Round silencers

SIBOL

Description

The silencers are delivered with the SPIRAL® system seals in the standard version. The diameter sizes d_1 > 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. Glass wool thickness inside the silencer:
50 mm for SIBOL-50 - depends on the outer cladding size.
100 mm for SIBOL-100 - depends on the outer cladding size.

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

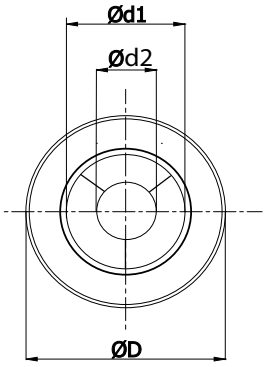
Available materials - Product code examples

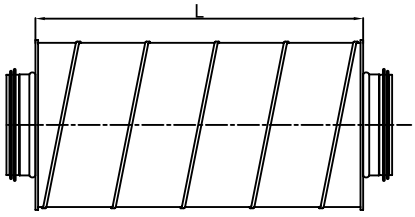
SIBOL-...-...-...	- galvanized steel sheet
SIBOL-K-...-...-...	- 1.4301/304 stainless steel sheet
SIBOL-K-...-...-...-316L	- 1.4404/316L stainless steel sheet

Product code examples
Product code: **SIBOL - iii - aaa - bbb**

type
Insulation thickness
Ød$_1$
L

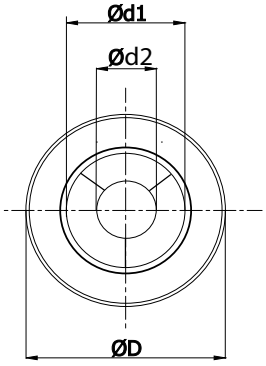
Dimensions

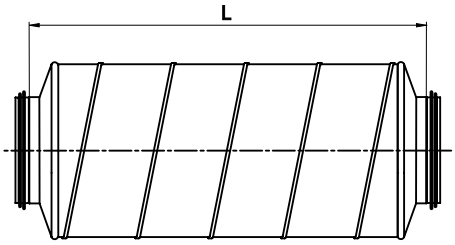




Cross-section for specific types of SIBOL, $d_1 \leq 315$ mm.

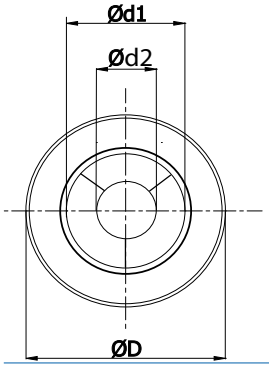
Not applicable to the diameter size: d_1-250 with 50 mm thick insulation.

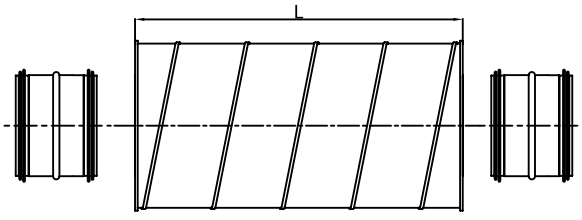




Cross-section of SIBOL with 50 mm thick insulation; designed for the diameter size: d_1-250.

The silencers are fabricated with press-formed covers.





Cross-section for specific types of SIBOL, $d_1 > 315$ mm.

