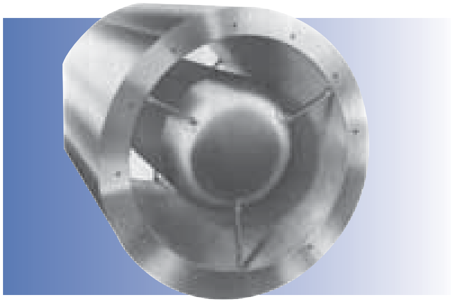


MCA
MCPA

Circular attenuators

MCA and MCPA circular attenuators are products with top level acoustic performances, great manufacturing features and low pressure drops.
They are suitable for installation on circular ducts in conditioning and ventilation systems or directly on axial fans.
There are two different models for these attenuators:

- **MCA** without central core, length equal to diameters (respect. MCA-1D or MCA 2D)
- **MCPA** with central core, length equal to one or two diameters (respect. MCPA-1D o MCPA-2D).

Attenuator models with core have a higher noise attenuation capacity compared to the models without core. Standard production is in galvanized steel sheet; the acoustic insulation material is made of special mineral fiber protected by perforated sheet.
There are threaded inserts on the heads for installation on the flanges of the ducts.
On request we can make special models in aluminium or stainless steel, fitted with a protective polyester membrane.

Applications MCA - MCPA circular attenuators can be applied on the circular ducts of civil and industrial conditioning and ventilation systems; another specific application foresees installation on swirl fans of “roof-top” condensation sets.
They are an almost necessary feature for ducted axial fans.

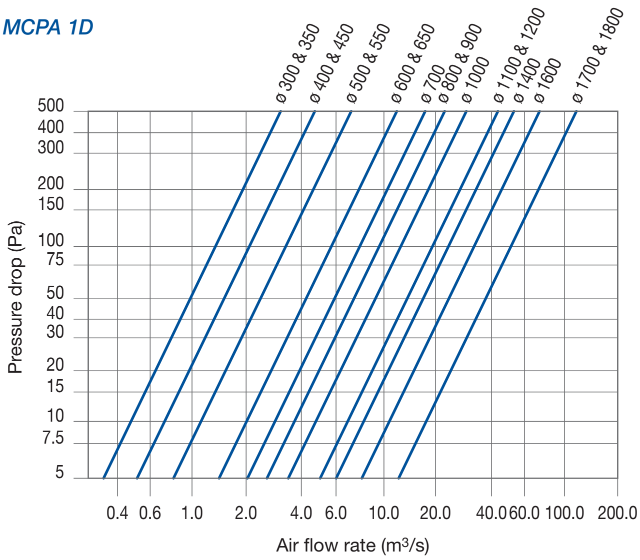
Installation They are installed by using the threaded inserts on the two heads, in line with the duct flange. Installation operations are fast and easy.

Acoustic performances

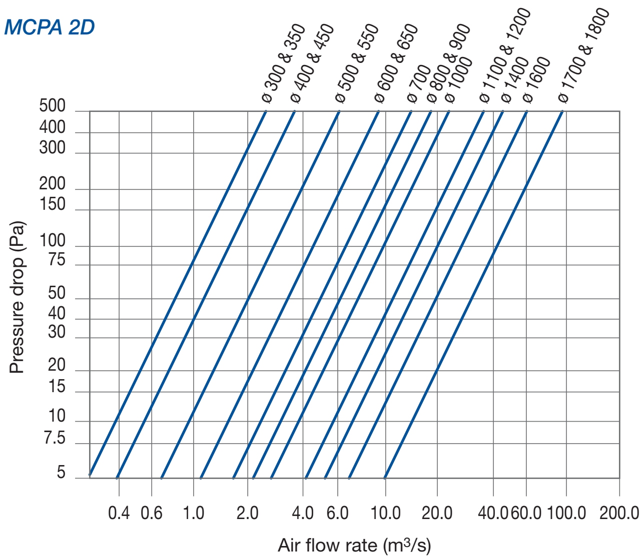
Nominal diameter (mm)	Model	Length	octave (Hz) 63	125	250	500	1 k	2 k	4 k	8 k
			Dynamic inserction loss (dB)							
from 300 to 500	MCA	1 D	2	4	6	10	14	10	8	7
		2 D	4	7	11	17	21	17	13	12
	MCPA	1 D	4	6	8	12	18	19	16	14
		2 D	7	10	15	21	26	26	24	22
from 600 to 900	MCA	1 D	3	4	8	14	14	9	8	7
		2 D	6	8	13	22	22	14	13	9
	MCPA	1 D	4	6	9	17	23	20	18	11
		2 D	8	11	16	27	32	32	29	19
from 1000 to 1400	MCA	1 D	3	4	9	14	12	8	7	7
		2 D	6	8	13	21	18	12	11	10
	MCPA	1 D	4	6	11	20	19	15	13	11
		2 D	8	11	19	26	27	26	22	17
from 1600 to 1800	MCA	1 D	4	5	10	14	11	7	6	6
		2 D	8	9	14	20	17	11	10	9
	MCPA	1 D	5	7	12	19	18	13	11	9
		2 D	10	14	22	25	27	25	16	15

