



Disc Valve

Disc

At Gerhman we are driven by a strong desire to continuously generate improvements. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability.



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Disc Valve

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Disc valves are used as an alternative to ceiling diffuser. They are most commonly used for the purpose of ventilation. The air flow through the disk valve can be adjusted by rotating the disc clockwise or anticlockwise. The rotation changes the free area between the disc and the frame. Disc valves are preferred by many architects and building owners for toilets, bathrooms and ventilation in damp areas due to its simplistic yet aesthetic appearance.

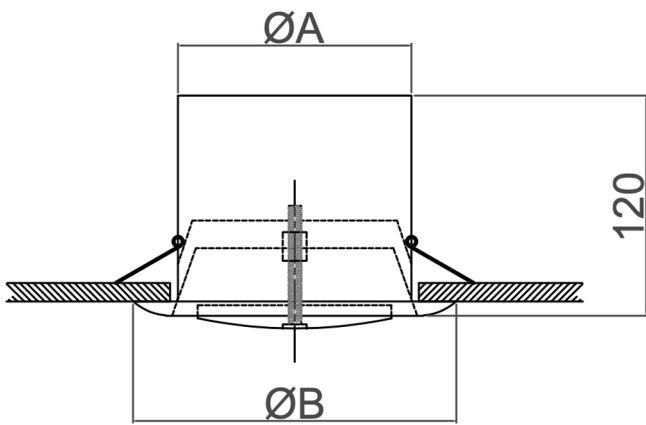
Description:

- **Frame and disc is made of high quality galvanized steel sheet construction with powder coated to RAL colors.**
- **Disc is attached to the frame by threaded rod.**
- **Air flow can be adjusted by regulating the cone up or down (+A or -A)**
- **Foam gasket is sealed around the back of the frame as option to avoid air leakage.**
- **These valves can be used for supply, exhaust and ventilation applications.**
- **Can be mounted in wall, ceiling or exposed air ducts with mounting rings.**
- **Recommended for exhaust of greasy and damp air in damp areas such as toilets, bathrooms and kitchens.**

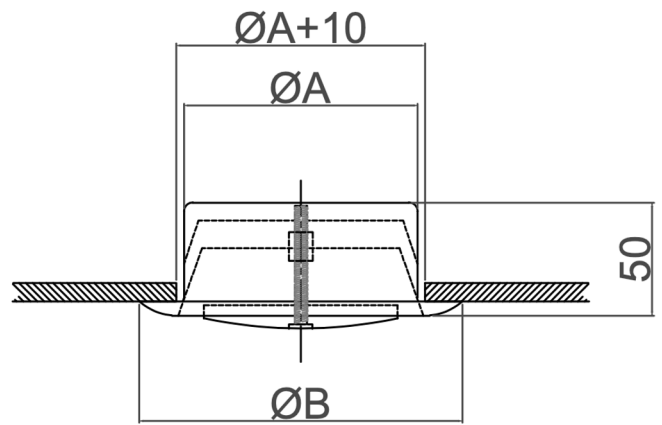
Disc Valve

Disc

Dimensions and Quick Selection



Fixing by spring



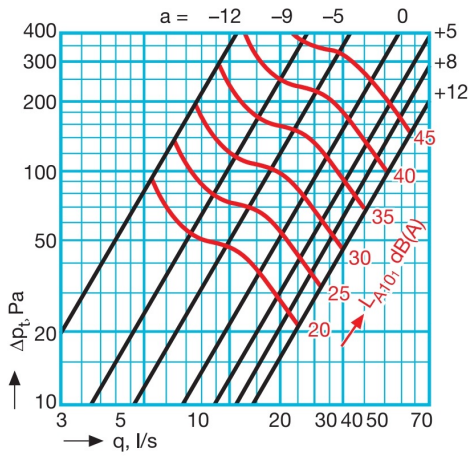
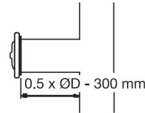
Fixing by subframe

Standard Sizes	ø A	ø B	Flow Rate (m³/h)
80	75	135	100
100	95	165	140
125	120	200	200
150	145	235	280
200	195	295	350

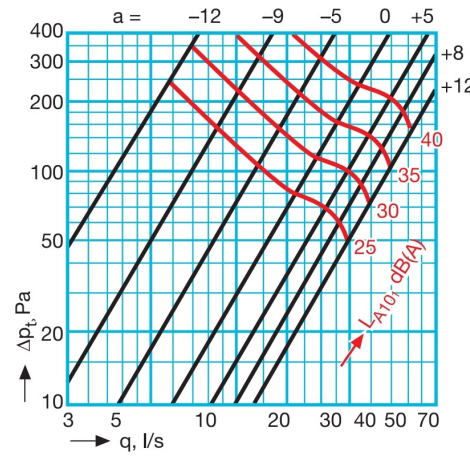
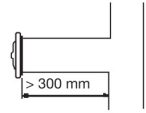
Selection Graph

