

Product image

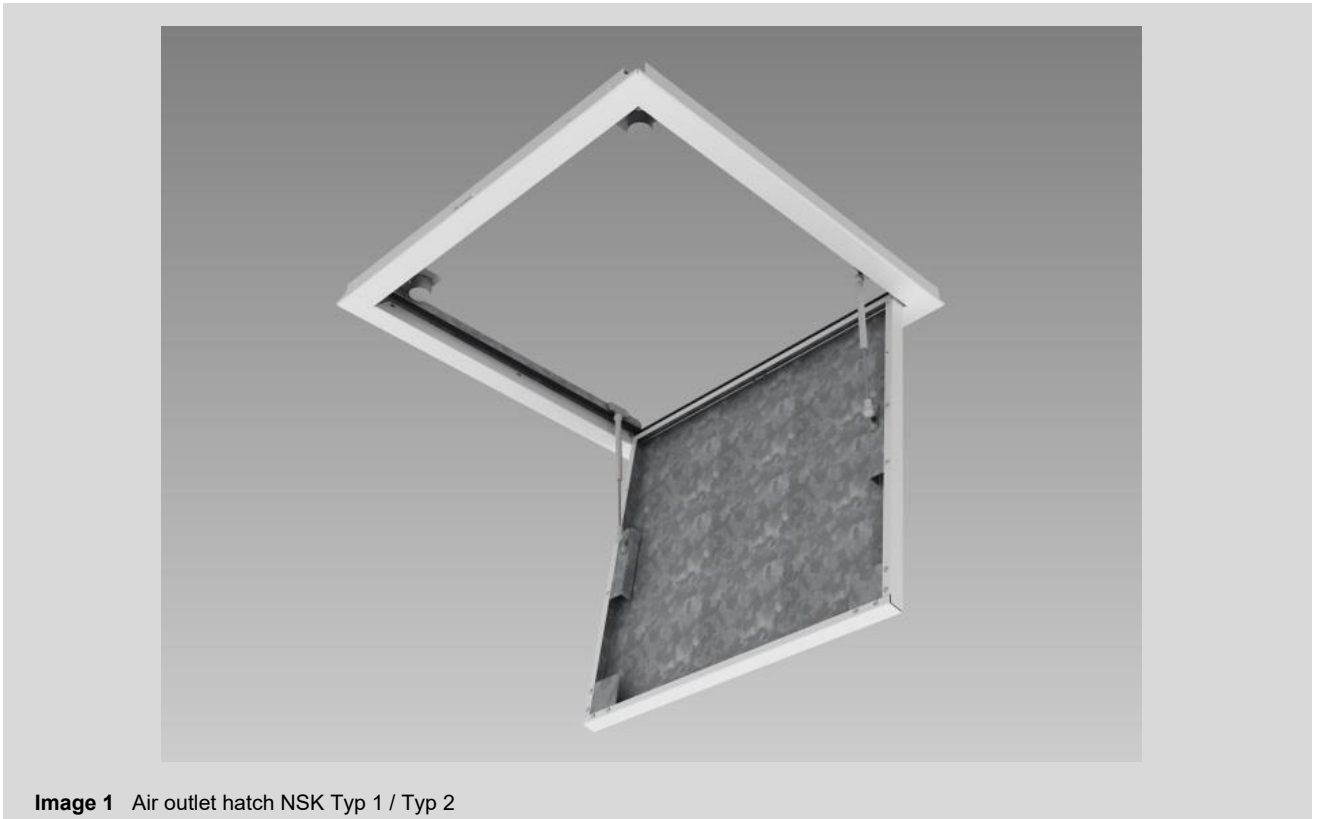


Image 1 Air outlet hatch NSK Typ 1 / Typ 2

Fields of application

- Pharmaceutical production, medical engineering
- Microelectronics and semiconductor industries
- Microsystems technologies, precision engineering
- Surface treatment technologies



- Easy to clean
- Good resistance against numerous detergents and disinfectants from the VAH-List (Verbund für Angewandte Hygiene)



GMP suitability

General description

Cleanroom-compatible Air Outlet Hatch with magnetic closure and gas pressure dampers, integrated in a metal ceiling plate / metal cassette.

The Air Outlet Hatch should not be confused with a heat and smoke vent, SHEV-hatch or fire damper and therefore it has no test certificate. The use of the air outlet hatches as a safety-relevant component must be checked in advance for the intended installation case.

The position of the Air Outlet Hatch must be designed by the specialist planner taking into account the desired flows, the planned furniture or machines as well as the adjacent components!

Functioning

"normally open", NSK Type 1

The cover of the air outlet hatch is held in the closed position by two electro-holding magnets. The magnets can be disconnected from the power supply via a separate switch or the building management system. If the voltage is interrupted, the hatch opens downwards due to its own weight.

"normally closed", NSK Type 2

The cover of the air outlet hatch is held in closed position by two permanent electro magnets. The magnets can be energized via a separate switch or the building management system. When the voltage is applied, the hatch opens downwards due to its own weight.

Construction

Metal ceiling tile / metal cassette with pre-fabricated cut-out. Air outlet hatch with holding magnets screwed on at the rear and integrated gas pressure dampers for safe and controlled opening. All-round sealing profile. The air outlet hatch is completely pre-installed into the metal ceiling tile / metal cassette.

The clear opening dimension differs from the external dimension and must be calculated project-specifically depending on the installation! Particular attention must be paid to the aerodynamically effective cross-section according to DIN 18232!

Special features

- suitable for all ceiling systems of Lindner Reinraumtechnik and plasterboard ceilings
- easy to operate
- concealed electric or permanent holding magnets at the back
- is supplied as a ready-to-connect element
- cleanroom suitable
- safe function due to integrated gas pressure dampers

Technical Data of the Hatch

Hatch Dimensions	450 x 450 mm up to 1000 x 1000 mm*
clear opening	project specifically calculation necessary

*) Make sure that there is enough height between the floor and the open hatch for the safe passage of people.

Technical Data of the Magnets *

Nominal voltage	24V DC
Cable length	200mm, free end
Protection class	IP20
max. holding force per magnet	160N (Permanent-electro magnet, normally closed)
max. holding force per magnet	230N (Electro holding magnet, normally closed)
Nominal power per magnet	4,6W (Permanent-electro magnet, normally closed)
Nominal power per magnet	3,5W (Electro holding magnet, normally closed)

*) Manufacturer information. The magnets are manufactured and tested according to DIN VDE 0580 (manufacturer information).

Manufacturing tolerances

Lindner Air Outlet Hatches are produced in accordance with the requirements of the TAIM technical regulations (Verband Industrieller Metalldeckenhersteller TAIM e.V. - www.taim.info).

This data sheet refers to the standard version of the above-mentioned system. Project-specific remarks and adaptations can be found in addition to the tender documents.

Installation and use

The assembly and use shall be in accordance with the manufacturer's guidelines and the technical regulations of the TAIM.