ERIKS is your reliable and trusted partner

We are a dynamic, market leader in design, manufacture and supply of essential gasket and insulation products. Our in-depth knowledge of gasket products and applications enable us to provide solutions for every flange connection. Partnering with ERIKS will ensure you high quality material, application know-how and a service-oriented approach.

ERIKS is a world leader with more than 75 years' experience in the production and distribution of flange gaskets and (semi) metallic gaskets. ERIKS has the right team and the right products to meet your company’s needs.

Our business incorporates numerous group companies in multiple countries around the globe. We have a dedicated local team with national stocks and the support of the worldwide ERIKS network, so you can get the parts you need, when you need them. Our hallmark is quality. From product range to customer service, from design to logistics and supply systems, ERIKS is fully focused on providing you, the customer, with excellence in all that we do.

We ensure that oil & gas exploration and drilling companies, vessel repairers, (petro)chemical plants, utility suppliers, food manufacturers, pharmaceuticals and other key industries function effectively by supplying only the best materials available on the market.
ERIKS is committed to keeping your site at full production

Our aim is to build long-term working relationships so that you get the product you want, when you want it, at the right price and with superb services. Our extensive stocks and flexible logistics systems can provide you with considerable savings.

Rapid Customising
ERIKS is a dynamic company that is constantly developing its expertise in new fields of engineering. Components are manufactured in compliance with all relevant standards and our team of experienced engineers use an extensive range of cutting methods to manufacture products to your exact requirements. We can cut every conceivable flange gasket in-house in minutes. Highly accurately.

Supply chain solutions
- Are you planning to reduce your procurement costs?
- Do you want to reduce your Total Cost of Ownership once and for all?
- Are you looking for a solid partner who can help you achieve these goals?

Then we would like to welcome you to the ERIKS Easy Order System®

ERIKS Easy Order System®

- Local presence
- Shipment clustering
- VMI service
- On-site warehouse
- e-Stock management
- Just-in-time delivery

20 - 50% reduction
ERIKS is more than capable of meeting your exacting requirements

A summary of our gasket product range is provided. Our sales team will be delighted to provide detailed technical advice on performance and suitability for specific applications.

**Fibre sheet jointing**

**High quality for general purposes**

**RX PT20**
- Up to 150 °C and 60 bar, BS7531 Grade Y
- Composite of mineral and aramid fibres with NBR binder
- Non-aggressive media like air, water, oil, grease and mild acids

**Ideal utility gasket for pressures up to 85 bar**

**RX PT50**
- Up to 200 °C and 85 bar, DVGW, HTB, KTW, BS7531 Grade Y
- Compressed aramid fibres with NBR binder
- Suitable for general purpose and medium temperature applications

**Excellent choice for general chemical applications**

**RX PT60**
- Up to 250 °C and 100 bar, DVGW, KTW, WRAS, BAM, TA Lüft, BS7531 Grade X
- Composite of glass and aramid fibres with NBR binder
- Can be used with a wide range of gas and liquid media

**Composite PTFE gaskets**

**The best for applications across the whole pH-range**

**Leader GT Clipperlon 2100**
- From -210 °C up to 260 °C, 1200 PSI (85 bar), FDA 21 CFR 177.1550
- Produced with modified PTFE and silica as a filler
- Particularly suitable for alkalis and strong acids (except hydrofluoric acid)

**Perfect solution for use in low bolt loaded constructions**

**Leader GT Clipperlon 2110**
- From -210 °C up to 260 °C, 800 PSI (55 bar), FDA 21 CFR 177.1550
- Produced with modified PTFE and hollow glass micro spheres as a filler
- Universal chemical resistance and suitable for glass, ceramics and plastic flanges

**The high-performance all-rounder**

**Leader GT Clipperlon 2120**
- From -210 °C up to 260 °C, 1200 PSI (85 bar), FDA 21 CFR 177.1550
- Produced with modified PTFE and barium sulphate filler
- Particularly suitable for hydrofluoric acid, solvents, fuels, steam and chlorine
Reinforced graphite gaskets

