

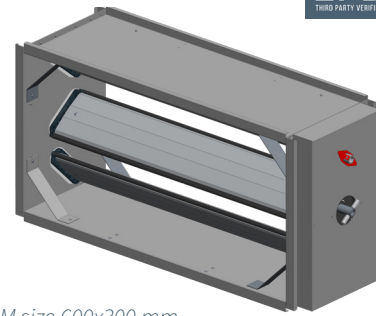
JSPM RECTANGULAR DAMPER



INTRODUCTION

JSPM is a rectangular damper with opposing blades with the motor shelf adapted for Lindinvent's damper motor. JSPM is included in the rectangular design of control unit DCV-SPb. JSPM is, including measuring flange SMRD, also a part of control units DCV-RCb, DCV-LCb, DCV-BLb, DCV-CFb, and DCV-FLb.

The damper is used for duct pressure control but it is also used in combination with measuring flange SMRD to control airflow.



JSPM size 600x300 mm.

ORDER INFORMATION

Rectangular damper, Lindinvent AB, JSPM-[WxH] with [W x H] in combinations from Table 1.

Width (W): from 200 to 1600 mm

Height (H): from 200 to 1000 mm

Length (L): Not relevant here (always 220 mm)

Example: JSPM-600x300

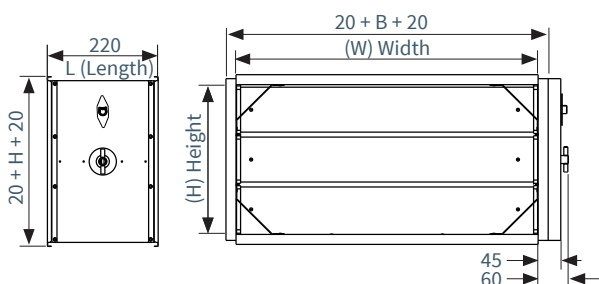
JSPM is available with a circular connection Ø630 or Ø800. Designations: JSPM-700x700/630 and JSPM-800x800/800.

Sizes: Width(W) x Height(H) in mm

| W/H | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 1000 |
|------|-----|-----|-----|-----|-----|-----|-----|------|
| 200 | | | | | | | | |
| 300 | | | | | | | | |
| 400 | | | | | | | | |
| 500 | | | | | | | | |
| 600 | | | | | | | | |
| 700 | | | | | | | | |
| 800 | | | | | | | | |
| 1000 | | | | | | | | |
| 1200 | | | | | | | | |
| 1400 | | | | | | | | |
| 1600 | | | | | | | | |

Table 1: Standard dimensions for W and H, available to order. The length (L) is always 220 mm. Units within the marked area are available in MagiCAD.

DIMENSION (MM)



TECHNICAL SPECIFICATIONS

General

Material

The damper casing is in galvanized sheet steel (C3) with aluminum damper blades (C4). The housing can also be ordered in stainless acid-proof steel plate (C5) or an epoxy-lacquered version (C5). The damper blades are equipped with end gaskets of EPDM rubber with a coating of nylon and longitudinal seals of silicone rubber.

Tightness class 2 according to VVS AMA.

Pressure class A according to VVS AMA.

Weight: According to size, see diagram 1 below

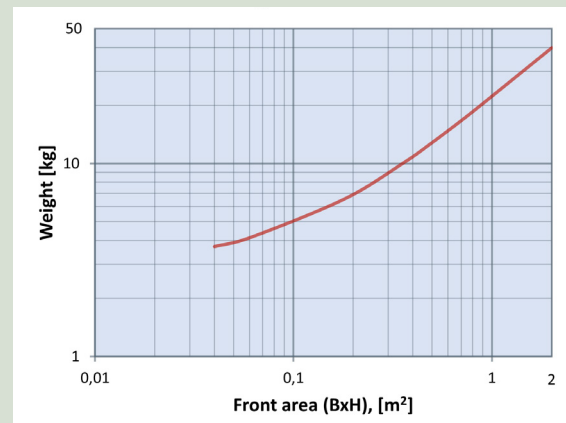
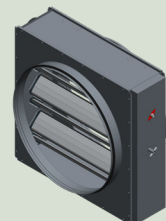


Diagram 1: Weight JSPM

JSPM WITH CIRCULAR CONNECTION

JSPM is available to order with a circular connection Ø630 or Ø800. Designations: JSPM-700x700/630 and JSPM-800x800/800.



