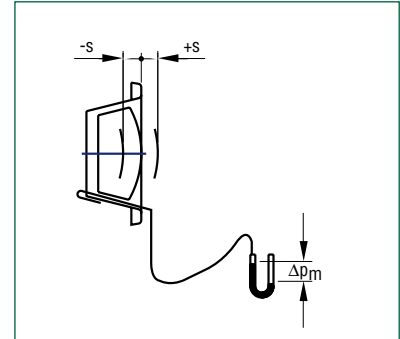


FSAV-F Fire damper



FSAV-F is developed for use as a fire damper in exhaust ventilation systems. FSAV-F has a low sound level and good natural sound attenuation.

Quick-selection

Valve Size	Air flow l/s (m ³ /h) at sound level		
	25 dB	30 dB	35 dB
100	28	34 (122)	40
125	43	50 (180)	59
160	61	73 (263)	80
200	69	82 (295)	99

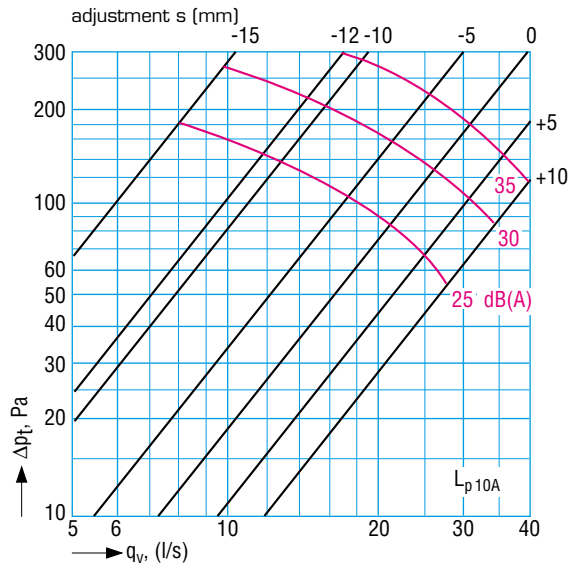
Product facts

FSAV-F Fire damper

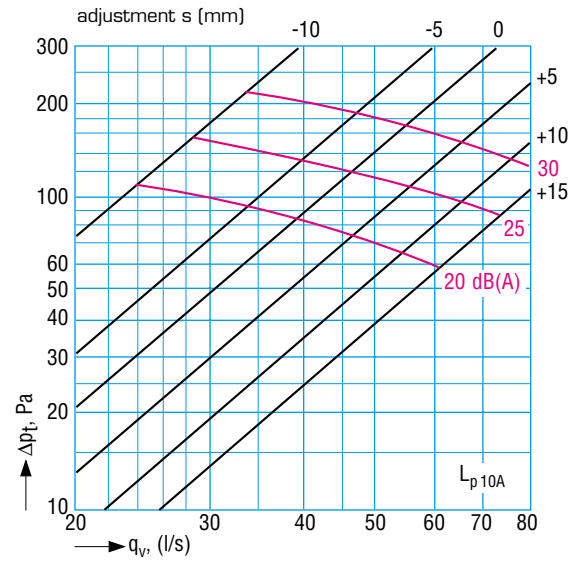
- Manufactured of sheet steel
- Vertical and horizontal ducting
- Access hole not needed
- Springloaded fuse can be changed

