



DAMPER SOLUTIONS FOR THE NUCLEAR INDUSTRY

SUPERIOR DAMPER SOLUTIONS FOR NUCLEAR INDUSTRY APPLICATIONS

Safety, Durability and Performance for Nuclear Facilities

Halton delivers advanced HVAC and ventilation containment solutions engineered specifically for the demanding conditions of nuclear environments. Our offering supports safety, containment integrity, and regulatory compliance throughout the entire lifecycle of nuclear facilities—from new builds to decommissioning.

TOWARDS NET-ZERO OPERATIONS AND WIDER SUSTAINABILITY IN NUCLEAR INDUSTRY SECTORS

Safety, reliability, and durability are fundamental in the nuclear industry, where every component must perform flawlessly under the most demanding conditions. Halton, through its heritage brands Flamgard and Calidair, has decades of proven experience in designing and manufacturing high-integrity HVAC dampers for nuclear applications worldwide.

Our dampers are engineered to operate in the harshest environments, providing exceptional performance and reliability to safeguard critical ventilation systems. Fire and smoke dampers play a vital role in preventing the spread of fire and smoke, ensuring the safety of personnel, equipment, and facilities.

Halton's long-standing involvement in projects such as Chernobyl New Safe Confinement, Sellafield, and Hinkley Point C

demonstrates our ability to meet the stringent requirements of modern nuclear power generation. Achieving ISO 19443 certification, Halton joins an elite group of suppliers recognised for their commitment to nuclear-specific quality management, compliance, and customer trust.

As nuclear power continues to expand as a foundation of global low-carbon energy strategy, Halton stands ready to support the next generation of facilities.

Our comprehensive product portfolio extends beyond dampers to include diffusers, droplet separators, and tailored ventilation solutions, all designed to meet the highest international standards, including ISO 9001, ISO 3834-2, ISO 14001, ISO 45001, ATEX, CE, and EAC.

What we do

- Fire & gas dampers
- Blast protection dampers
- Airflow management dampers
- Zero leakage and isolation dampers
- Air intakes
- Non-return & pressure-relief dampers
- Shut-off & balancing dampers
- Blast protection dampers
- Smoke dampers

Past Projects

- Chernobyl Safe Containment Dome
- Hinkley Point C Nuclear Power
- Sellafield Nuclear Site
- ITER Project
- Olkiluoto 3 Nuclear Power Plant
- Several other classified nuclear power plant projects in Middle East and East Asia



Our way of doing business

- Halton production emphasizes tailoring, which means that solutions can be adapted for each customer's specific needs
- Own manufacturing in 9 countries
- Flexible, high-tech production with certified welders
- Comprehensive project management & documentation capabilities
- Testing and simulation services
- The well-established but flexible company, offering long-term business relationships and after-sales service
- Holding up-to-date product certifications aligned with industry standards, including advanced certifications known for their demanding compliance criteria (ISO19443)

Fire and Gas Dampers

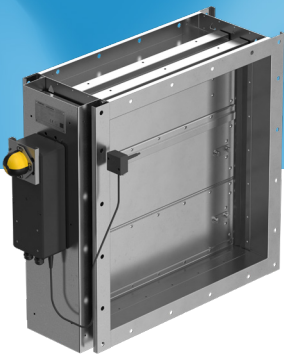
Sudden and uncontrolled fire is not only a life-threatening risk for people and the environment, but it also creates remarkable additional costs due to the stop of operation or production. Halton provides fire and gas dampers to prevent the progress of fire and gases through ventilation ductworks. ATEX certification is available as an option.

Key models: FCE & CFD-01



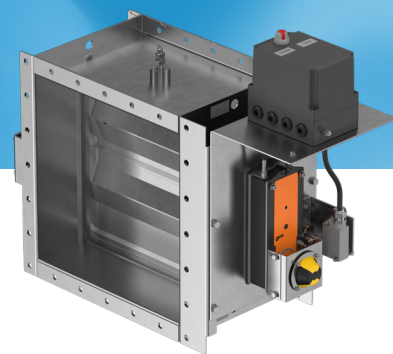
EI60S
FIRE DAMPER

FCE



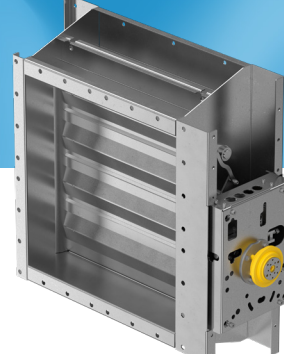
E120S
FIRE DAMPER

CFD-01



E120S UNINSULATED
FIRE DAMPER

CFD-01



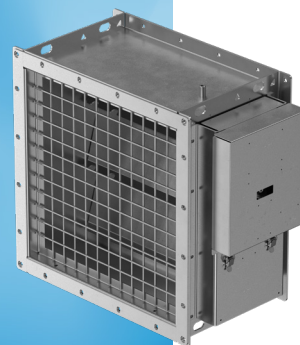
Blast Protection Dampers

Blast protection in industrial applications is essential. The primary purpose of blast dampers and valves are to protect people and equipment in case of a blast. Without proper protection, a blast wave penetrates the building through air intakes and outlets in an otherwise hardened structure. ATEX certification is available as an option.

