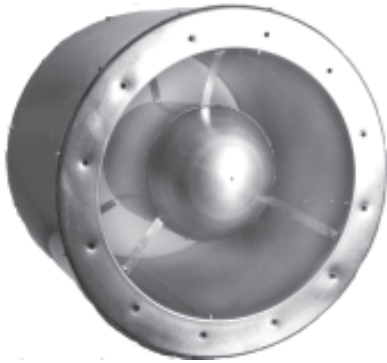


**APPLICATIONS**

For installation within air conditioning or ventilation ductwork systems to reduce the transmission of airborne ducted noise. Attenuators of 315 dia and above can be directly connected to axial flow fans. Attenuators from 100 dia to 400 dia are particularly suitable for terminal equipment or crosstalk applications.

**SIZE RANGE**

Diameter :From 100mm to 1000mm in a multitude of metric increments  
 Length :625, 925, 1225 for spigotted units  
 :One or two diameter for flanged units



**Flanged Type**



**Spigotted Type**

**CONSTRUCTION**

Model codes are used to define the specific constructional properties of each product. The coding system operates as follows:

*PRIMARY CODE / OPTIONAL FEATURES / OPTIONAL EXTRAS*

The coding definitions for CDA are as follows:

*PRIMARY CODE:*

- CDA** - galvanised sheet steel casing with lock formed joints
- internal liners and central pod (where applicable) faced with perforated or XPM sheet steel
- controlled density mineral wool infill with tissue facing to reduce fibre egress

*OPTIONAL FEATURES*

Casing pressure and leakage options:

- 1** - DW/TM1 Class B leakage and upto +1000 / -750 Pa pressure rating

Casing end connection options:

- E** - end spinning connections with threaded inserts from 315mm diameter upwards
- P** - plain spigot end connections (or flanged type units with spigot adaptors)

Central pod options:

- U** - unpodded straight through attenuator
- C** - central internal pod fitted within attenuator

*OPTIONAL EXTRAS*

- M** - melinex wrapped infill for grease, diluted chemical or moisture laden air and also to ensure zero fibre egress for hospital applications
- W** - wrapped casing ends with polythene to prevent ingress of rubble on site
- X** - denotes special optional extra as shown overleaf

