

# Circular straight silencer

PVD



## Description

PVD is a circular straight silencer. Nominal insulation thicknesses are 50 or 100 or 150 mm. Attenuation material is Acutec® polyester. The PVD's are made from galvanizes steel sheet.

The PVD 50 comes in two different designs.

### Design code:

- 1 = Attenuation material covered with perforated plate
- 7 = Attenuation material polyester fibre element

The PVD 100 and 150 is with an inner tube made of sheet steel with small openings to be able to withstand mechanical cleaning and at the same time not interfere with the insertion loss. Silencer can be cleaned by rotating nylon brushes, vacuum cleaner or damp cloth.

Tested according to ISO 7235 standard.

Fulfills tightness class C.

Special materials, sizes and flanges on request. Please contact Lindab sales.

To select the appropriate silencer and optimize connection size and length for the best performance you can use our online tool LindQST or our free to download software DIMsilencer.

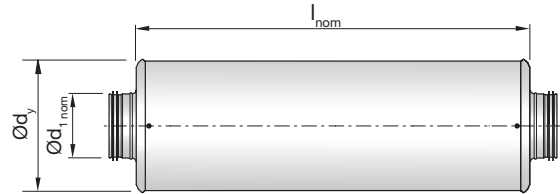
## Order code

Product	PVD	d	l	t
PVD				
<b>Connection (d) in mm (Ød<sub>1nom</sub>)</b>				
Design 1:				
100 - 500 mm (50 mm insulation)				
Design 7:				
100 - 250 mm (50 mm insulation)				
100 - 1250 mm (100 mm insulation)				
1400 - 1600 mm (150 mm insulation)				
<b>Length (l) in mm (l<sub>nom</sub>)</b>				
Design 1:				
300 - 1500 mm (50 mm insulation)				
Design 7:				
300 - 1200 mm (50 mm insulation)				
300 - 2500 mm (100 mm insulation)				
1000 - 3200 mm (150 mm insulation)				
<b>Insulation thickness (t) in mm</b>				
50, 100 or 150 mm				

Example: PVD - 125 - 600 - 50 - 1

## Technical data for silencer with 50 mm insulation - Design 1

### Dimensions and sound data for silencer with 50 mm insulation.



Ød <sub>1nom</sub> mm	l <sub>nom</sub> mm	Insertion loss [dB] for centre frequency [Hz]								Ød <sub>y</sub> mm	m kg
		63	125	250	500	1k	2k	4k	8k		
100	300	1	3	7	10	17	21	11	11	197	1,9
100	600	2	7	11	16	26	34	21	16	197	3,2
100	900	4	10	16	23	34	43	30	22	197	4,5
100	1200	6	12	20	29	42	45	35	28	197	5,9
125	300	1	2	5	8	16	17	10	8	220	2,2
125	600	1	5	9	14	23	27	17	13	220	3,6
125	900	3	7	13	19	32	40	25	19	220	5,1
125	1200	5	10	16	23	38	42	30	22	220	6,5
160	300	0	3	4	6	14	9	7	6	276	2,8
160	600	1	5	7	11	21	17	12	12	276	4,6
160	900	3	7	10	14	27	22	16	14	276	6,4
160	1200	4	8	13	19	33	28	19	17	276	8,4
200	300	0	3	5	8	16	17	10	10	302	3,3
200	600	1	4	6	10	20	20	12	12	302	5,3
200	900	2	5	9	12	24	23	15	13	302	7,3
200	1200	3	6	11	16	29	28	18	15	302	9,4
250	600	1	3	5	8	17	14	10	8	352	6,4
250	900	1	4	7	11	22	20	14	12	352	8,8
250	1200	2	6	12	19	32	47	36	28	352	12,0
315	600	0	2	4	7	16	9	9	8	417	7,8
315	900	1	3	5	9	20	13	11	12	417	11,0
315	1200	2	4	7	12	25	16	14	15	417	13,0
400	600	1	2	3	5	13	9	8	6	505	13,0
400	900	1	3	5	9	15	11	11	9	505	18,0
400	1200	1	3	6	11	19	14	13	11	505	22,0
400	1500	1	4	8	14	23	16	14	13	505	27,0
500	600	1	1	3	5	8	9	7	3	605	15,0
500	900	1	2	4	9	11	12	9	5	605	22,0
500	1200	1	3	5	11	15	13	11	6	605	27,0
500	1500	1	3	6	12	18	16	14	8	605	33,0

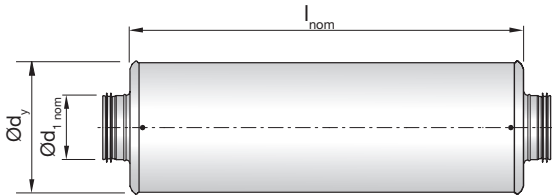


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## Technical data for silencer with 50 mm insulation - Design 7

Dimensions and sound data for silencer with 50 mm insulation.



