



Sound attenuation volume dampers type SAVD

Sound attenuating volume control dampers in polyurethane foam

Application

- For air regulation and acoustic attenuation in ventilation and airconditioning systems
- To be inserted easily into round ducts with low sound generation even at large pressure drops
- Pressure and airflow are easily adjustable by varying the number of open holes of the damper
- Multiple dampers can be used to obtain higher acoustic attenuation

Material

- Damper mainly made out of flexible polyurethane foam with very good damping abilities and flameresistance tested according FMVSS-302, the fabric flammability standard, wich is also the standard used in e.g. the automotive industry. Fire resistance class B (Equivalent to M1)
- Cut-out holes with parts that can easily be taken out to adjust air volumes
- Anti-bacterial anti-fungus foam mousse
- Rot-free

Colour

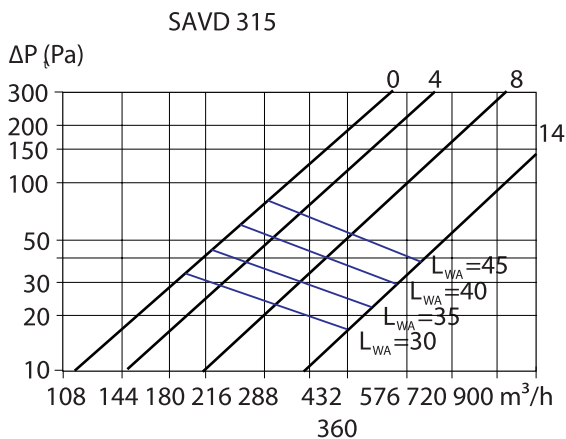
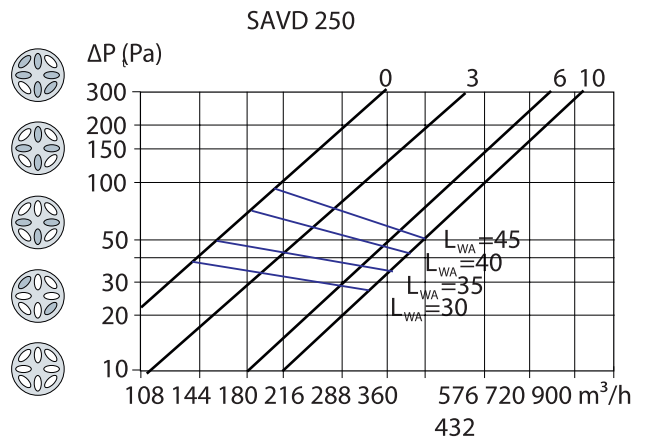
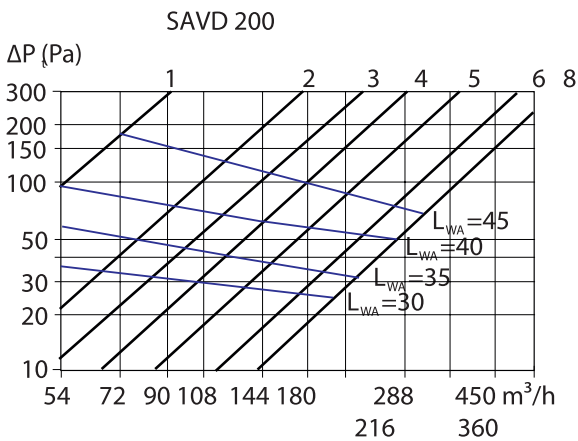
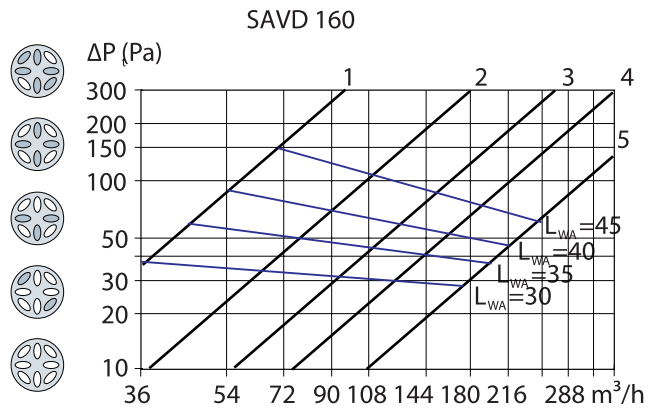
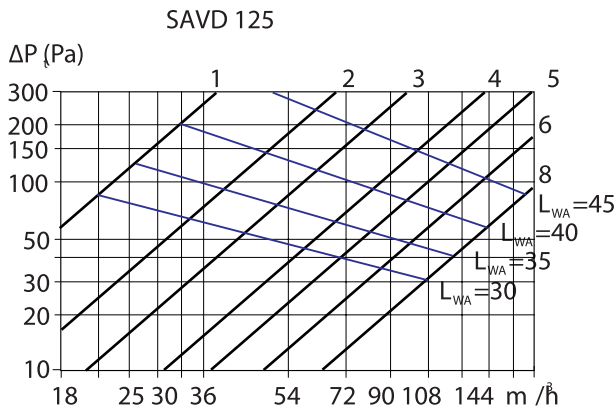
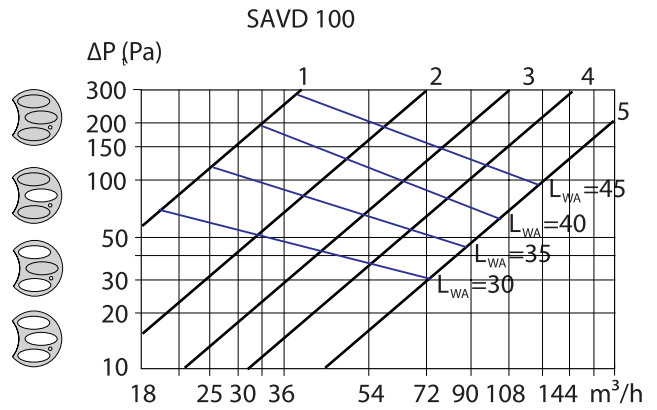
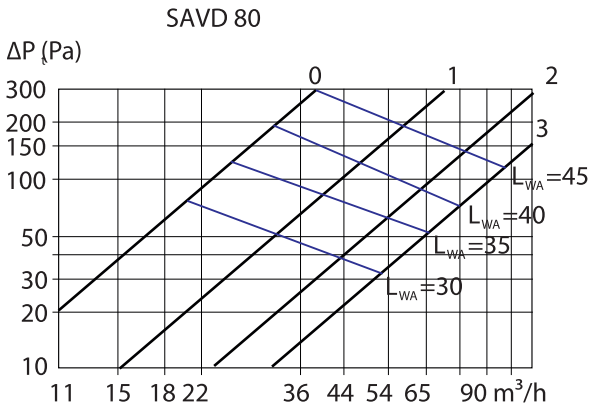
- Black coverage at one end and mixed-colored polyurethane foam