Ø 100

Mounting Distance to duct < 300 mm



Mounting Distance to duct > 300 mm



Sound levels according to frequencies

Size	63	125	250	500	1000	2000	4000	8000Hz
100	11	4	2	-3	-2	-1	-7	-17
Tolerance±dB	6	3	2	2	2	2	2	3

Sound levels according to frequencies

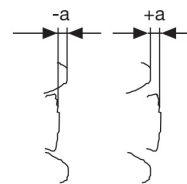
Size	63	125	250	500	1000	2000	4000	8000Hz
100	8	0	-2	-3	-2	-0	-9	-14
Tolerance±dB	6	3	2	2	2	2	2	3

Sound Absorption (From Duct to Room)

a	Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000Hz
-12	23	23	24	29	36	36	40	40
0	22	22	23	26	32	32	34	36
-8	22	22	22	26	30	30	33	34

Sound Absorption (From Room to Duct)

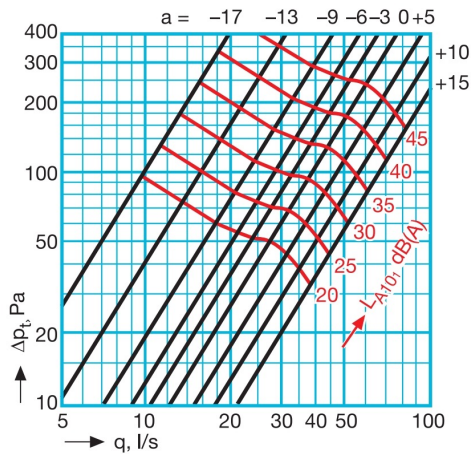
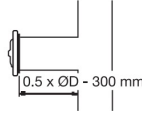
a	Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000Hz
-12	19	23	24	29	36	36	40	40
0	19	22	23	26	32	32	34	36
+8 mm	20	22	22	26	30	30	33	34



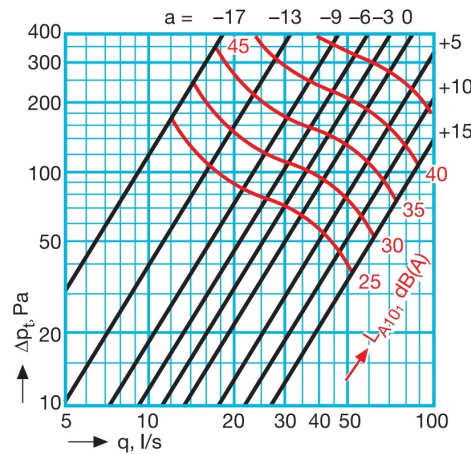
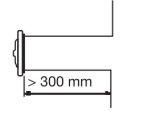
a: Valve opening level

Ø 125

Mounting Distance to duct < 300 mm



Mounting Distance to duct > 300 mm



Sound levels according to frequencies

Size	Correction value (dB)							
	63	125	250	500	1000	2000	4000	8000Hz
125	11	4	2	-3	-2	-1	-9	-20
Tolerance±dB	6	3	2	2	2	2	2	3

Sound levels according to frequencies

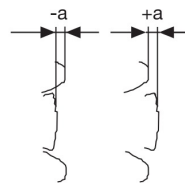
Size	Correction value (dB)							
	63	125	250	500	1000	2000	4000	8000Hz
125	10	3	1	-2	-3	0	-12	-23
Tolerance±dB	6	3	2	2	2	2	2	3

Sound Absorption (From Duct to Room)

a	Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000Hz
-17	21	15	12	10	8	8	11	14
-6 mm	20	14	10	7	5	5	6	7
+5 mm	19	14	9	6	4	4	4	8

