

The background of the entire image is a photograph of a steep, rocky mountain peak. A thick black rope runs diagonally across the frame, secured by a silver metal carabiner. An orange rope is tied in a knot and attached to the carabiner. The sky is blue with some white clouds. In the bottom left, a valley with green hills and a blue lake is visible.

rico 
CERTIFIED SAFETY

What is the right choice?

The safe choice.



RICO Sicherheitstechnik AG.

The safe choice.

Uncompromising safety in industrial systems since 1988.

Prominent operators, manufacturers and suppliers of systems for processing powdered solids have been putting their trust in our products for over 30 years. Today, tens of thousands of flexible and maintenance-friendly RICO components guarantee uncompromising safety and protection against the propagation of explosions: In many industries and plants around the globe, they help our customers to maintain a safe and efficient system operation.

As a pioneer in industrial explosion protection – a field we have played in a key role in shaping – we are continually setting new benchmarks, which we develop, test and certify according to the strictest criteria.

Both we from RICO Sicherheitstechnik AG as well as our worldwide network of sales partners can help you choose the best isolation solution for your plant, irrespective of its protection concept.

Our trained and certified service partners are globally active, allowing them to arrive at your site within the shortest time. This ensures that your plant can be operated reliably at any time.

Why explosion protection?

An explosion risk for employees, surroundings and plants can be countered in different ways. Organisational measures are often sufficient to prevent an explosive atmosphere in the first place and to avoid destructive consequences in combination with an ignition source.

An explosion can be prevented by eliminating one of the three preconditions below.

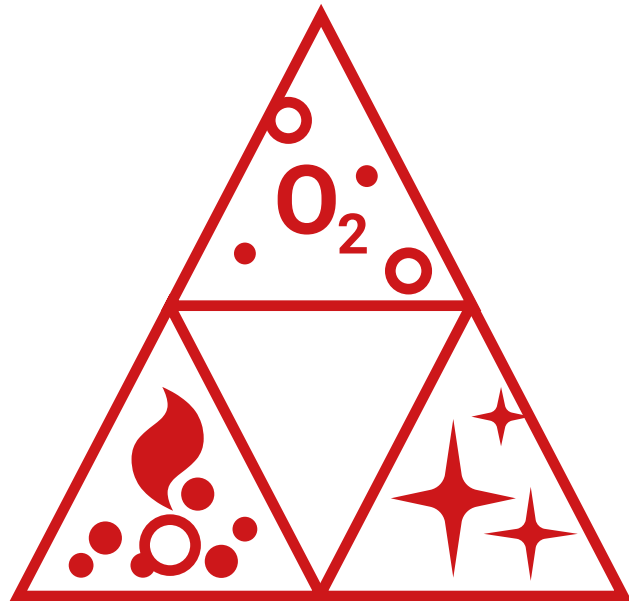
Oxygen

Flammable substance

Powdered, particulate or gaseous substances

Ignition source

For instance, mechanically created sparks, hot surfaces, electrostatic discharging etc.



If the formation of an explosive atmosphere cannot be avoided, the effects of a potential explosion must be reduced to a safe extent. Depending on the plant, installation site and medium to be processed, this can be achieved through the following three basic protection concepts.

Structural explosion protection



Explosion pressure resistant design

The vessel or system component to be protected is designed for the maximum explosive overpressure to be expected. Although deformations are permissible, the vessel must not burst.

An integral element of the explosion-proof design is the explosion isolation, for instance with VENTEX® explosion isolation valves, which prevent propagation via pipes into connected vessel and system parts.



Explosion venting

The vessel or system component to be protected is designed for a reduced maximum explosion overpressure to be expected. In the event of an explosion, specific devices such as rupture disks open and the pressure escapes to the outside.

Explosion isolation, using the explosion isolation flap valve REDEX® Flap for example, also prevents the explosion from propagating via pipes into upstream and downstream system parts.



Explosion suppression

The plant is equipped with sensors and detectors, which detect an explosion immediately after it occurs and then extinguish it totally.

