



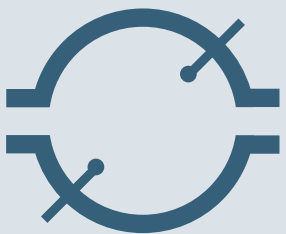
 explosion protection



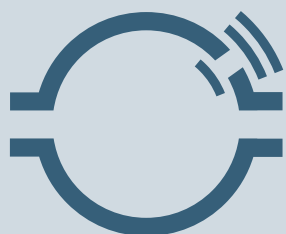
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English

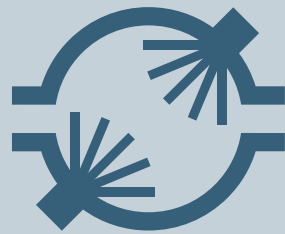
For more than 25 years



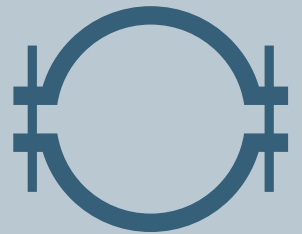
Detection



Venting



Suppression



Isolation





ATEX – Who isn't aware of the ATEX Directive EG ATEX 2014/34/EU? Ahead of his time, engineer Dr. Franz Alfert was developing tailor-made explosion protection concepts many years before the Directive was introduced. However, as he was unable to find any one supplier to cover the production and supply of his ideas and concepts, he founded ATEX Explosionsschutz GmbH. This enabled him to deliver one-stop solutions to many different sectors of industry.

Competent, solutions-orientated, flexible

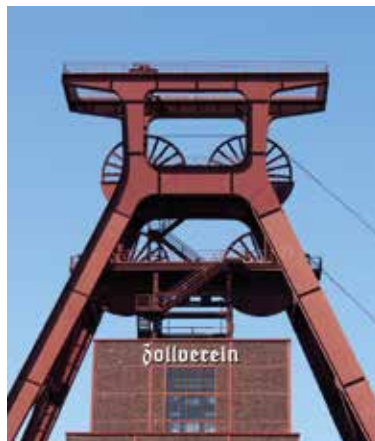
Since then, ATEX has been developing solutions that are tailored to customer processes to protect people, the environment and facilities from explosions and fires. ATEX explosion-protection components and systems are used around the world, especially in areas where flammable powders are manufactured, processed, packaged and stored. Its head office is located on a large site a few kilometres east of the Ruhr Region, where 80 employees contribute to the company's success. The company has over 140 employees around the world.

Our aspiration:

To be wherever our customers are!



What is explosion protection?



Explosions can occur anywhere where flammable powders are manufactured, processed, packaged and stored and where ignition sources cannot be avoided.

The ATEX fire and explosion-protection concept integrates the practical necessities of a production-orientated industrial facility with essential safety measures. By doing so we guarantee that your facilities can operate seamlessly with full availability at all times!





“Explosion protection safeguards investments and helps save money. After all, it’s a lot more expensive to rebuild...”

Dr.-Ing. Franz Alfert, Managing Director

Customers who come to us are looking for solutions. Some are sent to us by their insurance company, and others may have suffered a damage event. Whatever their reasons for seeking us out, they want to make sure that their investments in people and machinery will be safe in future. We offer this safety – on many levels.

Tailor-made yet flexible – solutions from ATEX

We can develop tailor-made solutions for all situations, requirements and needs by working with our customers and exploiting the benefits of our experience in industrial explosion protection spanning more than twenty years. That’s how we help protect your investments!

Detection

“Early fire-detection starts paying for itself straight away. It reacts before you do!”





The original! And still unsurpassed!

We were the first and most successful provider of early fire-detection systems. Tried and tested for decades, our early fire-detection systems have been successfully installed and supported in all areas of industry.

It is our ability to draw on our experience that sets our solutions apart from all others. This is based on a comprehensive knowledge and profound understanding of your processes.



Calibration of an ACOM system

Prevention through control

The ACOM detection systems analyse the air from your processes for volatile pyrolysis components following the earliest signs of thermal decomposition and the formation of hot spots, which means that they detect self-ignition processes whilst they are still forming.

Using the measured values and in the context of your specific process conditions the ACOM detection system can intervene directly in your process management and react accordingly, after a joint safety concept has been developed. This protects your facility from damage at an early stage.

Forewarned is forearmed. That is how to protect your facilities.



Vent panels act as a predetermined



“Explosion venting is the most natural form of explosion protection!”



Pressure-venting equipment limits explosive pressure by venting excess pressure and the flame front in a targeted and precisely defined manner.

It is often described as the simplest form of explosion protection. A venting panel involves low investment costs and simple handling.

