



## Control and shut-off damper J

### Description

The J multi-leaf damper is a control and shut-off damper intended for use in ventilation systems. The damper has good regulation properties and satisfies the Swedish standard for air tightness, VVS AMA 98, section QJB.41. The damper is available in four classifications, depending on the air tightness requirements.

### Design

The J multi-leaf damper comprises a number of opposed blades, swivelling on nylon bearings in a sheet metal framework. The blades are connected via a system of linkages on the outside of the frame, which is protected for insulation. On dampers with a height exceeding 600 mm, two of the blades have extended axles for connection of a regulating device. The damper is available with either guide or flange connections. The guide edges fit most of the connection systems on the market. Both the blades and the frame are made of hot-dip galvanised sheet steel, but are also available in aluzinc, aluminium or stainless steel. The sealing gaskets on the long sides of the blades are patented. The standard height of the blades is 200 mm, but in the 300 mm high damper the blade height is 150 mm. Dampers with different height blades thus have different free areas, relative to their connection areas.

### Air tightness classifications

Class 1 dampers are used during initial adjustment. Dampers of classes 2 and 3 are used for closing, and class 4 dampers in special installations requiring very high air tightness. Refer to the air tightness classification diagram.

### Sizes

The J multi-leaf damper is manufactured in a large number of standard dimensions. Non-standard dampers are made to order, as are dampers with different installation depths.

### Temperature

The maximum air temperature for the standard damper is 100°C. Dampers for higher temperatures can also be supplied, and these are equipped with metal bushes.

### Note

These dampers are intended for installation with the blades horizontal. If the damper is to be installed with the blades vertical, this must be stated in the order. All dampers are equipped with a position indicator showing the amount the blades are open.

### Maintenance

We recommend preventive maintenance of the damper twice per year for optimum performance. If the damper gets dirty, the blades should be cleaned. The gasket sealing should be checked and the blade axles lubricated as necessary.

### Damper selection

Select a suitable damper motor in accordance with diagram.

### Accessories

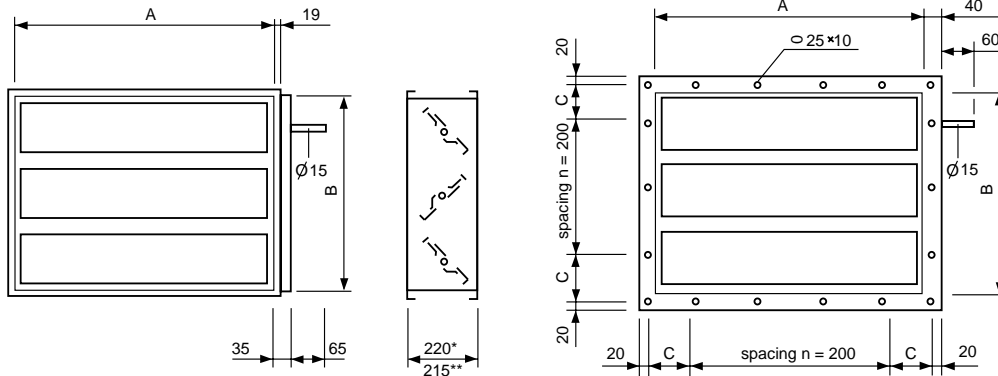
Damper arm	Counter flange
Manual control	Wall frame
Bar control	Damper motor

# Dampers



## Technical data -J

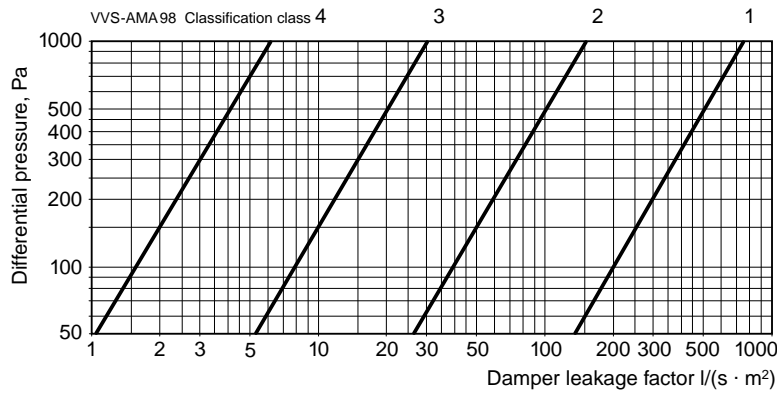
### Dimensions



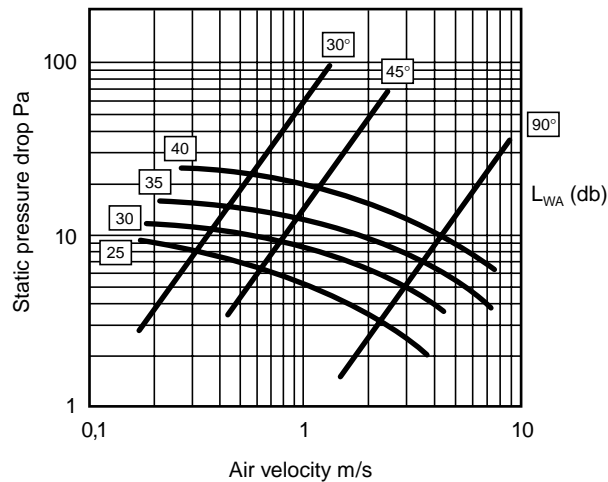
\*) Applies to guide class  
 \*\*) Applies to flange class

C = 120 for even 100s  
 C = 170 for odd 100s

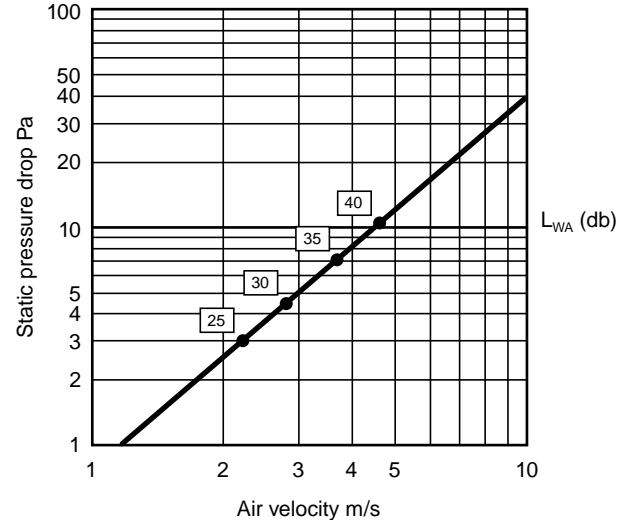
### Air tightness classification



### Pressure drop and sound power level for classification class 1



### Pressure drop and sound power level for classification classes 2 and 3



# Dampers



## Classification class 1

Correction of sound power level  $L_{WACORR}$  for different sizes.  $L_{WACORR} = L_{WA} + K_1$

Damper area	0.04	0.09	0.2	0.6	1.2	2.0	3.0	4.0
$K_1$	-3	0	+3	+8	+11	+13	+15	+16

Correction of sound power level  $LW_{AOC}$  in octave bands.  $LW_{AOC} = L_{WACORR} + K_{OC}$

Octave-band Opening angle	125	250	500	1K	2K	4K	8K
$K_{OK} 90^\circ$	+1	-2	0	-7	-14	-20	-24
$K_{OK} 45^\circ$	+1	-2	-1	-6	-13	-21	-24
$K_{OK} 30^\circ$	+1	0	-1	-7	-13	-20	-23

Sound power level measured in accordance with ISO 3741 and ISO 5135 by Sveriges Provnings- och Forskningsinstitut (the Swedish National Testing and Research Institute).

## Classification classes 2 and 3

Correction of sound power level  $L_{WACORR}$  for different sizes.  $L_{WACORR} = L_{WA} + K_1$

Damper area	0.04	0.09	0.2	0.6	1.2	2.0	3.0	4.0
$K_1$	-3	0	+3	+8	+11	+13	+15	+16

Correction of sound power level  $L_{WAO}$  in octave bands.  $L_{WAO} = L_{WACORR} + K_{OC}$

Octave-band Opening angle	125	250	500	1K	2K	4K	8K
$K_{OC} 90^\circ$	+1	-2	0	-7	-14	-20	-24

Sound power level measured in accordance with ISO 3741 and ISO 5135 by Sveriges Provnings- och Forskningsinstitut (the Swedish National Testing and Research Institute).

# Dampers



## How to order the -J

Designation: Multi-leaf damper J-A-B-C-DE

A	B	C	D	E
SIZE	AIR TIGHTNESS CLASSIFICATION	MATERIAL	CONNECTION	ACCESSORIES
(Width x Height)	1 = Class 1	5 = Galvanised	10 = Flange	12 = Damper arm
	2 = Class 2	6 = Aluzinc	11 = Guide	13 = For motor control
	3 = Class 3	7 = Aluminium		14 = Manual control
	4 = Class 4	8 = Stainless steel 2333		15 = Bar control
		9 = Stainless steel 2343		16 = Counterflange
				17 = Wall frame
				18 = Damper motor

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Example: 1 Multi-leaf damper J-400x200-2-5-11-13