

# Circular straight silencer with pod

# PVAP



## Description

PVAP is a circular straight silencer with pod.

Nominal insulation thicknesses are 50, 100 or 150 mm.

Attenuation material is mineral wool. The PVAP's are made from galvanizes steel sheet and 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. The space between them is filled with mineral wool and a nonwoven cloth is inserted between inner tube and the attenuation material, to prevent fibres from the insulation getting into the duct system. Silencer can be cleaned by rotating nylon brushes, vacuum cleaner or damp cloth.

Tested according to ISO 7235 standard.

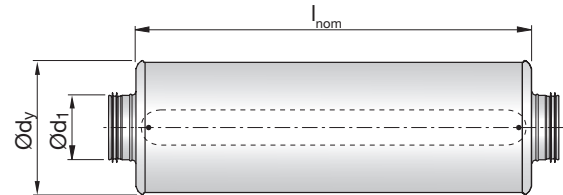
Fulfils tightness class C.

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.

## Technical data for silencer with 50 mm insulation

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



Ød <sub>1</sub> nom [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		
250	600	1	2	5	13	31	36	27	17	352	8,1
250	900	1	3	7	18	39	49	36	22	352	11,0
250	1200	2	4	9	23	45	47	42	24	352	15,0
315	600	1	2	5	12	30	34	6	18	417	11,0
315	900	1	3	6	16	41	43	31	22	417	15,0
315	1200	1	3	8	22	43	48	38	26	417	19,0
400	600	1	2	5	13	32	31	23	15	505	16,0
400	900	2	3	8	19	36	35	28	19	505	22,0
400	1200	2	4	9	23	38	42	33	22	505	29,0
400	1500	2	5	12	30	42	41	38	25	505	35,0
500	600	1	2	4	11	30	26	20	10	605	21,0
500	900	1	3	7	19	38	35	24	14	605	28,0
500	1200	1	3	9	24	37	39	27	17	605	36,0
500	1500	1	4	10	26	39	42	31	20	605	44,0

## Order code

Product	PVAP	d	l	t
PVAP				
<b>Connection (d) in mm (Ød<sub>1nom</sub>)</b>				
250 - 500 mm (50 mm insulation)				
250 - 1250 mm (100 mm insulation)				
1400 - 1600 mm (150 mm insulation)				
<b>Length (l) in mm (l<sub>nom</sub>)</b>				
600 - 1500 mm (50 mm insulation)				
600 - 2500 mm (100 mm insulation)				
1000 - 3200 mm (150 mm insulation)				
<b>Insulation thickness (t) in mm</b>				
50, 100 or 150 mm				

