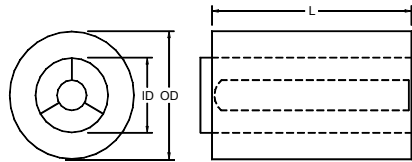


Availability

Diameters from 12 to 60 inches, in 2-inch increments.
Custom lengths available.



CSF-HV-L30

Circular, Straight, Fiber-Filled,
High Velocity Sounpak®
Silencer

Table 1: Insertion Loss

ID (in)	OD (in)	Length (in)	Face Velocity (fpm)	Insertion Loss (dB)							
				63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
12	20	32	-4000	8	6	18	35	36	37	21	16
			0	3	4	18	31	32	35	22	14
			4000	4	6	14	22	30	34	19	12
24	32	48	-4000	6	6	17	31	34	27	15	12
			0	5	7	16	28	35	26	18	13
			4000	8	6	18	31	34	26	15	13
36	44	72	-4000	5	5	16	28	33	26	18	13
			0	5	6	14	22	31	23	17	14
			4000	5	6	15	20	29	25	17	14
48	56	96	-4000	12	11	19	35	31	22	15	15
			0	7	9	19	33	27	22	16	14
			4000	8	10	16	27	25	23	15	12
60	68	120	-4000	12	14	20	35	31	20	12	12
			0	13	13	22	37	31	21	10	14
			4000	9	13	21	32	30	21	12	13

Note that ASTM inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63Hz band, and 3 dB for all other frequencies. Data in parenthesis () may be greater than shown due to limitations in laboratory equipment and/or facilities. Length equal to 2 times the diameter or 32 inches, whichever is longer.

Table 2: Airflow Generated Sound Power

ID (in)	Face Velocity (fpm)	Airflow Generated Sound Power Level (dB)							
		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
24	-4000	69	64	65	65	63	61	55	55
	-2000	67	55	53	48	49	38	31	32
	2000	63	55	47	48	51	46	38	31
	4000	71	64	61	61	64	64	62	55

Note that ASTM inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63Hz band, and 3 dB for all other frequencies. Data in parenthesis () may be less than shown due to limitations in laboratory equipment.

Table 3: Face Area Adjustment Factor

Silencer Diameter (in)						
12	18	24	34	48	68	96
-6	-3	0	+3	+6	+9	+12

Look up silencer cross-sectional area in table. Add adjustment to each octave band airflow generated sound power level from Table 2.

Table 4: Pressure Loss

ID (in)	Weight (lbs)	Loss Coefficient	Dynamic Pressure Loss (in wg)					
			Face Velocity (fpm)					
			1000	2000	3000	4000	5000	6000
12	60	0.25	0.02	0.06	0.14	0.25	0.39	0.56
12 T	65	0.21	0.01	0.05	0.12	0.21	0.33	0.47
24	155	0.25	0.02	0.06	0.14	0.25	0.39	0.56
24 T	165	0.21	0.01	0.05	0.12	0.21	0.33	0.47
36	330	0.25	0.02	0.06	0.14	0.25	0.39	0.56
36 T	350	0.21	0.01	0.05	0.12	0.21	0.33	0.47
48	630	0.25	0.02	0.06	0.14	0.25	0.39	0.56
48 T	675	0.21	0.01	0.05	0.12	0.21	0.33	0.47
60	1220	0.25	0.02	0.06	0.14	0.25	0.39	0.56
60 T	1285	0.21	0.01	0.05	0.12	0.21	0.33	0.47

Notes: T denotes silencer with tail cone. Weights rounded up to nearest 5 lbs. Shaded regions represent a design condition that may have negative consequences for acoustically sensitive applications.