Explosion isolation devices such as the explosion isolation valves REDEX® Slide or RSV also reliably prevent propagation into neighbouring system parts with this protection concept.



Explosion isolation valve VENTEX®.

The benchmark.

This has been providing proven protection in a wide variety of systems or applications for decades, where it guarantees maximum safety without external energy.

- / Passive protection system, no need for detection and control
- / Explosion direction possible in flow direction
- / Can be used for pressure resistant design, explosion venting and explosion suppression
- / Approved for organic and metallic dusts, hybrid mixtures and gases
- / Minimum maintenance expense
- / Wide variety of designs, flexible in use
- / Vertical and horizontal in use

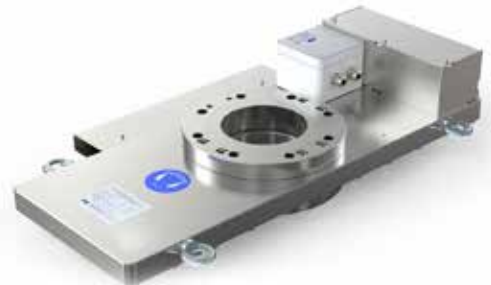


Explosion isolation slide valve RSV.

Nothing closes faster.

This offers explosion isolation in a broad spectrum of applications – all without pressure drop. It all satisfies the highest hygiene requirements in food and pharmaceutical applications.

- / Active protection system with shortest installation distances
- / Any installation position
- / Can be used for pressure resistant design, explosion venting and explosion suppression
- / Approved for organic and metallic dusts, hybrid mixtures and gases
- / Wide variety of designs, flexible in use
- / Can be used for product carrying lines
- / Minimum maintenance expense



Explosion isolation flap valve REDEX® Flap.

Simply sophisticated.

This represents an attractive and, at the same time, technically sophisticated solution for protecting systems passively against explosion propagation.

- / Passive protection system, no need for detection and control
- / Can be used in combination with explosion venting and explosion suppression
- / Explosion direction against flow direction
- / For organic dusts
- / Mechanical locking
- / Low pressure loss

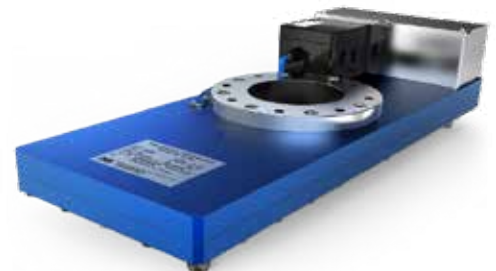


Explosion isolation slide valve REDEX® Slide.

Its very essence perfected.

Optimised for explosion suppressed or venting systems, the REDEX® Slide represents an attractive solution with very short installation distances.

- / Active protection system with shortest installation distances
- / Any installation position
- / Can be used in combination with explosion venting and explosion suppression
- / For organic dusts
- / Minimum maintenance expense
- / Can be used for product carrying lines





EXPLOSION ISOLATION FLAP
"Explosion Isolation Flap" (EIF)
Type: EIF-100
Material: Steel
Size: 100 mm
Weight: 10 kg
CE mark
fico
Explosion



The safe choice.

Correctly maintained.

Together with our customers, we work daily towards retaining safety over the entire service life of components and systems.

The safety and productivity of your plant are paramount for us. That means we provide dedicated local service coupled with first class spare parts availability. This lets you concentrate on production, without continually having to worry about the safety of your employees.

Internationally trained service technicians are deployed by RICO Sicherheitstechnik AG to this end. They provide support not only for maintenance work on our components but also when modernising your systems. Our application-oriented IT-solutions enable you to keep an overview of pending maintenance at any time, thus allowing you to plan schedules perfectly.

We are used to responding flexibly to changing processes and requirements. Our products are designed for diverse applications and fulfill a wide variety of requirements. In the event of changes to processes or the environment, we can modify the installed products in close coordination with you, as and when required.

We also train your employees for preventive maintenance. This means you can rely on maximum safety with even greater ease and flexibility.

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