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Dimensions

SIBOL-50 - 50 mm insulation

Description	Ød$_1$ [mm]	D [mm]	Ød$_2$ [mm]	L [mm]	Weight [kg]
SIBOL-50-224-300	224	315	112	300	3.70
SIBOL-50-224-600	224	315	112	600	7.10
SIBOL-50-224-900	224	315	112	900	10.45
SIBOL-50-224-1200	224	315	112	1200	13.85
SIBOL-50-280-300	280	400	140	300	4.50
SIBOL-50-280-600	280	400	140	600	8.55
SIBOL-50-280-900	280	400	140	900	12.55
SIBOL-50-280-1200	280	400	140	1200	16.60
SIBOL-50-300-300	300	400	150	300	4.65
SIBOL-50-300-600	300	400	150	600	8.85
SIBOL-50-300-900	300	400	150	900	13.00
SIBOL-50-300-1200	300	400	150	1200	17.15
SIBOL-50-315-300	315	400	150	300	5.00
SIBOL-50-315-600	315	400	150	600	9.50
SIBOL-50-315-900	315	400	150	900	14.00
SIBOL-50-315-1200	315	400	150	1200	18.50
SIBOL-50-355-300	355	400	180	300	5.60
SIBOL-50-355-600	355	450	180	600	10.55
SIBOL-50-355-900	355	450	180	900	15.50
SIBOL-50-355-1200	355	450	180	1200	20.45
SIBOL-50-400-300	400	500	200	300	6.00
SIBOL-50-400-600	400	500	200	600	11.20
SIBOL-50-400-900	400	500	200	900	16.45
SIBOL-50-400-1200	400	500	200	1200	21.65
SIBOL-50-450-300	450	560	225	300	7.85
SIBOL-50-450-600	450	560	225	600	14.75
SIBOL-50-450-900	450	560	225	900	21.60
SIBOL-50-450-1200	450	560	225	1200	28.50
SIBOL-50-500-300	500	600	250	300	8.75
SIBOL-50-500-600	500	600	250	600	16.40
SIBOL-50-500-900	500	600	250	900	24.10
SIBOL-50-500-1200	500	600	250	1200	31.70
SIBOL-50-560-300	560	630	280	300	9.80
SIBOL-50-560-600	560	630	280	600	18.30
SIBOL-50-560-900	560	630	280	900	26.75
SIBOL-50-560-1200	560	630	280	1200	35.25
SIBOL-50-600-300	600	710	300	300	10.30
SIBOL-50-600-600	600	710	300	600	19.15
SIBOL-50-600-900	600	710	300	900	28.00
SIBOL-50-600-1200	600	710	300	1200	36.85
SIBOL-50-630-300	630	710	315	300	11.20
SIBOL-50-630-600	630	710	315	600	20.85
SIBOL-50-630-900	630	710	315	900	30.50
SIBOL-50-630-1200	630	710	315	1200	40.15

Description	Ød$_1$ [mm]	D [mm]	Ød$_2$ [mm]	L [mm]	Weight [kg]
SIBOL-50-710-300	710	800	355	300	14.55
SIBOL-50-710-600	710	800	355	600	26.90
SIBOL-50-710-900	710	800	355	900	40.00
SIBOL-50-710-1200	710	800	355	1200	51.65
SIBOL-50-800-300	800	900	355	300	15.65
SIBOL-50-800-600	800	900	355	600	28.60
SIBOL-50-800-900	800	900	355	900	41.55
SIBOL-50-800-1200	800	900	355	1200	54.50
SIBOL-50-900-300	900	1000	450	300	18.25
SIBOL-50-900-600	900	1000	450	600	32.25
SIBOL-50-900-900	900	1000	450	900	46.50
SIBOL-50-900-1200	900	1000	450	1200	60.35
SIBOL-50-1000-300	1000	1120	500	300	21.30
SIBOL-50-1000-600	1000	1120	500	600	37.40
SIBOL-50-1000-900	1000	1120	500	900	52.50
SIBOL-50-1000-1200	1000	1120	500	1200	69.45

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Round silencers

SIBOL

Dimensions

SIBOL-100 - 100 mm insulation

Description	Ød$_1$ [mm]	D [mm]	Ød$_2$ [mm]	L [mm]	Weight [kg]
SIBOL-100-224-300	224	450	112	300	
SIBOL-100-224-600	224	450	112	600	
SIBOL-100-224-900	224	450	112	900	
SIBOL-100-224-1200	224	450	112	1200	
SIBOL-100-224-1500	224	450	112	1500	
SIBOL-100-250-300	250	450	125	300	
SIBOL-100-250-600	250	450	125	600	
SIBOL-100-250-900	250	450	125	900	
SIBOL-100-250-1200	250	450	125	1200	
SIBOL-100-250-1500	250	450	125	1500	
SIBOL-100-280-300	280	500	140	300	
SIBOL-100-280-600	280	500	140	600	
SIBOL-100-280-900	280	500	140	900	
SIBOL-100-280-1200	280	500	140	1200	
SIBOL-100-280-1500	280	500	140	1500	
SIBOL-100-300-300	300	500	150	300	
SIBOL-100-300-600	300	500	150	600	
SIBOL-100-300-900	300	500	150	900	
SIBOL-100-300-1200	300	500	150	1200	
SIBOL-100-300-1500	300	500	150	1500	
SIBOL-100-315-300	315	500	150	300	
SIBOL-100-315-600	315	500	150	600	
SIBOL-100-315-900	315	500	150	900	
SIBOL-100-315-1200	315	500	150	1200	
SIBOL-100-315-1500	315	500	150	1500	
SIBOL-100-355-300	355	560	180	300	
SIBOL-100-355-600	355	560	180	600	
SIBOL-100-355-900	355	560	180	900	
SIBOL-100-355-1200	355	560	180	1200	
SIBOL-100-355-1500	355	560	180	1500	
SIBOL-100-400-300	400	600	200	300	
SIBOL-100-400-600	400	600	200	600	
SIBOL-100-400-900	400	600	200	900	
SIBOL-100-400-1200	400	600	200	1200	
SIBOL-100-400-1500	400	600	200	1500	
SIBOL-100-450-300	450	630	225	300	
SIBOL-100-450-600	450	630	225	600	
SIBOL-100-450-900	450	630	225	900	
SIBOL-100-450-1200	450	630	225	1200	

