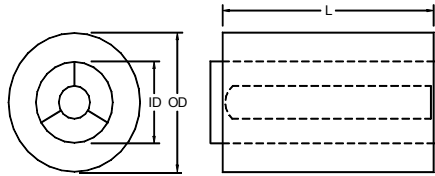


## Availability

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



## CSF-MV-L45

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	20	32	-2500	5	10	26	31	32	35	35	28
			0	4	8	23	35	33	36	36	30
			2500	4	5	17	35	37	38	35	27
24	32	48	-2500	7	9	26	33	37	38	25	17
			0	6	10	21	34	37	39	28	18
			2500	4	9	21	34	39	39	26	22
36	44	72	-2500	9	15	27	36	33	31	22	16
			0	10	13	25	39	37	32	26	18
			2500	10	11	22	41	39	33	25	19
48	56	96	-2500	10	17	27	35	33	24	15	16
			0	10	14	25	39	34	24	21	18
			2500	10	12	22	39	38	27	23	18
60	68	120	-2500	11	19	31	36	29	20	13	15
			0	11	17	29	40	31	21	18	16
			2500	11	13	26	41	33	24	21	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 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	-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)					
			500	1000	1500	2000	2500	3000
12	65	0.98	0.02	0.06	0.14	0.24	0.38	0.55
12 T	70	0.64	0.01	0.04	0.09	0.16	0.25	0.36
24	170	0.98	0.02	0.06	0.14	0.24	0.38	0.55
24 T	195	0.64	0.01	0.04	0.09	0.16	0.25	0.36
36	370	0.98	0.02	0.06	0.14	0.24	0.38	0.55
36 T	425	0.64	0.01	0.04	0.09	0.16	0.25	0.36
48	755	0.98	0.02	0.06	0.14	0.24	0.38	0.55
48 T	870	0.64	0.01	0.04	0.09	0.16	0.25	0.36
60	1505	0.98	0.02	0.06	0.14	0.24	0.38	0.55
60 T	1710	0.64	0.01	0.04	0.09	0.16	0.25	0.36

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.