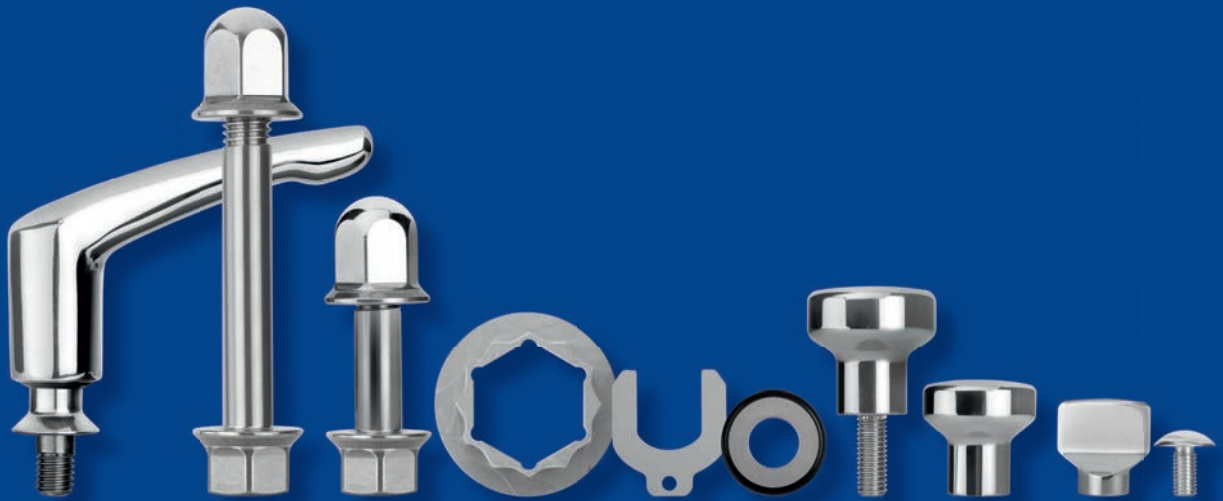




HEINRICH KIPP WERK

NEW



NOVOnox hygienic

Clamping technology

Standard elements

Operating parts

CLEAN & LEAN

NovoNox

Inox Components

NovoNox is now NOVOnox hygienic

Initially, the idea was to offer significant additional benefits to KIPP customers from the foodstuff, chemical, pharmaceutical, medical technology and machine construction branches. They knew KIPP as a reliable supplier of high quality operating parts, but must obtain hygienic stainless steel parts from somewhere else.

However, the INOX experts NovoNox with their Hygienic DESIGN und Hygienic USIT® product ranges experienced serious challenges within this growth orientated market. The existing structure was not equipped to meet the ever increasing demand.



NOVOnox hygienic

The solution:

Consolidating the strengths under one roof through a takeover of the NovoNox brand and integrating the products and the business processes into HEINRICH KIPP WERK.

The result:

A clearly coordinated complete program of standard operating parts and hygienic stainless steel parts combined with maximum service and guaranteed availability – for all customers.

As a new product line, the high quality hygienic stainless steel products **NOVOnox hygienic** form a completely new field of competence within the KIPP OPERATING PARTS | STANDARD ELEMENTS catalogue programs. The consistency of the expanded range offers compelling advantages for KIPP and NovoNox customers.

The slogan “Clean & Lean” says it all. “Clean” the hygienic products, “Lean” the trimmed down purchasing process including better availability and customer orientated service with shorter response times.

A win-win situation for KIPP and NovoNox customers

KIPP customers can now profit from excellent know-how in the hygienic sector and a new quality in special solution development competence directly from the manufacturer.

With KIPP, NovoNox customers profit from the sales network and infrastructure of an active partner as well as the roughly 36,000 comprehensive product range. A central logistics system with up to the minute storage technology and powerful IT solutions means that KIPP can guarantee rapid delivery and worldwide availability. This all leads to a clear plus point for reliability and service. For NovoNox customers the extensive distribution network within Germany and the rest of Europe will be new.

A well structured worldwide network of international subsidiaries and sales partners guarantees optimum consultation and competent service. Customer support plays a very important role at KIPP. The experienced team of experts at HEINRICH KIPP WERK supply individual advice and always have the correct answer to realise customer-specific projects. The award of VERY GOOD from “TÜV Service Tested” proves this excellent customer orientation.