*EXAMPLE CODING*

**CDA / 1EC / MW**

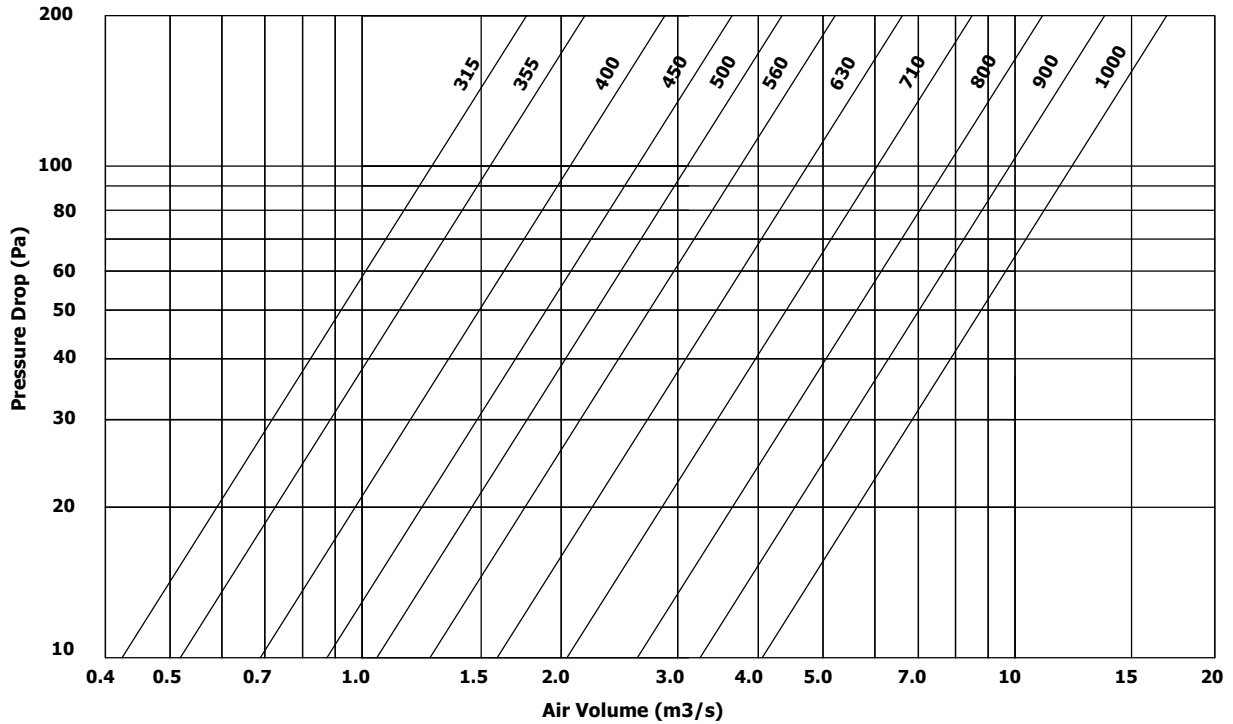
**SPECIAL OPTIONAL EXTRAS**

The following special optional extras are available if required:

- Internal and external paint finishes for chemical resistance, weatherability, corrosion protection etc.
- PVC or Polypropylene construction for varying degrees of chemical resistance with GRP reinforcement where required
- Stainless steel construction for chemical resistance or high temperature applications
- Welded construction for high pressure applications

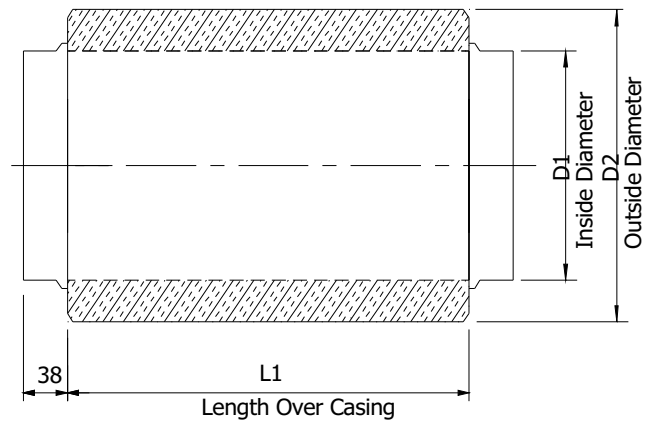
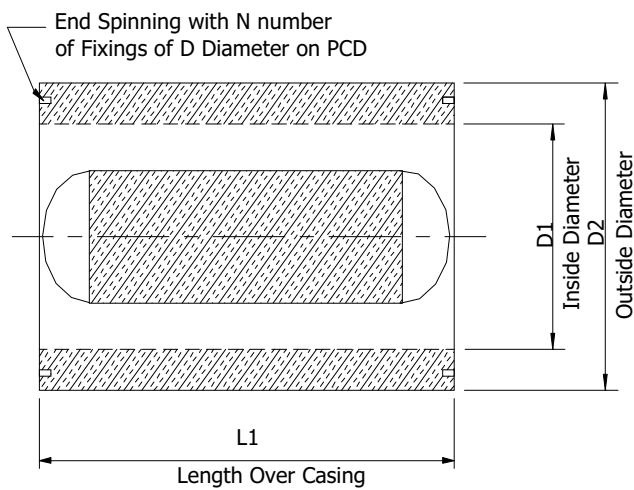
**AERODYNAMIC PRESSURE LOSS**

Pressure losses for podded attenuators are shown below. For unpodded units, pressure drop is negligible. Pressure losses are quoted in accordance with BS848 Part 2. Substantial increases may occur where turbulent conditions exist.



