

# Volume Control Dampers

## Rectangular VCD - aerofoil blades



SU 651 Q



SU 651 M

### Advantages

- Manual or motorized control.
- Low pressure loss resulting from aerofoil blades.

### DESCRIPTION

- Single and multi-blade volume control dampers designed for quiet, efficient and reliable air volume control in ventilation systems.
- Ruggedly built damper, with a casing of robust assembly formed from channel frame for flanged connection to the ductwork.

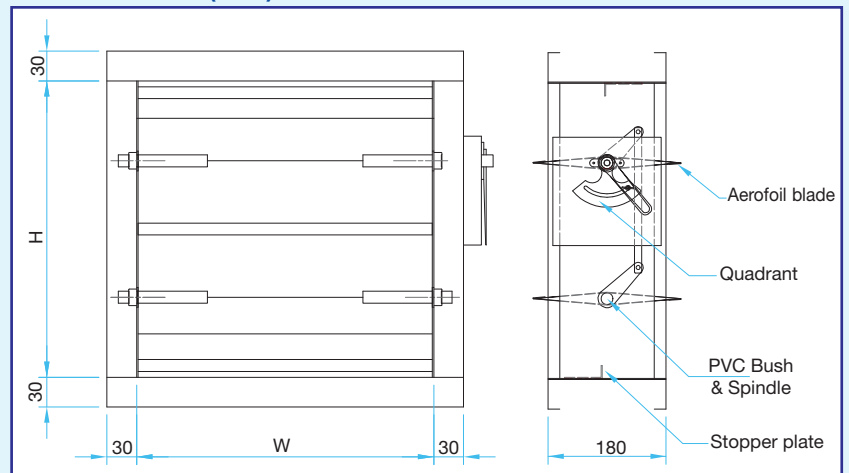
### CONSTRUCTION

- Casing manufactured from 20 ga. galvanized sheet as standard. Other gauges available on request.
- Aerofoil shaped blades manufactured from 24 ga. galvanized steel double skin construction. Opposed blade operation standard. Parallel blade operation available upon request.
- Stainless steel side seal, code J, available on request. Standard neoprene gasket, code N2. Silicon rubber gasket, code N3, available upon request.
- External linkages shall be concealed in a frame, and bolted or welded. Internal linkages available upon request.
- Blades connected to the casing by means of spindles which are mild steel hot dip galvanized. Size shall be 12 mm round or 10 mm square. Spindles bolted, riveted or welded as per specification.
- Standard brass bushes, code B1. PVC bush, code B2. Stainless steel bearing, code B3. Available upon request.
- Mode of operation: manual quadrant, code Q. Motorization, code M, available upon request.
- Minimum size: 100 x 100 mm. Single blade damper construction up to 250 mm height.
- Maximum size: 1000 x 800 mm as single section. Larger sizes can be manufactured in multiple sections for assembly on site.