Ød <sub>1 nom</sub> [mm]	l <sub>nom</sub> [mm]	Insertion loss [dB] for centre frequency [Hz]								Ød <sub>y</sub> [mm]	m [kg]
		63	125	250	500	1k	2k	4k	8k		
100	300	1	3	8	10	15	23	13	11	197	1,9
100	600	3	6	12	16	22	34	21	18	197	3,2
100	900	3	11	19	22	29	44	30	25	197	4,5
100	1200	4	13	20	24	37	47	37	34	197	5,9
125	300	1	2	7	8	12	19	10	8	220	2,2
125	600	2	5	10	13	17	28	19	17	220	3,6
125	900	2	8	14	19	24	38	25	21	220	5,1
125	1200	4	9	18	22	38	47	31	28	220	6,5
160	300	0	3	6	7	13	13	8	11	276	2,8
160	600	1	6	8	11	18	18	12	14	276	4,6
160	900	1	6	10	16	24	25	16	17	276	6,4
160	1200	1	8	13	19	28	31	19	19	276	8,4
200	300	1	1	3	6	11	9	5	5	302	3,3
200	600	1	3	6	9	16	15	8	10	302	5,3
200	900	1	5	9	12	21	20	10	11	302	7,3
200	1200	3	6	11	16	29	28	18	15	302	9,4
250	600	0	3	5	8	14	12	6	8	352	6,4
250	900	0	4	7	11	20	16	9	11	352	8,8
250	1200	2	6	12	19	32	47	36	28	352	12,0

## Technical data for silencer with 150 mm insulation

Dimensions and sound data for silencer with 150 mm insulation.

Ød <sub>1 nom</sub> [mm]	l <sub>nom</sub> [mm]	Insertion loss [dB] for centre frequency [Hz]								Ød <sub>y</sub> [mm]	m [kg]
		63	125	250	500	1k	2k	4k	8k		
1400	1400	1	5	8	5	4	4	2	2	1907	193
1400	1500	1	5	8	5	4	4	2	2	1907	251
1400	2800	3	9	17	12	8	8	4	4	1907	309
1600	1600	1	4	7	6	4	3	2	2	1907	272
1600	3200	3	7	14	13	8	7	4	3	1907	440



## Technical data for silencer with 100 mm insulation

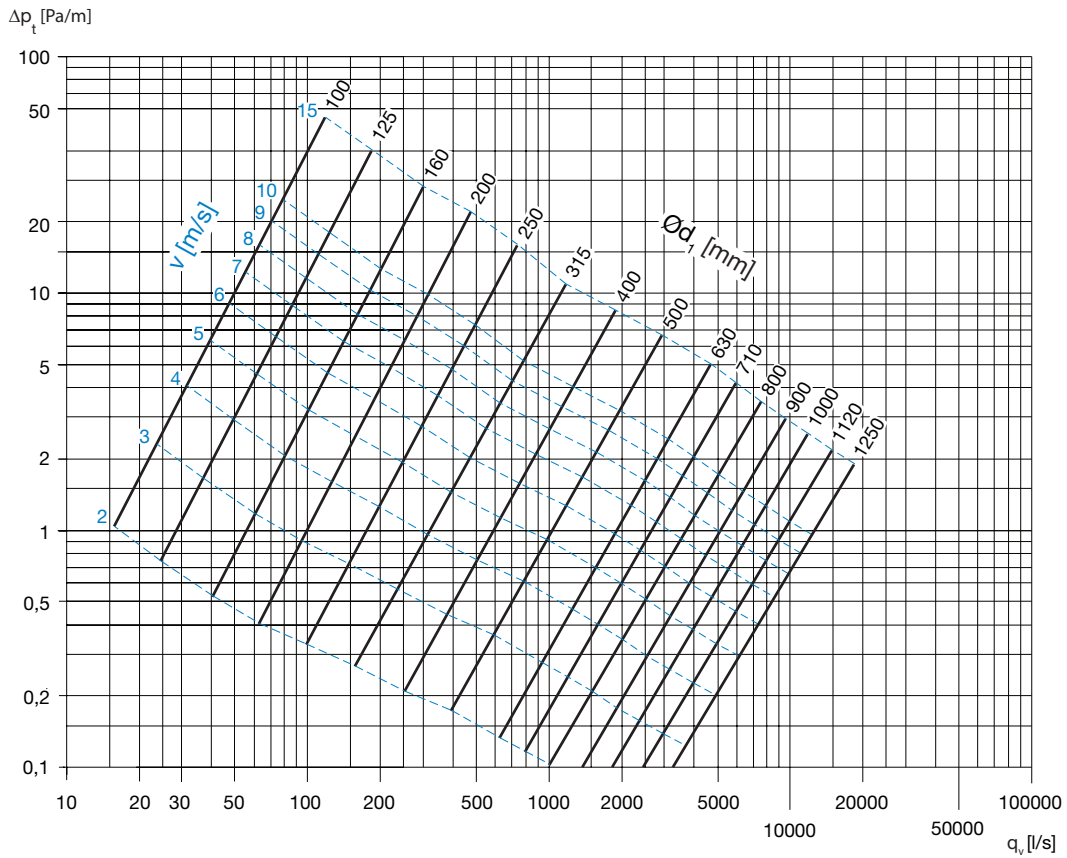
Dimensions and sound data for silencer with 100 mm insulation.

