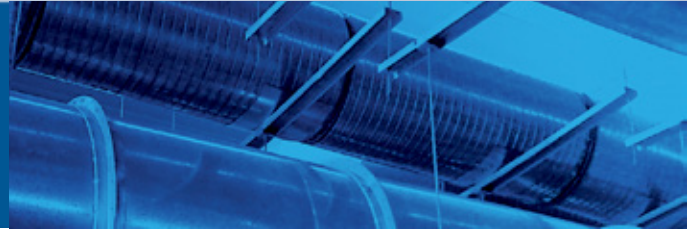
*Delivering Excellence*

# **VOLUME CONTROL DAMPER**



- **On Time Delivery** • **According to Standard**
- **Customization** • **Quality** • **Cooperation**

# Delivering Excellence



## ABOUT US

**Sharqawi Air Distribution Systems Co. Factory**, has been in the market since 1995, as one leading manufacturer in the kingdom of Saudi Arabia in the field of fabrication of HVAC duct and its Accessories. Upon whose satisfaction we have been allowed to grow and prosper in this highly competitive marketplace.

As one of the leading HVAC ducts and its accessories manufacturers, our reason of 'being' is a combination of our vision, mission, and values.

### **Vision:**

We aspire making Sharqawi the most trusted manufacturer of HVAC ducts and its accessories in the Kingdom of Saudi Arabia, region and the world.

### **Mission:**

To aim for design perfection and expanding our market-share by enhancing our marketing, satisfying customer requirements, complying with the international quality standards and consistently sustaining our improvement program.

### **Values:**

Our values reflect who we are and our reason for being.

**Quality:** We provide exquisite products that deliver exceptional values to our customer.

**Integrity:** We boost the highest integrity in all of our activities and operations.

Customer commitment: we develop positive relationships that make a beneficial influence on our client's business.

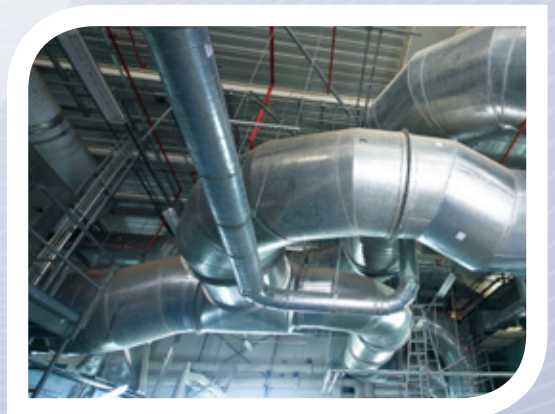
**Teamwork:** We work together across boundaries to meet the expectations of our customers and support the company to win.