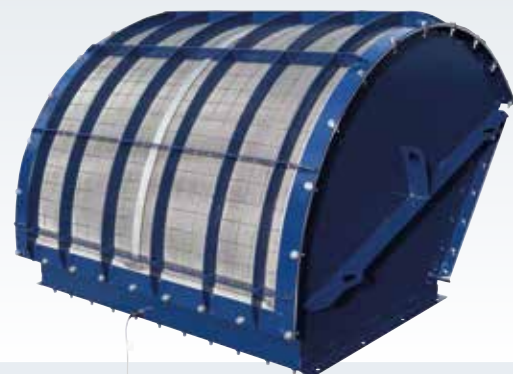
Effective explosion protection is achieved by precisely defining the dimensions and installation of the venting panel.

Our experts will be by your side from the very outset, as this is the only way to ensure that the venting panel remains the most natural and simplest form of explosion protection for you.

Flameless venting: Invented by whom? Dr. Alfert!

In an explosion, both the explosive pressure and the flames need to be guided into a safe environment. Indeed, the unburnt powder that is propelled outwards by the pressure can ignite to create a jet or ball of fire which can quickly cover 30 metres or more.

As early as the 1980s Dr. Alfert developed a technique that stops this dangerous flame propagation and by doing so enables explosion-venting systems that can also be deployed inside buildings. The containers with a smaller volume are ideal protection for employees and facilities.



Explosion suppression

**“An explosion that no one notices? Not possible?
Actually, it is! Using explosion suppression!”**

Project engineer, ATEX Engineering



Powder or water vapour?



Explosion suppression is not only gaining in importance because of its reliability, it also guarantees the availability of facilities, even after an explosion.

That may sound unbelievable. But the rising explosive pressure is identified within milliseconds and an extinguishing system that reduces the effects of the explosion to a defined minimum is activated. That means that employees, facilities and the environment are effectively protected. Additionally, ATEX explosion suppression features a high level of work-

place safety. The suppression bottles are mechanically sealed as standard and their availability and functionality are permanently monitored by our safety control team. SIL level 2 is mandatory for our systems.

We are the only manufacturer in the world who can provide explosion suppression for your facility using hot water. These systems are being increasingly used in places with strict hygienic requirements, such as baby food manufacturing facilities.

Regardless of whether an explosion-suppression system is equipped with powder or hot water, one thing is certain: as a part of the ATEX explosion-protection principle they offer 100% protection for employees, facilities and the environment.

Intelligent bottles? No, that's no joke!

In addition to ensuring a high level of workplace safety, ATEX suppression bottles are programmable, which means their availability and functionality can be checked at any time. That not only lowers maintenance

costs, it also gives you the certainty that your employees and facilities are well protected.

Practical accessories: The mobile water trolley. This enables hot-water systems to be filled and emptied.



Explosion isolation

**“Secondary explosions cause
the most severe damage!”**

Head of Construction, ATEX Engineering



explosionprotection

Long service life, rapid deployment!



Anyone who knows anything about explosions and their consequences knows that secondary explosions cause the most severe damage!

The mistake of only protecting the containers is made time and again. What is often overlooked is the fact that if an explosion carries from one container to another, this is significantly stronger due to the pre-compression effect. If this happens even an explosion-protection system doesn't have a chance. For that reason, explosion isolation is an essential component in the development of explosion-protection concepts.

Our engineers and developers constantly strive to focus on your needs. We consistently seek to guarantee a high degree of safety and availability.

That means maximum protection, no impairment of your processes and fast repairs and restoration of availability after an incident.

**You can depend on that!
It's what we stand for.**



Stainless-steel float valve

Fast-closing valve:
closes within milliseconds

Both our passive and active decoupling systems and components slot neatly into your processes, reliably isolate the parts of your facility and, depending on the component, can be immediately redeployed after being triggered without any repair downtime or costs.

An explosion-protection system cannot do any more. But it should also do no less.

Manufacture



Others talk about quality – for us it's a way of life!



Our employees are there for you at every step in the lifecycle of an ATEX product. They develop and manufacture the components and systems based on our experience and your suggestions! We optimise the interaction of the individual components, ensure maximum safety and also realise special and individual solutions in short timeframes.

Naturally, our quality management processes are certified!





“If our customers are satisfied, so are we!”

Our products set themselves apart through their user-friendliness. This quality is further underpinned by ATEX service.

We look forward to winning you over with our fast deployment and 24/7 availability. You benefit from the fact that we have many spare-parts stores around the world, meaning that we can support you not only with advice, but also spare parts.

Our specialist teams offer you competent advice and prompt assistance. We believe that commitment, competence and flexibility are just as important as friendliness.

Our top priority is customer satisfaction!





“Our integral solutions offer you peace of mind and safety so you can concentrate on your business.”

Sales Manager, ATEX

We have developed a close-knit network for you, particularly in Europe. Skilled engineers are always available to you locally for planning assistance and advice at short notice. Service points and our own warehouses ensure that we can make fast deliveries.

We deliver fast solutions to your urgent problems and all our customers know they can depend on our commitment and flexibility. We support you from the very outset and remain at your side across the entire lifecycle of our explosion-protection systems and components!

We see our products as a service!



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