Pressure loss

MCPA 1D



MCPA 2D

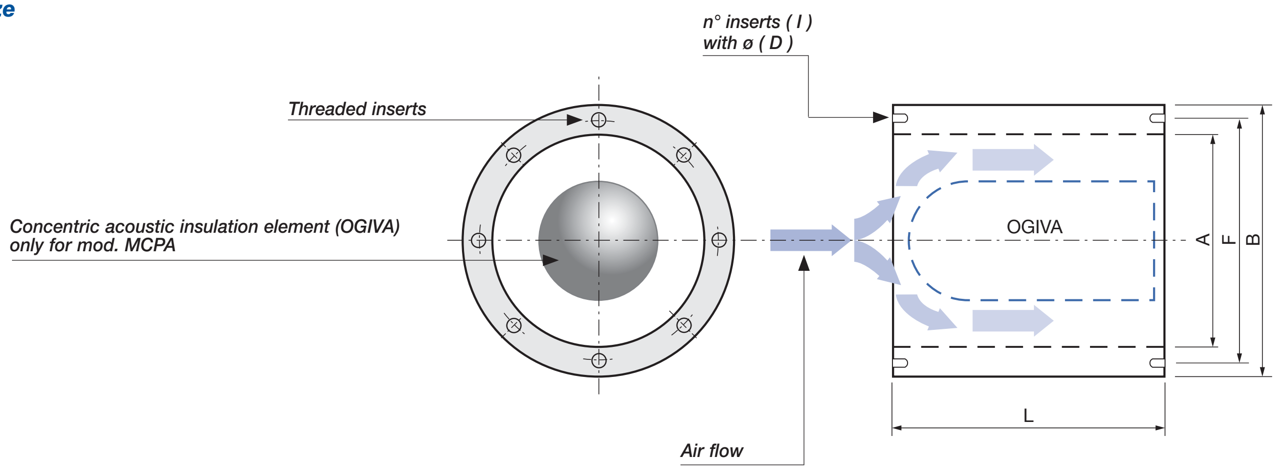


N.B. The pressure drop value is considered only for MCPA models, because MCA models present minimal resistance

MCA - MCPA

circular attenuators

Size



Nominal diameter (mm)	Dimensions (mm)							Weight (Kg) MCA		Weight (Kg) MCPA	
	A	B	F	I	ø D	L 1D	L 2D	1 D	2 D	1 D	2 D
300	310	510	340	8	M8	300	600	10	18	13	21
350	360	560	410	8	M8	350	700	13	23	17	28
400	410	610	440	8	M10	400	800	16	29	21	35
450	460	660	510	8	M10	450	900	19	35	25	42
500	510	710	560	12	M10	500	1000	23	40	28	50
600	610	810	660	12	M10	600	1200	29	52	36	64
700	710	910	760	16	M10	700	1400	35	63	44	78
800	810	1010	860	16	M10	800	1600	43	79	56	101
900	910	1110	960	16	M12	900	1800	75	144	96	182
1000	1010	1210	1060	16	M12	1000	2000	107	208	136	263
1100	1110	1310	1170	20	M12	1100	2200	139	273	176	344
1200	1210	1410	1270	20	M12	1200	2400	171	337	216	425
1300	1310	1510	1370	20	M12	1300	2600	203	402	256	506
1400	1410	1610	1470	20	M12	1400	2800	234	466	295	586
1500	1510	1710	1570	24	M12	1500	3000	266	531	335	667
1600	1610	1810	1670	24	M12	1600	3200	298	595	375	748
1700	1710	1910	1770	24	M12	1700	3400	330	660	415	829
1800	1810	2010	1870	24	M12	1800	3600	362	724	455	910

Special models

Aluminium, stainless steel or with protective membrane CAVILEN - MELINEX