Excellent for applications involving high sealing stresses
RX Egraflex Tanged Graphite/ Econgraph-ti
- From -200 °C up to 450 °C, max. allowable pressure 150 bar
- Graphite laminate (98%) reinforced with 316 stainless steel insert
- Suitable for steam, (petro)chemicals, thermal oils

For maximum safety requirements
Frenzelit Novaphit SSTC
- From -200 °C up to 550 °C, up to 250 bar, DVGW, BAM, Fire Safe, GL
- Expanded graphite (99%) with expanded metal inlay of chrome-nickel steel
- Suitable for saturated or superheated steam, oil and fluctuating pressure

Optimum pressure/temperature ratio
Frenzelit Novaphit MST
- From -200 °C up to 550 °C, up to 250 bar, DVGW, BAM, Fire Safe, GL, TA Lüft
- Expanded graphite with internal impregnation and acid proof flat- and expanded metal inlays made from chrome-nickel steel
- All-purpose product in all areas of process industry incl. nuclear power stations

Spiral wound gaskets

Safe, effective seal for high temperature applications
Leader GT Style S
- Basic SWG construction, spiral winding only. No inner or outer ring
- Suitable for tongue/groove, male/female or grooved/flat face assemblies
- Available in unlimited range of high-quality materials, e.g. PTFE or ceramic

For flanges without a compression stop
Leader GT Style SI
- Winding with solid inner ring, provides a compression stop and minimises erosion
- Suitable for heat exchanger type male and female flange assembly
- Typically used in vessels and valve bonnets, available in full range of materials

Ideal SWG with radial strength to prevent blowout
Leader GT Style SR
- External metallic ring is utilised to centre the gasket seal on the flange face, provide radial strength to prevent gasket blowout and act as compression stop
- Suitable for flat face and raised face flange assemblies

The ultimate SWG for all flange ratings
Leader GT Style SRI
- Spiral winding with inner and outer ring, acts as a heat and corrosion barrier
- Suitable for all flange ratings, but in particular high pressure/temperatures duties, or where a corrosive or toxic medium is present
- TA Luft, Firesafe, BAM
**Kammprofile gaskets**

The flexible all-rounder

**Leader GT Style KV**
- Standard basic type, grooved metal core without a centering ring
- Suitable for flanges with tongue/groove and male/female constructions
- PTFE covers available when graphite is not suitable (acids/corrosive mediums)

High stability under the most exacting conditions

**Leader GT Style KV9**
- Grooved metal core incorporating an integral outer ring
- Designed for standard raised face or flat face flanges
- Offers excellent flexibility, recovery and stability characteristics

Compensates for wide temperature swings

**Leader GT Style KV9L**
- Same as Style FR, but integrated outer ring is replaced by a loose ring
- Ideal replacements for jacketed gaskets on heat exchangers
- TA Luft, Firesafe, BAM

**Ring type joints**

Excel in extreme pressure applications

**Leader GT Style R**
- Standard oval and octagonal RTJ, machined or tightened for high pressure/high temperature
- Assemblies in oil field drilling and refinery, in gas exploration and in high-pressure vessels and pumps

To ensure a tight, pressure-energised seal

**Leader GT Style RX**
- Pressure-energised octagonal metal ring type joint, providing a tight seal
- Larger sized than Style R, pressure balance hole to equalise trapped pressure
- Designed to seal pressures of up to 6,250 PSI (~450 bar) acc. API

The best to combat extreme pressure up to 20,000 PSI

**Leader GT Style BX**
- Octagonal metal RTJ with pressure balance hole to equalise trapped pressure
- Profile ensures minimal stand-off distance, reduced surface area of the RTJ material exposed to pipeline pressure
- Designed to seal pressures of up to 20,000 PSI (~1,400 bar) acc. API

**Corrugated**

Pioneering solution for thermal and load fluctuations

**Leader GT Dynagraph HE**
- High purity inhibited grade flexible graphite cover over corrugated metallic core
- The ultimate solution for large diameter fixed equipment where leakage, low available load and thermal cycling are issues (up to 5,000 PSI and 450 °C)
- High-performance replacement for asbestos, traditional jacketed and SWG