Air flow, pressure drop, sound level

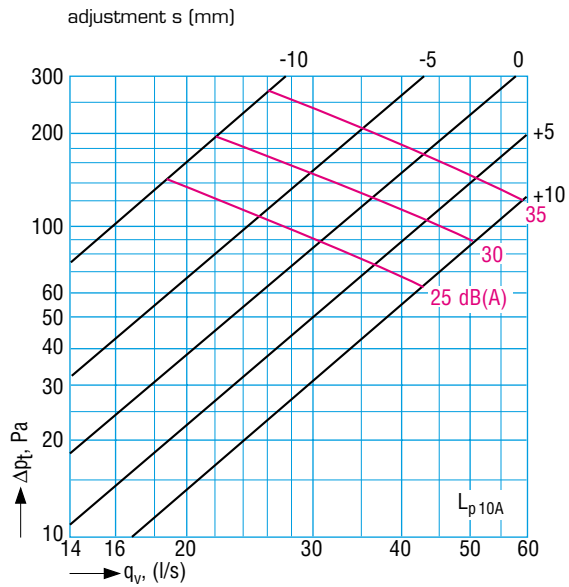
100



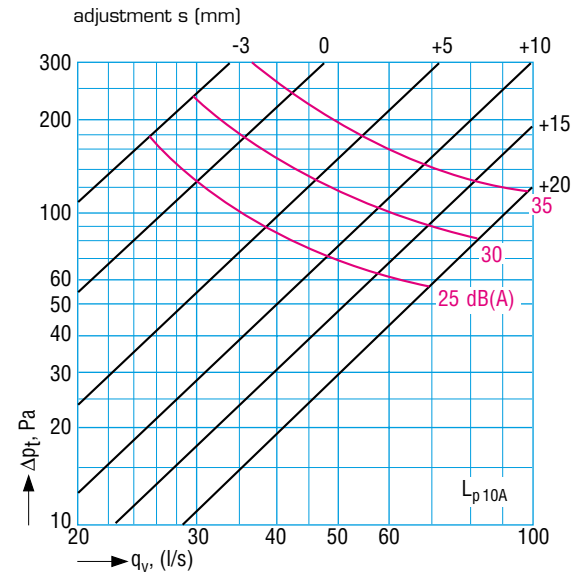
160



125



200



Acoustical data, dimensions and weights, installation

Sound power level L_w

Size	Correction of sound level K_{oct} in dB at						
	125	250	500	1000	2000	4000	8000 Hz
100	2	-1	-1	1	-4	-8	-22
125	-3	-3	-3	-2	0	-7	-24
160	0	-3	-1	2	-7	-11	-25
200	1	-3	-4	3	-8	-12	-29
Tolerance	±3	±2	±2	±2	±2	±2	±3

Sound power levels by octave bands are obtained by adding to total sound pressure level L_{p10A} , dB(A) the corrections K_{oct} presented in the table according to the following formula:

$$L_{Woct} = L_{p10A} + K_{oct}$$

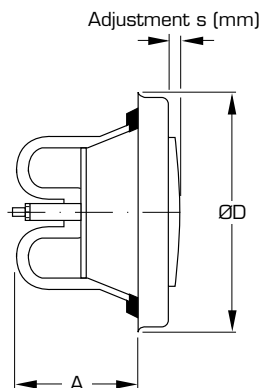
Correction K_{oct} is average value in frequency range (Hz).

Sound attenuation ΔL

Size	Adjustment (mm)	Sound attenuation in dB at							
		63	125	250	500	1000	2000	4000	8000 Hz
100	-10	22	19	16	16	16	18	9	9
	0	22	18	13	12	12	13	6	7
	+10	22	17	12	9	8	11	4	6
125	-10	21	18	15	14	15	14	10	7
	0	19	17	12	11	11	10	6	5
	+10	20	16	10	9	9	8	5	5
160	-10	19	16	14	14	14	16	8	8
	0	18	14	11	11	11	13	5	7
	+10	18	14	10	9	9	11	4	6
200	-10	15	15	14	14	16	15	10	9
	0	14	12	11	10	12	12	7	7
	+10	13	11	8	8	9	10	6	6
Tolerance		±6	±3	±2	±2	±2	±2	±2	±3

The average sound attenuation ΔL from duct to room including the end reflection of the connecting duct in ceiling installation, is obtained in the table above.

Dimensions and weights



	Ø D	A	Weight, g
100	134	74	305
125	160	85	390
160	191	89	575
200	241	107	765

Definitions

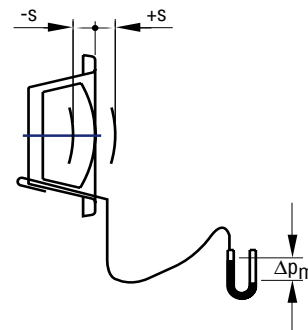
qv	air volume	(l/s), (m ³ /h)
Δp_t	total pressure drop	(Pa)
L_{p10A}	sound pressure level with 4 dB room attenuation (10 m ² sab)	[dB(A)]
L_{Woct}	sound power level by octave bands	(dB)
ΔL	sound attenuation	(dB)
K_{oct}	correction	(dB)

Installation

Valve is supplied complete with spring loaded fuse and fixed by a "screwing action" to locate the valve lugs into indents in the mounting ring.

Regulation and measurement of air flow

Measurement of air flow is achieved by measuring the pressure difference with a separate test probe. Regulation of air flow is achieved by turning the control disc to change adjustment dimension s (mm). Measuring data sheets are supplied in the folder "Measurement and regulation of air flow".



Instructions

Directions for installation, adjustment and care are set out in detail in our technical instruction which accompanies each product.



Application, material, product code

Application

FSAV-F is an exhaust valve, used to prevent spreading of fire and smoke to duct systems. The valve is approved in fire class E 60.

FSAV-F emits a low sound level and has good natural sound attenuation.

A springloaded fuse will close the valve when temperature in the immediate vicinity reaches the fusible link rating, +70°C.

The springloaded fuse can be changed.

Material and surface finish

The valve is manufactured from hot galvanized steel sheet SS 1151 and meets the requirements of environmental class M2 according to VVS AMA 98.

FSAV-F is powder coated for a high surface finish and good impact and scratch resistance. Standard colour White RAL-9010, gloss 70, equivalent to NCS S 0502-Y.

Other colors on demand.

The valve body is supplied with a cellular plastic gasket to form an airtight seal against the mounting frame.

The separate mounting frame is manufactured from galvanized steel sheet. Each valve is delivered with mounting ring according to the country specific approvals.

Descriptive text

Fire damper valve FSAV-F

Product code

Fire damper (including mounting ring) FSAV-F -aaa

Connection dimensions in mm _____
100, 125, 160, 200

Accessories

Fuses with link rating +50°C resp. +70°C.