

BLOW-OFF SILENCER AFTER VALVES AND TANKS

SILENCERS | NOISE PROTECTION

Furtak 
Salvenmoser
INDUSTRIAL SILENCERS

VALVE OPERATION IS ONE OF MOST POWERFUL SOURCES OF NOISE IN LARGE-SCALE PROCESS PLANTS AND POWER PLANTS.

Single or periodic pulses (generated by expansion of highly compressible mediums like air, gases or steam) release acoustic energy through alternating vibrations. By this, **sound power levels up to 170 dB(A) can be reached.** We calculate the amount of emitted acoustic energy by the latest international standards and state-of-the-art computer modelling software.

MAIN RANGE OF USE:

- Valve and blow-off systems
- Start-up procedures of facilities
- Bypass of turbines
- Blow-off of various gases

FACILITIES:

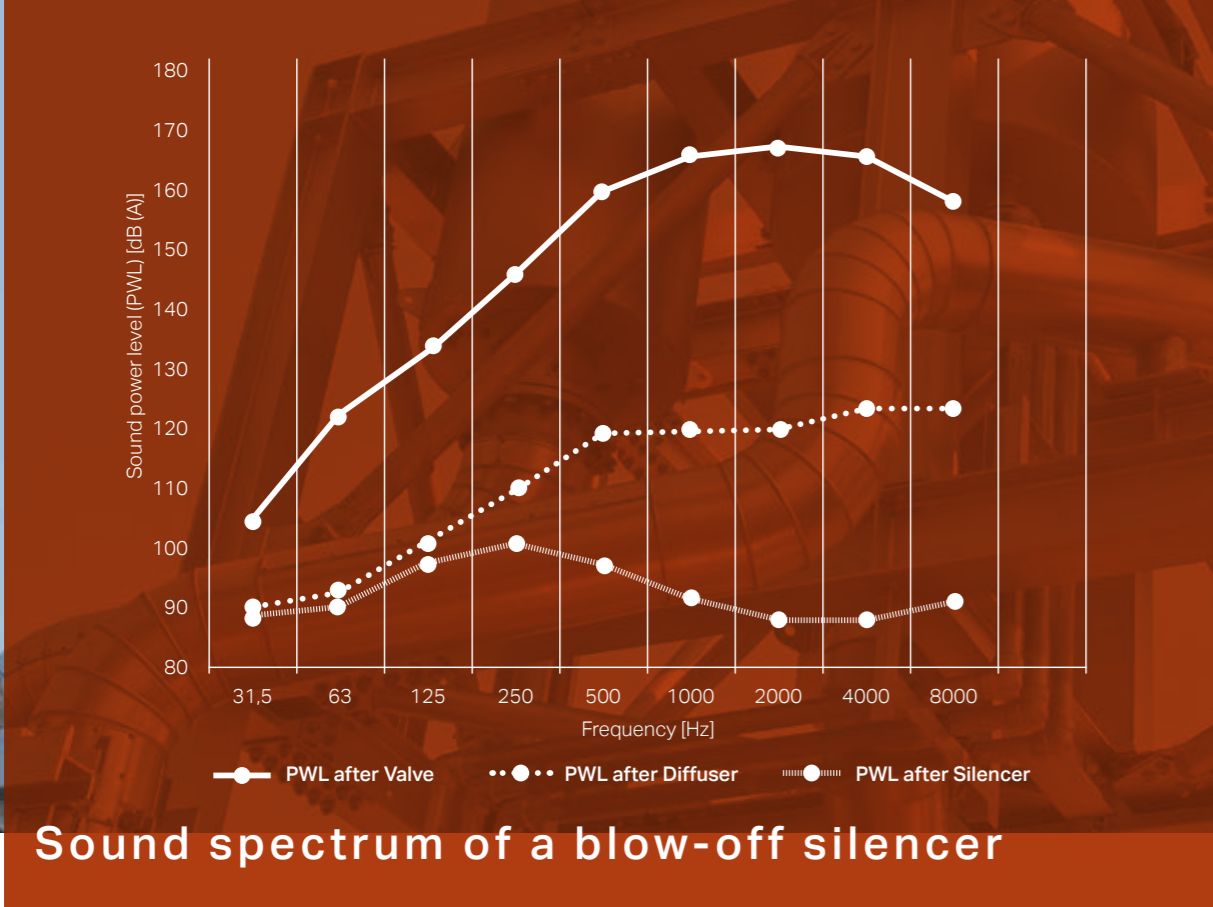
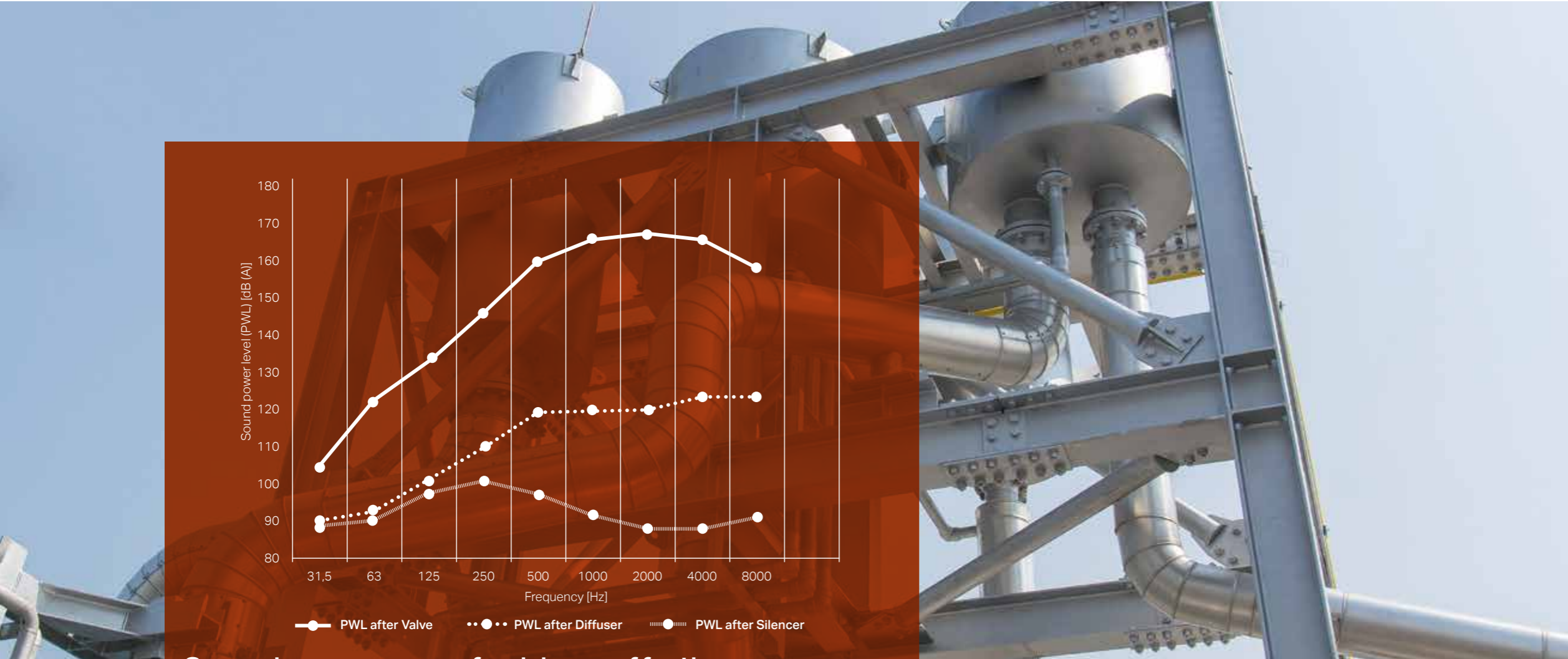
- Air separation plants
- Gas plants
- Power plants
- Chemical plants
- Petrochemical plants



Combination silencer systems – turns sound into energy.