Ød <sub>1 nom</sub> [mm]	l <sub>nom</sub> [mm]	Insertion loss [dB] for centre frequency [Hz]								Ød <sub>y</sub> [mm]	m [kg]
		63	125	250	500	1k	2k	4k	8k		
100	300	4	10	14	18	27	18	15	13	305	3,5
100	600	7	14	20	26	40	34	29	19	305	5,6
100	900	10	18	26	33	49	44	36	26	305	7,6
100	1200	13	23	32	36	50	47	38	34	305	9,7
125	300	3	8	11	15	22	15	13	9	330	3,8
125	600	8	12	16	22	32	26	23	15	330	6,2
125	900	10	15	23	28	47	39	32	20	330	8,5
125	1200	12	19	29	33	50	45	38	25	330	11,0
160	300	2	7	10	13	19	12	10	9	365	4,4
160	600	5	10	14	20	35	21	17	14	365	7,1
160	900	7	13	20	26	43	29	24	16	365	9,7
160	1200	8	16	25	31	50	38	30	20	365	12,0
200	300	4	6	9	13	23	15	11	11	405	5,2
200	600	3	8	12	17	30	20	15	13	405	8,0
200	900	5	10	16	22	37	25	19	14	405	11,0
200	1200	6	12	20	27	46	32	23	17	405	14,0
250	600	3	7	9	15	25	15	13	9	455	9,6
250	900	3	8	13	20	32	20	17	12	455	13,0
250	1200	5	10	17	24	38	24	19	14	455	17,0
315	600	2	5	8	14	18	13	12	8	520	15,0
315	900	3	7	11	19	24	16	14	13	520	19,0
315	1200	4	9	15	23	29	17	18	15	520	26,0
400	600	2	4	6	12	13	11	10	6	605	16,0
400	900	2	5	10	17	17	14	14	9	605	23,0
400	1200	3	7	13	20	21	15	16	11	605	28,0
400	1500	4	9	16	25	25	17	17	14	605	35,0
500	600	1	3	6	12	11	12	9	3	705	20,0
500	900	2	4	8	16	14	14	11	5	705	27,0
500	1200	3	5	11	20	17	16	13	10	705	34,0
500	1500	3	6	12	23	20	18	19	8	705	41,0
630	600	1	3	5	11	8	4	6	2	835	24,0
630	900	1	4	7	15	11	6	10	3	835	32,0
630	1200	2	4	9	18	13	9	14	4	835	41,0
630	1500	2	6	11	20	15	12	14	5	835	50,0
710	710	1	3	6	11	6	4	4	2	915	30,0
710	1000	1	3	8	13	8	6	6	2	915	42,0
710	1420	2	5	11	16	12	9	9	4	915	53,0
800	800	2	3	7	9	6	4	4	4	1005	36,0
800	1000	2	3	8	11	7	5	5	5	1005	44,0
800	1200	2	4	9	13	9	6	7	6	1005	51,0
800	1600	2	5	11	17	12	9	10	8	1005	65,0
900	900	1	3	6	10	5	5	5	6	1105	44,0
900	1500	1	4	8	14	7	6	5	5	1105	62,0
900	1800	1	4	11	20	10	8	6	5	1105	80,0
1000	1000	1	3	7	8	5	4	4	5	1205	53,0
1000	2000	2	5	14	17	9	7	6	5	1205	97,0
1120	1120	1	3	8	7	6	4	4	4	1325	64,0
1120	2240	1	5	15	16	11	7	7	7	1325	70,0
1250	1250	1	3	8	7	5	4	3	3	1455	98,0
1250	1500	1	3	9	8	5	4	3	3	1455	139,0
1250	2500	2	5	15	13	9	6	5	4	1455	180,0

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## Pressure loss for silencer with 50 and 100 mm insulation



## Pressure loss for silencer with 150 mm insulation