**A Will To Win:** We exhibit a strong will to win in the marketplace and every aspect of our business.

**Respect for people:** We value our people, encourage their development and reward their performance.

**Good residents:** We are good residents in the communities in which we live and work.

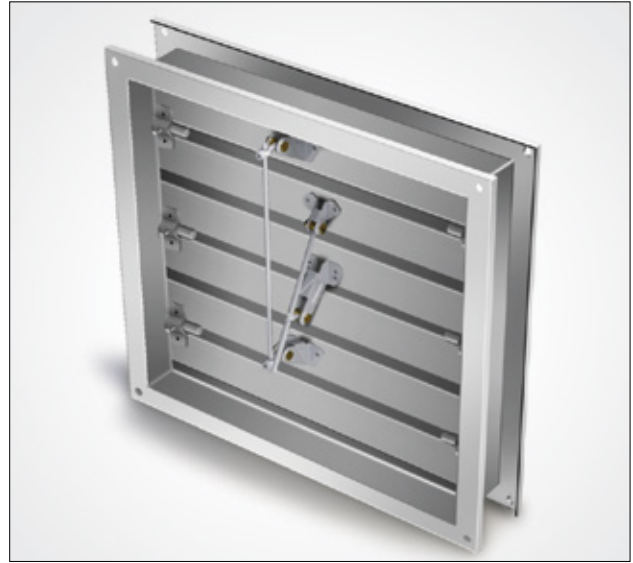
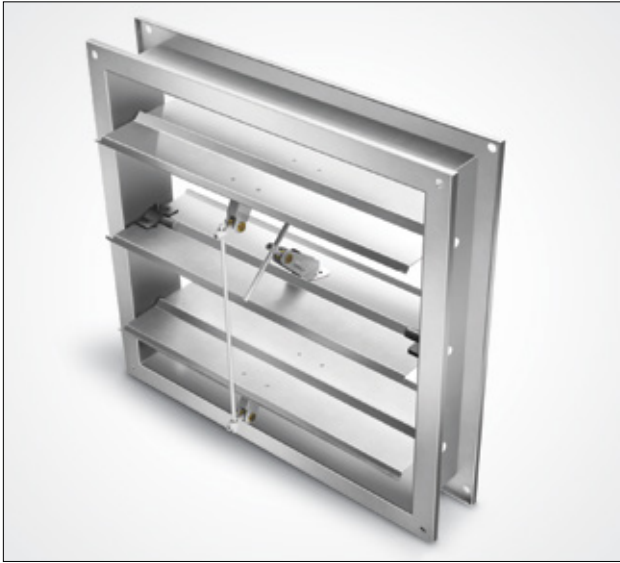
**Personal Accountability:** We are personally accountable for delivering on our commitment.







# CONSTRUCTION



## Description

Volume control damper Balancing/ Shut-off type are ruggedly designed to suit client individual requirements, for controlling airflow with motorized or manual operations applications, in low to high pressure and velocity ventilation systems.

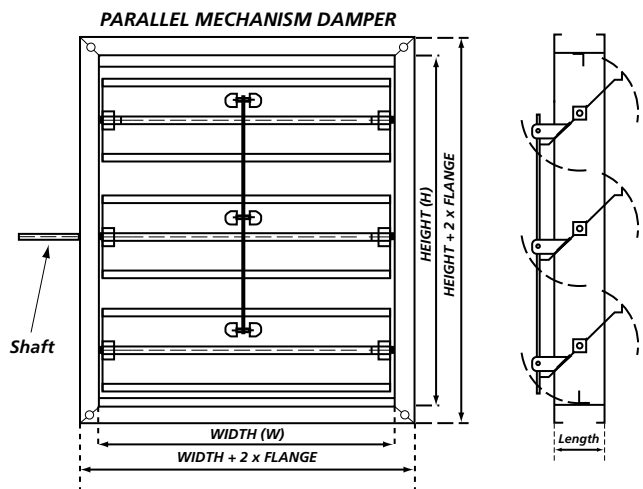
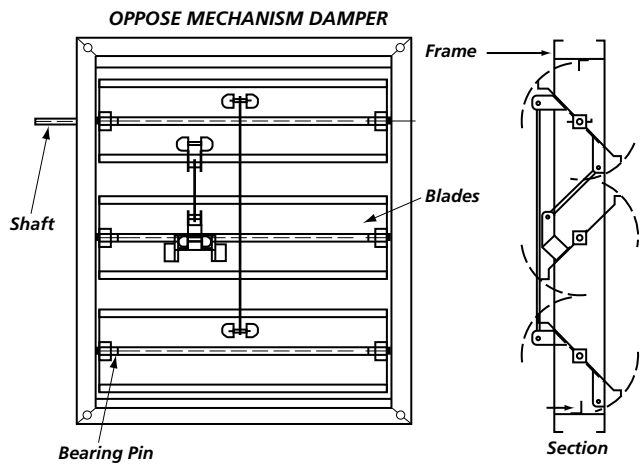
## Specification

<b>MATERIAL</b>	Galvanized Steel
	Black Steel
	Stainless Steel
<b>FRAME</b>	0.8-3.0 mm
<b>BLADE</b>	0.8-3.0 mm
	3V
<b>SHAFT</b>	Zinc Coated Steel
	Round Dia. 1/2 Inch, 12.6 mm
	Square 3/8 Inch, 9.7 mm
<b>BEARINGS</b>	Self-Lubricating Bronze
<b>LINKAGE</b>	In flow/ Side Mechanism
	Oppose/ Parallele