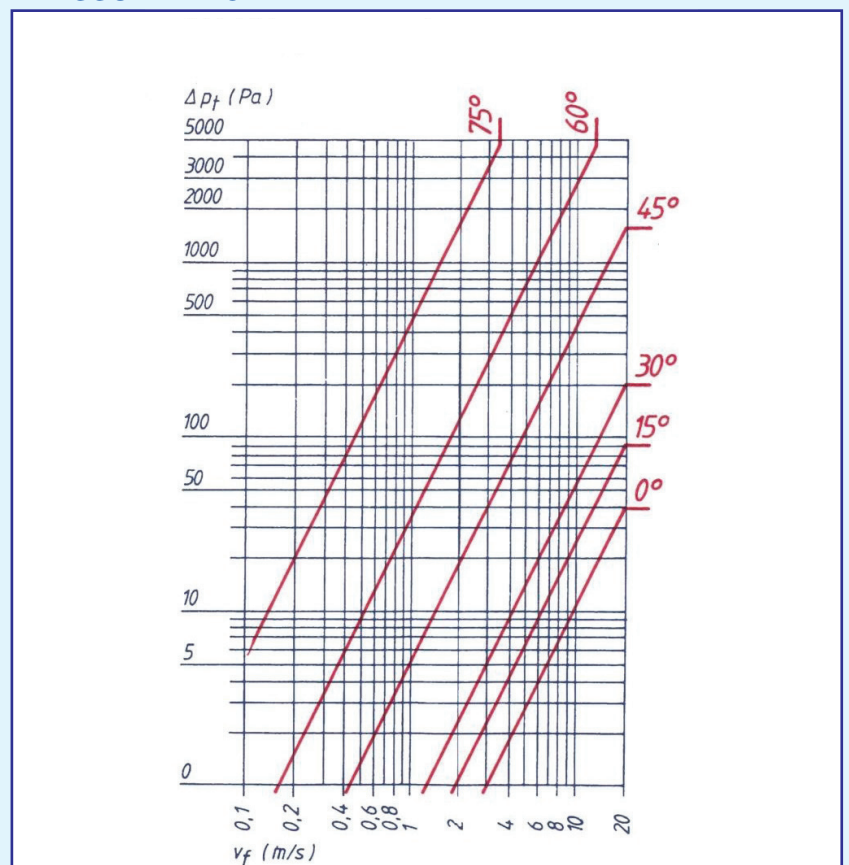
### RANGE

Type	Description	Code
SU 651	Aerofoil blade VCD with casing and blades manufactured from GI	
EU 651	Aerofoil blade VCD with casing, blades, spindles and linkages made from SS (grade 304)	
AU 651	Aerofoil blade type volume control damper with casing and blades manufactured from mill aluminum.	

### DIMENSIONS (mm)

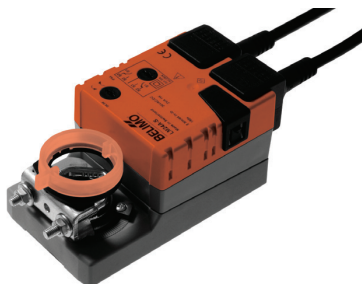


### PRESSURE DROP



# Volume Control Dampers

## Motorisation and accessories



### APPLICATION

- Motorisation and adjustment of SU650, SU651 and SR653 dampers.
- Choice of actuators depending on torque, modulated or total open / close functions, safety functions and data feedback.

### DESCRIPTION

- Actuators covering torque levels of 2 to 20 Nm.
- Open / close type or modulating type.
- Safety functions: re-arming spring.
- Data feedback: actuators with contacts.
- All the F type actuators have a reversible sprocket wheel in the event that the shaft is too short.
- Actuators type 24: 24 V AC / DC.
- Actuators type 230: 230 V AC.

### DETAILS

Damper type	Max. area (m <sup>2</sup> )	Type of actuators	Torque (Nm)	Circular shaft Ø (mm)	Square Shaft (mm)
<b>Non-spring return actuators</b>					
SU 650 M	up to 1 m <sup>2</sup>	LM 24 A-S & LM 230 A-S	5	6-20	6-20
		LM 24 A-SR & LM 230 A-SR			
SU 651 M	from 1 to 2 m <sup>2</sup>	NM 24 A-S & NM 230 A-S	10	8-20	8-20
SR 653 M		NM 24 A-SR & NM 230 A-SR			
	from 2 to 4 m <sup>2</sup>	SM 24 A-S & SM 230 A-S	20	10-20	10-20
		SM 24 A-SR & SM 230 A-SR			
<b>Spring return actuators</b>					
SU 650 M	up to 0.4 m <sup>2</sup>	TF 24-S & TF 230-S	2	6-12	6-12
		TF 24-SR & TF 230-SR			
SU 651 M	from 0.4 to 0.8 m <sup>2</sup>	LF 24-S & LF 230-S	4	8-16	8-16
SR 653 M		LF 24-SR & LF 230-SR			
	from 0.8 to 3 m <sup>2</sup>	AF 24-S & AF 230-S	15	10-20	10-16
		AF 24-SR & AF 230-SR			

### ACCESSORIES

Description	Code
<b>Contacts (for LM, NM and SM models only)</b>	
S1 A	
S2 A	

### NON-SPRING RETURN ACTUATORS

Description	Code
<b>Open / close type</b>	
LM 230 A - S	
LM 24 A - S	
NM 230 A - S	
NM 24 A - S	
SM 230 A - S	
SM 24 A - S	
<b>Modulating type</b>	
LM 230A - SR	
LM 24A - SR	
NM 230A - SR	
NM 24A - SR	
SM 230A - SR	
SM 24A - SR	

### SPRING RETURN ACTUATORS

Description	Code
<b>Open / close type</b>	
TF 230 - S	
TF 24 - S	
LF 230 - S	
LF 24 - S	
AF 230 - S	
AF 24 - S	
<b>Modulating type</b>	
TF 230 - SR	
TF 24 - SR	
LF 230 - SR	
LF 24 SR	
AF 230 - SR	
AF 24 SR	