Example: PVAP - 315 - 900 - 100

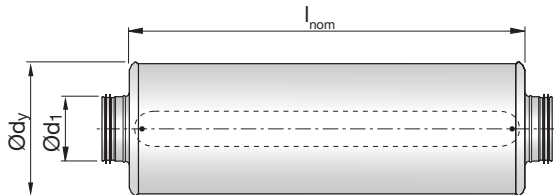


# Circular straight silencer with pod

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## Technical data for silencer with 100 and 150 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		
250	600	3	6	12	25	32	36	28	18	455	12
250	900	3	8	16	33	44	50	36	23	455	16
250	1200	4	10	20	39	49	53	44	26	455	20
315	600	2	5	11	22	31	35	26	18	520	17
315	900	3	7	15	29	40	44	34	23	520	23
315	1200	3	8	19	36	46	50	39	26	520	29
400	600	2	4	11	21	28	31	23	15	605	21
400	900	3	6	16	30	37	40	30	19	605	28
400	1200	3	7	19	35	37	40	33	22	605	36
400	1500	3	9	22	43	44	44	39	25	605	44
500	600	1	3	8	18	25	26	20	10	705	25
500	900	2	5	14	27	33	35	24	14	705	34
500	1200	3	6	17	31	37	41	28	17	705	44
500	1500	3	7	20	35	39	43	31	20	705	54
630	600	1	3	8	17	20	17	15	8	835	33
630	900	2	4	12	20	30	24	19	9	835	44
630	1200	2	5	14	23	37	30	21	12	835	56
630	1500	2	6	17	26	42	35	22	13	835	68
710	710	1	3	10	12	14	12	9	9	915	44
710	1000	2	4	13	16	21	15	11	11	915	61
710	1200	2	5	14	19	25	17	12	12	915	69
710	1420	3	6	15	21	28	19	13	13	915	77
710	1500	3	6	15	21	29	19	13	13	915	81
710	2000	4	7	17	25	35	22	15	15	915	104
800	800	2	5	11	15	21	17	13	11	1005	52
800	1000	3	6	13	20	26	20	15	12	1005	63
800	1200	3	7	15	25	31	22	17	13	1005	74
800	1500	4	8	19	31	37	27	19	15	1005	85
800	1600	4	8	19	32	39	28	20	15	1005	95
800	2000	5	10	25	44	52	36	25	18	1005	108
900	900	2	4	10	20	21	17	13	13	1105	63
900	1000	2	4	11	22	23	18	13	13	1105	67
900	1200	3	5	13	25	25	19	14	13	1105	80
900	1500	3	6	16	31	30	21	16	14	1105	89
900	1800	3	7	19	36	34	23	17	14	1105	114
900	2000	4	8	21	40	37	25	18	15	1105	126
1000	1000	2	4	11	23	20	14	12	12	1205	77
1000	1200	2	5	13	26	23	16	13	13	1205	90
1000	1500	3	6	16	31	27	18	15	15	1205	109
1000	2000	3	7	20	38	34	22	17	17	1205	140
1120	1000	2	4	10	21	17	14	12	11	1325	91
1120	1120	2	4	11	22	18	15	12	11	1325	99
1120	1200	2	4	12	23	19	16	12	11	1325	105
1120	1500	3	5	14	27	23	18	13	13	1325	125
1120	2000	3	7	18	33	30	21	14	14	1325	160
1120	2240	3	8	20	36	33	22	15	15	1325	177
1250	1000	2	3	10	18	14	13	10	10	1455	85
1250	1250	2	4	12	21	17	14	11	10	1455	141
1250	1500	3	5	14	24	20	16	12	11	1455	197
1250	2000	3	7	18	30	25	18	13	11	1455	225
1250	2500	3	8	22	36	30	21	14	12	1455	253

Dimensions and sound data for silencer with 150 mm insulation.