## Size Limitations

WIDTH X HEIGHT	SINGLE SECTION		MULTIPLE SECTION
	MIN	MAX	MAX
<b>MM</b>	100 x 100	1220 x 1825	7620 x 3048
<b>INCH</b>	4 x 4	36 x 72	300 x 120

\* Damper up to 300 mm height are single blade construction (If not otherwise specified)

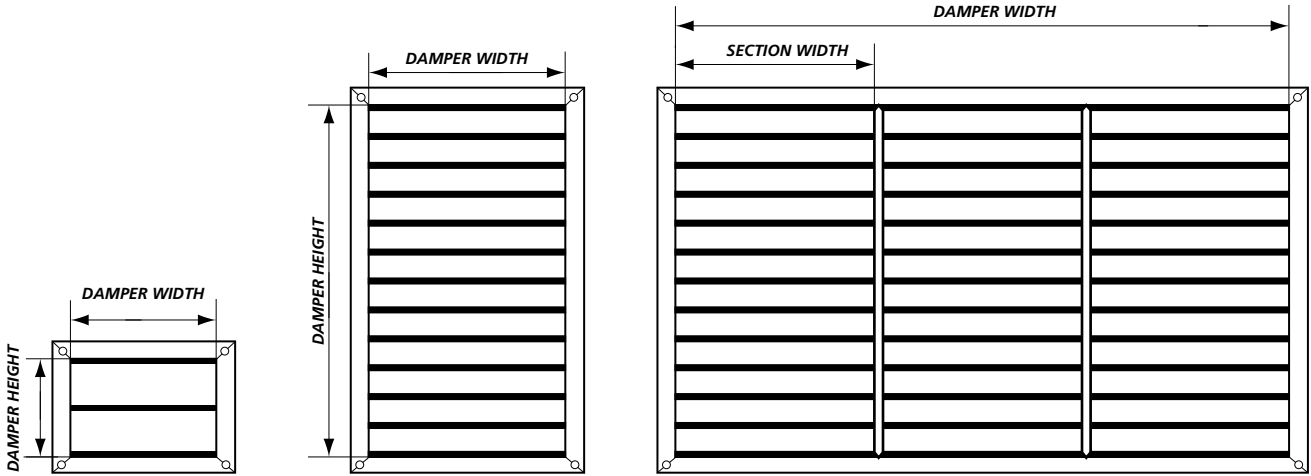


SHARQAWI certifies that the model DV shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Programs. The AMCA Certified Ratings Seal applies to Air Performance Ratings.



