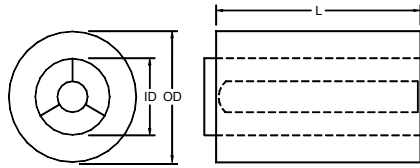


Availability

Diameters from 12 to 60 inches, in 2-inch increments. Standard lengths shown in Table 1. Custom lengths also available.



CSF-MV-L55

Circular, Straight, Fiber-Filled,
Medium 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	24	36	- 2500	14	19	32	39	39	38	29	22
			0	13	16	28	36	48	46	27	23
			2000	11	14	26	31	37	37	29	23
24	40	48	- 2500	11	19	26	33	39	37	20	14
			0	9	17	23	32	41	39	24	19
			2500	6	15	20	29	39	38	27	24
36	52	72	- 2500	13	22	29	34	42	31	21	17
			0	12	20	27	33	43	31	19	17
			2500	10	16	24	29	39	32	22	17

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 36 inches, whichever is longer.

Table 2: Airflow Generated Sound Power

ID (inches)	Face Velocity (fpm)	Airflow Generated Sound Power Level (dB)							
		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
24	-2500	72	64	63	66	62	59	55	54
	-1000	66	54	52	48	50	37	31	31
	1000	62	53	47	48	50	44	38	31
	2500	73	67	60	61	63	63	61	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)					
			250	500	1000	1500	2000	2500
12	85	1.21	0.00	0.02	0.08	0.17	0.30	0.47
12 T	90	0.94	0.00	0.01	0.06	0.13	0.23	0.37
24	280	1.21	0.00	0.02	0.08	0.17	0.30	0.47
24 T	290	0.94	0.00	0.01	0.06	0.13	0.23	0.37
36	575	1.21	0.00	0.02	0.08	0.17	0.30	0.47
36 T	630	0.94	0.00	0.01	0.06	0.13	0.23	0.37

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.