BLOW-OFF SILENCER

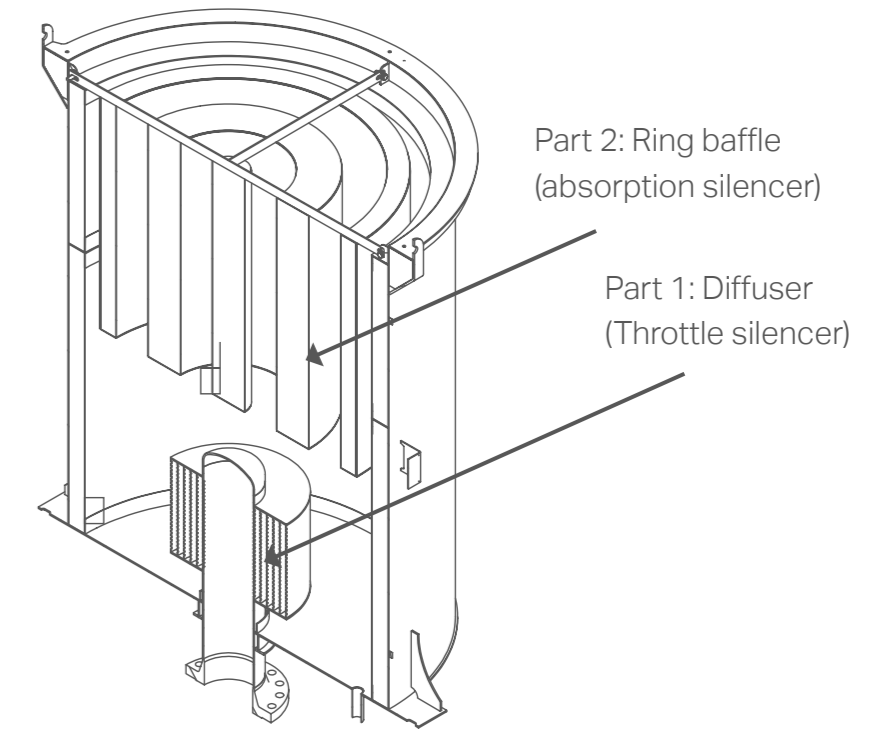




Sound spectrum of a blow-off silencer

BLOW-OFF SILENCERS ARE A COMBINATION OF TWO DIFFERENT WORKING PRINCIPLES (THROTTLE AND ABSORPTION).

While the throttle reduces the pulsations of streams by pressure compensation, **absorption converts the contained noise energy into thermal energy.** Using these two active acoustic principles, **sound power levels can be reduced by up to 70 dB.**