# SINGLE / MULTIPLE SECTION CONFIGURATIONS

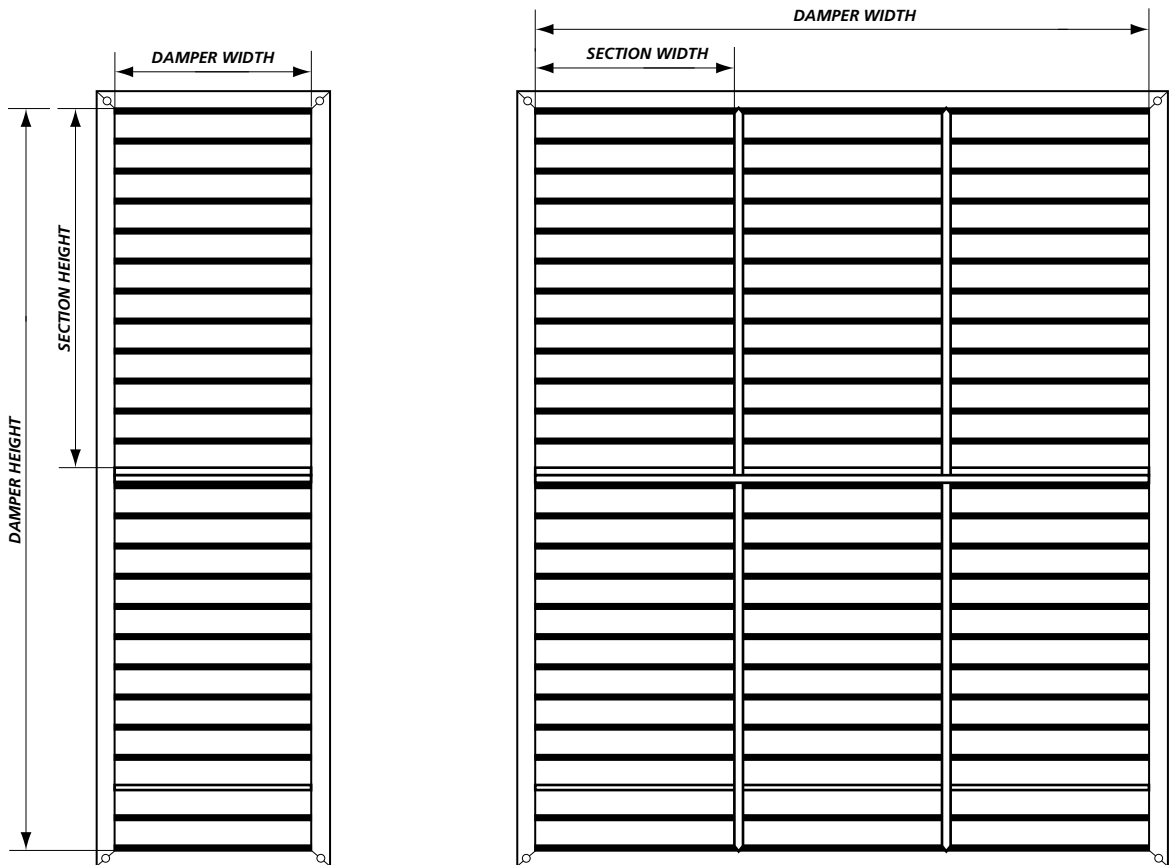
## Dimensions



**SINGLE SEC. & SINGLE BLADE**  
W ≤ 914 and H ≤ 300

**SINGLE SEC. & MULTIPLE BLADE**  
W ≤ 914 and H ≤ 1825

**(HEIGHT SINGLE SEC.) X (WIDTH MULTIPLE SEC.)**  
W > 914 and H ≤ 1825



**(HEIGHT MULTIPLE SEC.) X (WIDTH SINGLE SEC.)**  
W ≤ 914 and H ≤ 1825

**(HEIGHT MULTIPLE SEC.) X (WIDTH MULTIPLE SEC.)**  
W > 914 and H ≤ 1825

**Notes:**

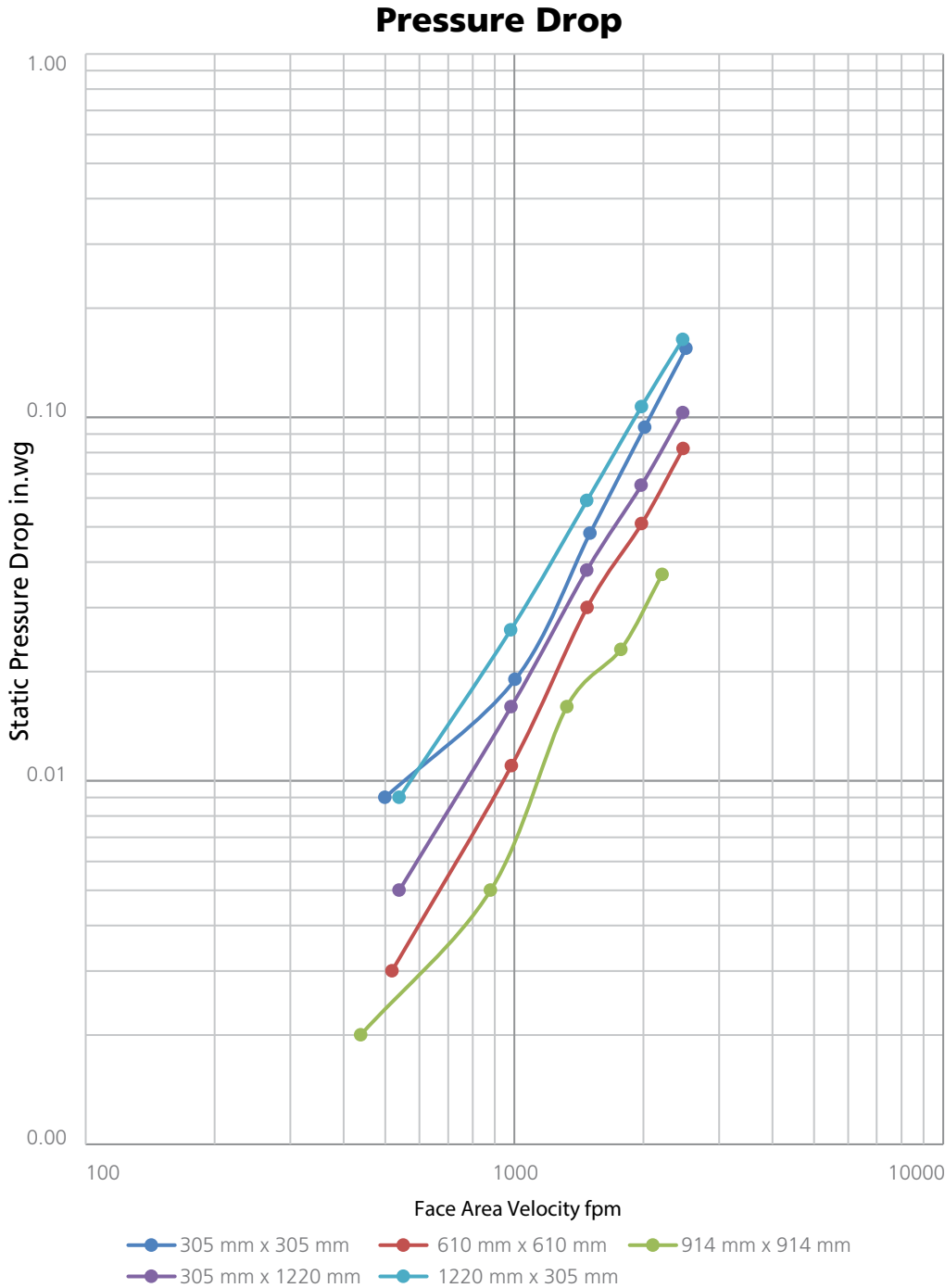
1. All dimensions in millimeter (mm)
2. Multiple section number in the figures for indication only, for calculating the actual number check the following example for damper (W 2200 X H 2000)
  - \*Number of section in width =  $2200/914 = 2.4$ , roundup to nearest integer = 3
  - \*Number of section in height =  $2000/1825 = 1.1$ , roundup to nearest integer = 2



# AIR PERFORMANCE

## Pressure Drop

DV Air Performance testing is performed in accordance with Test Method as per ANSI / AMCA Standard 500-D-12 (Pressure Drop), Figure 5.3 Duct Upstream and Downstream.



305 mm x 305 mm	
Velocity (fpm)	ΔP (in. wg)
2515	0.16
2013	0.09
1501	0.05
1004	0.02
499	0.01

610 mm x 610 mm	
Velocity (fpm)	ΔP (in. wg)
2474	0.08
1981	0.05
1478	0.03
984	0.01
518	0.00

914 mm x 914 mm	
Velocity (fpm)	ΔP (in. wg)
2211	0.04
1771	0.02
1325	0.02
880	0.01
438	0.00

305 mm x 1220 mm	
Velocity (fpm)	ΔP (in. wg)
2470	0.10
1977	0.07
1476	0.04
983	0.02
539	0.01

1220 mm x 305 mm	
Velocity (fpm)	ΔP (in. wg)
2470	0.16
1978	0.11
1476	0.06
980	0.03
539	0.01



