

REPAIR AND PREVENTION

PRODUCTS BROCHURE



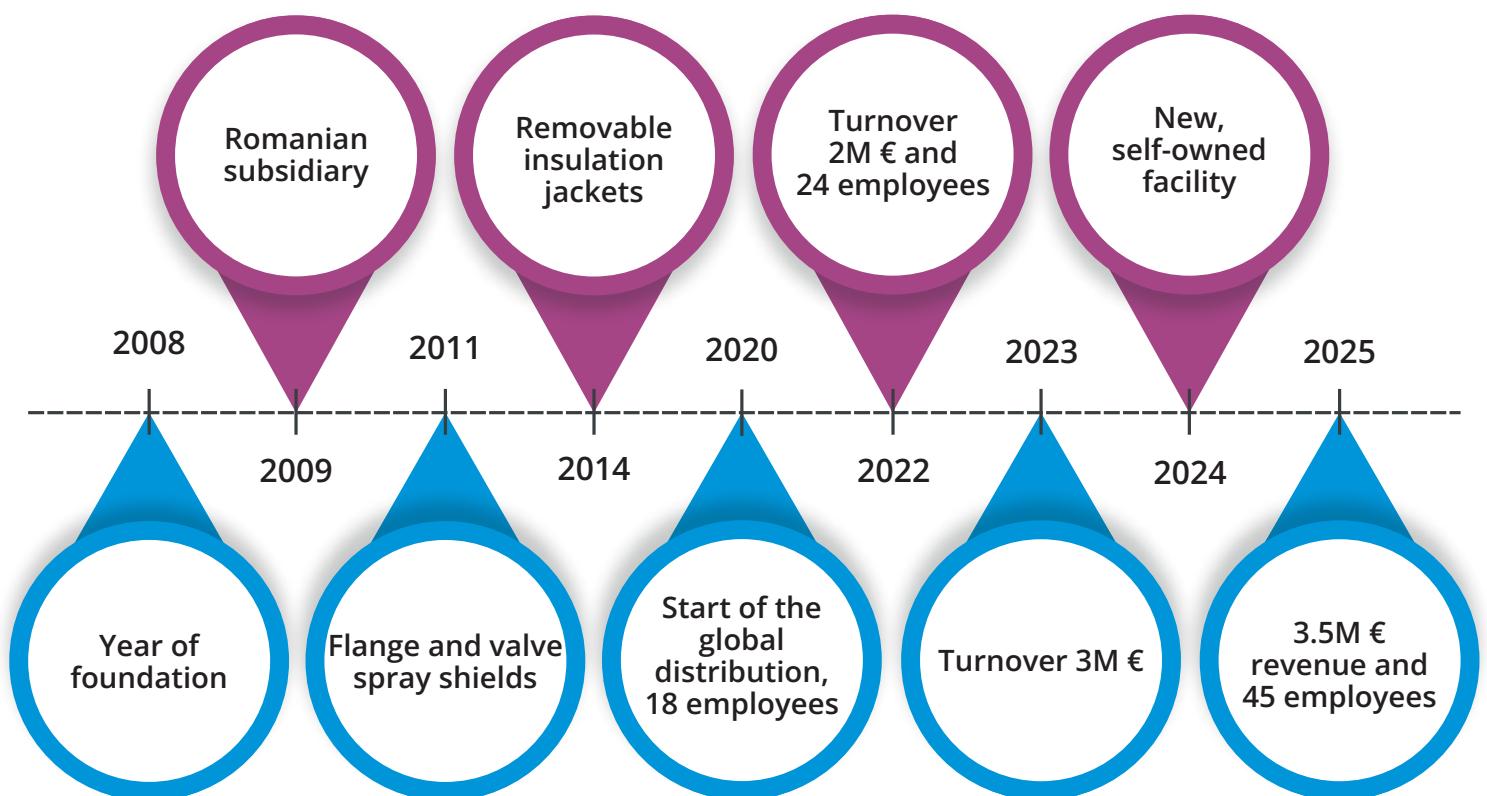
About us

Our mission is to ensure that we provide the right service, solution and product at the right time to minimize our clients' operational costs. We don't want to be the biggest, but we do want to be the best in all we do, offer and supply.