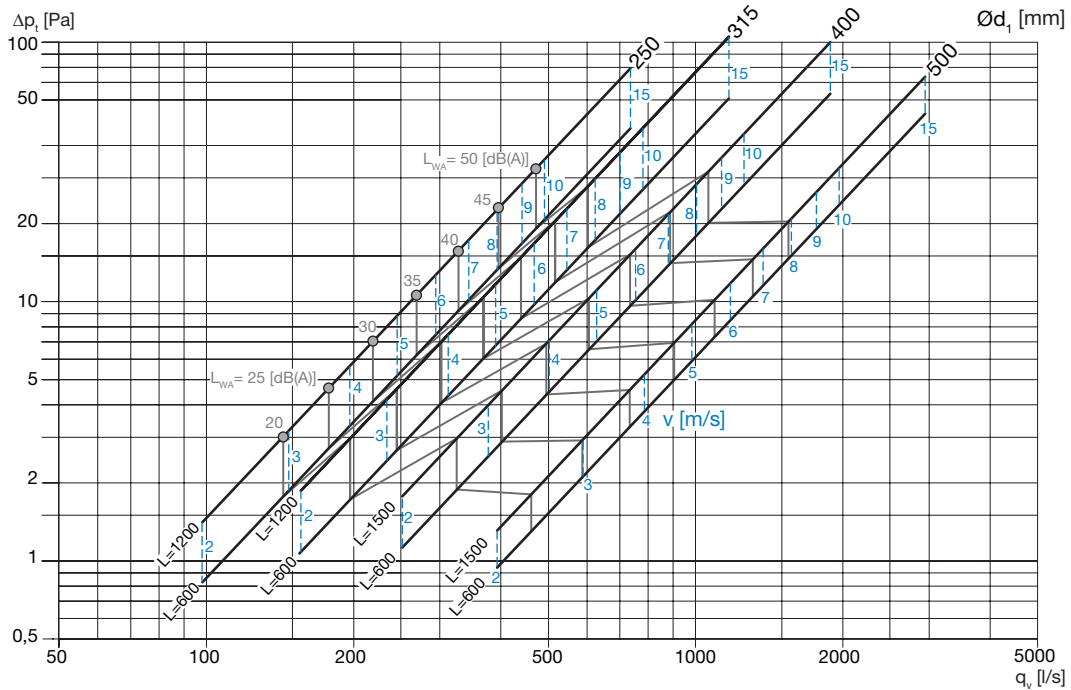
Ød <sub>1 nom</sub> [mm]	l <sub>nom</sub> [mm]	Insertion loss [dB] for centre frequency [Hz]								Ød <sub>y</sub> [mm]	m [kg]
		63	125	250	500	1k	2k	4k	8k		
1400	1000	2	4	11	14	15	11	9	8	1707	218
1400	1200	3	5	13	16	18	12	9	8	1707	242
1400	1400	3	6	15	19	20	13	10	9	1707	265
1400	1500	3	7	16	20	21	14	11	10	1707	277
1400	2000	4	10	21	27	27	17	12	11	1707	335
1400	2500	5	12	26	33	33	20	14	13	1707	393
1400	2800	5	14	29	37	37	22	15	14	1707	428
1600	1000	2	4	10	13	11	9	7	6	1907	285
1600	1200	2	5	11	15	13	10	7	6	1907	315
1600	1500	2	6	13	17	15	11	8	7	1907	360
1600	1600	2	6	14	18	16	11	8	7	1907	375
1600	2000	2	7	17	22	19	13	9	8	1907	435
1600	2500	3	9	20	26	23	14	10	9	1907	509
1600	3200	3	11	25	32	29	17	12	10	1907	614



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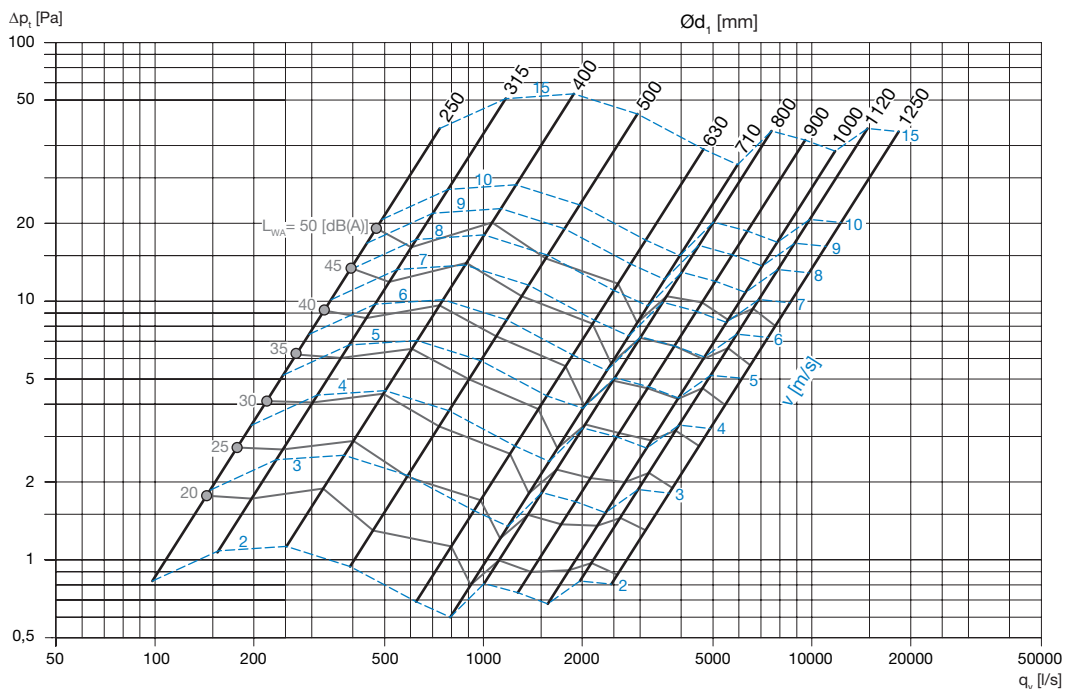
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## Pressure loss for silencer with 50 mm insulation



