Multi-leaf damper

AEROTECHNIK SIEGWART

- **Multi-leaf dampers, models ″Standard type S″ and ″Airtight L″**
- **All intermediate sizes available**
- **Universal installation**
- **Minimum flow resistance and noise**
- **Maintenance-free**
- **High strength corrosion-resistant parts**
- **Two blade widths ″100 mm or 165 mm″**
- **Coupling and drive mechanisms suitable for all needs**

Ref. no.: 250 - 257

Issue 5

Multi-leaf damper, blade coupling system with external linkage

Multi-leaf damper, blade coupling system with aluminium gears

AS

Advantages and design features of the dampers:

Models: The range includes the standard model ″JS″ and the model ″JL″, which is airtight according to DIN 1946 part 4 and DIN EN 1751 class 4, in addition to class 2 (test certificates for all EN 1751 classes available).

Dimensions: See width (a) and height (b) in tables below; intermediate sizes are available and are charged at the price of the next largest dimension.

Frame: Of galvanized sheet steel, or stainless steel AISI: 316, with three flange profiles, guaranteeing universal installation. Any flange profile can be manufactured on request. If no flange profile is indicated, C 38 will be manufactured automatically.

Blades: Of galvanized sheet steel, or stainless steel AISI: 316, torsion-proof aerofoil profiles widths of 100 mm or 165 mm, model JL with sealing lips, working in opposite orientations with particularly favourable drive and flow conditions.

Bearings: Made out of polyamide, both models maintenance-free and airtight. Teflon and brass bearings are available for elevated temperatures, ball bearings for elevated pressure on request.

Blade coupling systems:

External linkage or with aluminium gears.

Adjustment options:

Adjustable manually or by motor to provide optimal solutions for every use.

Axle extension: An axle extension, consisting of a bushing, an extension axle and grooved pins, must allow aligned mounting of the servomotor. In addition, we always recommend the use of an intermediate bearing when employing axle extensions, in order to avoid distortion of the drive axle. Please consult us when installing multi-leaf dampers under thermal stress, since the use of a universal coupling may be required in this case.

Accessories: Fastening devices for mounting all commercially available actuators are supplied as standard.

Combination: Standard combination with the weather resistant louvre, ref. nos. 260 and 261, is also available.
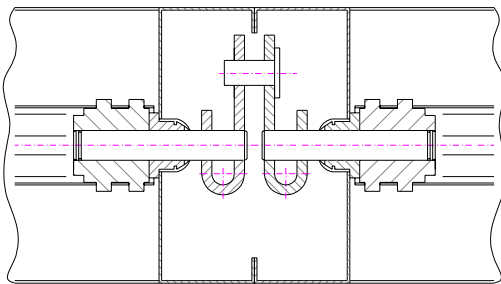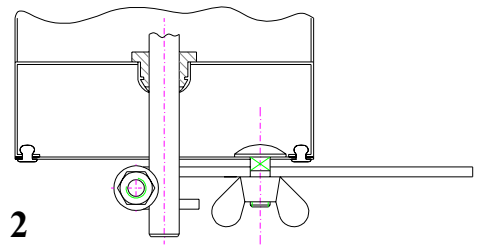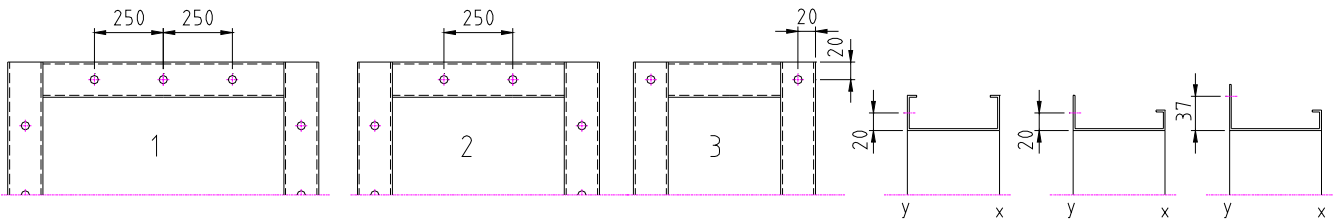
Fig. 1
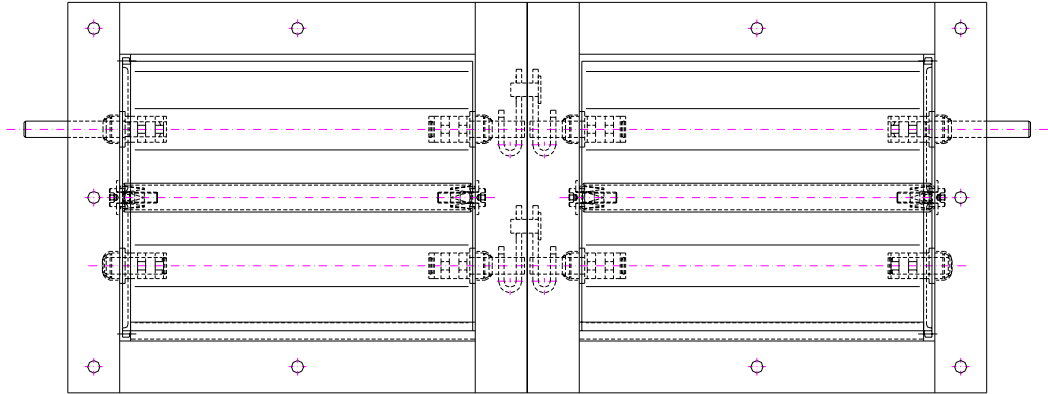
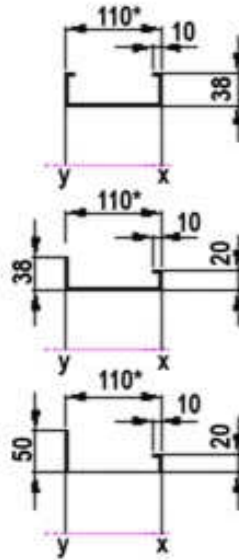**Fig. 1, detailed**