Description	Ød$_1$ [mm]	D [mm]	Ød$_2$ [mm]	L [mm]	Weight [kg]
SIBOL-100-500-300	500	710	250	300	
SIBOL-100-500-600	500	710	250	600	
SIBOL-100-500-900	500	710	250	900	
SIBOL-100-500-1200	500	710	250	1200	
SIBOL-100-500-1500	500	710	250	1500	
SIBOL-100-560-300	560	800	280	300	
SIBOL-100-560-600	560	800	280	600	
SIBOL-100-560-900	560	800	280	900	
SIBOL-100-560-1200	560	800	280	1200	
SIBOL-100-560-1500	560	800	280	1500	
SIBOL-100-600-300	600	800	300	300	
SIBOL-100-600-600	600	800	300	600	
SIBOL-100-600-900	600	800	300	900	
SIBOL-100-600-1200	600	800	300	1200	
SIBOL-100-600-1500	600	800	300	1500	
SIBOL-100-630-300	630	800	315	300	
SIBOL-100-630-600	630	800	315	600	
SIBOL-100-630-900	630	800	315	900	
SIBOL-100-630-1200	630	800	315	1200	
SIBOL-100-630-1500	630	800	315	1500	
SIBOL-100-710-300	710	900	355	300	
SIBOL-100-710-600	710	900	355	600	
SIBOL-100-710-900	710	900	355	900	
SIBOL-100-710-1200	710	900	355	1200	
SIBOL-100-710-1500	710	900	355	1500	
SIBOL-100-800-300	800	1000	355	300	
SIBOL-100-800-600	800	1000	355	600	
SIBOL-100-800-900	800	1000	355	900	
SIBOL-100-800-1200	800	1000	355	1200	
SIBOL-100-800-1500	800	1000	355	1500	
SIBOL-100-1000-300	1000	1120	450	300	
SIBOL-100-1000-600	1000	1250	450	600	
SIBOL-100-1000-900	1000	1250	450	900	
SIBOL-100-1000-1200	1000	1250	450	1200	
SIBOL-100-1000-1500	1000	1250	450	1500	

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Sound insulation

SIBOL-100 - 100 mm insulation

Description	Sound insulation [dB] at frequency [Hz]						
	125	250	500	1000	2000	4000	8000
SIBOL 224-300	6	9	11	16	21	22	18
224-600	7	13	19	28	31	30	24
224-900	8	16	28	41	40	37	31
224-1200	10	21	34	49	52	46	35
224-1500	10	24	42	60	61	54	41
SIBOL 250-300	6	9	10	14	18	18	15
250-600	7	12	18	26	27	26	21
250-900	8	15	27	39	36	34	28
250-1200	9	20	33	46	49	43	32
250-1500	9	23	41	58	58	51	38
SIBOL 280-300	6	8	10	13	15	16	13
280-600	6	12	17	24	25	24	19
280-900	8	15	26	37	34	31	26
280-1200	9	20	32	45	47	40	30
280-1500	9	23	40	56	56	48	36
SIBOL 300-300	5	8	9	11	13	13	11
300-600	6	11	17	22	22	21	17
300-900	7	14	25	36	31	29	24
300-1200	9	19	31	43	44	38	28
300-1500	9	22	39	55	56	46	34
SIBOL 315-300	5	8	9	11	13	13	11
315-600	6	11	17	22	23	21	17
315-900	7	14	25	36	31	29	24
315-1200	9	19	31	43	44	38	28
315-1500	9	22	39	55	53	46	34
SIBOL 355-300	5	7	8	8	13	9	7
355-600	5	11	15	19	22	17	13
355-900	7	14	24	33	31	25	20
355-1200	8	19	30	40	44	34	24
355-1500	8	22	38	52	53	42	31
SIBOL 400-300	5	7	7	6	13	7	5
400-600	5	10	14	17	23	15	11
400-900	6	13	23	31	31	22	18
400-1200	8	18	29	38	40	31	22
400-1500	8	21	37	50	49	39	28
SIBOL 450-300	4	6	6	4	9	4	3
450-600	5	10	14	16	19	13	9
450-900	6	13	22	29	28	20	16
450-1200	8	18	28	36	38	29	20
450-1500	7	21	36	48	47	37	26