"The reward for job well-done is the opportunity to do more... is what drives us. "

Karoly Feher, CEO

Our Milestones



Dynoteq Ltd. has been operating since the year 2008 as a 100% Hungarian-owned family business. We deal with the distribution and manufacturing of special sealing products as well as the thermal insulation materials. We have been dealing with sealing technology since 2004, so we have some 18 years of experience in this field.

We consciously built and build our company around industrial activities. Our goal is to serve the ever-increasing and changing needs effectively. We carefully examine all problem areas or applications to provide our costumers with the most suitable product, thus providing the best solution.

Our range of products and service is build by our costumers' diverse needs. We advise and consult our costumers in any aspect to cover the demands of the end-user in any industry. We are application driven and can with our flexible approach meet almost any material requests.

Repair & Prevention overview

Regular maintenance is essential if you wish to delay the deterioration and extend the service life of your equipment or machine used in the process. Especially important if the production downtime costs more per day than the whole maintenance work. That is why the preventive maintenance is more and more popular, where the replacement or maintenance is scheduled based on equipment usage.

Our prevention solutions include the widest range of state of the art technology used in the industry, e.g:

- Flange and valve spray shields
- Pow-R Wrap repair kits
- Flange insulation kits
- Flange tags

Even though all of our customers try their best with preventive maintenance, there will always be some unexpected urgent problems to be solved, that is when reactive maintenance comes in. These acts are in need of fast, in-place, easy repairing technologies that can help to operate the system until the next scheduled maintenance (e.g: fast leak repairing with Pow-R-Wrap).

Repair and prevention product range



Spray shield



Pow-R Wrap



Flange insulation kit



Flange tags

Areas of application

We can provide our customers with the widest range of products and solutions.

From the most used, standard, mainstream versions, and brands, to the more complex, premium types. We have partners from all around the world who all are putting solutions and end-user needs on the first spot.

Our portfolio is driven by the market & end-user specific demands, thereby assuring we can supply top quality and safety-first solutions for any application.



Full service provider

One of our main focuses is to be building products and services range by costumers' diverse needs. One such tools is our stock capabilities enabling us to reduce lead time and making all our customers' needs fulfilled. We can assure the best choice as well as optimal delivery.

Our clients work in the different industries, each with its own specific challenge. We help with current issues with solutions from our knowledge, network, and stock. If needed, we also work closely together to manufacture new solutions based on the unique situation.



DynoGuard[®] spray shields

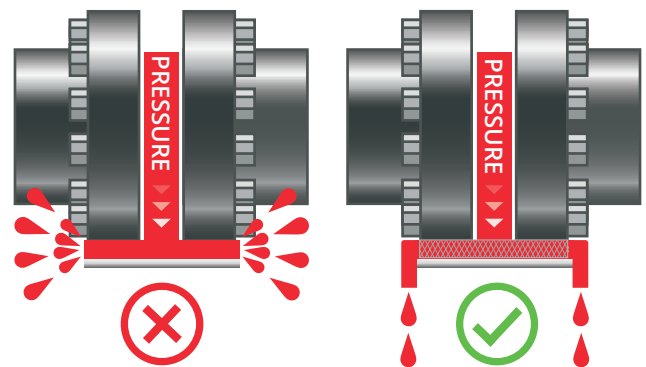
Protection against leaks and blowouts

Product characteristics:

Resistant to almost all types of chemicals, spray shields can be used in all dangerous liquids-handling industries. Ability to be removed and reinstalled in as little as 30 seconds provide quick access to the valve or equipment. Expensive leaks and industrial accidents can be easily prevented. Spray shields can be mounted to almost any surface type:

- flanges
- valves
- pumps
- etc.

PDT (Pressure Diffusion Technology) uses a specially formulated multi-layered stainless steel mesh that is held against the flange. The pressure is diffused in a controlled manor thus preventing formation of a mist or vapour cloud. At the point of exit from the shield, the leak takes the form of a safe, vertical drip or stream as shown on the diagram.

