



## Type DAD Reflection/absorption silencer

In those applications where installation space is limited and a high degree of silencing is required, the TIO silencer type DAD is the answer.

### Design

The design is a combination of reflection and absorption principle thus giving an excellent attenuation in all frequencies. The gasses expand through a diffusor pipe into a chamber and follow the absorption part of the silencer.

### Application

The TIO silencer type DAD can be installed in the exhausts of internal combustion engines, the discharge of blowers, blow-downs of air/gas etc., vacuum pumps and many other applications.

### Attenuation

Up to 35 dB(A).

The noise attenuation curve shows the attenuation in the middle frequencies. The shaded area shows the differences which probably appear due to the influence of temperature, back pressure and location of silencer and unsilenced noise level.

### Gasvelocity

Recommended: 35 - 50 m/sec.

### Pressure loss

The graphic shows approx. pressure drop across the silencer in relation to the gas velocity.

### Temperature

Maximum: 600° C.

Special designs are available for higher temperatures.

### Material

Standard – S235JRG2 - St37.2. Executions in stainless steel, Cor-Ten etc. are possible.

### Paint

One layer of zinc phosphate primer.

### Installation

The silencer type DAD may be installed vertically, horizontally or in any position close to the noise source. Supports can be welded on silencer body

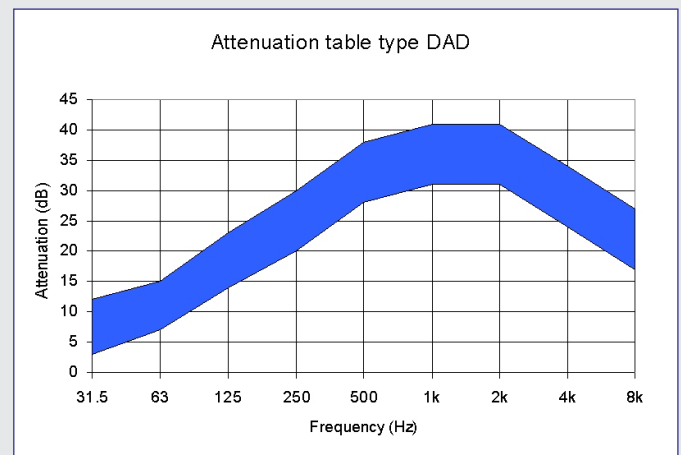
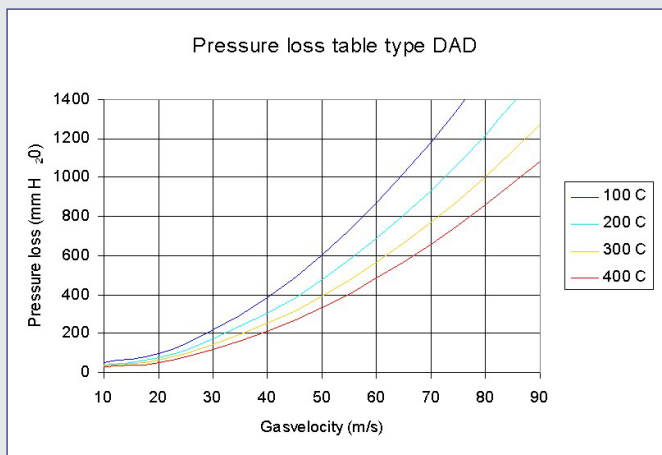
### Insulation

If a low body temperature of the silencer is required, thermal insulation is recommended. If the noise requirements are high, we also recommend acoustical insulation to lower the body transmitted noise.

### Special connection

For in- and outlet are special connections on request available.

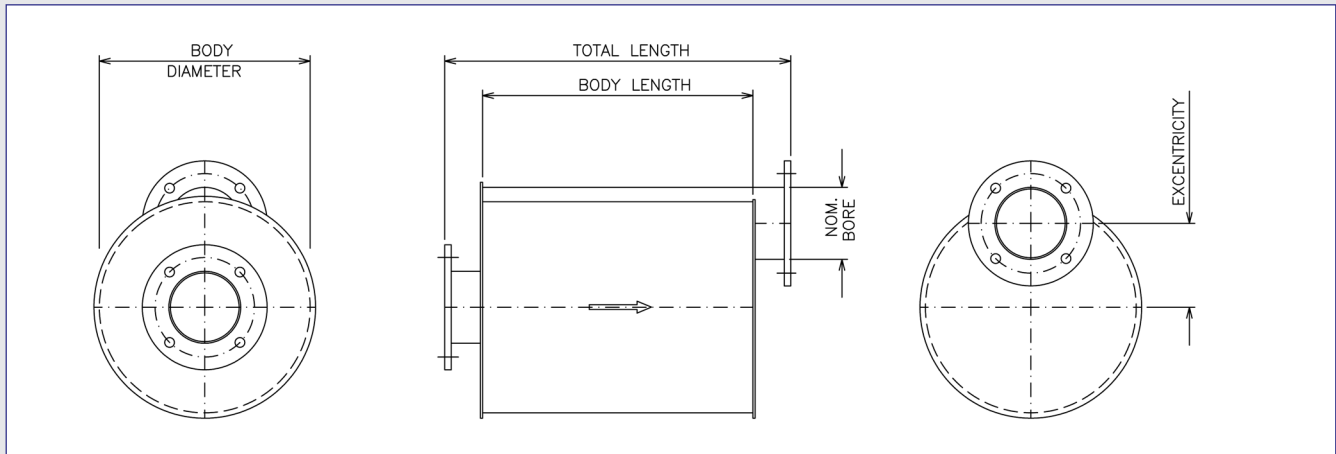
N.B. All TIO silencers can be combined with TIO spark arresters.



Parallelweg 9 2921 LE • PO box 701 2920 CA • Krimpen aan den IJssel The Netherlands  
 P +31 (0)180 514 055 • F +31 (0)180 517 264 • E info@tiobv.nl • www.tiobv.nl



## Type DAD Compact reflection/absorption silencer



### Executions with thread

Silencer type	Nominal bore	Body diameter	Body length	Total length	Excentricity
2"	50	240	200	290	73
2-1/2"	70	320	300	420	106
3"	80	320	300	420	106
3-1/2"	94	350	350	470	127
4"	100	371	400	530	126
5"	125	390	500	640	155
6"	150	480	600	750	185
7"	175	537	700	850	220
8"	200	570	750	900	250
9"	225	635	800	950	277
10"	250	700	850	1000	313
11"	275	750	1000	1200	338
12"	300	830	1000	1200	373
14"	350	930	1250	1450	408
15"	375	980	1300	1500	437
16"	400	1030	1400	1600	467
18"	450	1200	1600	1800	524
20"	500	1265	1800	2000	570
22"	550	1330	2000	2200	635
24"	600	1400	2200	2400	681