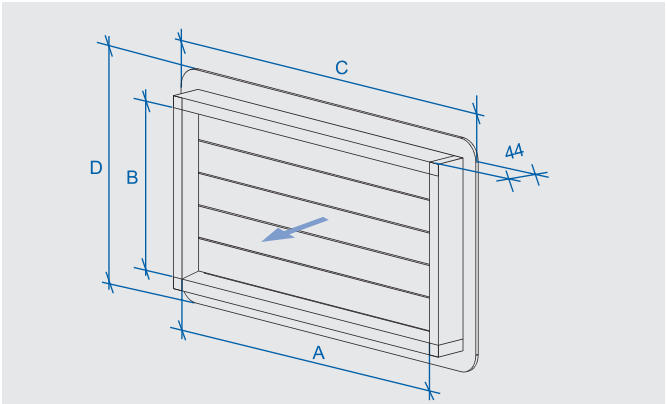
PK Pressure Dampers



	A (mm)	B (mm)	C (mm)	D (mm)	m ±10% (kg)
PK 30-15	300	150	376	226	0,5
PK 40-20	400	200	476	276	1
PK 50-25	500	250	576	326	1
PK 50-30	500	300	576	376	1
PK 60-30	600	300	676	376	1
PK 60-35	600	350	676	426	1
PK 70-40	700	400	776	476	2
PK 80-50	800	500	876	576	2
PK 90-50	900	500	976	576	2

Application

PK pressure damper (louver) is an end element used to automatically close the square outlet of an air-handling unit. If the fans stop, the damper will automatically close the outlet and prevent air backdraught to the duct, respectively penetration of water, dust, insects, etc.

Operating Conditions and Position

The PK pressure damper is intended to be situated vertically on the air exhaust. Transported air must be free of solid, fibrous, sticky, or aggressive impurities. PK pressure damper is designed for outdoor use. The range of operating temperatures can be from -30 °C to +60 °C. Maximum air flow speed can be 6 m/s. Correlation of pressure loss related to the air flow rate is included in the graph "PK pressure loss".

Dimensional and Type Range

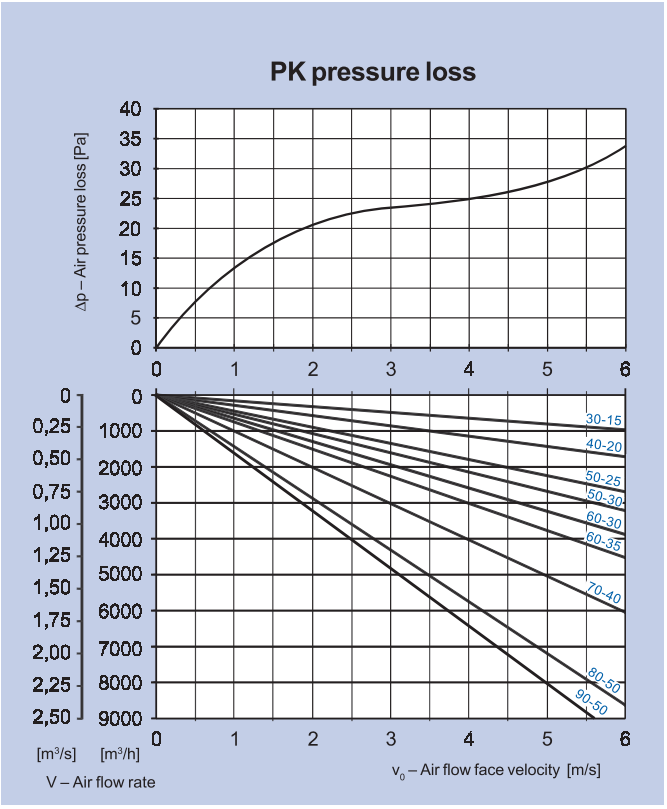
The dampers are manufactured in ten Vento dimensional ranges, from 30-15 to 100-50. Larger sizes are equipped with a vertical brace to enhance the damper's rigidity and endurance.

Materials

The pressure damper is made of plastics resistant to UV radiation and weather effects; grey RAL 7040 colour.
The damper's frame is glued from plastic profiles with a closed air gap. Extremely light and aerodynamic plastic vanes are hinged on plastic pivots, which are inserted into the external frame. The lowest vane covers the inner frame jut, and thus creates a weather moulding.

Installation

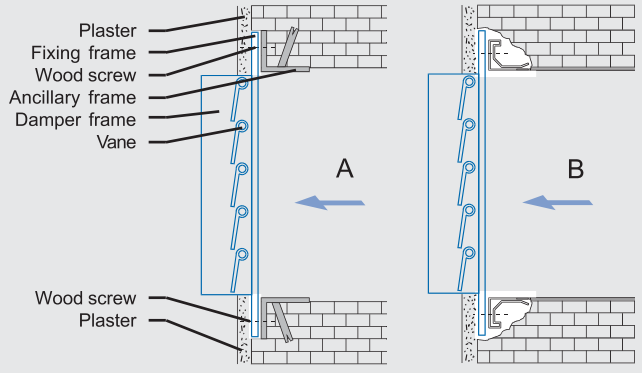
The pressure dampers can work in any position. The standard version of the PK pressure damper must be installed with the longer side in the horizontal position while the blades are closed automatically (by gravity). The acceptable air flow direction is indicated in the figure. The pressure damper can be fixed with wood or self-tapping screws to an ancillary wooden or steel frame, respectively to the flange of the air-handling unit. If used on a façade, it must be embedded 2 cm into the façade to cover its fixing frame.



Example of designation

PK 60 - 30

- 30 – Flange connection B dimension (cm)
- 60 – Flange connection A dimension (cm)
- PK – Pressure damper type designation



A - Installation on ancillary frame
B - Installation on flange of air-handling duct

PK pressure damper without a brace up to size 50-30, incl.

PK pressure damper with a brace, sizes from 60-30 to 90-50