Fig. 2

Flange drillings - Profiles

Special versions		Min. installation depth	
Version of multi-blade duct damper		**Blade 100**	**Blade 165**
Galvanized sheet steel, linkage in the opposite direction		140	175
Galvanized sheet steel, linkage in the same direction		140	175
Material 1.4301 (with external linkage)		140	175
Material 1.4571 (with external linkage)		140	175
Material aluminium with internal gear │ external linkage	110	140	175

Flange profile

110* | 10
38

C 38

110* | 10
38 | 20

U 38 / C 20

110* | 10
50 | 20

U 50 / C 20

*140 mm with linkage (opposite and same direction)
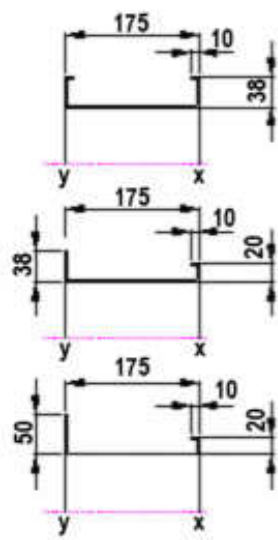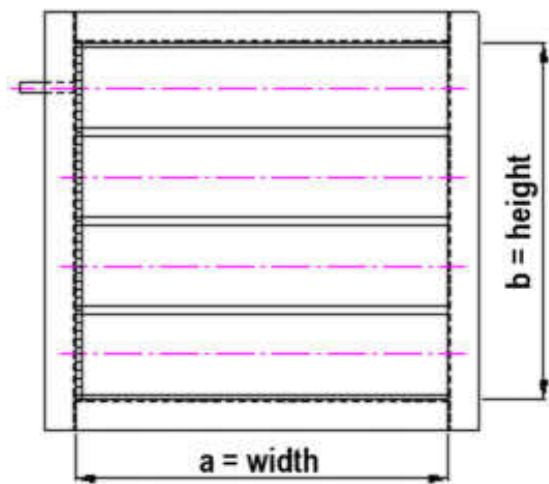
b = height

a = width

Specification text

Multi-leaf damper manufactured by AEROTECHNIK SIEGWART, version JL. Airtight according to DIN 1946 part 4 and DIN EN 1751 class 4, frame of galvanized sheet steel 1.25mm, blades 165 mm wide, in torsion-proof aerofoil profile galvanized steel 0.9mm with sealing lip, bearing maintenance-free and airtight, blade coupling system with external linkage on one side (or aluminium gears and sealing rings on one side, blade end opposite gear with sealing).

Dimensions: Width (a) =   mm

                  Height (b) =   mm

Accessories:

Multi-leaf dampers
Airtight • Blade width T = 165 mm

AEROTECHNIK SIEGWART

Flange profile

| 175 | 10 | 38 | **C 38** |

| 175 | 10 | 38 / 20 | **U 38 / C 20** |

| 175 | 10 | 50 / 20 | **U 50 / C 20** |

Specification text

Multi-leaf damper manufactured by AEROTECHNIK SIEGWART, version JL. Airtight according to DIN 1946 part 4 and DIN EN 1751 class 4, frame of stainless steel 1.25mm, blades 165 mm wide, in torsion-proof aerofoil profile stainless steel 0.9mm with sealing lip, bearing maintenance-free and airtight, blade coupling system with external linkage on one side (or aluminium gears and sealing rings on one side, blade end opposite gear with sealing).

Dimensions: Width (a) =   mm

Height (b) =   mm

Accessories: