VENTILATION SOLUTIONS FOR NAVAL AND COAST GUARD VESSELS

Enabling Wellbeing

Halton

WHEN RELIABILITY MATTERS MOST

Protecting the vessel and the crew

Even in the most challenging conditions and situations, Halton dampers have a proven record of reliability and high performance.

LAST LINE OF DEFENSE

When external threats can no longer be avoided, rapid containment becomes essential. Ventilation systems play a critical role in limiting the spread of fire, smoke, hazardous gases, and blast effects, helping to protect the crew, equipment, and mission capability.

> **Mission readiness depends not only on avoiding threats, but on limiting their consequences.**

The Survivability Onion

The survivability onion is commonly used to visually represent layers of protection against external threats. The picture aside is a version adapted to represent the situation for naval vessels.

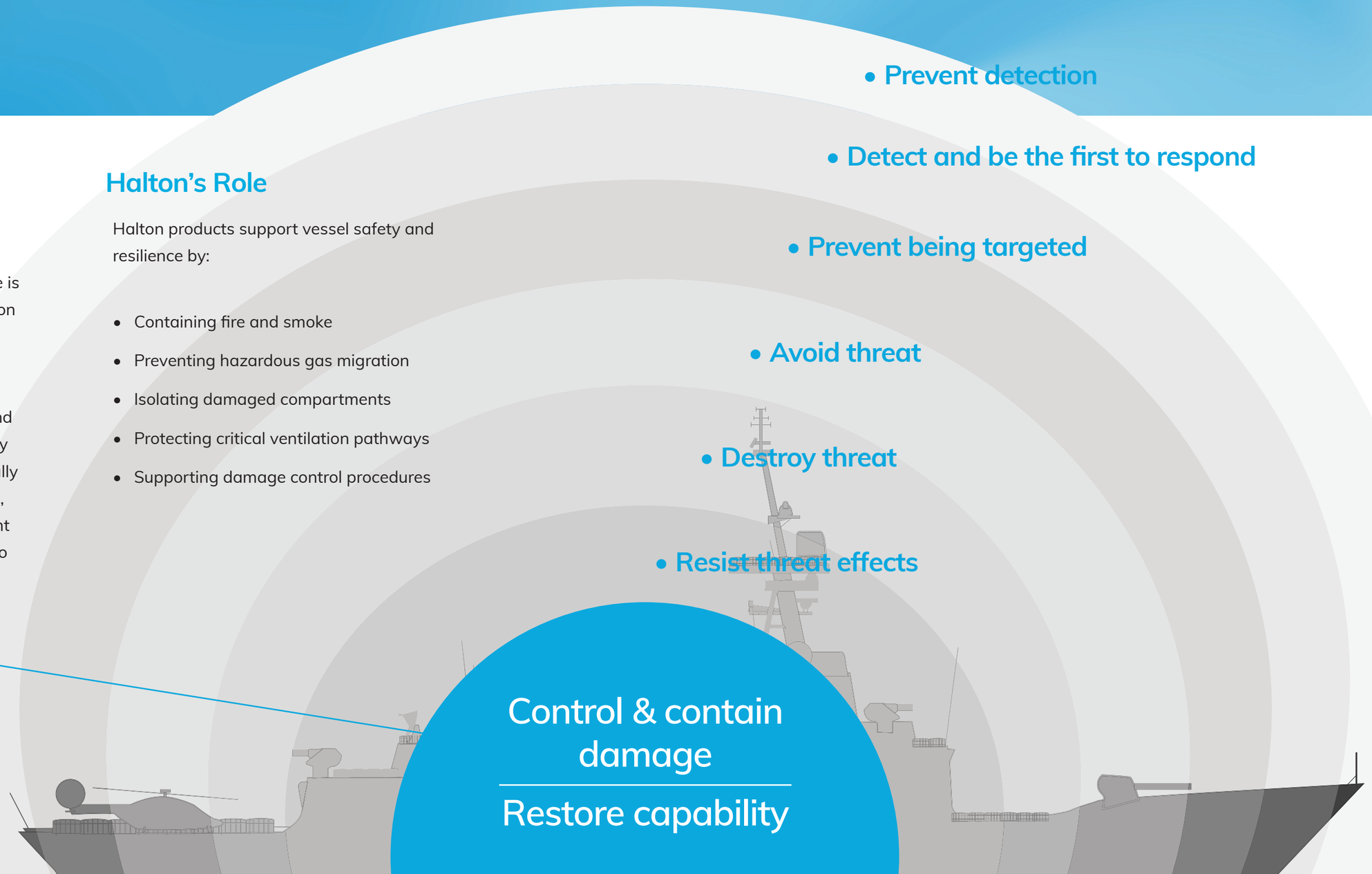
At Halton we recognize that our products step in when everything else has failed and thus their correct functioning and reliability must be of utmost importance. We naturally hope that our products will not be needed, but due our thorough product development and testing we are sure that they are up to the task if needed.

This is the point where Halton's products step in

Halton's Role

Halton products support vessel safety and resilience by:

- Containing fire and smoke
- Preventing hazardous gas migration
- Isolating damaged compartments
- Protecting critical ventilation pathways
- Supporting damage control procedures



Ventilation for Naval Applications

In naval and coast guard vessels, ventilation systems play a critical role in ensuring crew safety, operational readiness, and mission reliability. This brochure presents Halton's advanced HVAC, fire safety, and ventilation solutions designed specifically for demanding naval applications ranging from submarines and warships to auxiliary and patrol vessels.

Fire, gas-tight, and airflow control dampers are essential components in naval ventilation systems, helping to prevent the spread of fire, smoke, and hazardous gases while protecting personnel, equipment, and critical operations. Halton's solutions are engineered to withstand harsh marine conditions and demanding operational requirements, with proven shock and vibration performance and certifications from major classification societies.

In mission-critical situations, fast and reliable damper operation supports vessel survivability by isolating compartments, maintaining safe operating conditions, and supporting emergency response procedures. Blast protection dampers provide an additional layer of protection against external explosions, helping to safeguard both the crew and equipment.

Beyond safety, Halton offers comprehensive ventilation solutions for naval vessels, including galley ventilation, cabin ventilation, airflow management, and air intake systems. Designed for reliability, energy efficiency, and long service life, these solutions support healthy indoor environments and dependable vessel operations in even the most demanding conditions.

Over decades of experience in marine and defense applications have built a strong foundation of expertise in ventilation performance, safety, and compliance. Continuous product development ensures that Halton's solutions are technically proven, robust, and tailored to project-specific naval requirements.

Safety, reliability, and mission readiness are top priorities for naval authorities, shipbuilders, and defense contractors. Halton's global track record in naval and coast guard projects reflects a deep understanding of operational requirements and a commitment to delivering dependable, compliant solutions.

Project Deliveries

5+

5+

45+

20+

25+

35+

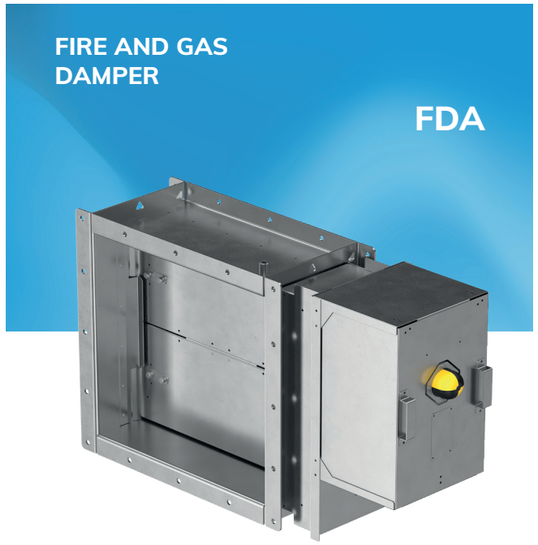
HALTON PRODUCTS FOR NAVAL PROJECTS

In addition to its extensive experience in commercial shipping projects, Halton has supplied products to naval projects for over 30 years. With such experience, the extensive documentation and rigorous testing required by naval projects come as no surprise to us.

Fire & Gas Dampers

Halton delivers advanced HVAC, fire safety, and ventilation containment solutions engineered for the demanding and mission-critical environments of naval vessels — from submarines, warships to auxiliary and special-purpose fleets as well as coast guard vessels.

