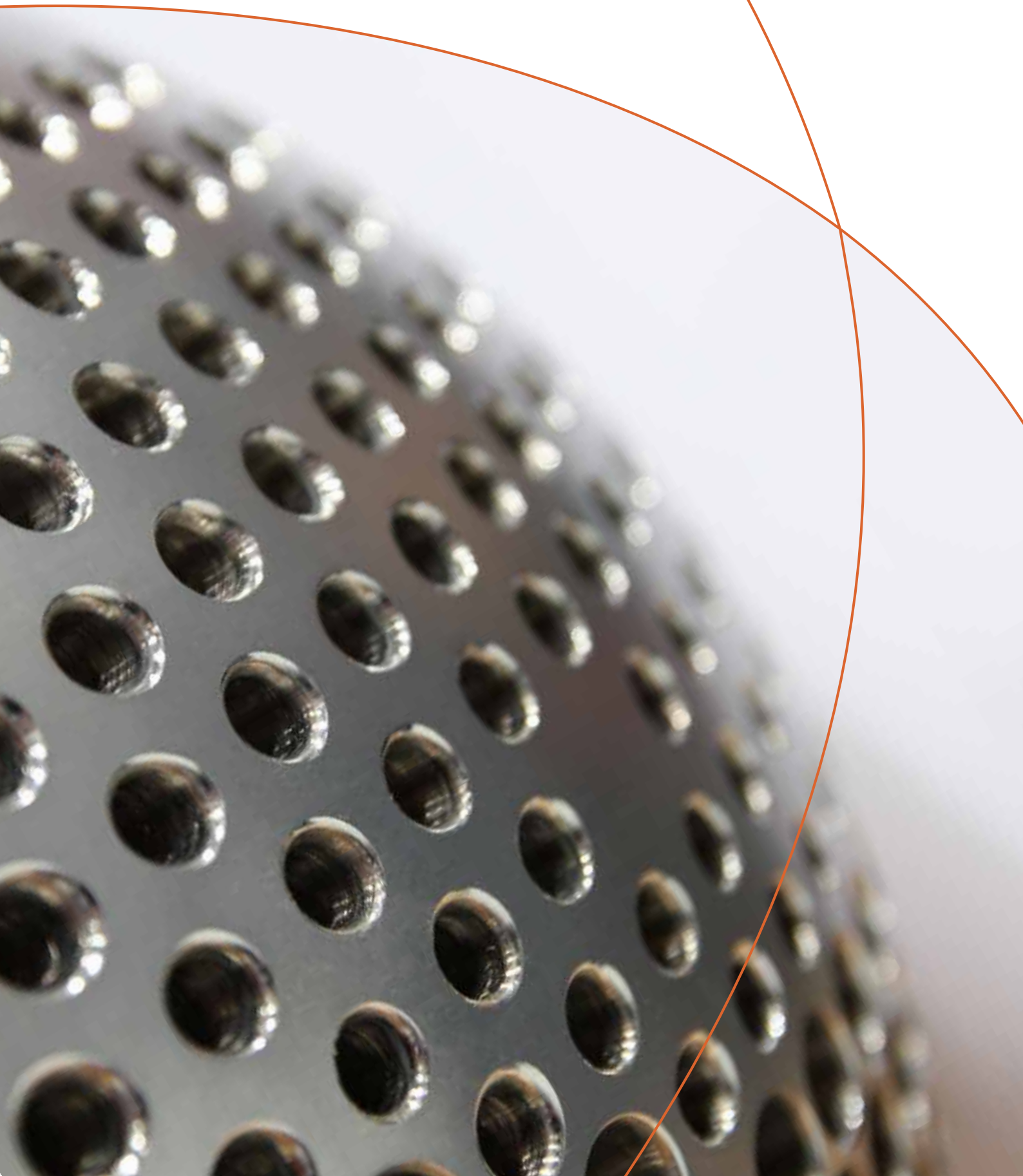
