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
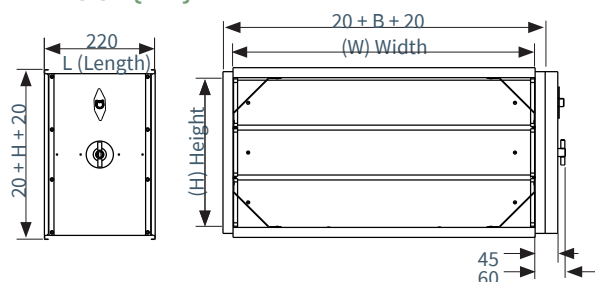Length (L): Not relevant here (always 220 mm)
Example: JSPM-600x300

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.
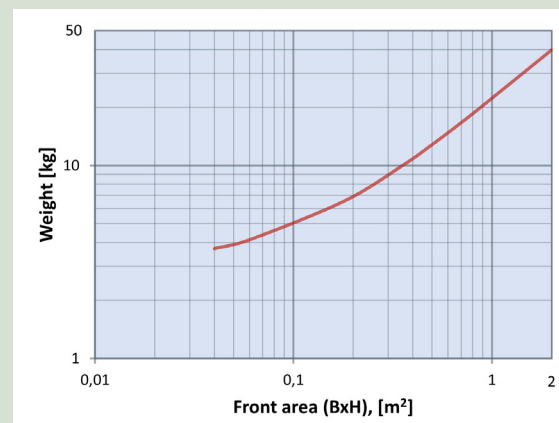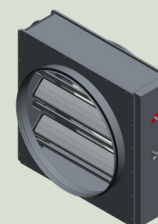Weight: According to size, see diagram 1 below

Diagram 1: Weight JSPM

JSPM WITH CIRKULAR 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: Correktionsfaktor 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]

EPD THIRD PARTY VERIFIED

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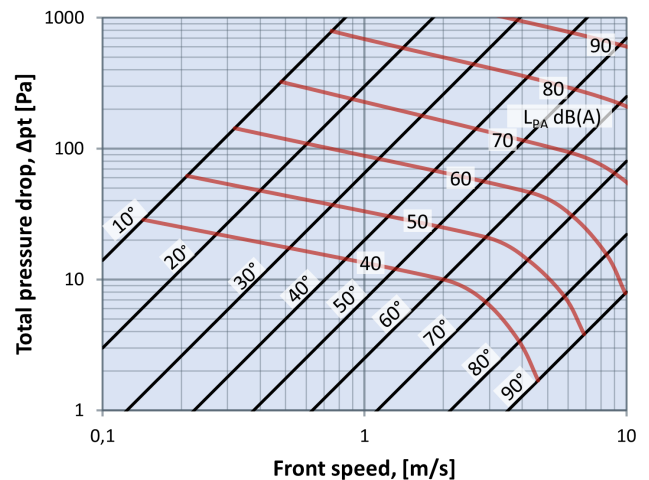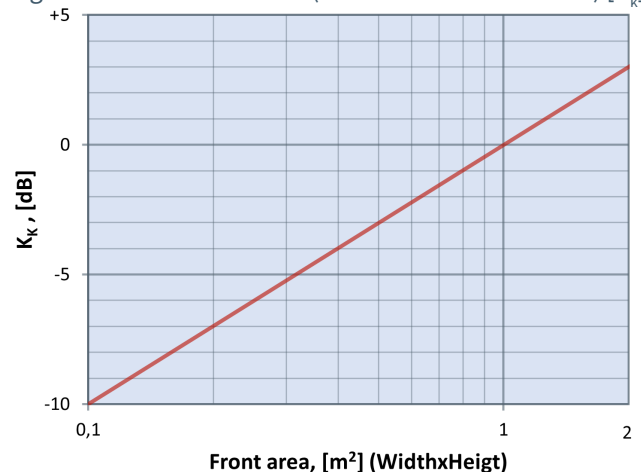
Diagram 2: Noise generation JSPM (cross section at 1 m²)

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

ADDITIONAL PRODUCT DOCUMENTATION

Documents available at www.lindinvent.com

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 in Sweden.
Modbus	Not applicable.
AMA-text	Available for download at the product homepage.