The most economic way to achieve low emissions

**Leader GT Elastagraph**
- Increased pitch and groove depth results in bolt stability and increased load retention during thermal cycling (up to 2,000 PSI, 450 °C and pH range of 0-14)
- Designed to solve fugitive emission and compliance problems
Additional gasket products

**Excellent gasket for general media conditions**

**Rubber**
- Wide range of materials available, either solid, reinforced or as a foam sponge
- Materials available include EPDM, nitrile, neoprene, silicone, viton in a comprehensive range of thickness from 0.5 mm up to 50 mm

**Paramount gasket for utility process applications**

**RX Elastomet FKM/EPDM OR**
- Steel ring with moulded rubber with o-ring profile for low-pressure flanges
- EPDM -30 °C up to 120 °C/FKM -20 °C up to 200 °C, both up to 40 bar
- Suitable for drinking water, gas, oil, acids and alkalis

**Pioneering gasket for chemical resistance and fire security**

**RX Firechem®**
- Pure exfoliated graphite (98%), reinforced with stretched stainless steel and PTFE
- Complies with strongest requirements of FIRE-safe test ISO 10497 and can be placed in contact with the most versatile, aggressive and flammable chemicals
- Particularly suitable for pharmaceutical, food and chemical applications

**Ultimate gasket for temperatures up to 1000 °C**

**Leader Therm sheet**
- High temperature sheet material consisting of phlogophit mica paper impregnated with a high quality silicone binder
- Mica material gives this sheet its thermal characteristics and its chemical resistance to solvents, acids, bases and ineral oils
- Recommended for extreme temperature applications (up to 1000 °C)

**Excellent gas permeability and chemical resistance**

**RX Flowtite expanded PTFE sheet**
- 100% multidirectional expanded PTFE sheet with high gas permeability
- From -240 °C up to 230 °C, up to 40 bar, pH 0-14, FDA approved, TA Luft, USP VI, EC 1935
- Widely applied in chemical and food industry

**Gives total versatility**

**RX Flowtite II tape**
- Easy to install 100% pure expanded PTFE joint sealant
- From -210 °C up to 230 °C, up to 40 bar, pH 0-14, FDA approved, EC 1935
- All-purpose use, particularly suitable for pharmaceutical and chemical applications

**For maximum safety of your employees**

**RX PROTEK**
- Easy to assemble flange covers, most include early leak detection patch
- UNI PP-bank, SSR, EC (for chemical applications), AR, AH, AT, AS, SC (for high-pressure applications), MG and SRM types available
- Full range of high quality materials, i.e. PP, PE, PVC, PTFE and metal covers

**Most effective solution to stop corrosion**

**Insulation sets**
- Thermal isolating and mitigating cathodic or galvanic corrosion of flanges
- Solutions available for extreme conditions, e.g. strong acids and high pressures
Looking for the best solution that suits your specific needs?

We provide an extensive range of gaskets available in a wide range of exceptional materials to suit every demanding application.

### Gasket

<table>
<thead>
<tr>
<th>Application</th>
<th>RX P120</th>
<th>RX P150</th>
<th>RX P160</th>
<th>RX Egraflex/Econographite</th>
<th>Clipperlon 2110</th>
<th>Clipperlon 2100</th>
<th>RX Firechem®</th>
<th>RX Flowtite</th>
<th>SWG</th>
<th>Kamprofile</th>
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Information provided is indicative only. Additional considerations such as material thickness, pressure and temperature must be considered. Our sales team will be delighted to provide detailed technical advice.
We are happy to share our know-how

There are six crucial component stages in the correct fitting of a gasket. It is important that you adopt the following procedures to ensure good performance over a reasonable lifetime.

Handling

Carry gaskets carefully, ideally with some form of protective cover, do not bend, buckle or damage the surface of the gasket.

Cleaning

Clean all fasteners and flange faces with a wire brush, ideally brass. Thoroughly remove all dirt on threads and ensure they are completely free from fragments before proceeding.