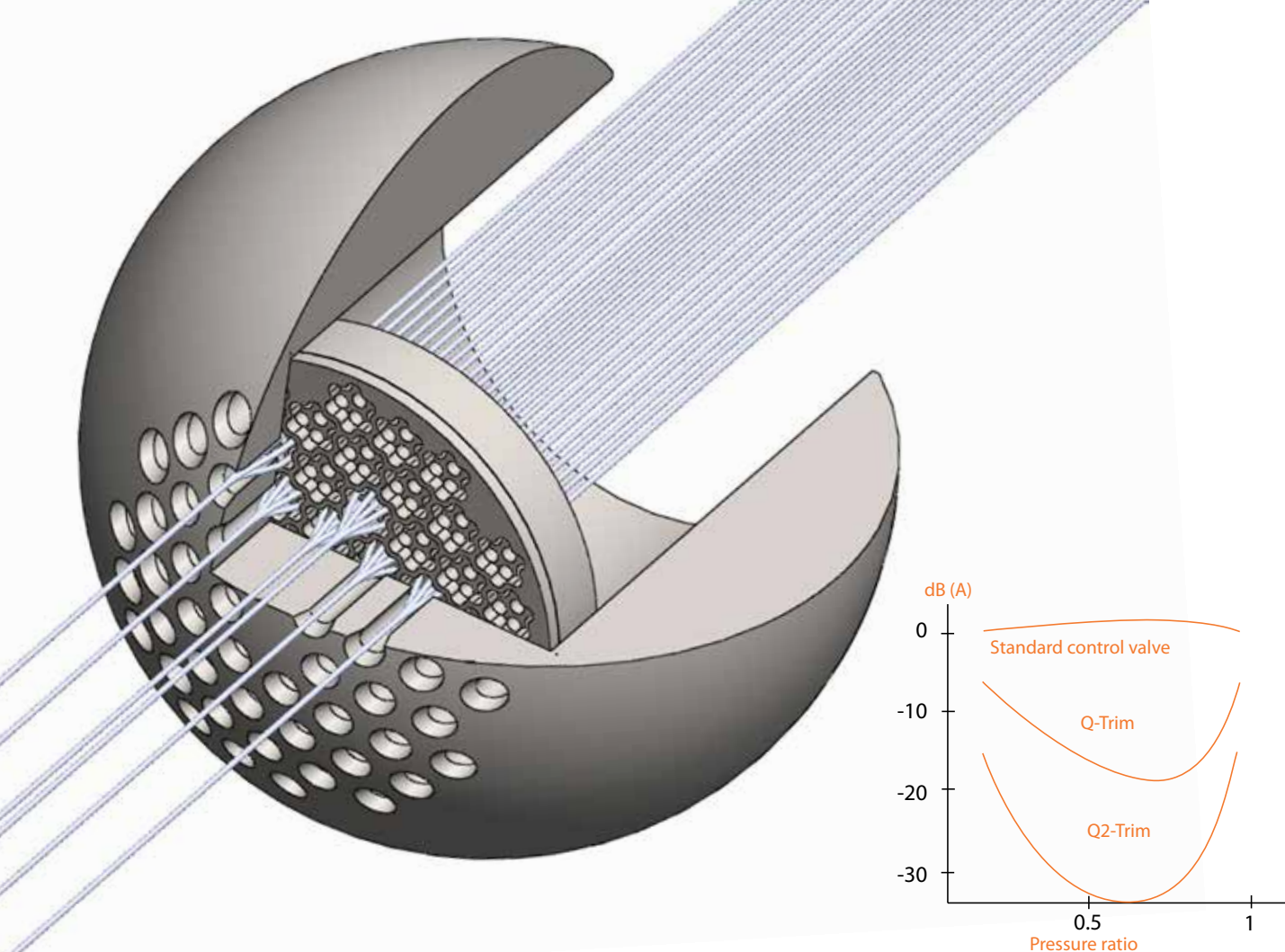