Description	Sound insulation [dB] at frequency [Hz]						
	125	250	500	1000	2000	4000	8000
SIBOL 500-300	4	6	5	3	6	3	2
500-600	4	9	13	14	16	11	8
500-900	6	12	21	28	25	18	15
500-1200	7	17	27	35	36	27	19
500-1500	7	20	35	47	44	35	25
SIBOL 560-300	4	6	4	1	4	1	0
560-600	4	9	12	13	14	9	6
560-900	6	12	21	26	23	16	13
560-1200	7	17	27	33	34	25	17
560-1500	7	20	35	45	43	33	23
SIBOL 600-300	4	5	4	1	2	1	0
600-600	4	9	12	12	12	8	6
600-900	6	12	20	26	21	16	13
600-1200	7	17	26	33	32	25	17
600-1500	7	20	34	45	41	33	23
SIBOL 630-300	3	5	4	0	1	0	-1
630-600	4	9	12	12	10	8	6
630-900	5	12	20	25	19	15	12
630-1200	7	17	26	33	31	24	16
630-1500	7	20	34	44	40	32	23
SIBOL 710-300	3	5	3	-2	0	-2	-2
710-600	4	8	11	10	10	6	4
710-900	5	11	19	23	19	13	11
710-1200	6	16	25	30	31	22	15
710-1500	6	19	33	42	40	30	21
SIBOL 800-300	3	4	2	-3	-1	-4	-4
800-600	3	8	10	8	9	4	2
800-900	5	11	18	21	18	12	9
800-1200	6	16	24	29	29	20	13
800-1500	6	18	32	40	36	28	19
SIBOL 1000-300	2	4	1	-6	-5	-6	-6
1000-600	3	7	9	6	5	2	1
1000-900	4	10	17	19	14	10	7
1000-1200	6	15	23	27	25	18	11
1000-1500	6	18	31	38	33	26	18

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Round silencers

SIBOL

Pressure drop

SIBOL-100 - 100 mm insulation

Description	Pressure loss [Pa] at air flow velocity [m/s]				
	2	4	8	10	12
SIBOL-100-224-300	2.27	9.08	36.33	56.77	81.75
SIBOL-100-224-600	2.73	10.94	43.75	68.35	98.43
SIBOL-100-224-900	3.45	13.81	55.26	86.34	124.33
SIBOL-100-224-1200	3.69	14.75	58.99	92.17	132.73
SIBOL-100-224-1500	3.97	15.89	63.58	99.34	143.05
SIBOL-100-250-300	2.07	8.28	33.13	51.76	74.54
SIBOL-100-250-600	2.53	10.13	40.54	63.34	91.21
SIBOL-100-250-900	3.25	13.02	52.07	81.36	117.16
SIBOL-100-250-1200	3.49	13.95	55.78	87.16	125.51
SIBOL-100-250-1500	4.06	16.22	64.90	101.40	146.02
SIBOL-100-280-300	2.15	8.61	34.44	53.82	77.50
SIBOL-100-280-600	2.62	10.46	41.86	65.40	94.18
SIBOL-100-280-900	3.34	13.34	53.38	83.40	120.10
SIBOL-100-280-1200	3.57	14.28	57.10	89.22	128.48
SIBOL-100-280-1500	3.64	14.56	58.26	91.03	131.08
SIBOL-100-300-300	1.74	6.95	27.81	43.45	62.56
SIBOL-100-300-600	2.20	8.80	35.22	55.03	79.24
SIBOL-100-300-900	2.92	11.68	46.73	73.02	105.15
SIBOL-100-300-1200	3.15	12.62	50.46	78.85	113.54
SIBOL-100-300-1500	3.65	14.60	58.41	91.26	131.41
SIBOL-100-315-300	1.75	6.99	27.96	43.68	62.90
SIBOL-100-315-600	2.21	8.84	35.37	55.26	79.57
SIBOL-100-315-900	2.93	11.72	46.89	73.26	105.49
SIBOL-100-315-1200	3.16	12.65	50.61	79.08	113.88
SIBOL-100-315-1500	3.34	13.37	53.48	83.57	120.34
SIBOL-100-355-300	1.18	4.73	18.92	29.57	42.58
SIBOL-100-355-600	0.64	2.58	10.31	16.10	23.19
SIBOL-100-355-900	2.62	10.49	41.97	65.58	94.44
SIBOL-100-355-1200	2.86	11.42	45.69	71.39	102.80
SIBOL-100-355-1500	2.88	11.52	46.08	72.00	103.68
SIBOL-100-400-300	0.98	3.91	15.63	24.42	35.16
SIBOL-100-400-600	1.44	5.76	23.04	36.00	51.84
SIBOL-100-400-900	2.16	8.64	34.56	54.00	77.76
SIBOL-100-400-1200	2.39	9.57	38.28	59.82	86.14
SIBOL-100-400-1500	2.90	11.61	46.43	72.54	104.46
SIBOL-100-450-300	1.00	3.99	15.97	24.96	35.94
SIBOL-100-450-600	1.46	5.85	23.39	36.54	52.62
SIBOL-100-450-900	2.18	8.73	34.91	54.54	78.54
SIBOL-100-450-1200	2.41	9.66	38.63	60.36	86.92
SIBOL-100-450-1500	2.71	10.84	43.35	67.73	97.54

