HOLD-OPEN SYSTEMS
KEEP FIRE & SMOKE DOORS OPEN DURING NORMAL OPERATION AND ENSURE THAT THEY CLOSE AUTOMATICALLY IN CASE OF FIRE
Fire and smoke can be extremely dangerous. If a fire breaks out in a building, it can spread very fast if no precautions have been taken. A danger for people and for the building and everything in it. Normally, larger buildings are divided into individual fire areas. Under certain conditions, it is possible to have openings in the walls of the different fire areas, e.g. for doors. Special fire or smoke doors must be used here, and they must always be able to close automatically in case of fire in order to prevent it from spreading through the building.

**THE PROBLEM:**
Far too often doors are still kept open by wedges or other objects. However: doors held open this way not only allow people or goods to pass through easily, but also smoke and fire can spread in the event of a fire.

**THE SOLUTION:**
Hold-open systems ensure safety for fire closures. They make sure that doors between fire areas can stay open when necessary, but always close automatically and immediately in the event of a fire.
PROBLEM AND SOLUTION

DICTATOR - YOUR PARTNER FOR HOLD-OPEN SYSTEMS

We don’t just supply products, we offer you an all-in-one package including advice during the planning and design of the hold-open system, support with any questions during installation, commissioning and acceptance of the system and assistance with maintenance and repair work.

- Robust and durable components
- Many years of experience in the field of fire protection
- Many special solutions possible thanks to wide product range
- Specialists in hold-open systems for hazardous areas
- Individual planning and consulting service
COMPONENTS

HOLD-OPEN SYSTEM COMPONENTS

SMOKE & HEAT DETECTORS
Report a fire to the control centre and thereby ensure the timely triggering of the hold-open system.

ELECTROMAGNETS & COUNTER PLATES
Keep fire doors open. The holding force of the magnets can only be ensured with corresponding counter plates.

CENTRAL UNIT
The heart of the hold-open system, in which all essential functions are combined: power supply, control and manual pushbutton.

More information on DICTATOR components for hold-open systems under www.dictator.com > Fire door control solutions
OTHER ACCESSORIES FOR FIRE DOORS

DOOR SEQUENCE SELECTORS

- Double-leaf fire and smoke doors must be equipped with a door sequence selector.
- Door sequence selectors ensure that the door leaves close in the correct order, thus reliably preventing the spread of fire or smoke.

DOOR DAMPERS FOR FIRE DOORS

- The approved solution against slamming fire doors or doors that do not close completely.
- Catches the slamming fire or smoke door just before closing, closes it quietly and reliably and keeps it reliably closed.
- Can also be used in combination with overhead door closers.

THERMAL BOLT HLS

- In hinged fire doors, the heat of a fire can cause the door to warp and lead to dangerous gaps between the door and the frame that could let the fire spread.
- The thermal bolt prevents doors from warping in the event of a fire, ensuring safely closed fire doors with no gaps.
- When a certain temperature is reached, a bolt extends and locks the door leaf in place.

FIRE DOOR OPERATORS

- Close doors safely and automatically in case of fire, even whenever there’s power failure.
- Large, modular and therefore very flexible range of door operators.
- Partial or full automation of fire doors.
In places in which there is a risk of explosion, special requirements must be met to prevent this from happening.

But even in such places, there are fire doors that need to stay open at times, e.g. for transit purposes. Normal hold-open systems cannot be used here. The components must meet certain requirements specially designed for this sort of application.
HOLD-OPEN SYSTEMS FOR HAZARDOUS AREAS

EX-proof hand release switch

Components of a DICTATOR EX-PROOF HOLD-OPEN SYSTEM

- Fire door operators
- EX electromagnets
- Zener barrier
- Installation outside the hazardous area
- RZ-24 central unit for hold-open systems
- Fire detectors for hazardous areas

ADVANTAGES OF THE DICTATOR HOLD-OPEN SYSTEMS FOR HAZARDOUS AREAS

- Wide range of components enables solutions for many different requirements
- Many years of experience with demanding requirements of hazardous areas
- ATEX hold-open systems are available in two versions:
  > As a mere hold-open system without an operator
  > As a hold-open system in combination with a door operator as an opening aid
- Individual support from the planning stage to after the purchase
- Upon request, we also offer the installation of all DICTATOR components of the hold-open system

More information under www.dictator.com > Fire door control solutions > EX-proof components
APPLICATIONS

HOLD-OPEN SYSTEMS IN SCHOOLS – ROBUST AND RESISTANT

Hold-open systems integrated in door closers may be a visually appealing solution - but in many cases they are unsuitable for schools.