Metso Q2 – Trim

Stop noise before it is born





## Metso Q2 – Trim:

# New enhanced noise attenuation

For over 30 years Neles Q- Trim has been the noise attenuation solution. The noise abatement laws and health and safety legislation are becoming increasingly strict. Metso introduces Q2- Trim, the optimum solution for noise problems, that at the same time fulfills all legislative requirements and customer needs.

### The new Q2- Trim offers multiple advantages:

- Ensures a safe working environment
- Protects the process plant and surroundings
- Enables stable process control and longer uninterrupted plant runtime
- Fulfills all legal requirements

### The Q2- Trim principle

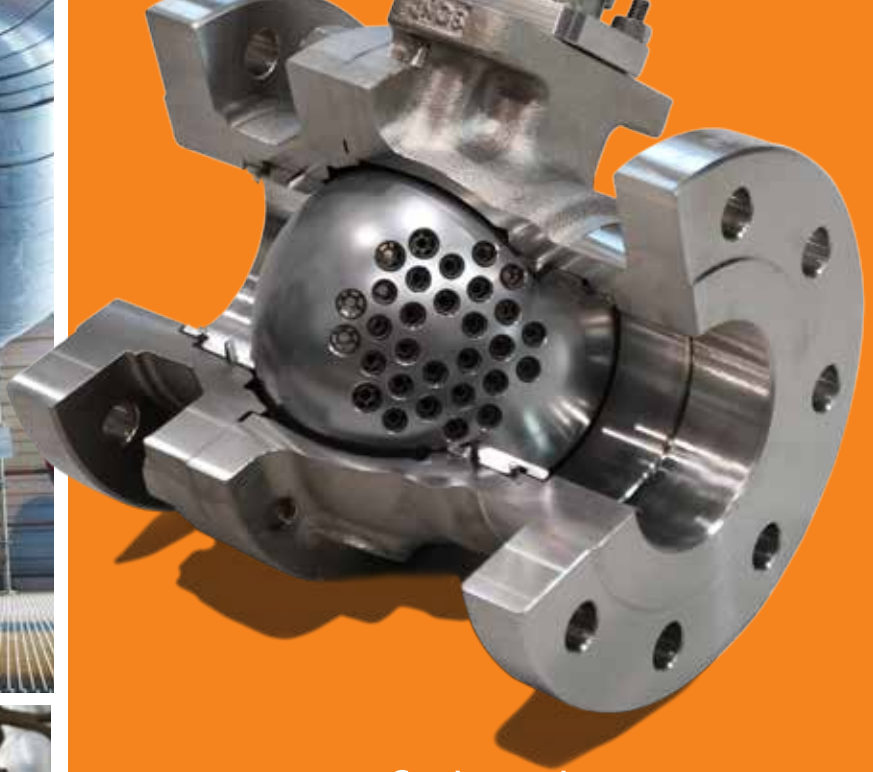
Neles Q2- Trim takes the patented Q-trim technology to new level. The technology is a combination of various techniques:

- Pressure staging
- Flow division
- Peak frequency shifting
- Velocity control

With new Q2- Trim technology, the noise reduction can be up to -30 dB(A). This creates the optimum solution for noise attenuation. Without detached resistors the valves with Q2- Trim are easy to install and fit onto the pipeline. The benefits of a compact valve size include a decreased need for pipeline support and more options for mounting positions.

### Easy valve selection with Nelprof

Nelprof, a state-of-the-art valve sizing program, provides an easy and fast way to optimize the valve selection according to process conditions. Noise prediction according to IEC and VDMA ensures the correct trim selection.



## Some of the key applications

**Q2 – Trim** has several key application in various fields in power, oil & gas, petrochemical, industrial gas and the chemical industry. Here are some examples of these industries:

### Power

High noise can be a problem in even low and medium pressure steam applications. Neles Q2- Trim is perfectly suited for use in steam applications providing the needed noise attenuation to ensure a stable process.

### Oil & Gas

Natural gas compression and metering stations are a perfect example of applications that require noise attenuation technology. With high noise can result in several issues like heavy vibration. With Q2- Trim the noise can be reduced to an acceptable level preventing vibration.

### Petrochemical

In cracked gas compressor anti- surges noise levels are usually high. When long lasting tight shut off and fast operation times are needed with noise attenuation technology, Neles ball valves with Q2- Trim are the optimum solution.

### Industrial gas

Recirculation and by pass valves require good tightness and reliable operation. With Neles ball valves with new Q2- Trim all requirements are fulfilled and reliable operation can be ensured.

### Process industry

Utility gases such as hydrogen and especially oxygen require special cleaning from valves. With new Q2- Trim it is possible to control the noise levels and the design is well suited for use in clean service.

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