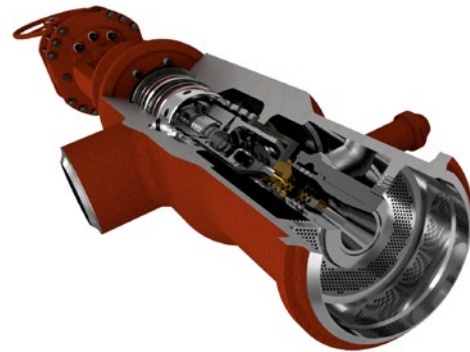




COPES-VULCAN®

NOISE ATTENUATION TRIM

MINIMIZE IMPACTS, IMPROVE EFFICIENCY



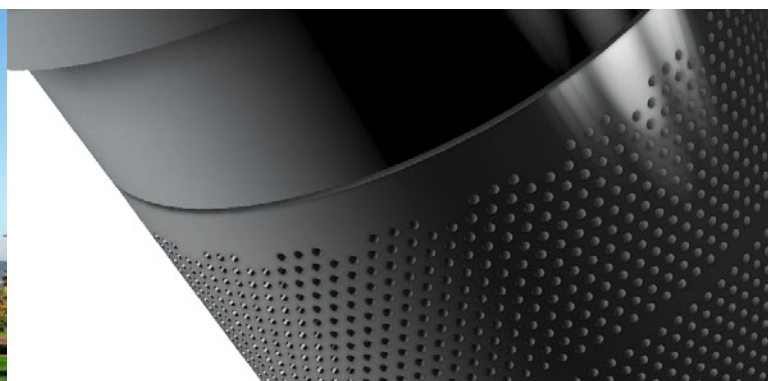
REDUCING NOISE IN URBAN POWER PLANT INSTALLATIONS

In today's dynamic power generation landscape, the integration of renewable energies, such as biomass and waste-to-energy, near populated areas raises environmental concerns about excessive noise emissions, which have the potential to disrupt host communities and ecosystems. Regulatory compliance is therefore a pressing issue for power plant operators, carrying potential financial and reputational consequences.

There are also compelling operational reasons for adopting a best practice approach to noise attenuation. Vibration, often a companion to high noise levels, can lead to equipment fatigue and compromise operational integrity, resulting in reduced overall efficiency and increasing the risk of critical failures which translates into higher operational costs for power plants.

To help minimize noise emissions in power plants, Celeros Flow Technology offers the Copes-Vulcan Noise Attenuation Trim. This Trim features an innovative design (patent pending) and is precision engineered to deliver advanced noise attenuation, superior control of vibration and optimized flow capacity.

The Noise Attenuation Trim is specifically designed for use with the Copes-Vulcan range of Direct Steam Conditioning Valve (DSCV-SA/SR). It offers power plant operators a practical and effective way to reduce noise without having to opt for high-end multi-stage trim designs.



WHY CHOOSE THE DSCV NOISE ATTENUATION TRIM?

The innovative design of the DSCV Noise Attenuation Trim prioritizes efficiency and noise attenuation, eliminating the need for a bulkier trim and a larger valve.

Its optimal flow pattern has been developed and tested using the latest digital modelling techniques. A specific expansion factor facilitates fluid expansion and finer velocity control, and the impact of thermal expansion is mitigated through meticulous materials specification.

As a result, the Noise Attenuation Trim provides outstanding noise attenuation while providing the capacity and control required for the application. The Trim will therefore perform better for longer: reducing maintenance, optimizing uptime, and lowering total cost of ownership.

There is no need to wait until it is time for a valve replacement to reap these benefits. The Noise Attenuation Trim uses a cartridge design that 'can be fitted into existing DSCV-SA valve bodies for a cost-effective upgrade.

BENEFITS OF NOISE ATTENUATION



Optimize Operational Efficiency

Advanced technologies and materials not only reduce noise but also optimize flow characteristics.



Improve Occupational Health and Safety

Lowering exposure to noise and vibration safeguards operational staff and local communities from harm.



Comply with Noise Regulations

Avoid reputational and financial penalties.



Extend Equipment Lifespan

Reduced noise means better vibration control, leading to less wear and tear on equipment.



Minimize Environmental Impacts

Contribute to environmental sustainability and improve community relations by reducing noise pollution.



Ready to start your journey towards noise reduction, operational excellence, and environmental sustainability? Connect with our Copes-Vulcan team to find out more about the Noise Attenuation Trim and our range of Direct Steam Conditioning Valves for modern power plants.

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Celeros Flow Technology reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction, and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information please visit www.celerosft.com.

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