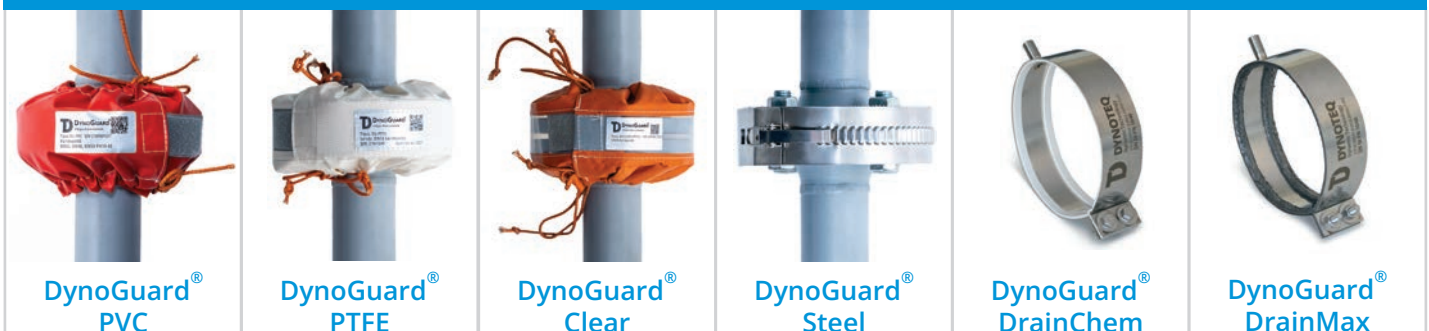


Advantages & properties:

- **FAST:** The spray shield can be removed in 30 seconds and then installed in the same amount of time and provides quick access to the valve or equipment.
- **SAFE:** With the application of DynoGuard safety flange spray shields the expensive leaks and industrial accidents are preventable.
- **REUSABLE:** The protectors are reusable after the leak has been terminated



Dynoteq Spray shield overview



DynoGuard® PVC

Composition:

- Base material: PVC coated PE fabric
- Indicator paper (optional)
- Glass fibre + PTFE drawcord
- 100% PTFE sewing thread

Working conditions & typical applications:

Max. temperature*	60 °C
Max. pressure*	25 bar
pH range	0-14
UV resistance	excellent
Typical applications	Low temperatures, chemicals, acids

*The pressure/temperature shown above can not be used simultaneously.



DynoGuard® PTFE

Composition:

- Base material: Glass fibre + PTFE
- Indicator paper (optional)
- Glass fibre + PTFE drawcord
- 100% PTFE sewing thread

Working conditions & typical applications:

Max. temperature*	232 °C
Max. pressure*	50 bar
pH range	0-14
UV resistance	excellent
Typical applications	Acids, alkalis, oils and hazardous chemicals

*The pressure/temperature shown above can not be used simultaneously.



DynoGuard® PTFE clear

Composition:

- Base material: Glass fibre + PTFE, ECTFE
- Indicator paper (optional)
- Glass fibre + PTFE drawcord
- 100% PTFE sewing thread

Working conditions & typical applications:

Max. temperature*	150 °C
Max. pressure*	25 bar
pH range	0-14
UV resistance	excellent
Typical applications	Acids, alkalis, oils and hazardous chemicals

*The pressure/temperature shown above can not be used simultaneously.



DynoGuard® Steel

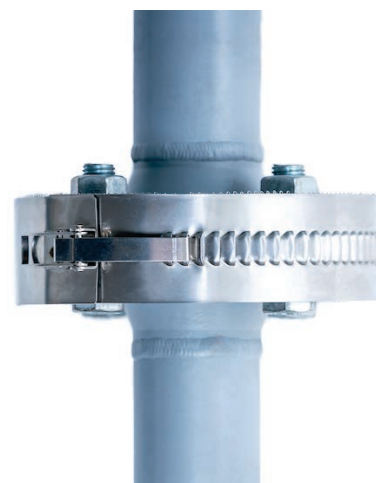
Composition:

- Base material: 1.4401 (SS316)
- Quick release strap
- PDT Technology

Working conditions & typical applications:

Max. temperature*	500 °C
Max. pressure*	270 bar
pH range	0-14
UV resistance	excellent
Typical applications	Steam and hazardous chemicals

*The pressure/temperature shown above can not be used simultaneously.



DynoGuard® DrainMax

Product properties:

The DynoGuard spray shield protects personnel and equipment around the flange from hazardous media escaping from the system in the event of a failed joint. The blowout guard is designed to protect the seal in the event of a fire, while also diverting the spill to a safe collection point.

