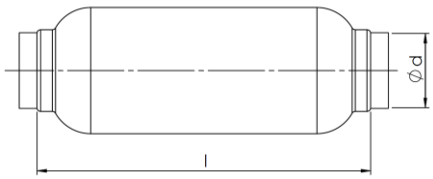
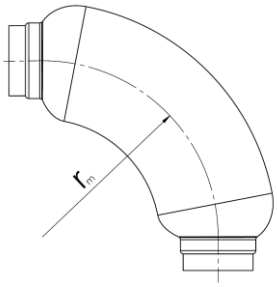
Flexible silencers GS





Description

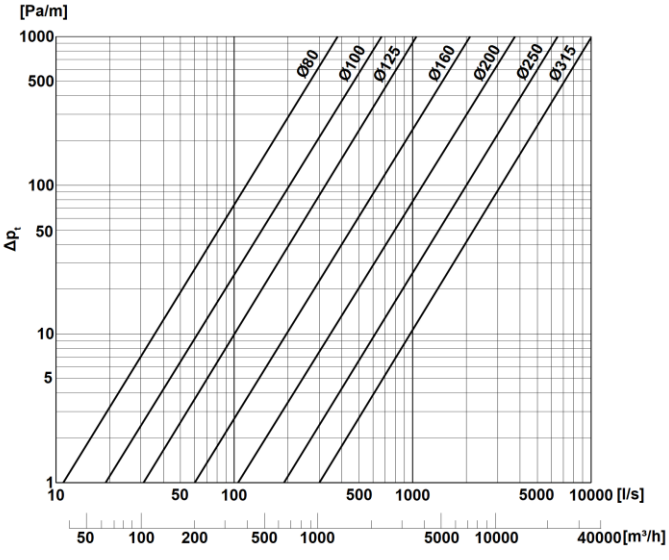
Flexible silencers are used as a sound attenuators for ventilation systems. The insulation layer reduces the noise passing thought the silencer. For best sound absorption, silencer should be extended to full length.

Construction	Inner duct made from perforated corrugated aluminium Barrier between inner duct and sound insulation from nonwoven cloth Encased sound absorbing insulation layer of 25 or 50mm thickness Coated with PE plastic outer jacket End sleeves made from galvanized steel, equipped with female connectors Delivered compressed, l_{min}
Temperature range	from -25°C to +80°C
Maximum pressure	2000 Pa
Maximum air speed	15 m/sec

Dimensions

Type	Ød$_{nom}$ [mm]	l_{min} [mm]	l_{max} [mm]	r_m [mm]	m [kg]
GS80-0.6-25-FF	80	300	600	88	0,46
GS80-1.2-25-FF	80	600	1200	88	0,79
GS100-0.6-25-FF	100	300	600	110	0,56
GS100-1.2-25-FF	100	600	1200	110	0,95
GS125-0.6-25-FF	125	300	600	138	0,68
GS125-1.2-25-FF	125	600	1200	138	1,15
GS160-0.6-25-FF	160	300	600	175	0,85
GS160-1.2-25-FF	160	600	1200	175	1,43
GS200-0.6-25-FF	200	300	600	255	1,05
GS200-1.2-25-FF	200	600	1200	255	1,76
GS250-0.6-25-FF	250	320	600	320	1,29
GS250-1.2-25-FF	250	620	1200	320	2,16
GS315-0.6-25-FF	315	320	600	400	1,61
GS315-1.2-25-FF	315	620	1200	400	2,69
GS80-0.6-50-FF	80	300	600	88	0,54
GS80-1.2-50-FF	80	600	1200	88	0,94
GS100-0.6-50-FF	100	300	600	110	0,63
GS100-1.2-50-FF	100	600	1200	110	1,10
GS125-0.6-50-FF	125	300	600	138	0,76
GS125-1.2-50-FF	125	600	1200	138	1,30
GS160-0.6-50-FF	160	300	600	175	0,93
GS160-1.2-50-FF	160	600	1200	175	1,58
GS200-0.6-50-FF	200	300	600	255	1,12
GS200-1.2-50-FF	200	600	1200	255	1,91
GS250-0.6-50-FF	250	320	600	320	1,37
GS250-1.2-50-FF	250	620	1200	320	2,31
GS315-0.6-50-FF	315	320	600	400	1,69
GS315-1.2-50-FF	315	620	1200	400	2,84

Pressure drop, straight duct



Sound attenuation

The silencer straight and extended to full length

Insulation thickness 25mm:

Ød$_{nom}$ [mm]	l$_{max}$ [mm]	Sound attenuation (dB) at frequency (Hz)						
		125	250	500	1000	2000	4000	8000
80	600	18	29	30	29	27	14	8
100	600	19	30	27	25	20	10	7
125	600	16	25	22	20	19	10	8
160	600	14	19	17	18	16	7	6
200	600	14	17	12	13	15	7	5
250	600	15	14	9	11	14	5	4
315	600	11	12	8	10	9	4	3

Ød$_{nom}$ [mm]	l$_{max}$ [mm]	Sound attenuation (dB) at frequency (Hz)						
		125	250	500	1000	2000	4000	8000
80	1200	29	40	39	36	37	21	14
100	1200	27	35	33	35	34	26	14
125	1200	30	34	29	33	31	24	13
160	1200	17	29	28	28	32	23	12
200	1200	22	30	23	26	28	16	11
250	1200	23	22	17	20	19	8	7
315	1200	22	18	15	18	15	8	6

Insulation thickness 50mm:

Ød$_{nom}$ [mm]	l$_{max}$ [mm]	Sound attenuation (dB) at frequency (Hz)						
		125	250	500	1000	2000	4000	8000
80	600	17	27	30	28	32	17	9
100	600	17	28	26	25	22	13	8
125	600	16	22	21	20	22	15	9
160	600	15	19	17	16	19	11	7
200	600	11	16	11	12	18	10	7
250	600	18	14	9	10	15	5	4
315	600	15	11	7	9	9	4	3

Ød$_{nom}$ [mm]	l$_{max}$ [mm]	Sound attenuation (dB) at frequency (Hz)						
		125	250	500	1000	2000	4000	8000
80	1200	26	33	37	40	58	42	17
100	1200	26	34	32	36	41	32	15
125	1200	29	33	28	33	39	37	16
160	1200	19	29	27	27	36	35	13
200	1200	19	29	22	23	34	22	13
250	1200	27	21	16	18	20	7	6
315	1200	22	17	13	17	13	6	5