THROTTLE AND ABSORPTION PRINCIPLE



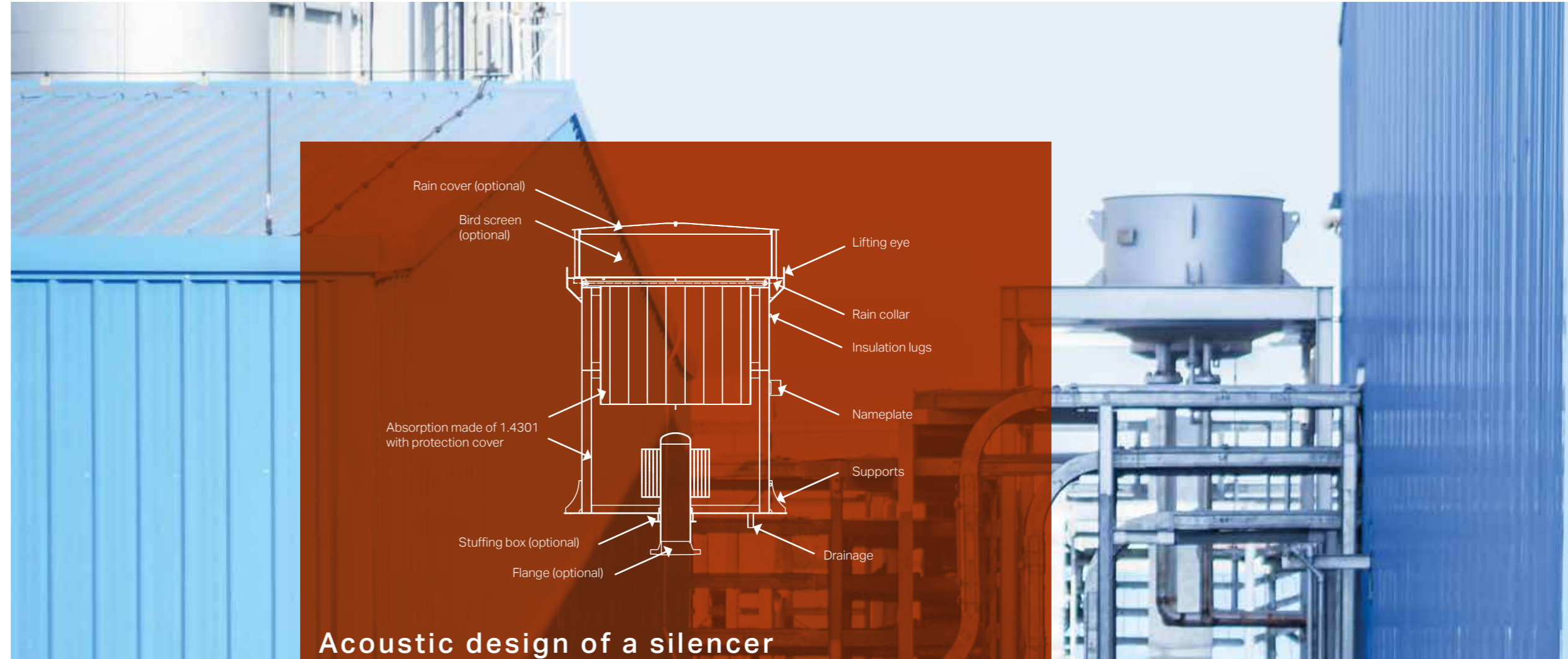
EVERY SILENCER IS CUSTOM BUILT FOR THE CUSTOMERS' REQUIREMENTS.

Our design is built for **longevity, high quality and efficiency**. All silencers are designed and calculated by 3D-software. Our customers' advantage: **Modern engineering and deployment of 3D data** to avoid possible collision and to enable the professional planning of supports and retainers.

Moreover, we are able to provide for up to **670°C steam thermal resistant materials** and for **deep temperatures high-alloy steel that can resist down to -196°C**.

FOR THE ACOUSTIC DESIGN, THE FOLLOWING PARAMETERS ARE DETERMINING FACTORS:

- acoustic requirements
- type of medium
- the valve pressure ratio
- required material and special components like stuffing box, roof, deflector, bird screen, measurement points etc.



INDIVIDUAL SILENCERS





Professional noise protection for industrial plants

The mechanic design of the components complies with the respective technical guidelines (AD2000, EN1335, ASME, ...) and following the Pressure Equipment Directive 2014/68/EU.

We at Furtak & Salvenmoser GmbH are specialised in the implementation of a wide range of technical guidelines, assuring that your components are compliant to current laws and up-to-date regulations.

We at Furtak & Salvenmoser GmbH are experts in blow-off silencers and equipment.

OUR SERVICES ARE TAILORED TO ALL CUSTOMER REQUIREMENTS AND INCORPORATE THE FOLLOWING KEY ASPECTS:

- design and conception
- 3D design and detailed engineering
- Project management and strength calculation
- Manufacturing
- Inspection and approval
- Transportation, packing, customs handling
- Onsite management

ACOUSTIC SOLUTIONS FOR EVERY INDUSTRIAL SECTOR



**PRODUCT PORTFOLIO FROM
FURTAK & SALVENMOSER GMBH:**

- 1 Enclosure
- 2 Air intake duct and Splitter
- 3 Flue gas Silencer for bypass
- 4 Pipe insulation and cladding
- 5 Inline Silencer
- 6 Flue gas Silencer for boiler (HRSG)
- 7 Blow-off Silencer after valves and tanks
- 8 Air inlet and exhaust silencer for ventilation systems

ONE-STOP SOLUTIONS





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