Sealing material:

- SLADE PYROTEX expanded graphite tape with carbon fibre reinforcement

Working conditions & typical applications:

Operating temp.*	-200 to 550 °C
Max. pressure*	up to 76 bar
pH range	0-14 (except strong oxidizers)
Typical applications	Drainage and collection of dangerous liquids: steam, oil products etc.

*The pressure/temperature shown above can not be used simultaneously.



Variation of the drainage efficiency as a function of the pressure in the pipe:

Pressure, bar	10	20	30	50	76
Medium discharged, %	99,86	99,85	99,69	99,57	99,42

DynoGuard® DrainChem

Product properties:

The DynoGuard spray shield protects personnel and equipment around the flange from hazardous, even cryogenic media escaping from the system in the event of a failed joint. Due to its design, the blowout guard can divert the spillage to a safe collection point.

Sealing material:

- Expanded PTFE tape

Working conditions & typical applications:

Operating temp.*	-200 to 270 °C
Max. pressure*	76 bar
pH range	0-14 (except strong oxidizers)
Typical applications	Hazardous acids, alkalis, chemicals and cryogenic liquids

*The pressure/temperature shown above can not be used simultaneously.



Elvezetési hatásfok változása a csőben uralkodó nyomás függvényében:

Pressure, bar	10	20	30	50	76
Medium discharged, %	99,91	99,86	99,96	99,93	99,82

Pow-R range

Pow-R Wrap fiberglass tape

Product characteristics:

Pow-R Wrap is a strong, permanent, and economical repair that can mend virtually any kind of pipe and hose. Working on wet, dry, clean, dirty and under-water conditions, it's an ideal alternative to traditional methods such as:

- cementing
- soldering
- welding
- replacement

Advantages:

- Creates and maintains a pure vacuum seal around the damaged section of piping
- Provides fast, durable, and economical repairs for all types of pipe materials
- Withstands severe weather conditions and UV radiation assuring tight seal in no longer then 30-90 minutes
- Works on wet, dry, contaminated, and corroded surfaces (it can even be used underwater)

Dimensions:

Pipe diameter (mm)	Pow-R Wrap dimensions (mm)
6 - 13	25 x 750
16 - 20	50 x 750
< 25	50 x 1500
< 100	75 x 2700
< 150	100 x 4500
< 200	100 x 9000
< 250	100 x 13600
< 250	150 x 13600
< 400	200 x 13600



A Pow-R Wrap set includes:

- impregnated fiberglass tape
- two-component metal-filled epoxy
- a pair of protective gloves
- instructions for use

Working conditions and typical applications:

Pressure*	up to 40 bar
Temperature*	-50 to 220 °C
Medium	Great resistant to chemicals, oils, acids and fuels
Typical applications	Suitable for low-medium-high pressure applications, Cryogenic applications

*The pressure/temperature shown above can not be used simultaneously.

Pow-R Patch

Product characteristics:

Pow-R Patch is a complete repair kit that includes a pre-coated fiberglass cloth in self-contained mixing pouch, a pair of protective gloves and installation instructions.

Each kit will adhere to PVC, metal, wood, fiberglass, plastic and is perfect for flat and round surface repairs. Pow-R Patch is simple, fast and delivers long-term solutions!

Pressure*	up to 70 bar
Temperature*	-50 to 220 °C
Medium	Great resistant to chemicals, oils, acids and fuels
Main features	Unique self-contained mixing pouch No tools required Excellent adhesion to most materials

*The pressure/temperature shown above can not be used simultaneously.



Flange insulation kit

Electric insulation & Corrosion prevention

Product characteristics:

DYNOTEQ Flange Insulation Kits are designed to ensure electric insulation and to combat the effects of corrosion often found in flanged pipe systems.

By eliminating metal-to-metal contact, static current is halted to prevent corrosion and to aid in the cathodic protection of the piping system.