With the integration of NOVOnox hygienic, KIPP has positioned itself as a cross-sector single-source supplier with a broadly diversified market presence. KIPP expands its sector competence and generates new knowledge through new demands.

PRODUCTS

Clamping levers



Seals



Nuts



Screws



Knobs



Grips



Pull handles



Quarter-turn locks



Levelling feet



Tools



HD

Hygienic DESIGN - the new standard

Operating parts and machine elements that fulfil the requirements of Hygienic Design.

Radii, transitions, bevels, and surfaces are designed to impair wetting and can be easily cleaned or remain permanently unsoiled.

Nothing adheres!

Average surface finish
 $Ra < 0.8 \mu m$

HU°

Hygienic USIT® - the new phenomenon in the process industries

Hygienic USIT® is the new revolutionary sealing and fastening technology in one package. High-gloss polished surfaces, radii, bevels and form transitions are cavity-free.

Hygienic USIT® – a trademark of Freudenberg Sealing Technologies. NOVOnox developed the hygienic screw system for this special washer and matched them perfectly to each other. The cavity-free fastening point is made feasible.

High-gloss polished!

Material:
1.4404 grade A4-70
with $Ra < 0.5 \mu m$

100% seal!

Hygienic USIT® seal
and shim washer from
Freudenberg Sealing Technologies.

System unit!

Collar for Hygienic USIT®
seal and shim washer

Material:
1.4404 grade A4-70
with $Ra < 0.5 \mu m$

HYGIENIC USIT®



Hygienic USIT® - give germs no chance

The current status. Cavities. Not fully sealed.

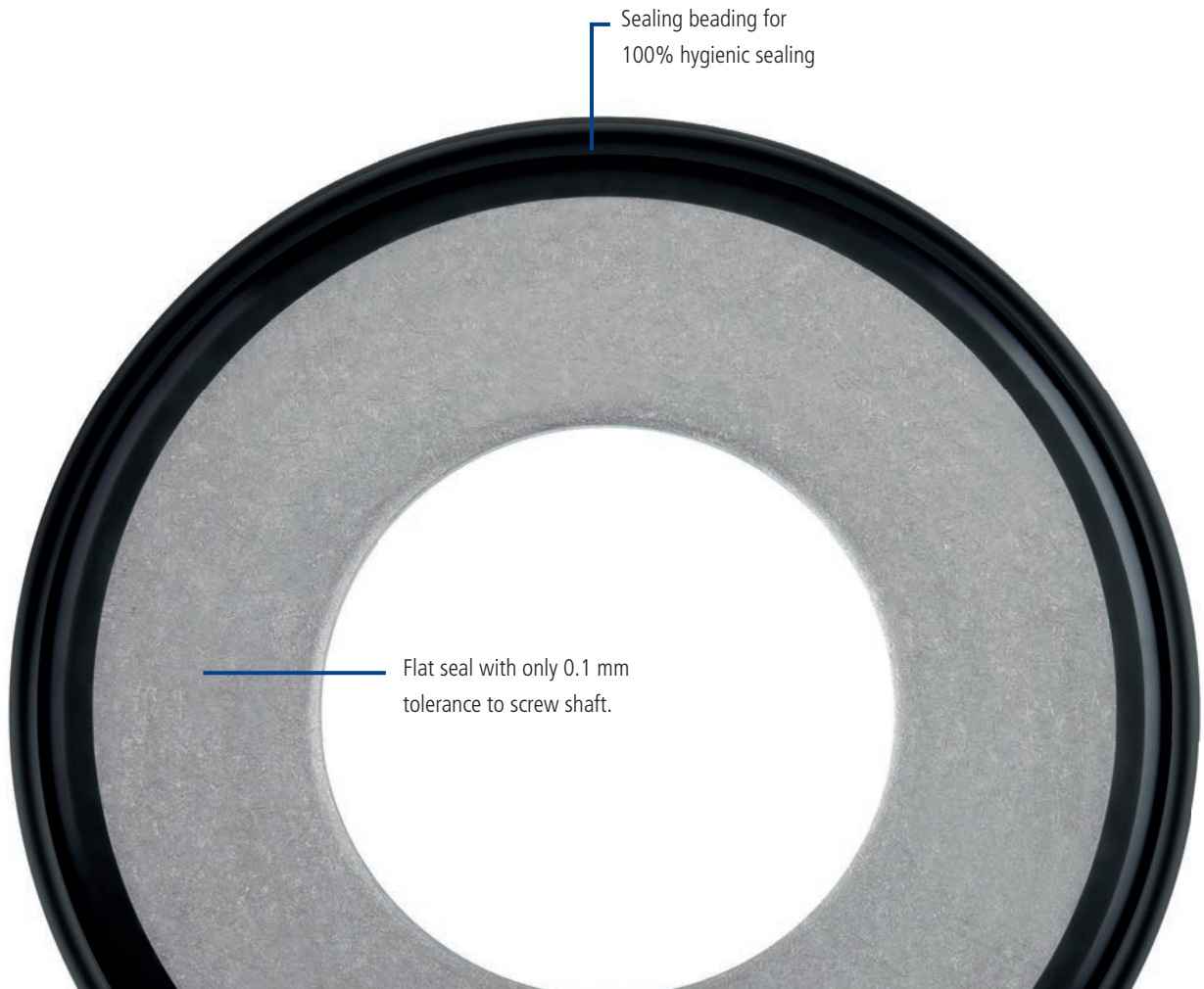
Fastening points in process technology plant construction must be absolutely sealed and easy to clean. Cavities where product remains or cleaning fluids can accumulate unnoticed are to be prevented. These create breeding grounds for germs and bacteria. A contamination is often just a question of time.

