

SA125 "Multipath" or "Reactive" Spark Arresting Silencer

If you have any questions relating to this or any of our products, please do not hesitate to contact us.

General Specification

These silencers are designed on the reactive principle with twin chambers in which the exhaust gases are mixed and smoothed, thus absorbing a high proportion of the acoustic energy without causing excessive back pressure. The spark arresting section is designed on the vortex principle, and solid particles are separated from the gas deposited in the dust box. this can be cleaned out periodically depending on the amount of solid matter in the exhaust gases.

Construction

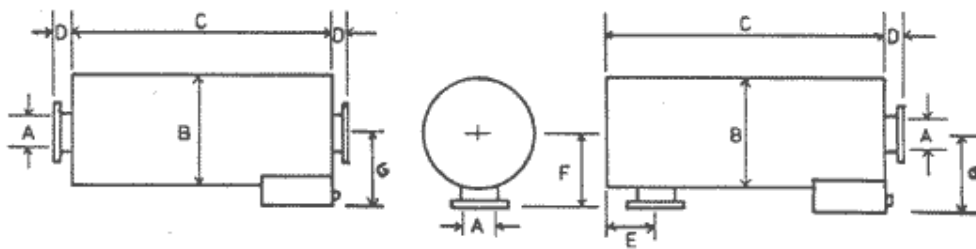
A cylindrical shell manufactured from heavy gauge sheet steel, fully welded. The end plates on 50 - 76mm nominal bore (2"-3") are from heavy steel pressings and for larger sizes these are manufactured from flat plate.

End Connectors

Unless otherwise specified, screwed BSP connectors will be supplied on 50mm - 76mm (2" -3") silencers and flanges to BS10 (Table D) on all larger sizes. Flanges to other standards can be supplied on special quotation.

Side Entry Silencers

If these are required, please specify SA 125(SE) when ordering.



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Nominal Bore (A)	Diameter (B)	Length (C)	(D)	(E)	(F)	(G)	Approx. weight (kilos)
50 (2")	254 (10")	813 (32")	38	63	165	165	18
64 (2½")	305 (12")	914 (36")	28	76	190	190	24
76 (3")	355 (14")	1000 (39")	50	102	229	229	32
89 (3½")	406 (16")	1000 (39")	76	127	279	279	43
100 (4")	406 (16")	1219 (48")	76	127	279	279	49
125 (5")	457 (18")	1473 (58")	76	152	305	305	68
150 (6")	559 (22")	1676 (66")	76	165	356	381	98
200 (8")	660 (26")	1981 (78")	76	190	406	457	150
250 (10")	762 (30")	2438 (96")	89	229	470	508	275
300 (12")	914 (36")	2819 (111")	89	254	546	610	465
350 (14")	1000 (39")	3048 (120")	89	292	597	660	570
400 (16")	1168 (46")	3581 (141")	89	318	673	737	825
450 (18")	1270 (50")	3942 (156")	102	343	737	838	1040
500 (20")	1372 (54")	4343 (171")	102	381	787	889	1300
550 (22")	1524 (60")	4724 (186")	152	325	914	991	
600 (24")	1676 (66")	5000 (197")	152	350	990	1088	

Note (i) Dimensions in millimetres

(ii) BSP Drain plug fitted at inlet end

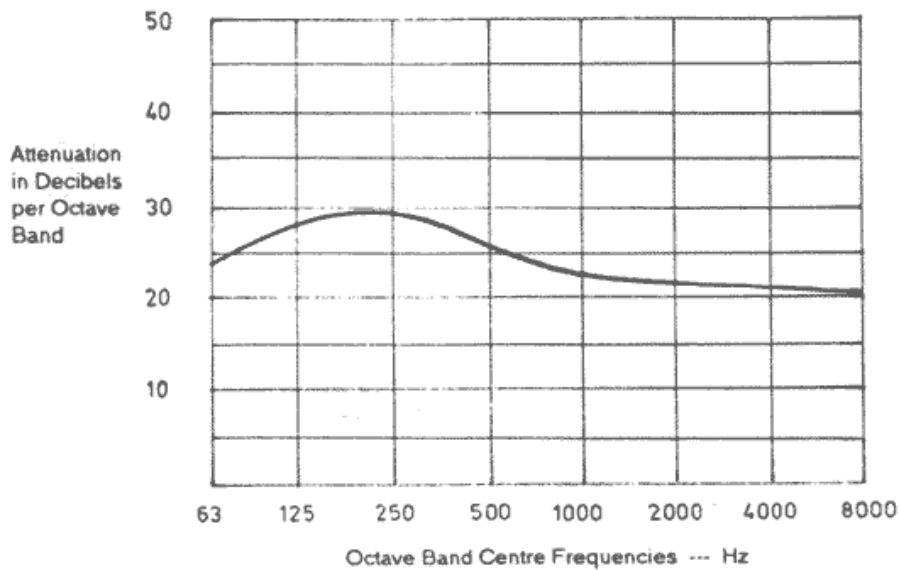
(iii) Dimension 'E' is a minimum distance

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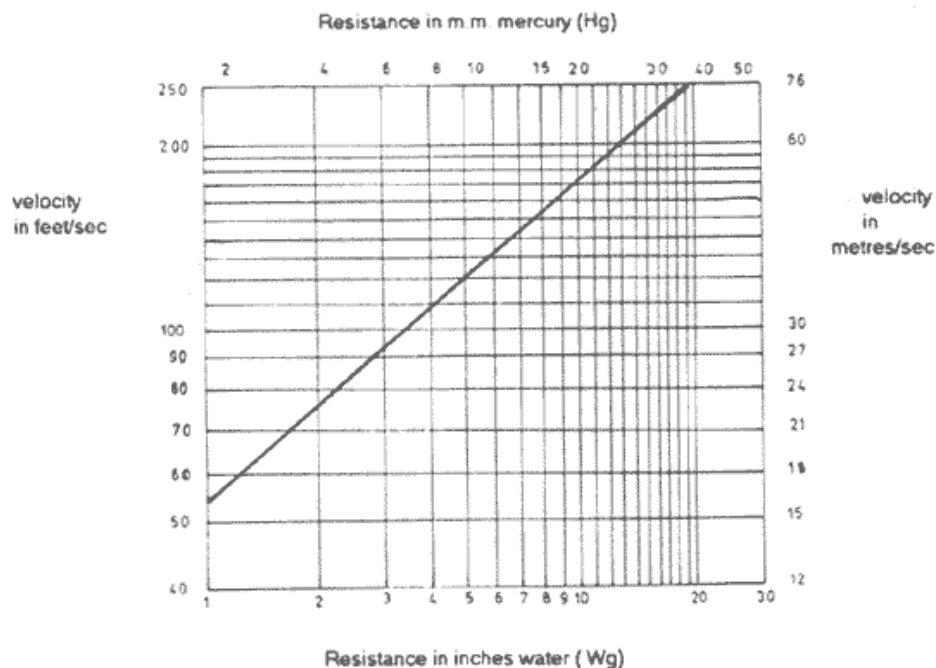
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Typical Noise Attenuation Graph



The above graph is based on simplified theoretical considerations and extrapolated from various noise tests. The actual noise reduction obtained on any particular installation will depend upon the power and type of the noise source, the local environment and the selection of the correct size of silencer for that engine.

Velocity / Resistance Graph



This graph is based on simplified theoretical considerations and is issued as a guide. The actual resistance experienced will depend on a number of factors affecting the individual installation.

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