Inspection

Ensure all fasteners are free from defects, burrs or cracks. Always run bolts down by hand to give an indication as to the performance of the threads. Inspect the flange surface for defects such as scoring or warping and ensure they are parallel.

Lubrication

Lubricate fasteners threads and all bearing surfaces, ensuring that the lubricant does not contaminate the flange or gasket faces. Only use approved lubricants that are compatible with the fasteners and ideally with the process fluid.

Installation

Carefully insert the new gasket, position it centrally between the flanges. Do not use tape or jointing compounds. Take care when bringing the flanges together to avoid pinching or otherwise damaging the gasket.

Assembly

**ALWAYS USE A CONTROLLED LOADING DEVICE:** Without controlled loading using a torque wrench or similar, you can’t be sure of the exact load placed on the gasket and its performance may be compromised.

**ALWAYS TORQUE NUTS IN A CROSS BOLT PATTERN:** Following this pattern, tighten the nuts in multiple steps; tighten nuts loosely by hand, then torque each nut to a maximum of 30% of full torque followed by 60% and then to full torque; final pass at full torque, in a clockwise direction.

For assistance, please contact our specialised team.
Gasket failure...  
problem diagnosis

ERIKS is committed to all we do including training and development. For our customers this means friendly, efficient service backed up by technical expertise.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>LIKELY FEATURE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insufficient load applied to gasket</td>
<td>Gasket under-compressed. No flange surface imprint. Gasket blown out</td>
<td>Fit new gasket and apply higher load. Or select a more compressible material. Ensure a lubricant is applied to both bolt and nuts</td>
</tr>
<tr>
<td>Uneven load applied to gasket</td>
<td>Gasket unevenly compressed/gasket blown out</td>
<td>Use proper bolting procedures. Ensure flanges are flat and aligned correctly</td>
</tr>
<tr>
<td>Excessive load applied to gasket</td>
<td>Gasket over-compressed/gasket extruded</td>
<td>Refit and apply lower load to gasket. Select a material with a higher compressive strength/ better creep resistance</td>
</tr>
<tr>
<td>Jointing compound/grease applied to gasket, flange or faces</td>
<td>Gasket over-compressed/gasket extruded</td>
<td>Ensure gaskets are fitted dry and flanges are clean</td>
</tr>
<tr>
<td>Poor flange condition</td>
<td>Gasket extruded/gasket unevenly compressed</td>
<td>Ensure gasket surface finish is correct. Ensure flange faces are clean and dry</td>
</tr>
<tr>
<td>Chemical attack</td>
<td>Gasket embrittled (rubber containing materials). Gasket material missing</td>
<td>Ensure gasket is compatible with fluid – Chemical resistance guide available on <a href="http://www.eriks.info">www.eriks.info</a></td>
</tr>
<tr>
<td>Thermal attack</td>
<td>Gasket embrittled (rubber containing materials). Gasket material missing</td>
<td>Ensure gasket is compatible with service conditions</td>
</tr>
<tr>
<td>Pitting/stress corrosion of flange surface. Corrosion of metallic components</td>
<td>Galvanic corrosion</td>
<td>Ensure metallic gasket and components are compatible with flange materials. Use ERIKS insulting materials</td>
</tr>
</tbody>
</table>

For assistance, please contact our specialised team.
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Technical information centralised available. Visit our specialist website and benefit from ERIKS’ know-how online where you can find information on our product range, including technical datasheets and production methods.

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- Numerous technical datasheets
- Numerous approvals/certificates
- Construction and installation instructions
- Multiple online selection tools and calculators
- Over 4,000 pages of technical information regarding our comprehensive product range

Tools & Calculators
- Unit Converter
- Chemical Resistance Guide
- O-ring Design Calculator
- O-ring Weight Calculator
- Rubber Profile Calculator
- Bellow Selector
- ERIKS SealXpress

Product websites
- Flangegaskets.info
- Hydraulic-seal.info
- Mechanical-seals.info
- O-ring.info
- Oil-seals.info
- Rubbertechnology.info