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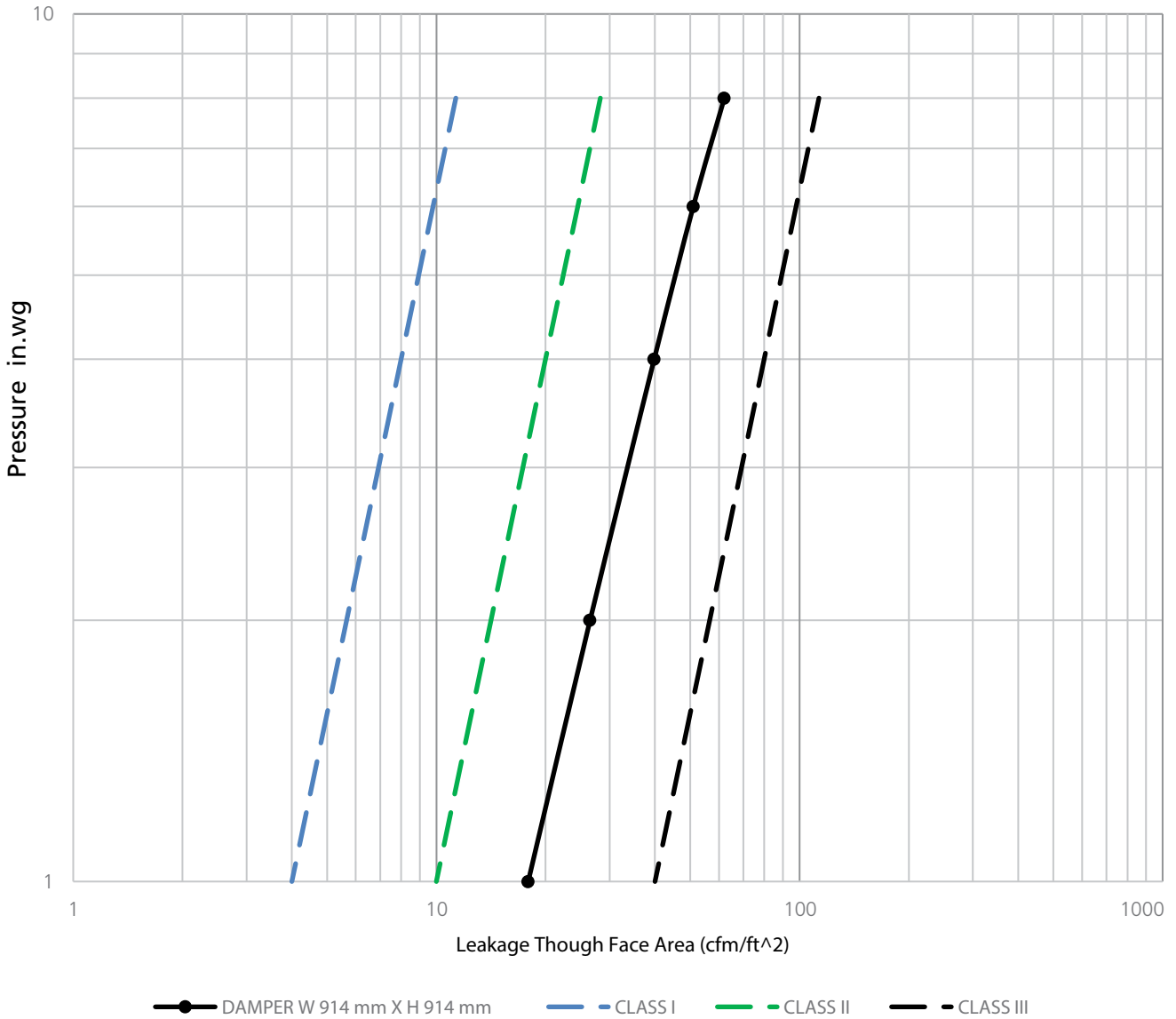


# AIR PERFORMANCE

## Air Leakage

DV Air Leakage testing is performed in accordance with Test Method per ANSI / AMCA Standard 500-D-07 (Leakage), Figure 5.5 Alternate, Applied Torque 5 in-lbs./ft<sup>2</sup> (6.0 N-m/m<sup>2</sup>)

**AIR LEAKAGE 914 mm x 914 mm**



\* This Damper Certified for Air Performance Only (Pressure Drop)



