Attenuating bends

BSIL

Description

The BSIL attenuating bend has been designed for ventilation systems where confined installation space or other requirements prevent using straight [ducted] silencers, e.g. SIL.
The attenuating bend is made of two duct bends inside one another. The inner bend is made of perforated steel sheet. The clearance between the outer cladding and the inner perforated cladding is filled with sound-insulating material. To prevent its entrainment and loss due to the air flow, the sound-insulating material is lined with a cloth.
The standard attenuating bends sized Ø315 mm are supplied with the SPIRAL® system connectors. The diameter sizes Ø > 315 mm require ordering the NSL male couplings which need to be installed in the silencer before connecting the silencer to the ductwork. The male fittings are available separately. They are not delivered with the silencers.

The BSIL attenuating bends with 50 mm thick insulation are available in the following diameter sizes: Ø125/160/200/250/315. The attenuating bends with 100 mm thick insulation are available in the following diameter sizes: Ø125/160/200/250/315/400/500/630.

The silencers are fully made from galvanized steel sheets.
The sound insulation has been measured according to GLSM guidelines.
Patented design.

Insulation:
Insulation material: glass wool.
Insulation type: trimmed from reel, flexible.

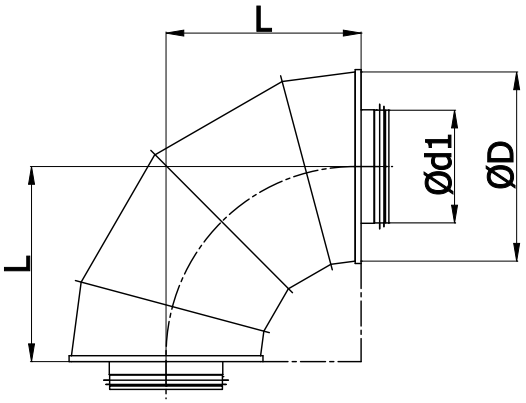
Available materials - Product code examples

BSIL-...-...	- galvanized steel sheet
BSIL-K-...-...	- 1.4301/304 stainless steel sheet
BSIL-K-...-...-316L	- 1.4404/316L stainless steel sheet
BSIL-A-...-...	- aluminium sheet

Product code examples
Product code: **BSIL - aaa - bbb**

type
Insulation thickness
Ød

Dimensions



BSIL-50 - 50 mm insulation

Ød$_{1\ nom}$ [mm]	L [mm]	D [mm]	Sound insulation [dB] at frequency [Hz]							Weight [kg]
			125	250	500	1000	2000	4000	8000	
125	200	224	2	6	14	29	30	31	24	4
160	240	260	3	6	14	26	34	30	25	6
200	305	315	3	8	20	26	32	30	25	10
250	370	355	2	6	17	29	28	24	22	11
315	370	450	3	7	13	15	15	14	12	18

BSIL-100 - 100 mm insulation

Ød$_{1\ nom}$ [mm]	L [mm]	D [mm]	Sound insulation [dB] at frequency [Hz]							Weight [kg]
			125	250	500	1000	2000	4000	8000	
125	260	315	6	13	22	25	35	39	33	9
160	280	355	7	14	18	26	38	33	25	11
200	325	400	6	15	22	29	34	32	27	15
250	370	450	4	11	16	27	28	26	22	20
315	375	500	4	11	15	18	17	15	14	21
400	420	600	5	9	14	14	15	14	12	30
500	485	710	5	13	19	14	13	12	10	42
630	610	800	6	14	17	13	12	12	11	62

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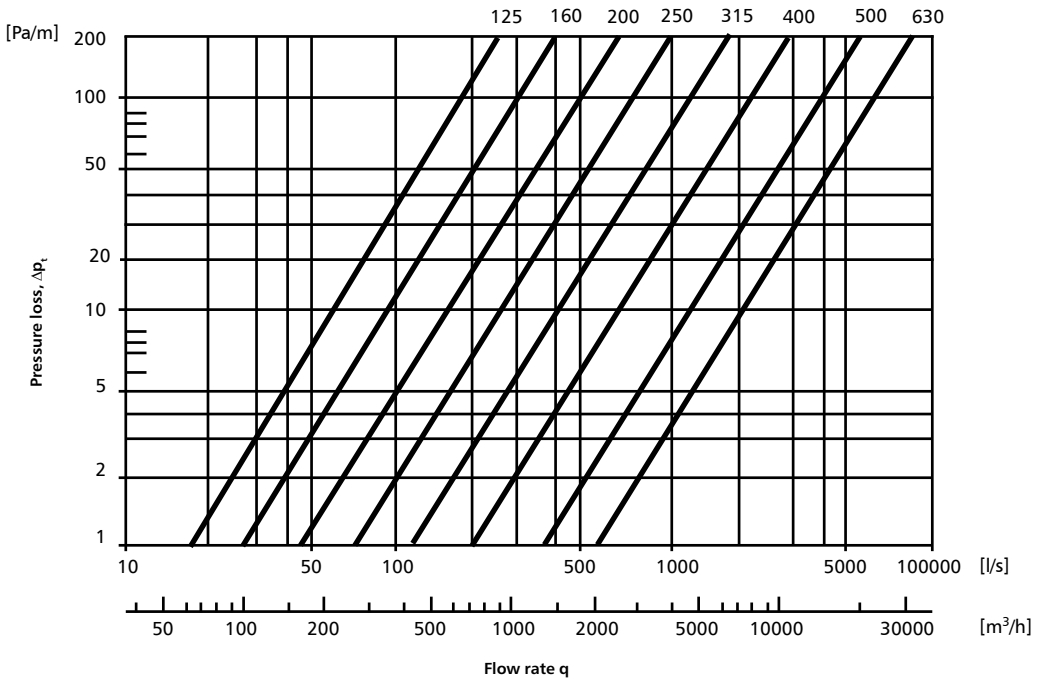
Technical specifications



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