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1. ERIKS operating companies

ECON Noise Diffusers are being delivered by several ERIKS operating companies on a worldwide basis. In this manual these will be referred to as 'ERIKS', the individual terms of delivery of the ERIKS operating company having executed the order are applicable.

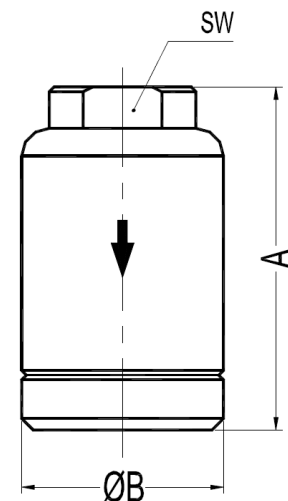
2. Product description

The ECON Noise Diffusers are designed according the information on our website, www.eriks.com and should be used in accordance with the applicable pressure-temperature rating as stated on this website. Noise Diffusers are provided with a nameplate. The marking makes the identification of the Noise Diffusers easier and contains:

- Figure number
- Limiting pressure and temperature
- ECON

The dimensions of the ECON Noise Diffusers are shown below.

Size DN	A (mm)	B (mm)	SW (mm)	Weight (kg)
15 (1/2")	80	45	36	0,9
20 (3/4")	80	45	36	0,9
25 (1")	90	45	40	1,3



3. Requirements for maintenance staff

The staff assigned to assembly, operating and maintenance tasks should be qualified to carry out such jobs and in any circumstance, ensure personal safety

4. Transport and storage

During transport and storage the Noise Diffusers should be protected against external forces. The Noise Diffusers should be stored in an unpolluted space and should also be protected against all atmospheric circumstances. The temperature and humidity in the room should be taken care of, in order to prevent condensate formation.

5. Function

ECON Noise Diffusers are designed to decrease the level of noise associated with steam or compressed air trap cycles. By installing a Noise Diffuser a reduction of about 80% of the noise can be expected, measured at 1 meter from the application. Also due to its simple and small design the ECON noise Diffuser is easy to install and uses little space.

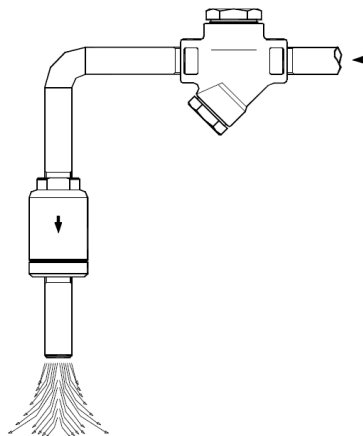
6. Application

The ECON Noise Diffuser dampens the sound caused by steam or compressed air trap cycles. The Noise Diffusers are designed for standard operating conditions. For the use of extreme conditions e.g. aggressive or abrasive media, it is recommended to mention this at the ordering stage, to verify whether the Noise Diffuser is suitable. The installation designer is responsible for the Noise Diffuser selection suitable for the working conditions. The Noise Diffusers are unsuitable, without written permission of an ERIKS company, to apply for hazardous media as referred into Regulation (EC) no 1272/2008.

7. Installation

During the assembly of the Noise Diffusers, the following rules should be observed:

- make sure, before assembly, that the Noise Diffusers were not damaged during the transport or storage, are according request and are suitable for the job.
- before installing the Noise Diffuser remove the plastic covers placed on the connection ends.
- make sure that the thread on the pipe are from the same standard as the Noise Diffusers and also free from pollution.
- check materials, pressure and temperature and their maximum values.
- the equipment has an arrow or inlet/outlet designations. Be sure that the Noise Diffuser is installed with the arrow pointing in the same direction as the flow. See for an example the figure below.
- the Noise Diffusers should be fitted in such a way that the outlet is pointed at the floor or other suitable enclosure. Do not install the Noise Diffuser in such a way that it may cause an accidental exposure to the discharge.
- the installation area should have easy access and provide enough space for maintenance and removing operations.
- the installation area should have the necessary fire extinguishing system to prevent damage to the equipment due to over temperature/pressure cause by fire.



8. Maintenance

Before starting any service jobs, make sure that the medium supply to the pipeline is cut off, pressure was decreased to ambient pressure, the pipeline is completely cleaned and ventilated and the plant is cooled down. Always keep safety instructions in mind and take all personal safety precautions.

During maintenance, the following rules should be observed:

- always keep personal safety precautions in mind and always use appropriate protection e.g. clothing, masks, gloves etc.
- be alert that the temperature still can be very high or low and can cause burns.
- there are no internal components that require maintenance.
- check the Noise Diffuser on all possible leaking possibilities.
- check if all bolts and nuts, are still fastened.
- we recommend that Noise Diffusers are serviced as necessary. Noise Diffusers should be checked periodically (at least yearly), to verify that they are operating correctly and to clean the internal parts and strainer screen.

9. Service and repair

All service and repair jobs should be carried out by authorized staff, using suitable tools and user shall use genuine parts.

- welding repair and drilling of the Noise Diffusers is forbidden.
- it is forbidden to replace the bolt, nut or packing when the Noise Diffusers is under pressure.

There are no spare parts available for the ECON Noise Diffuser.

10. Safety notes

Allow time for the temperature to normalize after isolation to avoid danger of burns.

11. Troubleshooting

It is essential that the safety regulations are observed when identifying the fault.

12. Removal

Dismantled and rejected valves cannot be disposed with household waste. The Noise Diffusers are made of materials which can be re-used and should be delivered to designated recycling centres.