# ORDERING CODE

## VOLUME CONTROL DAMPER

DV - B S 1 G D 1 A 0 - 600 x 400 x 100

\* All selection checkboxes highlighted in blue are the default selections (If not otherwise specified)

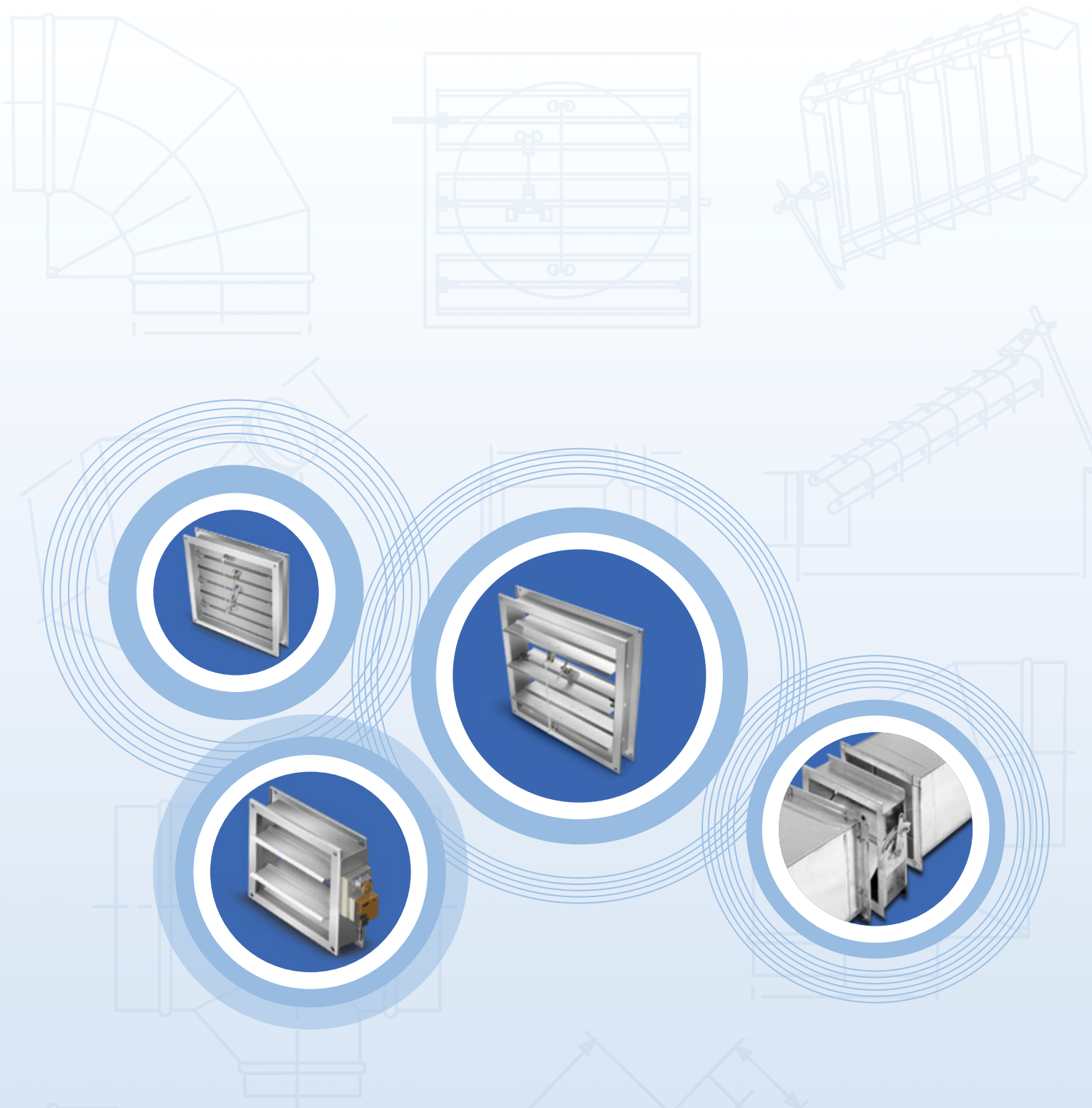
<b>MODEL</b>		1	2	3	4	5	6	7	8	9	10	11
<b>MODEL</b>		1										
<input checked="" type="checkbox"/> B	BALANCING RECTANGULAR	<input type="checkbox"/> S	SHUT OFF RECTANGULAR									
<b>WALL TYPE</b>		2										
<input checked="" type="checkbox"/> S	SINGLE WALL	<input type="checkbox"/> K	DOUBLE WALL 2" 24 AF									
<input type="checkbox"/> E	DOUBLE WALL 1" 24 AF	<input type="checkbox"/> L	DOUBLE WALL 2" 24 KM									
<input type="checkbox"/> F	DOUBLE WALL 1" 24 KM	<input type="checkbox"/> M	DOUBLE WALL 2" 48 AF									
<input type="checkbox"/> G	DOUBLE WALL 1" 48 AF	<input type="checkbox"/> N	DOUBLE WALL 2" 48 KM									
<input type="checkbox"/> H	DOUBLE WALL 1" 48 KM											
<b>MECHANISM</b>		3										
<input type="checkbox"/> 1	OPPOSE -EXPOSE	<input checked="" type="checkbox"/> 2	PARALLEL-EXPOSE									
<input type="checkbox"/> 3	OPPOSE -SIDE	<input type="checkbox"/> 4	PARALLEL-SIDE									
<b>MATERIAL</b>		4										
<input type="checkbox"/> G	G90	<input type="checkbox"/> V	S316L/4									
<input type="checkbox"/> H	G115	<input type="checkbox"/> W	S316L/2B									
<input type="checkbox"/> J	G90-JAPEN	<input type="checkbox"/> Z	G90-ZERO SPANNLE									
<input type="checkbox"/> S	S304	<input type="checkbox"/> B	BS37									
<input type="checkbox"/> U	S304/2B	<input type="checkbox"/> A	ALUMINUM									
<b>THICKNESS</b>		5										
<input type="checkbox"/> D	DEFAULT	<input type="checkbox"/> U	1.6 mm									
