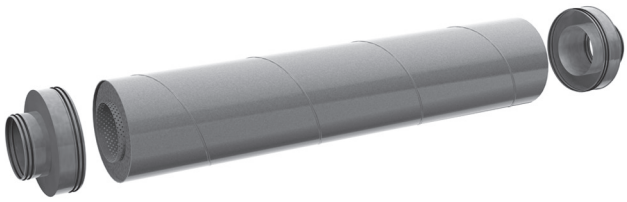
Circular straight silencer Silent duct

SDI



Description

The Silent Duct SDI is constructed as a conventional silencer. SDI consists of an outer pipe, a perforated inner pipe, a lining to prevent fibers from polluting the air, two end plates and an intermediate sound-absorbing material 25 mm or 50 mm thick.

A narrower, but longer silencer compensates for the reduced thickness of insulation compared with the traditional silencers with a thicker insulation. In certain cases it can be an advantage to use the length of the duct system instead of the width to achieve the desired attenuating effect. This is the idea behind Silent Duct.

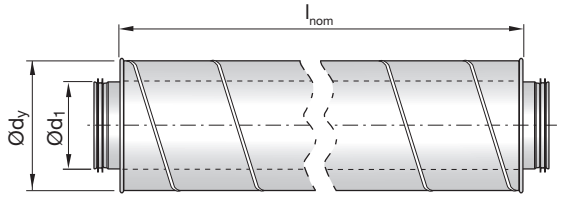
SDI is also very well suited for efficient attenuation of noise from room to room.

SDI is available in dimensions from ø100 to ø500 (inner diameter) and in standard lengths of 3 m and 6 m.

Tested according to ISO 7235 standard.

Special materials and sizes, please contact Lindab sales.

Dimensions



Order code

Product	SDI	d_1	d_y	l

SDI

Connection dim. Ød$_1$

100 - 500 mm

Diameter Ød$_y$

25 mm insulation: c

50 mm insulation: Ødy 200 - 630 mm c

Length in mm (l_{nom})

3000 - 6000 mm

Example: SDI - 250 - 300 - 6000

Dimensions and sound data

Insulation thickness 25 mm.

Ød$_{1\ nom}$ [mm]	Ød$_y$ [mm]	l_{nom} [mm]	Insertion loss [dB] for centre frequency [Hz] 63	125	250	500	1k	2k	4k	8k	m [kg]
100	150	3000	5	10	21	46	50	50	50	49	11,1
100	150	6000	8	17	37	50	50	50	50	50	21,5
100	160	3000	5	10	21	46	50	50	50	49	11,5
100	160	6000	8	17	37	50	50	50	50	50	22,5
125	180	3000	5	8	17	39	50	50	50	34	13,3
125	180	6000	7	14	31	50	50	50	50	50	25,9
125	200	3000	5	8	17	39	50	50	50	34	14,4
125	200	6000	7	14	31	50	50	50	50	50	27,9
160	224	3000	5	7	14	31	50	50	38	24	17,2
160	224	6000	7	12	25	50	50	50	50	36	32,9
160	250	3000	5	7	14	31	50	50	38	24	18,3
160	250	6000	7	12	25	50	50	50	50	36	35,2
200	250	3000	4	6	12	26	50	50	27	18	19,8
200	250	6000	6	10	21	49	50	50	49	26	38,1
250	300	3000	4	5	10	22	50	50	20	14	27,2
250	300	6000	6	9	18	41	50	50	33	20	52,2
250	315	3000	4	5	10	22	50	50	20	14	28,1
250	315	6000	6	9	18	41	50	50	33	20	53,8
315	400	3000	3	4	8	18	46	30	12	11	38,2
315	400	6000	5	7	15	34	50	50	18	15	72,6
400	450	3000	3	4	7	15	40	18	8	9	46,5
400	450	6000	5	6	12	27	50	31	11	12	86,9
450	500	3000	3	3	6	13	38	14	7	8	56,3
450	500	6000	5	6	11	25	50	24	9	10	105,7
500	560	3000	3	3	5	12	36	12	6	7	67,4
500	560	6000	4	5	10	23	50	20	7	9	125,6