Key Models: FDA, FDO, FDB2, FDH

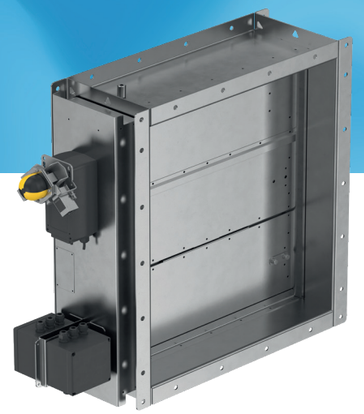


Highlights:

- A0(A60) and H0(H120) classifications available
- Shock- and vibration performance proven in various projects
- Designed for high pressure up to 5000 Pa
- Leakage performance up to EN1751 Class 3
- ATEX/IECEx-certified products available as an option
- A wide range of accessories available

GASTIGHT SHUT-OFF DAMPER

UTA



Airflow Dampers

High-integrity shut-off performance for engine rooms, gas-hazardous zones, and other critical compartments.

Key Models: UTA, UTG, UTP, UTK/ UTT, BRD, BLD, CID-01, CID-02

Highlights:

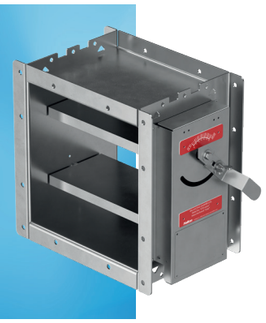
- Models for airflow adjustment as well as for total isolation
- Shock and vibration performance proven in various projects.
- Designed for high pressure up to 5000 Pa/10 000 Pa and rapid shut-off (1 second as an option).
- Leakage performance up to EN1751 Class 3. (Also available total isolation damper)
- Available as ATEX/IECEx-certified as an option.
- A wide range of accessories available

GASTIGHT SHUT-OFF DAMPER

UTG

BALANCING DAMPER

UTP



MULTI-BLADE AIRFLOW MANAGEMENT DAMPER

UTK

MULTI-BLADE AIRFLOW MANAGEMENT DAMPER

UTT

PRESSURE-RELIEF DAMPER

BRD

NON-RETURN DAMPER

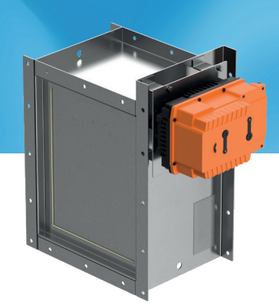
BLD

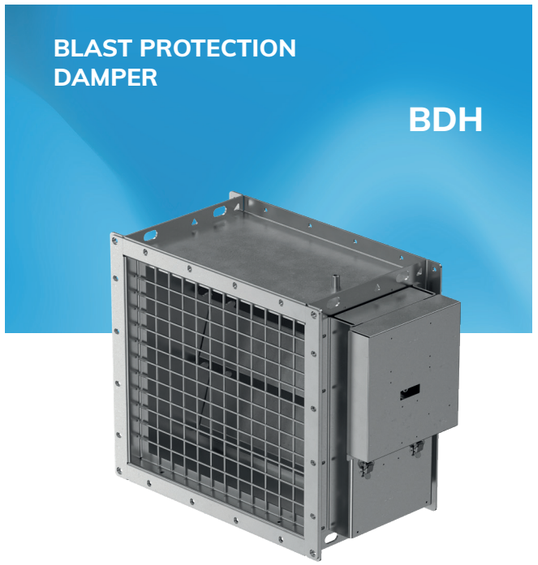
ZERO LEAKAGE ISOLATION DAMPER

CID-01

SINGLE BLADE ISOLATION DAMPER

CID-02





Blast Protection Dampers

Halton's blast dampers provide reliable, mission-critical protection for Navy and Coast Guard vessels. Engineered to safeguard crew and equipment, the dampers automatically close ventilation pathways during an external explosion, preventing blast pressure from entering the vessel. Their fully mechanical operation ensures dependable performance with minimal maintenance, even in the harshest marine environments.