The solution:

Hygienic Usit® from Freudenberg Sealing Technologies solves the problem. The new type of washer with the specially matched screw system from NOVOnox hygienic. Dirty liquids bead off. Nothing can adhere. Nothing can germinate. Hygienic USIT® is the new revolutionary sealing and fastening technology in one package. Screw heads, nuts, washers and screw shafts are perfectly matched to each other and form a system unit. High-gloss polished surfaces, radii, bevels and form transitions are cavity-free and enable easy cleaning.

Sealed over and over again.

The sealing ring made of a metallic flat seal and a vulcanised sealing bead is the heart of Hygienic USIT®. The trapezoidal contour of the sealing bead and the highly polished face of the screw head positively seal the fastening point. The sealing properties remain constant even by repeated loosening and tightening of the screw. The reason: The metallic washer mechanically limits the screw travel when the screw is turned. Excessive pressure on the seal is prevented. The polished surface and the centring effect of the screw shaft ensure that the position and deformation of the seal is almost 100% reproducible.



Sealing beading for
100% hygienic sealing

Flat seal with only 0.1 mm
tolerance to screw shaft.



Hygienic USIT® – High-gloss polished surface

The Hygienic USIT® fasteners have a completely rounded body form and have been designed for use with the USIT® sealing ring. The runoff of liquids and product residues is guaranteed independent of the installed position. The surfaces are repeatedly finely polished. When USIT® seal rings are used, the fastening point is hermetically sealed without any cavities. The fastening point is hygienically safe.

Conclusion:

With the washer from Freudenberg Sealing Technologies and the special screw system from NOVONox hygienic, a sealing and fastening component that is 100% hygienic and cavity-free has been created for the first time.



Hygienic Tools – smooth stays smooth

Protective inserts protect sensitive surfaces.

Protective inserts have been developed so that the sensitive surfaces of the screws and nuts of the Hygienic USIT® screw and sealing system remain completely undamaged. These high-strength plastic or aluminium protective inserts prevent scratches on the screws and nuts. Moreover, they also protect from possible contact corrosion between the tool and the

stainless steel fastener. The protective inserts are inserted into tools which have been specially modified to accept them. The inserts clip in place so that they cannot be easily pulled out or lost. The inserts are available for screws sized M3, M4, M5, M6, M8, M10, M12 and M16.



TRUST IN KIPP



Heinrich Kipp developed the clamping lever more than 60 years ago. Since then we have been setting the market standards for clamping technology, standard elements and operating parts. This tradition is binding: Maximum-quality product, a wide selection and an expeditious ability to deliver bring certainty to our customers who can always depend on KIPP quality.

HEINRICH KIPP WERK produces at its site in Germany.

With our service partners around the world we are always close to you.



Contact us for information about the product range **NOVOnox hygienic.**

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