Mounting

- To be inserted in circular ducts of Ø80, Ø100, Ø125, Ø160, Ø200, Ø250 and Ø315
- Dampers for ducts in Ø315 available upon request
- To be mounted at at least 50-350 mm distance A between the duct opening and first SAVD damper when used in air supply
- To be mounted at at least 0-50 mm distance A between the duct opening and the first SAVD damper when used for exhaust of air
- To be mounted at a minimum distance B in between 2 dampers at at least 250 mm in air supply and 150 mm in air exhaust when multiple dampers are mounted

Technical characteristics

Circular control valves

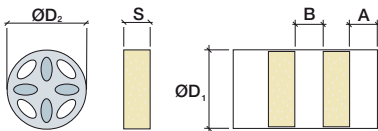


List of symbols

- Dpt = Pressure loss over the damper in Pa
- Q = Air Volume in m³/h
- L_{WA} = Sound power in dBA
- L_w = L_{WA} + K_w
- 1-2- ... -10 = Quantity of opened holes in the damper

Acoustic attenuation (ISO 7235:2003)									
	Open Holes	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
SAVD 80	1	3,5	3,0	3,5	5,0	6,0	8,5	11,5	13,0
	2	2,5	2,0	3,0	4,0	6,0	9,0	10	16
	3	1,0	1,5	1,5	3,5	4,5	5,0	10,0	12,0
SAVD 100	1	6,5	7,0	4,0	9,5	13	16	18	22
	2	4,8	5,3	4,5	7,5	11,0	12,3	16,5	21,5
	3	3,0	3,5	2,5	5,5	8,5	8,5	15	19
	4	2,5	3,0	2,0	4,5	7,3	7,5	13,5	18
	5	1,5	2,5	1,5	3,5	6,0	6,5	12	17
SAVD 125	1	6,5	7	8	8,5	9,5	17	19	22
	2	5,5	6,5	7	6,5	10	15	19	21
	3	5,0	6,0	5,0	5,0	12	13	19	21
	4	3,5	4,0	3,8	4,5	10,8	10,5	16,5	20
	5	2,0	2,0	2,5	3,0	8,5	8,0	14	19
	6	1,5	1,8	2,0	2,8	7,5	7,0	12,5	18,5
	8	1,0	1,5	1,5	2,5	6,0	6,0	11	18
	1	6,5	7,0	4,0	9,5	13	16	18	22
SAVD 160	2	4,7	5,0	3,2	7,6	11,0	12,5	16,2	20
	3	2,8	3,5	2,5	5,8	8,5	8,7	14,5	19,0
	4	3,0	3,5	2,5	5,5	8,5	8,5	15,0	19,0
	5	3,0	3,5	2,5	5,5	8,5	8,5	15	20
	1	5,0	7,0	3,0	6,5	14	15	19	18
SAVD 200	2	4,0	6,5	2,5	5,5	13	14	18	16
	3	4,0	5,5	2,5	5,0	12	14	18	15
	4	3,0	4,0	2,0	4,0	10,0	9,0	15	15
	5	2,0	3,0	1,5	2,5	9,5	8,5	14	15
	6	2,0	2,5	1,5	2,0	8,0	7,5	13	14
	8	2,0	2,0	1,0	1,5	7,0	7,0	13	14
SAVD 250	3	5,0	4,0	3,0	7,0	13	18	18	17
	6	4,0	3,0	2,0	5,5	11,0	14,0	16,0	16,0
	10	2,0	3,0	1,5	2,5	7,5	11	14	13
SAVD 315	4	5	5	3	6	12	15	16	18
	8	3	3	2	4	9	9	13	15
	14	2	2	1	1,5	7	8	10	13

Correction factor Kw								
	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
SAVD 80	6	4	3	0	-9	-10	-17	-24
SAVD 100	6	4	3	0	-9	-10	-17	-24
SAVD 125	4	2	1	0	-8	-10	-18	-24
SAVD 160	5	4	3	0	-9	-10	-18	-22
SAVD 200	4	2	5	-4	-10	-15	-20	-25
SAVD 250	5	4	3	0	-9	-10	-18	-22
SAVD 315	4	2	5	-4	-10	-15	-20	-25



Dimensions			
	D1 [mm]	D2 [mm]	S [mm]
SAVD 80	80	82	50
SAVD 100	100	102	50
SAVD 125	125	127	50
SAVD 160	160	162	50
SAVD 200	200	202	50
SAVD 250	250	252	75
SAVD 315	315	318	75