Premium Explosion Protection

- Explosion panels
- Indoor venting systems
- Explosion isolation / -suppression
About us…

The REMBE® headquarters are located in Brilon/Germany. Since 1973 REMBE® GmbH SAFETY + CONTROL has manufactured world class safety- and measurements products.

Our unique team at REMBE® is a highly motivated crew of 70 people comprising both, skilled craftsmen and degreed engineers. Combining their dedication with an unequalled track record in the safety and control business is a perfect starting point for worldwide success. Every REMBE® employee is an important component of this system, integrated into the whole by living it and consequently taking the tasks to heart. Quality became a way of life for us and is a decisive feature in the superb performance of all REMBE® products.

In the Safety Division we provide bursting discs for general applications and pressure / vacuum relief valves as well as explosion protection systems engineered for various applications.

By means of the latest production technologies, as there are laser- and welding equipments combined with precision tools we are manufacturing the products of the Safety Division as standardised or engineered units.

Our extensive material stock is the basis for flexible production which offer you even exotic materials (Inconel, Hastelloy, Titanium, Tantalum, Aluminium, Monel, Gold, FEP, etc.) at any time. It enables us to realize even extraordinary customer requests at short term.

All REMBE® products are manufactured acc. to national and international guidelines / normatives including ASME, ATEX, DIN-EN ISO 4126-2, 4126-6, AD2000-Merkblatt A1, PED, Promatomnadzor, GOST, SQL, API, BS2915, KTA, NFPA…

Numerous applications in chemical-, plastics-, pharmaceutical- and food industries testify the reliability of the REMBE® products as well as the long-lasting, custom-designed experience of our degreed engineers.
Intelligent elimination of explosion damages - we provide the solution!

| ERO | Sterile explosion venting  
|     | Rectangular up to 2 m² (21.5 sqft) venting area  
|     | • 100 % efficiency  
|     | • for food and aseptic applications (FDA-approved)  

| ODU | High performance explosion venting  
| ODV | DN 25 - 2000, (1" - 80") rectangular up to 2 m² (21.5 sqft) venting area  
|     | • maintenance-free  
|     | • perfect opening characteristics  
|     | • longest lifetime  
|     | • function dispersion of short element and vacuum resistance  

| EDP | Controlled explosion venting  
| EX-GO-VENT | standard dimensions  
|     | round and rectangular trapezium and sail panels  
|     | • flexible bionic structure  

| EXKOP® II | Quench valve  
| EXKOP® MINI | with electronic controller  
| Q-Flap | DN 80 - 600 (3"-24")  
|     | • easy and quick installation  
|     | • self-monitoring  
|     | • minimum maintenance  
|     | • fail-safe  

| Q-Rohr®-3 | Indoor explosion venting  
| Q-Box | • no vent ducts  
|     | • no access to outside  
|     | • passive system  
|     | • maintenance-free  
|     | • pressure and noise absorbing  

| ElevatorEx® | Protection concept for elevators and transport systems  
|     | • self-monitoring  
|     | • easy installation  
|     | • retrofittable  
|     | • water mist based  

| Q-Bic | Isolation of big pipes and rectangular shafts by means of dry powder  
|     | • more safety in case of installing or retrofitting the flanges  
|     | • remote maintenance possible  
|     | • self-learning pressure detectors  

Advice! Important information about defined functions

Additional information about defined functions and benefits
Primary explosion protection only provides a limited safety

Special attention is placed on the elimination of the ignition source. The potential source of ignition is for example mechanical or electrically produced sparks, frictional heat, electrostatic charges (look up earthing systems from kerstin Industrieausrüstungen, a REMBE® ALLIANCE company), welding or other heat sources. Due to the high amount of potential ignition sources, you can imagine the difficulty in eliminating them all.

Similarly the removal of the fuel is impossible as this is the actual product or a waste product produced in the production process. The last action, is to completely remove the oxygen. This can only be achieved through very expensive processing. The security limits here are also rapidly reached and the risk of a dust explosion can not be excluded. Therefore a constructive explosion protection is essential.