<input type="checkbox"/> W	2.0 mm	<input type="checkbox"/> X	2.4 mm									
<input type="checkbox"/> Z	3.0 mm											
<b>CONNECTION</b>		6										
<input type="checkbox"/> 1	FLANGE 35	<input type="checkbox"/> 2	FLANGE 50									
<input type="checkbox"/> 3	FLANGE 25	<input type="checkbox"/> 4	FLANGE 30									
<input type="checkbox"/> 5	FLANGE 40	<input type="checkbox"/> 6	FLANGE 45									
<input type="checkbox"/> 7	FLANGE 60	<input type="checkbox"/> 8	FLANGE 75									
<input type="checkbox"/> 9	SLIP & DRIVE											
<b>DRIVE TYPE</b>		7										
<input type="checkbox"/> A	MANUAL	<input type="checkbox"/> F	WITHOUT									
<input type="checkbox"/> B	MOTORIZED 230V BELIMO	<input type="checkbox"/> D	MOTORIZED 24V BELIMO									
<input type="checkbox"/> C	MOTORIZED 230V SIEMENS	<input type="checkbox"/> E	MOTORIZED 24V SIEMENS									
<b>FINISHING</b>		8										
<input type="checkbox"/> 0	NO PAINT NO PACKAGING	<input type="checkbox"/> 2	PACKAGING ONLY									
<input type="checkbox"/> 1	PAINT ONLY	<input type="checkbox"/> 3	PAINT & PACKAGING									

1) Default value, based on designer specs. Often blade 1.2 mm and frame 1.5 mm.  
 2) Selction any other thickness blade and frame will have same selected thickness.

### Code Description Example

#### DV-BS1G1A0-600x400x100

**VOLUME CONTROL DAMPER**, Rectangular Flanged Type, Balancing, Single Wall, Oppose-Expose Mechanism, Material Galvanized Steel (G90), Flange 35mm, Manual Drive, Without Packaging And Without Painting.  
 Damper Width = 600 mm  
 Damper Height = 400 mm  
 Damper Length = 100 mm



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