VENT SILENCERS
WITH MULTI-STAGE DIFFUSER

for safety valves / gate valves / control valves / by-pass / boiler / condenser / plant blowdown / pressure control...

Noise Reduction up to 50 dB
without absorbing materials

GLAUNACH GMBH
VENT SILENCERS
The gas flow expands through a diffuser pipe containing a specific number of small holes and – depending on the allowable pressure drop - further concentric expansion steps with an increasing number of holes. To avoid turbulence caused by these expansion steps, a flow-resistant stainless steel filler material is placed after the diffuser, which reduces the flow noise.

The diffuser silencer partially transfers the pressure drop of the valve to the silencer which makes it easier to attenuate the noise. With this design a noise reduction of up to 50 dB(A) can be achieved without the need of absorbing materials at the silencer outlet.

Only in case a higher noise reduction is required, or the allowed pressure drop of the silencer is very low, an additional absorber can be installed on top of the diffuser silencer. Glaunach’s combined silencers achieve almost any required noise reduction.

In comparison to standard absorbing silencers, this technology provides better noise attenuation in a substantially smaller and lighter design.
D
diffuser silencer

DA
diffuser silencer with acoustical and thermal shell insulation

DAA
combined silencer with diffuser and sound absorber

INLINE
diffuser silencer for closed systems

DUMP TUBE
for air cooled condensers

INLET MANIFOLD
collection of gas flows from two or more pipes
REFERENCES

AAF
ABB
Akzo Nobel
Alstom
Andritz
Babcock
BASF
Bopp & Reuther
CCI
Degussa
Dow Chemical
Electrabel
Emerson Process
Flowserve
Foster Wheeler
Hitachi
Kawasaki
Krupp Thyssen
KTI
Kvaerner
Lurgi
Merk
Mittal
Mitsubishi
MOL
Mondi
Nooter Eriksen
OMV Gas GmbH
Samson
Shell
Siemens
Snamprogetti
Solvay
Standardkessel
Stein Heurtey
Stora Enso
Sulzer
Technip
Uhde
Voest Alpine
Von Roll
Washington Group
Weir Valves

And more than 500 other happy customers

Our silencers are produced according to American and European codes and standards

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<th>AMERICA</th>
<th>EUROPE</th>
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<tr>
<td>Code / Guideline</td>
<td>ASME Section VIII Div.1; B31.1 NBEP</td>
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<td>Harmonized Standards</td>
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<td>Welder Performance Qualif.</td>
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<td>EN 287-1/ A1</td>
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<td>Welding Procedure Specification</td>
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<td>EN 288-3 / A1</td>
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<td>PED 97/23/EC Kat I,II,III</td>
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<td>ISO-EN 473 VT, PT, RT, MT, UT</td>
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<td>ASNT SNT-TC-1A-VT, PT, RT, MT, UT</td>
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<td>Primer Coating</td>
<td>SSPC-SP 10</td>
<td>Remosil OM 101 (ALTANA COATING)</td>
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<td>Top Coating</td>
<td>Carbozinc 11(CARBOLINE)</td>
<td>Remosil S ALU (ALTANA COATING)</td>
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<td>Thermaline 4700(CARBOLINE)</td>
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“quality is our success”