Enormous economic damage…

An explosion is a violent expansion or bursting caused by a sudden release of energy from a very rapid reaction creating enormous temperature and pressure increases. Most common reactions are of flammable gases, vapours and cracked dusts - together with ambient oxygen. As a result of today’s production technologies and increased production capacities an explosion is a threat companies confront daily.

Manufacturing or production processes which create organic or chemical dusts are extremely hazardous. Finer particles of dust caused by faster machines, automatic conveying systems and air cleaning equipment increase the risk of a dust explosion.

The finer the dust particle, the more severe the explosion will be. International guidelines including ATEX 95 (valid for manufacturers of machines and plants) or ATEX 137 (valid for operating companies) require companies to consider the consequences of a dust explosion to injured workers and damaged plants.

In addition, the economic risk to the company due to plant shutdown, contaminated product or adverse publicity must be considered.

Three requirements have to be met in a modern protection concept:

1. Profitability
   The concept has to be economical to implement, operate and maintain.

2. Reliability
   The protected facility has permanently and optimally to be available. A break in daily operations, due to false triggering, must be avoided.

3. Safety
   People and machine must be insured of an explosion protected environment, through constructive and effective directives.

All of these features are met by REMBE®.

Consequently, REMBE® customers trust passive safety systems.
Therefore REMBE®

REMBE® offers optimal bursting disc constructions for all applications and working conditions. For the use in corrosive atmosphere or in case of extreme working conditions, e. g. frequent changing, pulsating pressure and vacuum REMBE® offers the applicable bursting disc. Standard burst panels require a special mounting procedure due to their dependency on torque requirements. These standard panels are far less efficient and require additional installation time resulting in higher costs. REMBE® bursting discs distinguish themselves by extremely precise burst pressures. These panels guarantee 100 % efficiency and enable you to save space and money by optimising the installed venting area. REMBE® bursting discs are fragmentation-free and have ideal opening characteristics which leads to lower reduced pressure (P_{red}). Translate the many benefits of REMBE® bursting discs into substantial savings of time and money for your company.

<table>
<thead>
<tr>
<th>Working condition</th>
<th>Application</th>
<th>Standard Burst Pressure (mbar g) @ 22 °C</th>
<th>Lowest Possible Burst Tolerance (in %)</th>
<th>Design</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>15</td>
<td>single-layer</td>
<td>ERO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>10</td>
<td>triple-section</td>
<td>ODU</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>10</td>
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<td></td>
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<td>15</td>
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<td>EDP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>15</td>
<td>single-layer</td>
<td>EX-GO-VENT</td>
</tr>
</tbody>
</table>

ERO sanitary bursting discs are for food and pharma processing equipment that has to be protected against pressure as well as dynamic explosion pressure rise. The process is sealed by the complete smooth and homogenous stainless steel membrane of the ERO. The patented concept (Pat.-No. EP 07 73 393) allows robust construction in combination with low response pressures. The ERO is the one and only sanitary bursting disc with USDA permission.
These domed triple-section bursting discs developed by REMBE® are successfully in use for more than 30 years - distinguish themselves by their sturdy construction and reliability. Triple section bursting discs of type ODV are mainly used for applications with low or middle burst pressures. The burst pressure is determined by the burst element with integrated breaking points and its sealing part. Breaking points are made by CNC controlled laser microcutting machines, that means the highest possible precision in case of required pressure is guaranteed. ODV bursting discs are applied to working pressures up to 80 % of the specified burst pressure. The sealing part (in case of low or middle burst pressure predominantly of teflon) isolates the bursting membrane from the process - especially on corrosive media. ODU triple-section bursting discs are suitable for applications without vacuum resistance.
Single-layer explosion vents

**EDP**

The single-layer EDP explosion panel is suited for slightly fluctuation working pressures. Due to its domed construction high stability and current capacity of change in pressure are achieved. The rated breaking points (Pat.No. EP 07 73 393) are integrated within the mounting frame. Contamination is minimised by its domed construction. Sterility and cleaning is simplified (SIP / CIP cleaning). In this case mounting is directly made on walls. Controlling the clamping torque of the mounting frame screws is not necessary.

