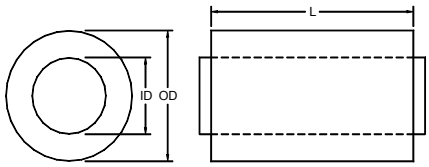
CSF-HV-L44

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



Availability
Diameters from 3 to 26 inches, in 1-inch increments; 26 to 60 inches, in 2-inch increments. Custom lengths available.

Table 1: Insertion Loss

ID (in)	OD (in)	Length (in)	Face Velocity (fpm)	Insertion Loss (dB)							
				63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
6	18	18	- 5000	9	10	18	34	24	20	11	9
			0	9	8	19	32	24	22	11	9
			5000	6	7	17	29	23	21	12	9
12	24	36	- 5000	7	9	17	27	28	16	10	8
			0	7	8	16	25	28	16	11	12
			5000	6	7	14	23	27	16	13	10
18	30	54	- 5000	7	11	22	32	25	16	13	14
			0	7	10	22	30	25	17	14	13
			5000	6	9	19	27	25	18	14	13
24	36	72	- 5000	14	11	22	39	23	18	14	14
			0	12	10	22	37	22	18	15	14
			5000	12	10	18	32	23	18	16	14
36	52	126	- 5000	16	18	27	45	14	13	11	13
			0	14	16	28	42	13	13	12	13
			5000	14	16	22	37	14	13	13	13
48	64	168	- 5000	16	19	26	36	10	10	7	8
			0	14	17	27	34	10	10	8	8
			5000	14	17	21	30	10	10	9	8

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. For diameters from 3 to 30 in., length equal to 3 times the diameter or 18 inches, whichever is longer. For diameters greater than 30 inches, length equal to 3.5 times the diameter.

Airflow Generated Sound Power

This silencer does not have internal components that would cause generated noise. The results of laboratory testing indicate indiscernible differences between the noise generated by the silencer and the noise generated by the connecting duct.

Table 2: Pressure Loss

ID (in)	Weight (lbs)	Loss Coefficient	Dynamic Pressure Loss (in wg)				
			Face Velocity (fpm)				
			1000	2000	3000	4000	5000
3	20	0.039	0.00	0.01	0.02	0.04	0.06
6	30	0.024	0.00	0.01	0.01	0.02	0.04
12	75	0.017	0.00	0.00	0.01	0.02	0.03
18	150	0.014	0.00	0.00	0.01	0.01	0.02
24	235	0.012	0.00	0.00	0.01	0.01	0.02
36	800	0.010	0.00	0.00	0.01	0.01	0.02
48	1355	0.010	0.00	0.00	0.01	0.01	0.02
60	2015	0.010	0.00	0.00	0.01	0.01	0.02

Note: Shaded regions represent a design condition that may have negative consequences for acoustically sensitive applications.