Key models: BDH, BLD-01, BLD-02 & PV-KK-S

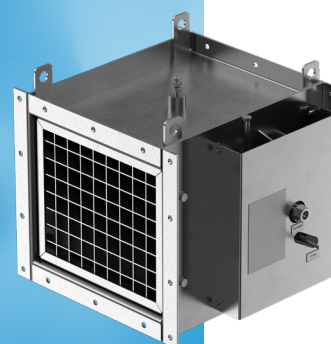
BLAST
DAMPER

BDH



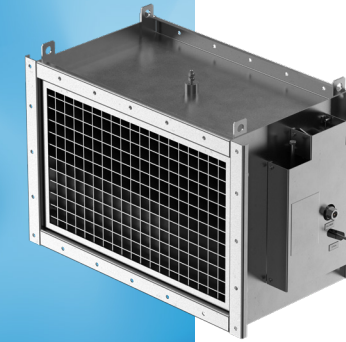
HIGH PRESSURE
BLAST DAMPER

BLD-01



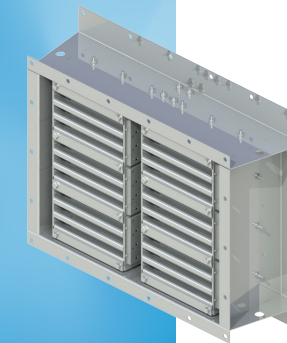
MEDIUM
PRESSURE
BLAST DAMPER

BLD-02



BLAST VALVE

PV-KK-S



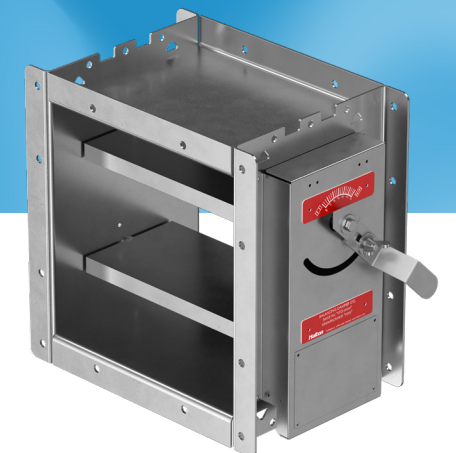
Airflow Management Dampers

HVAC ductwork on heavy industry projects consists of a diverse range of dampers products, each serving different airflow management functions. Halton manufactures an extensive range of dampers for these demanding applications. ATEX certification is available as an option.

Key models: UTP / CCD, UTG, BLD / BRD & CBD-02 / CPR-01

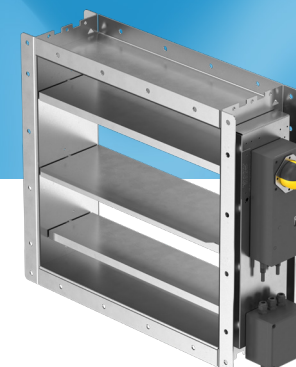
BALANCING
DAMPER

UTP / CCD



GASTIGHT SHUT-OFF
DAMPER

UTG



NON-RETURN AND
PRESSURE-RELIEF DAMPER
BLD / BRD

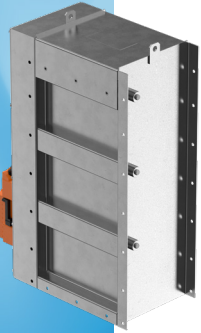


NON-RETURN AND
PRESSURE-RELIEF DAMPER
CBD-02 / CPR-01



ZERO LEAKAGE
ISOLATION
DAMPER

CID-01



GASTIGHT
SHUT-OFF
DAMPER

UTA / CCD



Zero Leakage and Isolation Dampers

Halton's zero-leakage gas retention and isolation dampers meet the strict shut-off requirements of industrial and nuclear applications, enabling safe duct isolation and reliable containment of fire-extinguishing gases without shutting down entire systems. ATEX certification is available as an option.