![Silo with domed single-layer burst panels in the wood-processing industry](image1)

**EX-GO-VENT**

Incorporated bionic structures guarantee an extraordinary stability in order to suit most standard applications. It is not required to control the clamping torque of the screws compared with similar competitors constructions. Mounting is directly made on even walls or round-shape equipment, e.g. cyclones, filters, silos, etc.

![EX-GO-VENT panels - filter system: Holtrop & Jansma, NL](image2)

![EX-GO-VENT sail panel](image3)

![EX-GO-VENT trapezium panel](image4)
Accessories / Options

Signalling

Explosion pressure relief of all bursting discs can electrically be signalled by the principle of a closed current break. Two standard types are available:

**Type SK / SR**
The signalling cable is installed at the breaking point of the bursting disc. If the bursting disc opens, the safe circuit is interrupted due to the cable break. The signalling cable has proven itself as a very reliable method, as there is no additional assembly required and no movable parts remain.

**Type BIRD**
This signalling unit is suitable for retrofitting already installed bursting discs. A ceramic bar provided with electrical conductors is mounted in flow direction. In case of bursting the element breaks, the safe circuit is interrupted like type SK.

**Signal evaluation**
Signal evaluation can be realised by barriers with relay output which is used for safe disconnection of the installation, alarm, etc.

Assembly accessories
Assembly kits, e. g. installation frames in galvanised or stainless version with corresponding screws are available - if requested.

External isolation
REMBE® bursting discs are manufactured with a weather-proof insulation in order to prevent from reduced dew point, especially in case of applications in food industry or heat insulation. Only closed-cell elastomer with reflecting high-efficient coating is used. The insulation is permanently connected with the bursting disc and of light weight. Therefore an effective opening of the bursting disc is guaranteed.

Gaskets
Following gasket qualities are available as accessories:

<table>
<thead>
<tr>
<th>Sealing Material</th>
<th>Temperature in °C</th>
<th>Temperature in °K</th>
<th>Temperature in °C</th>
<th>Temperature in °K</th>
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<tr>
<td></td>
<td>min.</td>
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<td>min.</td>
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<tr>
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<td>-50</td>
<td>223</td>
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<tr>
<td>Klingersil</td>
<td>-100</td>
<td>173</td>
<td>400</td>
<td>673</td>
</tr>
</tbody>
</table>

FDA approved materials for sterile applications, e. g. silicone, EPDM are available. Further gasket qualities on request.

Certifications, inspections, guidelines
All models are certified acc. to ATEX guideline 94/9 EG and approved by certification no. FSA04 ATEX 1538X. Every single batch is manufactured acc. to the requirements of prEN 14797, tested and supplied to our customers with test certificate acc. to EN 10204-3.1. The REMBE® quality management system has already fulfilled besides the common ATEX certification (BVS03 ATEX ZQS/E21 0) very high quality management requirements in the field of nuclear power and aerospace, e. g. KTA 1401, China Certification SQL, ASME, ESA, etc. The REMBE® team advises you selecting the fitting product and supports you calculating the effective venting area. Calculation is made acc. to VDI guideline 3673, prEN 14491, NFPA 68, etc.

Insulation / Gaskets / Inspections

Assembly / Options

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<td>223</td>
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The purpose of the passive non-return Q-Flap is to protect horizontal aspiration lines with a maximum dust concentration of 1/10 of the LEL (lower explosion limit) and a flow velocity between 15 - 30 m/s. The opening angle of the stainless steel flap is 25° in closed position plus an additional 35° during flow. So total angle is 60° what leads to a low pressure drop but quick enough shutting to stop the explosion. Due to extensive research work and testing under real explosion conditions we were able to approve the Q-Flap function for Dust-Ex-Classes St 1 oder St 2 (max. KST-value = 300 bar x m/s). Q-Flap is applicable for reduced pressure ($P_{red}$) up to 0.5 bar (72.5 psi).

The Plus version of the Q-Flap offers a wear and tear sensor that monitors the abrasion that might occur on the flap itself. Both versions are equipped with an integrated clogging sensor that indicates any kind of product accumulation underneath the seats and ensures safe closing of the flap.