Insulation thickness 50 mm

Ød$_{1\ nom}$ [mm]	Ød$_y$ [mm]	l_{nom} [mm]	Insertion loss [dB] for centre frequency [Hz] 63	125	250	500	1k	2k	4k	8k	m [kg]
100	200	3000	10	21	46	50	50	50	50	50	15,4
100	200	6000	15	37	50	50	50	50	50	50	30,2
125	224	3000	9	17	38	50	50	50	50	38	18,5
125	224	6000	13	30	50	50	50	50	50	50	35,4
125	250	3000	9	17	38	50	50	50	50	38	19,6
125	250	6000	13	30	50	50	50	50	50	50	37,6
160	280	3000	8	14	31	50	50	50	49	26	25,4
160	280	6000	11	24	54	50	50	50	50	39	48,7
160	315	3000	8	14	31	50	50	50	49	26	27,3
160	315	6000	11	24	54	50	50	50	50	39	52,5
200	300	3000	7	12	25	50	50	50	32	19	28,3
200	300	6000	9	20	45	50	50	50	50	28	54,5
200	315	3000	7	12	25	50	50	50	32	19	29,1
200	315	6000	9	20	45	50	50	50	50	28	56,1
250	355	3000	6	10	21	47	50	47	22	14	33,2
250	355	6000	8	17	37	50	50	50	38	20	64,1
315	450	3000	5	8	17	40	50	26	13	11	44,9
315	450	6000	7	14	30	50	50	50	20	15	85,9
400	500	3000	4	7	14	34	49	16	9	9	58,4
400	500	6000	6	11	25	50	50	28	12	11	110,7
450	560	3000	4	6	13	31	37	13	7	8	66,3
450	560	6000	5	10	22	50	50	22	10	10	124,7
500	600	3000	4	6	11	29	29	11	6	7	75,1
500	600	6000	5	9	21	50	50	18	8	9	141,4
500	630	3000	4	6	11	29	29	11	6	7	77,1
500	630	6000	5	9	21	50	50	18	8	9	145,4

NB. Max. attenuation specified is 50 dB.

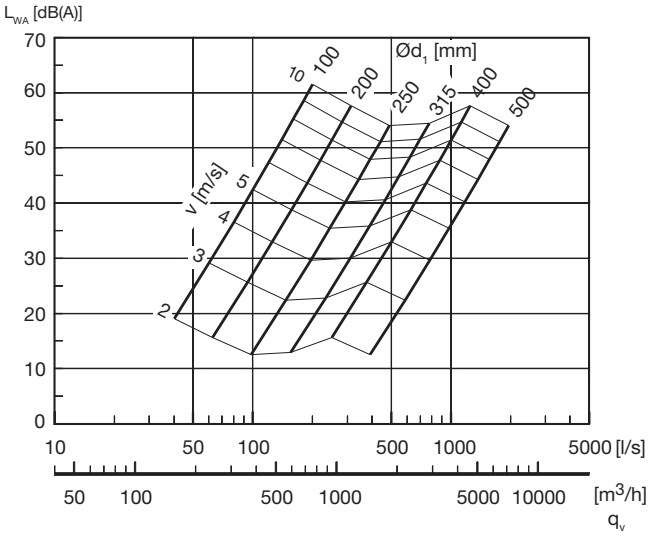
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SDI

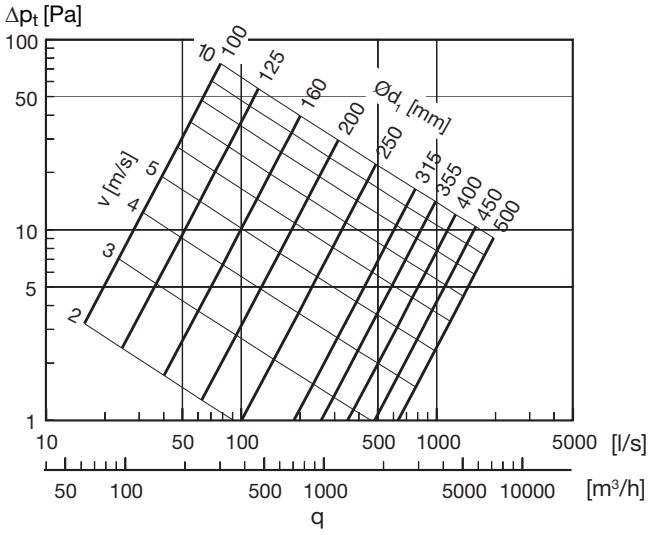
Technical data

The graphs show data of silencers with lengths of 3000 and 6000 mm. To calculate other lengths or diameters, you can use our IT-online tool LindQST or DIMsilencer™.

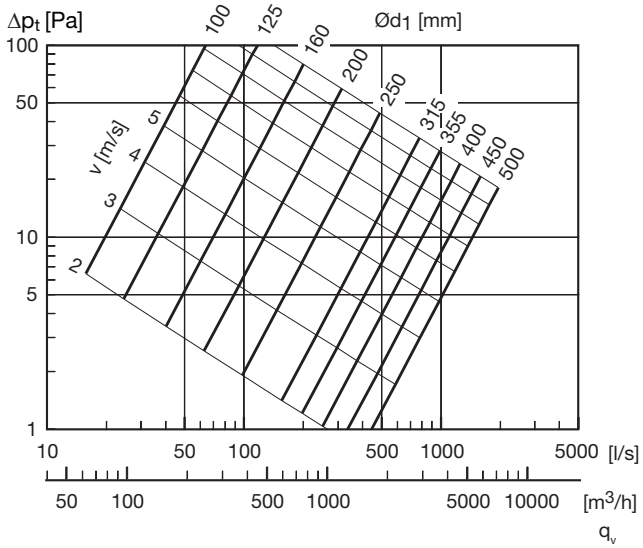
Sound power level



Pressure drop, at length 3000 mm.



Pressure drop, at length 6000 mm.



We reserve the right to make changes
2019-03-27