Key models: CID-01 & UTA / CCD

Air intakes

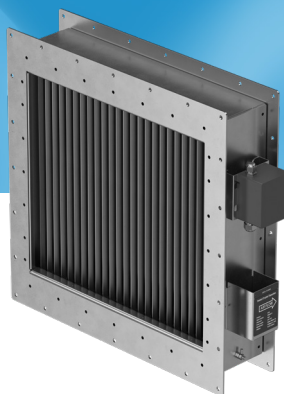
Halton's droplet separators have been designed to protect capital equipment from the damage caused by the salty spray and rainwater, allowing for less maintenance and downtime higher equipment efficiency.

Key models: DSA, DSH / HL / SL & USM / CWL-01



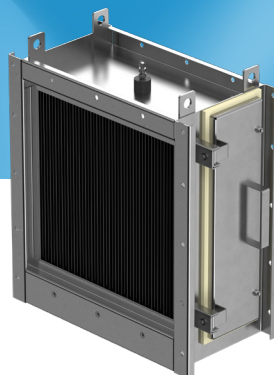
DROPLET SEPARATOR

DSA



DROPLET SEPARATOR

DSH / HL / SL

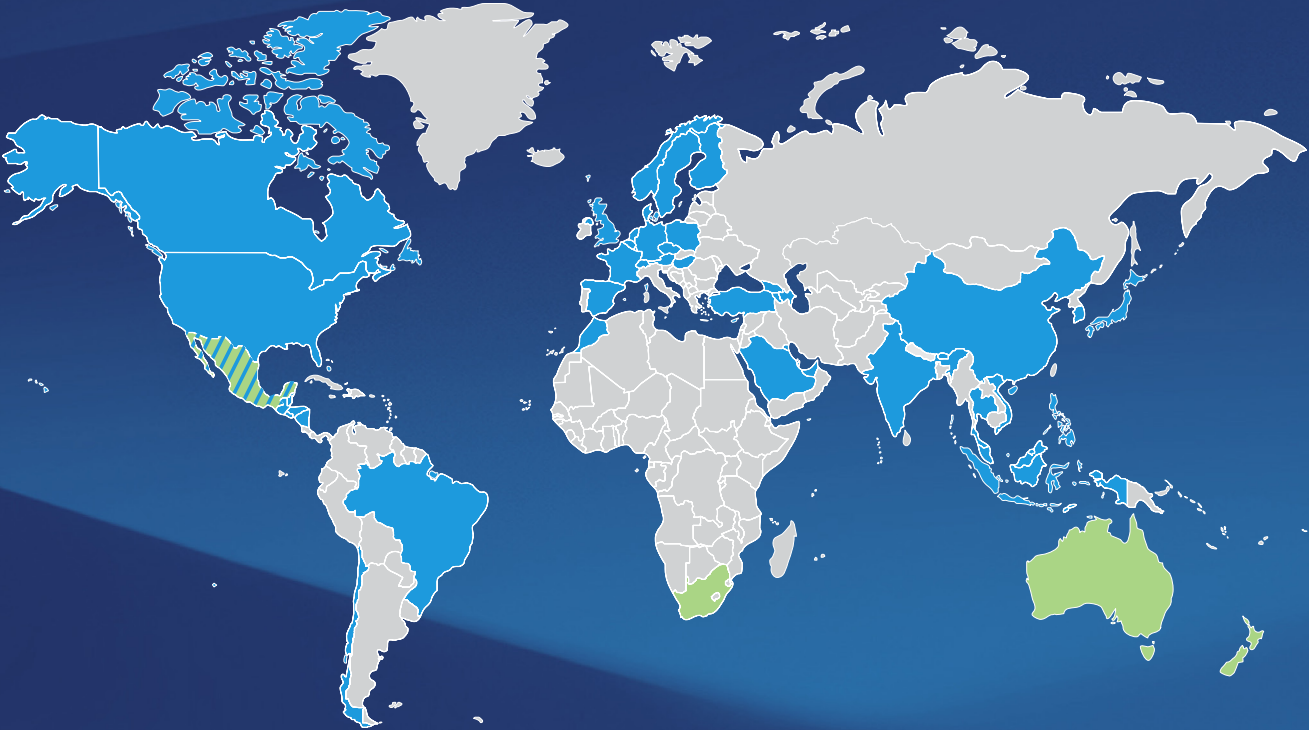


OUTDOOR LOUVRES

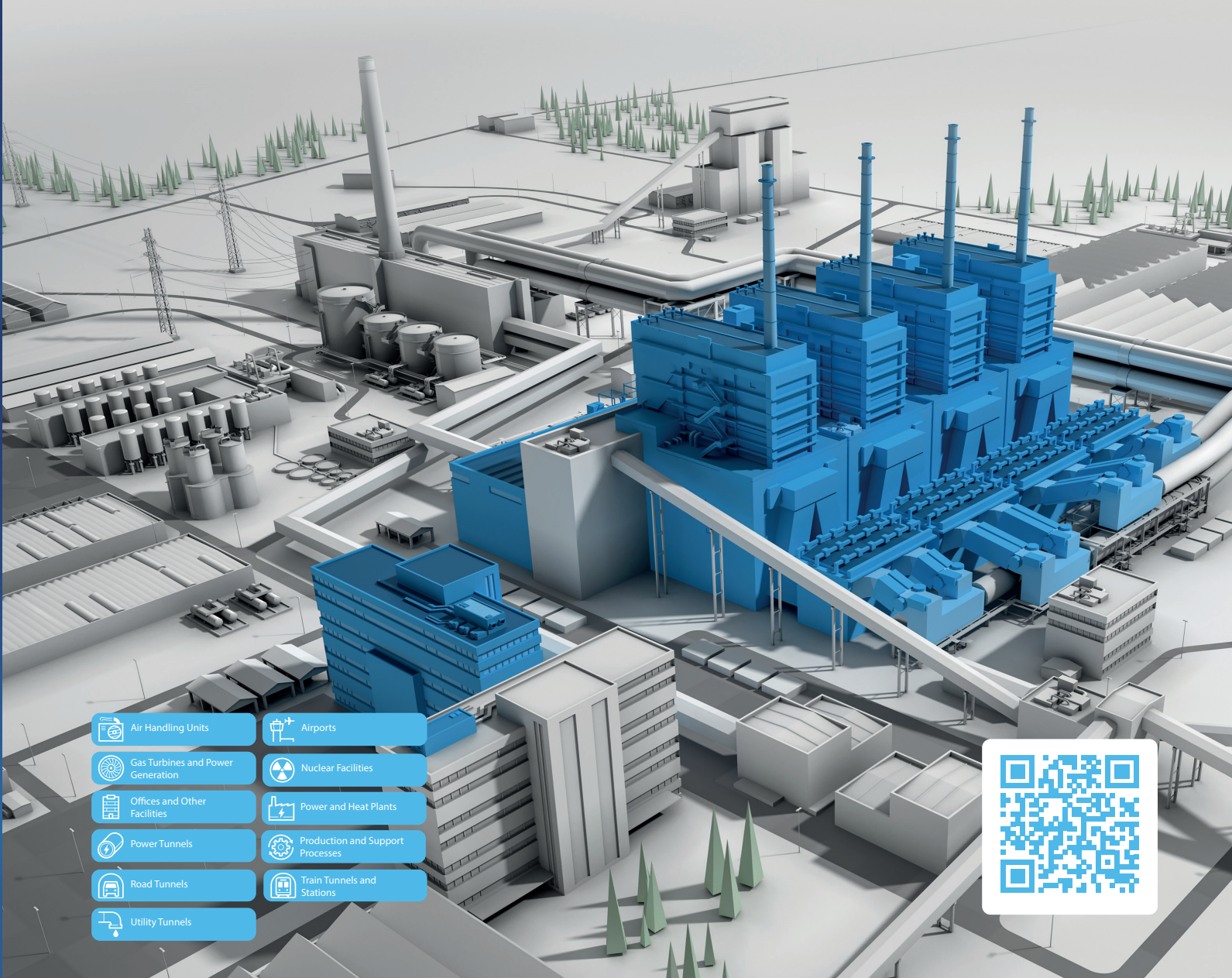
USM / CWL-01



Where we operate



- Countries with Halton personnel
- Licensed manufacturing
- Family-owned company founded in 1969
- Revenue ca. 340 MEur in 2025
- Over 2000 people in over 35 countries
- Own production in 9 countries, 14 factories
- Group HQ in Finland
- 11 R&D Centers, Halton Innovation Hubs, in 8 countries around the world



heavyindustrialsolutions.halton.com

Heavy Industry 3D World

Halton's Heavy Industry 3D World provides users with a real-world visualisation of Halton's product offering while showcasing individual products and linking back to the main Halton website for more information. Users can explore comprehensive offerings

through a dynamic 3D experience, discovering products and benefits for applications such as nuclear facilities, power and heat plants, power tunnels and much more. Start exploring at heavyindustrialsolutions.halton.com.



ABOUT US

Halton Group specializes in indoor environment solutions, ranging from public and commercial buildings to foodservice facilities. Founded in Finland in 1969, Halton operates today in over 35 countries around the world, with annual sales of ca. 340 MEUR and over 2000 employees. The company has production facilities in Brazil, Canada, China, France, Finland, Germany, Malaysia, the United Kingdom, and the USA.

www.halton.com