Two separate inputs (bursting panels, Q-Rohr, spark detectors, etc.) can be combined with two quench valves QV II.

The use of the system is easy and works acc. to the „one button easy handling“ philosophy. As usual all events are observed by a ring storage memory.

Advanced technology with EXKOP® MINI and QV II quench valve realized by a new activation system allows totally new applications.

### Diameter | Quenchseal | Quality 
---|---|---
DN 80 (3”) to DN 250 (10”) | natural rubber | abrasion resistant 
DN 80 (3”) to DN 250 (10”) | natural rubber | food quality

**Your benefits:**
- failsafe
- quick reset
- reinforcements not necessary
- bi-directional function

Q-Flap / Q-Flap Plus

The quench valve is triggered by 100 % reliable signal from the maintenance-free triple-section bursting disc, the Q-Rohr®-3 or by IR-, pressure or temperature sensors. The complete system is failsafe due to an integrated pressure storage tank and self-monitoring controller. In case of explosion the plant personell can reset the EXKOP® system quickly and easily after inspection. Plant downtime is reduced to a minimum.

The EXKOP® has especially been developed for applications with 1-2 quench valves. EXKOP® MINI fulfils these requirements in an ideal manner.

Proven isolation of pipelines with EXKOP®

**Your benefits:**
- applicable for organic and inorganic dusts, passive system, no triggering sensors necessary
- low-priced compared to other decoupling systems
Indoor explosion venting

The REMBE® Q-Rohr®-3 guarantees the indoor explosion venting without any flame and dust propagation.

The Q-Rohr®-3 is maintenance-free, that means it does not cause any operational costs. Therefore this system is more economical compared with active suppression systems. Even OEMs consider the simplified and cost-saving Q-Rohr®-3 for the installation of new plants. Optimised processes ensure efficient production.

Conventional explosion venting with bursting discs:

1. Entry of explosion gas
2. Explosion venting
3. Preparation for new explosion

Thermographic records of a simple vented dust explosion

Q-Rohr®-3 in sizes 8" to 32
Easycleaning of Q-Rohr® after explosion event

Optionalsanitary cover keeps Q-Rohr® clean

REMBe® Q-Rohr® installed in a sugar refinery

Easy cleaning of Q-Rohr® after explosion event

The Q-Rohr®-3 consists of an integrated REMBe® bursting disc which vents the explosion wave in a controlled manner into the Q-Rohr®-3. Flame gases with temperatures higher than 1,500°C (2,732°F) are cooled down to less than 90°C (195°F) via energy transfer within the special stainless steel mesh filter inlet. This leads to a reduction of the expanding gas volume as it extinguishes the flame. Additionally, the pressure rise and high noise level associated with a free vented explosion are reduced to negligible levels. The specially developed stainless steel mesh filter guarantees that no burnt or unburnt dust passes off the Q-Rohr®-3. The Q-Rohr®-3 is reusable immediately after cleaning.

The Q-Rohr®-3 system is the only indoor explosion device recognized worldwide by NFPA68 and accepted also by VDI-3673 and prEN 14797.

---

### Technical Data Q-Rohr®-3

<table>
<thead>
<tr>
<th>Type</th>
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<td>1.2</td>
<td>4.5</td>
<td>7</td>
<td>18</td>
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<td></td>
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<td>42.4</td>
<td>159</td>
<td>247</td>
<td>636</td>
<td>848</td>
<td>1130</td>
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</tbody>
</table>

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Optional sanitary cover keeps Q-Rohr® clean

Identical testline: This time vented with Q-Rohr®:

Your benefits:
- expensive vent ducts are no longer necessary
- full protection of environment
- optimised production processes
- no downtime due to false triggers
Flamereduced explosion venting for indoor and outdoor applications

The Q-Box is the result of innovative REMBE® safety research and development.

The new protection concept provides flamereduced venting of dust explosions. Industrial plants with low strength and the demand for large venting areas are protected safely and economically - flame propagation and heat are absorbed.

The Q-Box allows operators to position machines and equipment acc. to process requirements. Cost-saving and flexible for indoor- and outdoor applications.