Typical applications:

- oil and gas
- water applications
- refineries
- chemical plants

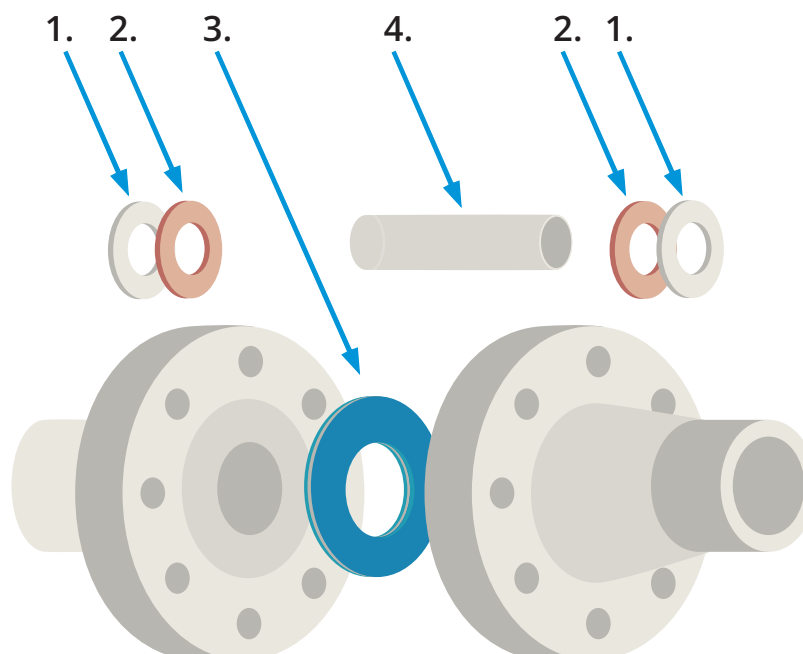
Experience has shown that cathodic protection, together with high grade passive corrosion protection from the application of a coating on the pipeline, provides a most efficient and economical solution.

Flange Insulation Kit components

- Isolating sleeves & washers
- Metallic back-up washers
- Non-conductive anti-seize
- instructions for use

The illustration shows basic concept how the opposite flanges are totally insulated from each other.

1. Steel washer
2. Insulating washer
3. Gasket
4. Insulating sleeve



Flange tags

Proper flange tag management

Product description:

Flange Tags provide a highly visual status record to show that all steps of the flange break process have been safely carried out.

As a multi-part Tag with perforated tear-off sections, no steps can be missed during your flange management processes – a key part in achieving 100% leak-free start-ups. The sequentially numbered tear-off sections provide visual evidence of each step being carried out and can be retained as an effective audit trail.

We manage the unique identification numbering of many global companies to eliminate the risk of any duplication across different sites.

Our Flange tags are completely customisable and our a library of tried and tested designs ensures we can create them to fit seamlessly into your existing processes. DYNOTEQ Flange tag advisors can also provide advice and share best practices from across the industry to give you the most up-to-date Flange tag design.



Our standard 4 Stage Flange Tags provide a quick, clear flange status for your workers. Flange Tags (also known as Torque Tags) are ideal for pipeline construction, oil & gas operations and energy suppliers.

Material and standards:

Material: Prism polypropylene
ISO 4892-2:2013 Tested Material
ASME PCC-1-2022 Recommended Tag



Areas of application:



POWER PLANTS



PAPER & CELLULOSE



PHARMACEUTICAL INDUSTRY



CHEMICAL INDUSTRY



OIL & GAS INDUSTRY



IRON & STEEL INDUSTRY



FOOD INDUSTRY



DISTRICT HEATING



GENERAL INDUSTRY

Specifications:

- Multiple tear-off sections
- 100% recyclable
- UV & Freeze resistant
- Fully customisable design
- Available with QR codes/barcodes
- Available with VARiTAG® unique numbering
- All corners rounded to reduce cut risk
- Multiple languages option

GARDUS® Lockout systems

Product description:

The REGALTAGS range of Lockout Systems are designed to provide a reliable and safe solution to lock out any of your specific machinery or plant.

From reusable cable lockouts, through to wire locks, padlocks, hasps and more, we have your lockout needs covered.

Large stocks of our lockout tagout systems are available for rapid delivery and suitable for use in the harshest of environments.

Customised lockout systems can be created to ensure it meets the exact requirements of your operations. Utilising UV, freeze, and tear resistance material provides the peace of mind of a long-lasting lockout system.



Tough signs

Product description:

Customise your own Tough Sign solution and provide a safer space for your workforce.

Our Tough Signage provides a crystal-clear message and can be specified from a choice of three material options.



Disclaimer:

All testings are done by external institutes and re-confirmed by end-users. The competitive product is one of the leading producers. All information is based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding behaviour in gasket joint. The data may not, therefore, be used to support any warranty claims. This edition cancels all previous issues. Subject to change without notice.



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