Doors in schools are often opened recklessly and subjected to such high forces that both the door and the hardware can quickly reach their limit.

**The consequence: the hold-open systems integrated in the door closer get damaged**

The small electromagnets built into the door closers are not designed for high impact forces, especially when these are multiplied by the leverage effect of the door.

Damaged hold-open devices integrated in the door closers lead to high maintenance and repair costs in the long run. In addition, they can be a fire hazard in the event of a fire, because then the doors are often held open with a wooden wedge or another object.

**External electromagnets – the pragmatic solution that drastically reduces risk and costs**

With them, the closing function of the existing overhead door closer can still be used without a problem.

More application examples under www=dictator.com > References > Fire Door Control Solutions
EX-PROOF HOLD-OPEN SYSTEM IN CHEMICAL WAREHOUSE OF UNIVERSITY OF GÖTTINGEN

As part of the renovation of the Chemistry buildings at Göttingen University, a new storage facility needed to be built for the chemicals used for classes and research. Due to the nature of the storage unit, safety had to play a key role.

DICTATOR hold-open systems were installed on the fire doors of the chemical warehouse so that the doors can remain open during normal operation. In the event of an alarm, the power supply to the hold-open magnets is interrupted and the doors close immediately every time.

**Due to the risk of explosion in the warehouse, all components installed here needed to be explosion-proof.**

The power supplies of the 45 ATEX-protected smoke detectors together with the evaluation units of the alarm signals were installed in a separate room outside the hazardous area.

The whole design and planning of the hold-open systems as well as the installation was also directly carried out by DICTATOR.

Do you also have a project that requires a hold-open system? Our technical department will be happy to help!
CUSTOMER SERVICE

HOLD-OPEN SYSTEM SEMINARS

In Europe, regular maintenance and inspections of hold-open systems on fire and/or smoke closures may only be carried out by trained personnel familiar with the requirements of hold-open systems. With our training courses to become a specialist for DICTATOR hold-open systems, you can obtain the required certificate.

OFFERED COURSES

**Specialist in hold-open systems according to EN 14637**

For EU countries without national regulations or countries whose regulations refer to EN 14637 (e.g. Austria, the Netherlands, etc.). Upon successful completion of this seminar, you will be allowed to carry out the acceptance for DICTATOR hold-open systems as well as annual inspections and maintenance.

**Specialist in hold-open systems according to DIN 14677**

In this seminar you will obtain all the basics for the acceptance and maintenance of hold-open systems, as well as knowledge about DICTATOR components. After successful completion, you will receive a certificate that allows you to carry out the commissioning as well as the annual inspections and maintenance of DICTATOR hold-open systems.

**DICTATOR manufacturer-specific components**

If you are already in possession of a certificate as a specialist for hold-open systems according to DIN 14677 (Germany) or EN 14637 (EU), we offer this advanced seminar especially for DICTATOR components, so you can carry out the acceptance, inspection and maintenance of our hold-open systems.

Are you interested in a seminar for hold-open systems? Contact us for a course tailored to your needs!
YOUR ALL-ROUND CAREFREE PACKAGE FROM DICTATOR

- Personal and individual advice - by telephone and on site
- Sound advice on the planning and design of the hold-open system
- Support with questions during installation, commissioning and acceptance
- Assistance with maintenance and repair work

THE NAME DICTATOR

We are often asked how we came up with the, admittedly somewhat unusual, name DICTATOR. The name has its roots in the invention of our first product:

A German and a Dutchman invented a “hydraulic shock absorber and door closer” in 1930. This special type of door closer dampens the door shortly before closing, quietly pulls it shut and keeps it closed.

Its inventors called this product ‘dictator’, because it dictates the door how to close.
ABOUT DICTATOR
DICTATOR is a worldwide group with its main focus of operation in Europe. The headquarters is located in Neusäß near Augsburg. Our products are manufactured in our own production facilities in Europe. This ensures the highest quality and allows us to provide custom solutions for every customer requirement at short notice.

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PRODUCT RANGE
- Lift equipment
- Door closing solutions
- Hydraulic dampers
- Door and gate operators
- Fire door operators
- Fire door solutions
- Gas springs
- Door interlock systems

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