Applications

- to make existing vent applications safe
- to avoid flame propagation and heat on transport routes by venting
- replaces expensive vent ducts

Features

- incl. bursting panel, gasket and signalling unit
- fits standard rectangular bursting panel sizes

The Q-Box protects

- bucket elevators and conveying systems
- dust filters
- silos and bunkers

**Your benefits:**

- Q-Box instead of expensive vent ducts
- optimised production processes
- no maintenance costs
- safe transport routes
- easy and quick installation

**Q-Box Type**

<table>
<thead>
<tr>
<th>Q-Box Type</th>
<th>cm</th>
<th>305 x 610</th>
<th>586 x 920</th>
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<tr>
<td></td>
<td>inch</td>
<td>12 x 24</td>
<td>23.2 x 36.2</td>
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<tr>
<td>Eff. venting area</td>
<td>cm²</td>
<td>700</td>
<td>2000</td>
</tr>
<tr>
<td></td>
<td>sq inch</td>
<td>108</td>
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<td>kg approx.</td>
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<td>95</td>
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<tr>
<td></td>
<td>lbs approx.</td>
<td>77</td>
<td>209</td>
</tr>
</tbody>
</table>

All dimensions are nominal - further sizes on request.
The increased number of explosions in conveyor and elevator systems illustrates the inherent danger of these systems.

A Q-Rohr®-3 / Q-Box vents the base and the top of the elevator without need of additional vent ducts. Infrared sensors detect a propagating flame and trigger a specialized water mist suppression system. Fine water mist extinguishes the flame and prohibits any propagation of the eminent explosion.

Its ability to be retrofitted into existing structures gives it an additional economic advantage.

Your benefits:
- clean process
- easy to retrofit
- no maintenance or excessive service
Explosion suppression system – optimised for individual requirements

Q-Bic

This system is suitable for indoor applications where the explosion cannot be discharged to the outside. It extinguishes the explosion at the point where it occurs.

Combustions are identified and stopped in the beginning. The starting explosion is suppressed due to prompt blowing out dry powder in the endangered area. The dry powder extracts the heat and the explosion is inerted. As the explosion is limited consequential losses are cut to a minimum.

Your benefits:

- more safety in case of installing or retrofitting flanges by means of manual locking mechanism
- quick and cost-saving maintenance by reusable valve
- safe and cost-efficient isolation of big pipes and rectangular shafts
- detection via a bursting disc or optional via a dynamic pressure detector

Explosion suppression system at a vessel

Intelligent PXD sensor

Q-Bic extinguishing bottle and trigger mechanism

REMBE®-Q-Bic-system for protection of pipes and vessels
Competence in explosion protection due to worldwide application experience

Safety Division

We provide the solution even for difficult applications.

In 35 years REMBE® has built-up a highly qualified team of experts. This unique experience in applications combined with our technical know-how gives you the confidence required when planning and carrying out your explosion protection concept.

Your benefits from REMBE®:

1. Active cooperation in international standardisation committees and boards
   REMBE® has brought its knowledge into the following European and international boards such as CEN, NFPA, ESMG, VDMA, WGI, VDI, ABNT and RosGORTECHNADZOR.

2. REMBE® technical seminars
   We provide training of our products including live demonstrations locally or in groups of up to 200 people on site.

3. On site consultation
   Request a visit from our specialists.
   After taking a look at your site we will create an appropriate tailor-made concept for you. REMBE® engineering relishes an excellent worldwide reputation.

4. Optimised process safety - big cost savings
   Reduce your insurance payments by implementing a comprehensive safety concept. If you are thinking about an investment in your safety concept - we will advise you.

Contact us! We’ll help you immediately.

Benefit from REMBE® competence!
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Safety Division

Process Safety

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**ERO** Pat.-No. EP 07 73 393 / ODV / ODU / EDP / EX-GO-VENT

**Indoor-Venting-Systeme**
**Q-Rohr®-3** Pat.-No. DE 38 22 012 / Q-Box /

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**EXKO® II** Pat.-No.** EP 05 59 968**

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**ElevatorEX®**

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**C-LEVER® II**

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