JSPM 700x700/630 mm.

SOUND DATA JSPM

Noise generation

$$L_w = L_{pA} + K_0 + K_k$$

L_w = Sound power level in dB

L_{pA} = Total A-weighted sound power level dB (A), cross-section area at 1 m², see diagram 2.

K_0 = Correction factor for current frequency band is read from table 2 for the current damper angle.

K_k = Correction factor for the actual cross section area is read from diagram 3.

| Damper angle | Octave band (Hz) | | | | | | | |
|--------------|------------------|-----|-----|-----|-----|-----|-----|-----|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 30 - 40° | -4 | -6 | -8 | -8 | -9 | -12 | -16 | -19 |
| 50 - 60° | -5 | -5 | -8 | -10 | -10 | -10 | -13 | -15 |
| 70 - 80° | -6 | -4 | -5 | -7 | -9 | -9 | -10 | -12 |

Table 2: Korrektionsfaktor K_0 [JSPM]

| Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|------|----|-----|-----|-----|----|----|----|----|
| ± dB | 6 | 4 | 3 | 3 | 3 | 3 | 3 | 3 |

Table 3: Toleranse sound power level L_w [JSPM]



Environmental Product Declaration, EPD, is something many companies are becoming familiar with as they are increasingly required. The application of EPDs has existed for a long time as an EU directive with the aim of tightening the requirements regarding the declaration of various products' environmental impact. You can find our EPDs on EPD Hub, which is one of the international systems for third-party verified EPDs www.epdhub.com

Diagram 2: Noise generation JSPM (cross section at 1 m²)

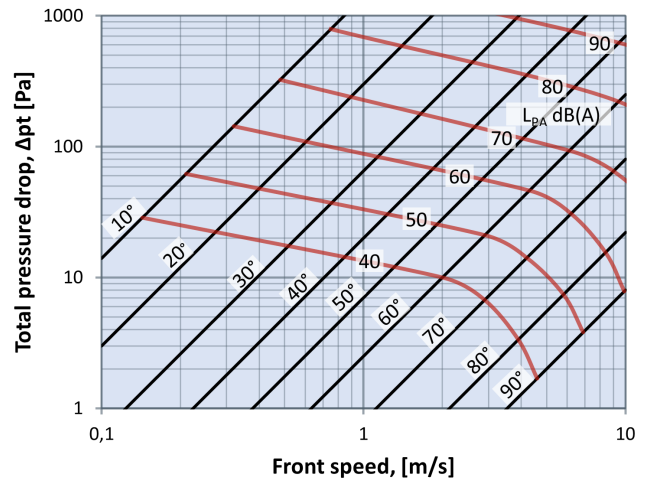
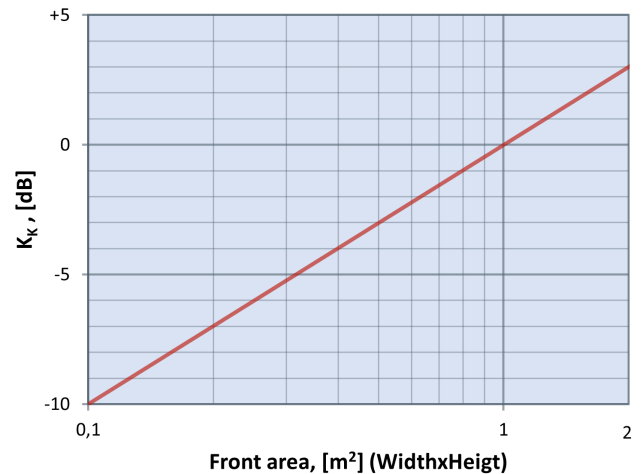


Diagram 3: Correction factor (Actual cross section area) [K_k]



ADDITIONAL PRODUCT DOCUMENTATION

Documents available at www.lindinvent.se

| Document | Comments |
|-----------------------------|--|
| Installation instruction | See the instruction for DCV-SPb is used as reference for JSPM. |
| Start-up instruction | Not applicable. |
| Maintenance instruction | Maintenance-free. |
| External connection diagram | Not applicable. |
| Product declaration | Assessed by Byggvarubedömningen and Sundahus. |
| Modbus | Not applicable. |
| AMA-text | Available for download at the product homepage. |