Description	Pressure loss [Pa] at air flow velocity [m/s]				
	2	4	8	10	12
SIBOL-100-500-300	0.81	3.22	12.90	20.15	29.02
SIBOL-100-500-600	1.27	5.08	20.31	31.73	45.70
SIBOL-100-500-900	1.99	7.96	31.83	49.74	71.63
SIBOL-100-500-1200	2.22	8.89	35.55	55.55	80.00
SIBOL-100-500-1500	2.64	10.56	42.24	66.00	95.04
SIBOL-100-560-300	0.74	2.95	11.79	18.42	26.52
SIBOL-100-560-600	1.20	4.80	19.20	30.00	43.20
SIBOL-100-560-900	1.92	7.68	30.72	48.00	69.12
SIBOL-100-560-1200	2.15	8.61	34.44	53.82	77.50
SIBOL-100-560-1500	2.38	9.51	38.03	59.42	85.56
SIBOL-100-600-300	0.47	1.89	7.58	11.84	17.05
SIBOL-100-600-600	0.94	3.75	14.99	23.42	33.72
SIBOL-100-600-900	1.66	6.62	26.50	41.40	59.62
SIBOL-100-600-1200	1.89	7.56	30.23	47.24	68.02
SIBOL-100-600-1500	2.29	9.15	36.61	57.20	82.37
SIBOL-100-630-300	0.38	1.54	6.16	9.62	13.85
SIBOL-100-630-600	0.85	3.39	13.57	21.20	30.53
SIBOL-100-630-900	1.57	6.27	25.08	39.18	56.42
SIBOL-100-630-1200	1.80	7.20	28.81	45.02	64.83
SIBOL-100-630-1500	2.07	8.28	33.12	51.74	74.51
SIBOL-100-710-300	0.17	0.67	2.66	4.16	6.00
SIBOL-100-710-600	0.63	2.52	10.08	15.74	22.67
SIBOL-100-710-900	1.35	5.40	21.58	33.72	48.56
SIBOL-100-710-1200	1.58	6.33	25.32	39.56	56.97
SIBOL-100-710-1500	1.79	7.16	28.63	44.74	64.43
SIBOL-100-800-300	-0.11	-0.45	-1.82	-2.84	-4.09
SIBOL-100-800-600	0.35	1.40	5.59	8.74	12.59
SIBOL-100-800-900	1.07	4.28	17.13	26.76	38.53
SIBOL-100-800-1200	1.30	5.21	20.84	32.56	46.89
SIBOL-100-800-1500	1.39	5.56	22.23	34.73	50.01
SIBOL-100-1000-300	-0.51	-2.06	-8.23	-12.85	-18.51
SIBOL-100-1000-600	-0.05	-0.20	-0.81	-1.27	-1.83
SIBOL-100-1000-900	0.67	2.68	10.71	16.74	24.11
SIBOL-100-1000-1200	0.90	3.61	14.43	22.55	32.47
SIBOL-100-1000-1500	0.72	2.88	11.52	18.00	25.92

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