**Flanged Type Circular Attenuator**

**Spigot Type Circular Attenuator**



**Flanged Type Circular Attenuator**

Internal Diameter	External Diameter	Pod O D	Length	Octave Band Static Insertion Loss(dB)								Weight (kg)	End Drilling Details		
				63	125	250	500	1k	2k	4k	8k		N	D	P.C.D
315	465	N/A	315	1	2	4	9	11	10	9	7	9	8	M8	355
			630	2	2	5	13	18	12	11	10	15			
315	465	170	315	2	7	8	14	22	25	22	19	11	8	M8	355
			630	3	13	14	23	30	30	28	25	17			
355	505	N/A	355	2	3	5	11	13	11	10	8	11	8	M8	395
			710	3	4	7	14	18	15	11	10	18			
355	505	170	355	2	6	8	11	22	24	21	16	13	8	M8	395
			710	3	10	15	22	29	30	29	22	21			
400	550	N/A	400	2	3	5	10	13	11	9	8	13	8	M10	450
			800	3	4	8	14	18	14	11	9	22			
400	550	210	400	2	7	9	15	23	25	21	17	16	8	M10	450
			800	3	10	14	24	30	29	28	21	26			
450	600	N/A	450	2	3	6	12	13	11	9	7	15	8	M10	500
			900	3	4	8	17	18	15	11	10	27			
450	600	210	450	2	6	8	16	23	23	21	16	18	8	M10	500
			900	3	7	12	22	29	29	25	20	31			
500	650	N/A	500	2	3	6	14	14	12	10	5	18	12	M10	560
			1000	3	7	8	19	20	17	14	11	22			
500	650	265	500	2	7	9	17	24	24	20	16	22	12	M10	560
			1000	4	10	16	26	29	29	29	20	37			
560	710	N/A	560	2	4	7	14	14	9	9	7	22	12	M10	620
			1120	3	6	10	19	20	14	12	10	39			
560	710	265	560	3	7	9	18	24	24	20	15	26	12	M10	620
			1120	4	9	17	27	29	28	23	23	46			
630	780	N/A	630	2	5	7	15	13	9	9	8	26	12	M10	690
			1260	4	7	13	21	21	14	13	12	48			
630	780	315	630	3	5	9	18	25	22	18	13	32	12	M10	690
			1260	5	9	18	28	30	29	24	19	57			
710	860	N/A	710	3	5	9	15	14	10	9	8	32	16	M10	770
			1420	4	9	16	22	23	17	13	9	59			
710	860	365	710	3	5	10	19	25	22	18	14	39	16	M10	770
			1420	5	9	17	28	29	30	26	20	71			
800	950	N/A	800	3	5	9	16	14	10	8	8	40	16	M10	860
			1600	4	6	10	21	23	17	12	10	74			
800	950	365	800	4	5	10	15	25	22	19	14	49	16	M10	860
			1600	5	8	18	29	30	29	27	19	90			
900	1100	N/A	900	3	5	10	17	15	11	9	8	55	16	M12	970
			1800	4	6	13	22	21	14	12	11	102			
900	1100	420	900	5	6	11	21	23	22	17	13	67	16	M12	970
			1800	5	11	18	29	30	26	19	16	123			
1000	1200	N/A	1000	4	6	11	17	15	11	9	8	66	16	M12	1070
			2000	5	10	16	23	23	16	13	11	124			
1000	1200	500	1000	5	6	13	22	25	21	17	14	82	16	M12	1070
			2000	5	10	19	29	30	27	22	18	151			

**Spigotted Type Circular Attenuator**

Internal Diameter	External Diameter	Length	Octave Band Static Insertion Loss(dB)								Weight (kg)
			63	125	250	500	1k	2k	4k	8k	
100	200	625	2	2	4	18	30	27	22	14	5
		925	2	4	5	22	34	29	25	16	7
		1225	2	5	7	27	37	32	28	19	9
125	225	625	2	2	4	18	30	27	22	14	5
		925	2	4	5	22	34	29	25	16	8
		1225	2	5	7	27	37	32	28	19	10
150	250	625	2	2	4	16	28	25	22	14	6
		925	2	4	5	21	32	29	23	15	9
		1225	2	5	7	25	35	29	26	18	12
160	260	625	2	2	4	16	28	25	22	14	6
		925	2	4	5	21	32	27	23	15	9
		1225	2	5	7	25	35	29	26	18	12
200	300	625	2	2	4	15	26	19	19	13	8
		925	2	4	6	19	29	23	21	14	11
		1225	2	5	7	22	32	26	24	17	15
250	350	625	2	2	4	13	22	14	14	11	9
		925	2	4	6	16	26	19	17	13	13
		1225	2	5	7	19	31	22	20	16	17
300	400	625	2	2	5	12	19	13	12	9	11
		925	2	4	6	15	24	17	15	12	15
		1225	2	5	7	18	30	20	18	15	20
315	415	625	2	2	5	12	17	12	11	9	11
		925	3	4	7	14	23	16	14	12	16
		1225	3	5	8	17	29	19	17	15	21
355	455	625	2	3	5	12	16	12	11	9	12
		925	3	5	7	15	23	15	14	12	18
		1225	3	5	8	18	29	18	17	15	23
400	500	625	2	3	6	13	15	12	11	8	14
		925	3	5	7	17	22	15	13	11	20
		1225	3	6	9	20	28	18	16	14	26

**NOTES**

Static insertion losses shown represent typical performance data when the attenuator is directly connected to the discharge of an axial flow fan operating at the middle of its performance range. Attenuation can vary with certain intake conditions, and also in high volume and high temperature applications.

**Insertion Loss Correction Factors For Melinex**

Octave Band Static Insertion Loss(dB)							
63	125	250	500	1k	2k	4k	8k
1.0	1.0	0.95	0.85	0.8	0.65	0.55	0.5

Regenerated noise data is available on request