Key Models: BDH, BLD-01 & BLD-02

Highlights:

- Up to 1.0 bar blast protection for demanding naval and marine conditions
- Protection against both overpressure and suction phases of a blast
- Independently tested and widely certified to meet rigorous marine and defence requirements
- Fully mechanical, low-maintenance design optimized for continuous, mission-ready reliability
- Marine-grade 1.4404 stainless steel for corrosion resistance in saltwater environments
- Proven track record of deliveries across offshore, industrial, and defense applications

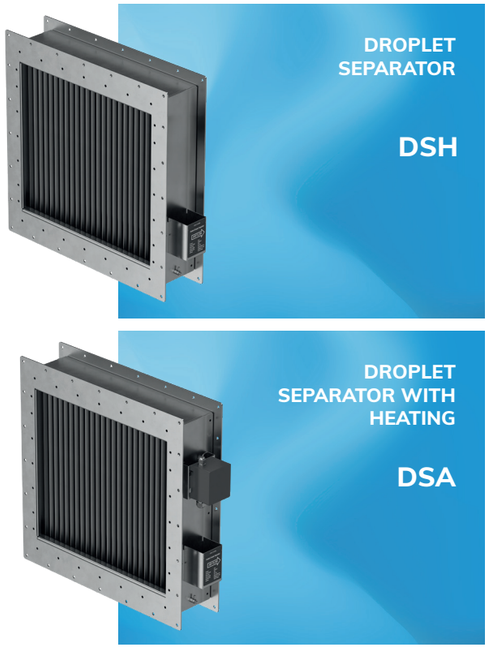
Galley Ventilation

Designed for modern marine galleys, Halton ventilation systems provide efficient capture and removal of heat, grease, and cooking emissions. Intelligent controls help improve safety, indoor air quality, and energy performance.

Key Models: KW3, KWH, KFM, KVM

Highlights:

- Water-wash and Capture Jet™ hoods.
- UV-light cleaning and M.A.R.V.E.L. demand-based ventilation.
- Turnkey services: design, mock-ups, commissioning, and lifecycle maintenance.



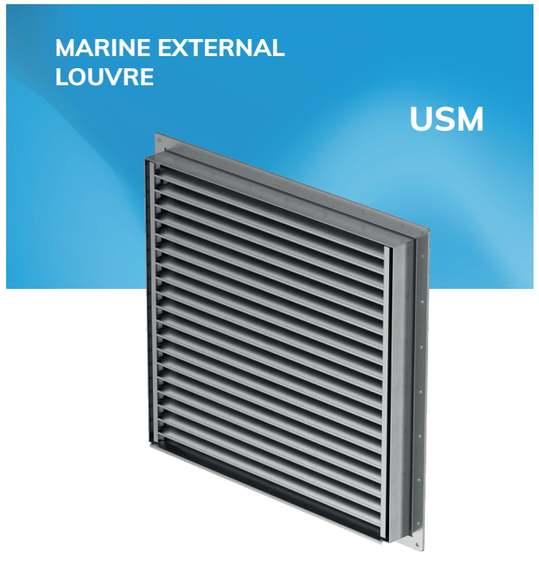
Air Intakes

Halton air intake solutions are designed to ensure reliable fresh air supply in demanding marine environments. Advanced droplet separation technology effectively removes moisture, salt, and contaminants before air enters the ventilation system. Durable construction and application-specific designs support safe and efficient operation in a wide range of conditions.

Key Models: DSH, DSA, USM

Highlights:

- Ensuring clean, dry intake air even in extreme maritime conditions.
- High-efficiency water and mist separation.
- Additional filter elements available for special purity requirements.
- Heated models for icing conditions.
- Special models for Arctic operations.



Cabin Ventilation

Halton cabin ventilation units deliver quiet, comfortable, and energy-efficient airflow for accommodation spaces. Designed for high indoor air quality and dependable operation at sea.

Key Models: HMF, HME, HMM

Highlights:

- Providing comfort, air quality, and energy-efficient airflow control for crew accommodation.
- Pressure independent B-15 rated terminal device for cabin ventilation.
- Silent operation with excellent sound attenuation, ideal for crew rest areas
- High indoor air quality based on 100% fresh air, stable airflow and good airflow distribution
- Robust standalone control or digital network enabled control options.

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.

Our Navy Page

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