## Pressure loss for silencer with 100 mm insulation, Short models

$\varnothing d_1$  : 250 – 630 mm  $L = 600$  mm  
 $\varnothing d_1$  : 710 – 1000 mm  $L = 1 \times \varnothing d_1$   
 $\varnothing d_1$  : 1120 – 1250 mm  $L = 1000$  mm

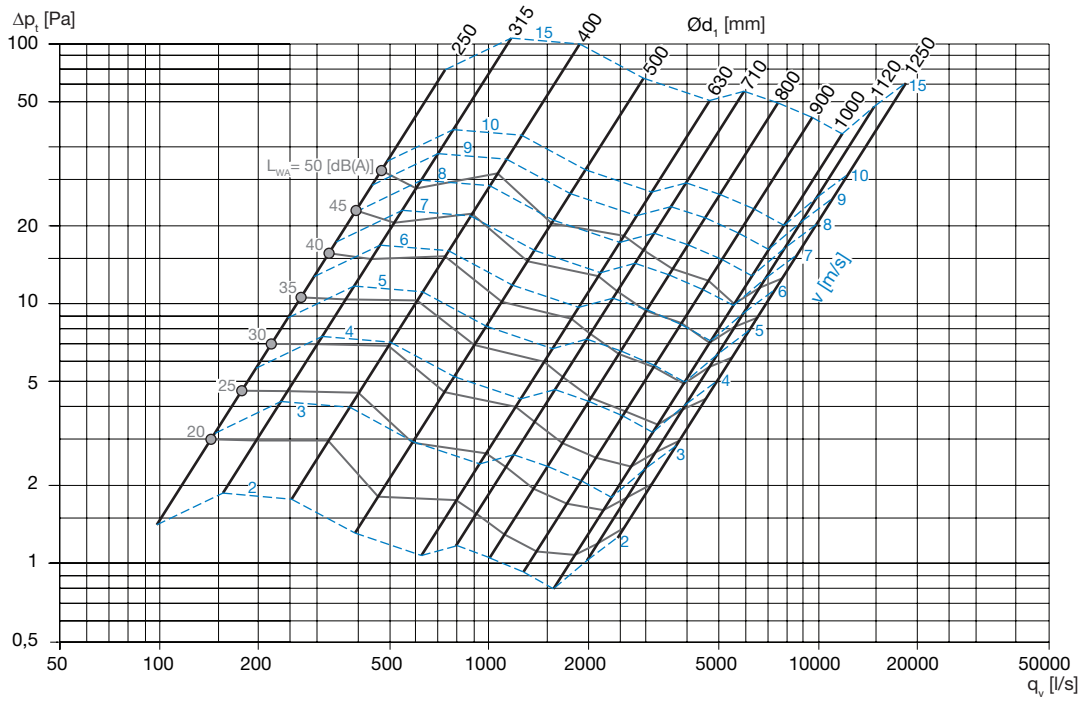


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## Pressure loss for silencer with 100 mm insulation, Long models

- Ød<sub>1</sub> : 250 – 315 mm      L = 1200 mm
- Ød<sub>1</sub> : 400 – 630 mm      L = 1500 mm
- Ød<sub>1</sub> : 710 – 1000 mm    L = 2000 mm
- Ød<sub>1</sub> : 1120 mm            L = 2240 mm
- Ød<sub>1</sub> : 1250 mm            L = 2500 mm



## Pressure loss for silencer with 150 mm insulation