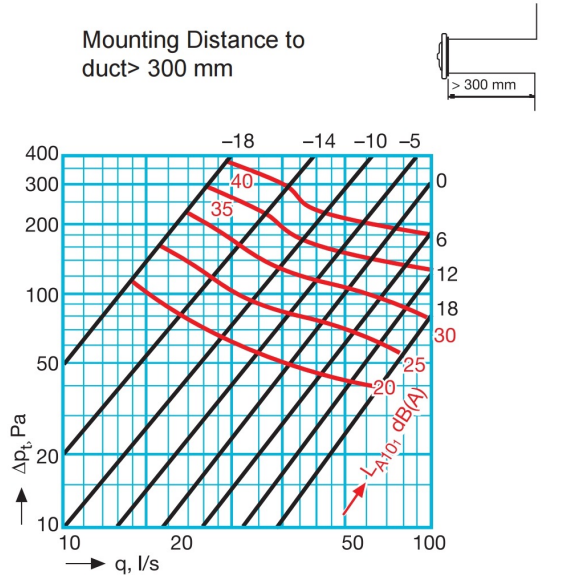
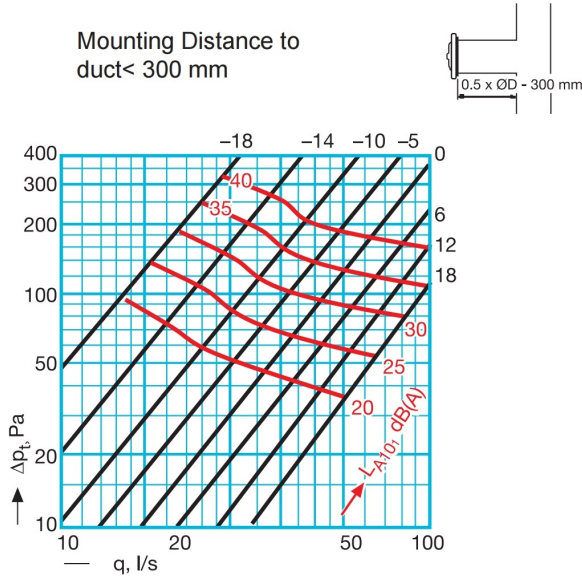
Sound Absorption (From Room to Duct)

a	Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000Hz
-17	17	22	30	29	32	33	36	37
-6 mm	16	20	26	26	29	30	32	33
+5 mm	16	20	23	25	28	28	30	32



a: Valve opening level

Ø 160



Sound levels according to frequencies

Size	Correction value (dB)						
	63	125	250	500	1000	2000	4000 8000Hz
160	9	5	-1	-4	-2	0	-14 -25
Tolerance±dB	6	3	2	2	2	2	2 3

Sound levels according to frequencies

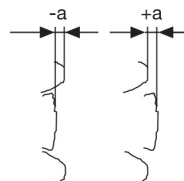
Size	Correction value (dB)						
	63	125	250	500	1000	2000	4000 8000Hz
160	9	-1	0	-2	1	-3	-14 -26
Tolerance±dB	6	3	2	2	2	2	2 3

Sound Absorption (From Duct to Room)

a	Frequency (Hz)						
	63	125	250	500	1000	2000	4000 8000Hz
-18	19	14	10	8	7	9	13 13
-5 mm	18	13	8	6	5	5	10 8
+6 mm	18	12	7	5	4	4	10 6

Sound Absorption (From Room to Duct)

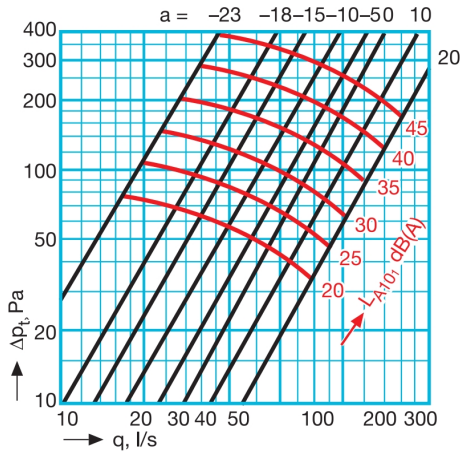
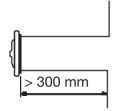
a	Frequency (Hz)						
	63	125	250	500	1000	2000	4000 8000Hz
-18	15	20	20	27	28	31	34 34
-5 mm	16	20	20	25	26	28	30 32
+6 mm	17	19	20	23	25	26	30 30



a: Valve opening level

Ø 200

Mounting Distance to duct < 300 mm



Sound levels according to frequencies

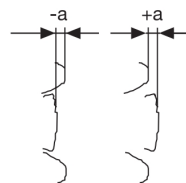
Size	Correction value (dB)						
	63	125	250	500	1000	2000	4000 8000Hz
200	7	2	-1	-2	2	-5	-12 -22
Tolerance ±dB	6	3	2	2	2	2	2 3

Sound Absorption (From Room to Duct)

a	Frequency (Hz)						
	63	125	250	500	1000	2000	4000 8000Hz
-20	15	25	24	26	26	31	31 32
0 mm	12	22	21	24	24	26	30 28
+20 mm	12	19	20	24	22	25	30 27

Sound Absorption (From Duct to Room)

a	Frequency (Hz)						
	63	125	250	500	1000	2000	4000 8000Hz
-20	17	14	9	8	8	10	11 12
0 mm	17	12	7	6	5	6	8 8
+20 mm	15	12	6	24	3	4	8 7



a: Valve opening level



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