

### ERV PRODUCTION RANGE

- **ERV-GS:** Our flame resistant **YELLOW STEEL** compensators for petroleum based products have been certified by various notified bodies, in all sizes **up to DN 600 mm** and are available ex stock; Details see catalogue page 427.
- **ERV-GS HNBR:** special type with HNBR lining for extremely demanding operation conditions. Flame resistant, large operation temperature range (in peaks up to 120° C), electrically conductive for highest safety; Details see catalogue page 431.
- **ERV-G LT:** **YELLOW BAND** compensators for petroleum based products, designed for low temperature applications, down to -40° C; Details see catalogue page 435.
- **ERV-OR** for liquefied petroleum gas (LPG): **ORANGE BAND** compensators now are also available in sizes **DN 125 and DN 150**; Details see catalogue page 439
- **Size DN 450:** Several ERV types now are available in size (nominal width) DN 450 mm. You have the choice between lengths 200 and 250 mm.

### ERV-BR FOR ABRASIVE MEDIA

Due to the used BR/NR compound, the new special type **ERV-BR** is **especially suitable for abrasive media** such as sludges, solid/liquid mixes and dustlike or powdery media.

This recommends the ERV-BR for many applications which so far required a metal inner protection sleeve. Available ex stock – further information see catalogue page 417.

### CORROSION PROTECTION FOR STEEL FLANGES

Steel flanges require corrosion protection. The traditional and well proven base is always a zinc plating. In the past, additional protection for ERV flanges was achieved by yellow chromating.

Due to environmental reasons yellow chromating is not used any more. Since several years we achieve the additional protection for ERV flanges by a **chrome-VI free thick layer passivation**.

In the picture on the right hand side you see the new look of our steel flanges (example: DIN flange, size DN 80).



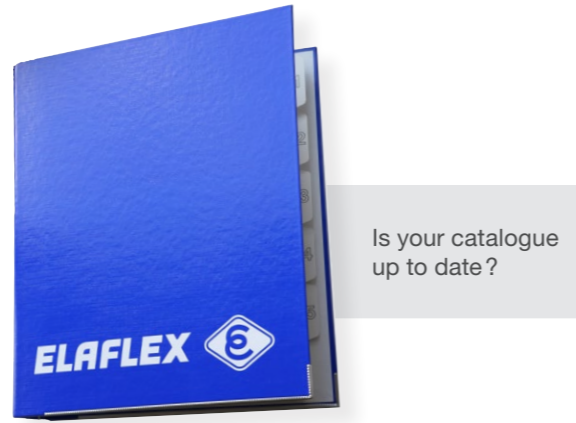
– old –

Steel flanges with Cr (VI)-free corrosion protection

## CATALOGUE

Independent of preference towards classical printed version or PDF: technical data of our products are found in the **Elaflex Catalogue**. We take great care to constantly update the documents. On our website you will find the latest version of each page.

Apart the standard version in German/English, versions in **Russian, French and Dutch** are available. If required for your documentation, single catalogue pages can also be translated into other languages.



Is your catalogue up to date?

## ERV BROCHURE

Since March 2015, the **first edition of the brochure "ERV Rubber Expansion joints"** is available for you. On 24 pages, distribution partners, sales staff and users will get a general overview of the products, including a range of additional information which so far might not have been known.

Please request hardcopies from our sales team. Obviously the brochure is available online, but we think that printed versions are more appealing.



## ELAFLEX WEBSITE

Since 15 years, **www.elaflex.de** is valued for current information, providing speedy access to technical documents. Nonetheless it was about time to modernise the website.

Now you find additional content and information (e.g. 3D CAD drawings or ERV), easier navigation, adoption to different screen sizes and new interactive tools. From July, 2015 our European daughter companies will also switch to the new version.



## ERV CONFIGURATOR

Online configuration of options and accessories is already common for consumable products.

For industrial products, some of the existing online configurators are not very helpful. No added value to the catalogue, slow, many errors, awkward navigation. We intended to make it better, and think: goal achieved.

[www.ervconfigurator.elaflex.de](http://www.ervconfigurator.elaflex.de)

Please try it. Open the link and choose the required product combination in a few steps. The result can be locally saved or sent to Elaflex for a direct enquiry.

With photo realistic pictures the configurator shows the chosen options and correct part number. This tool helps both end users as well as resellers for a fast explanation of product options.



## CERTIFICATES

You are looking for a specific certificate or type approval for ERV? On our website under **www.elaflex.de/en/certificates**

all current documents regarding ISO 9001, Pressure Equipment Directive and approvals by notified bodies are available for download.

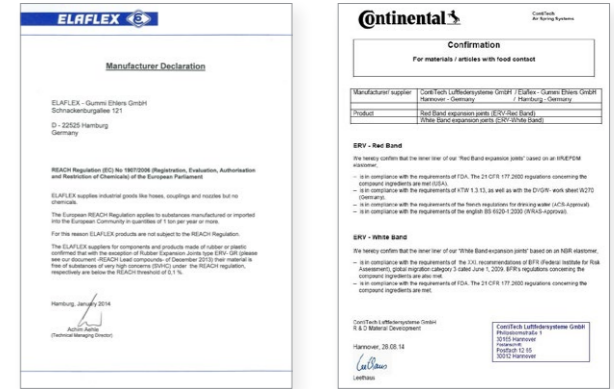
Also available, special approvals for use with drinking water France (ACS certificate for ERV-R) and UK (WRAS certificate for ERV-R and ERP).



## MANUFACTURER DECLARATIONS

Under above mentioned web address you will additionally find manufacturer declarations regarding frequently asked topics.

Examples: almost all ERV compensators fulfill the REACH requirements; our NBR and EPDM lined compensators fulfill ATEX; and ERV-R / ERV-W as well as the PTFE linings (Type TA) are conform to FDA.



## RESERCH AND DEVELOPMENT, TESTING

ERV bellows are manufactured by ContiTech in Germany, exclusively for Elaflex. The company maintains an internationally leading competence for the choice of suitable rubber compounds. The raw materials and compounds are constantly examined – before, during and after production.

We would like to highlight Conti's state of the art Technical Center where assembled ERV are submitted to trials under extreme operating conditions. An example, the modern **Pressure Impulse Test Rig** where compensators up to DN 600 are stressed at max. 16 bar with a frequency of max 1 Hz for 500.000 cycles (to EN ISO 6803). The results provide information about quality and expected product life.



Continental Technical (Testing) Center



Pressure Impulse Test Rig

## REDUCTION OF VIBRATION AND NOISE

ERV are optimally suitable to dampen vibration and noise. Complex investigations which recently took place confirm this.

For the tests, a **Vibration Generator** was constructed and used. A representative range of the ERV program was examined. Results show: construction of the piping system and installation situation of the compensator have a significant influence on the creation of vibration and noise. If these topics are your responsibility, please contact our sales team for a detailed advice.



Vibration Generator

## IDENTIFYING PRODUCTION DATE

The manufacturing date for bellows can be seen within the circumferential marking: Year / dots for each quarter of the year. Additionally, there is a week marking (e. g. 06 for calendar week 6) helping for an accurate batch tracking. So far, the calendar week marking was barely visible under the flange hub.

For some years, a gradual change of our production moulds took place - the date fields are now placed directly next to each other, as shown in the picture.



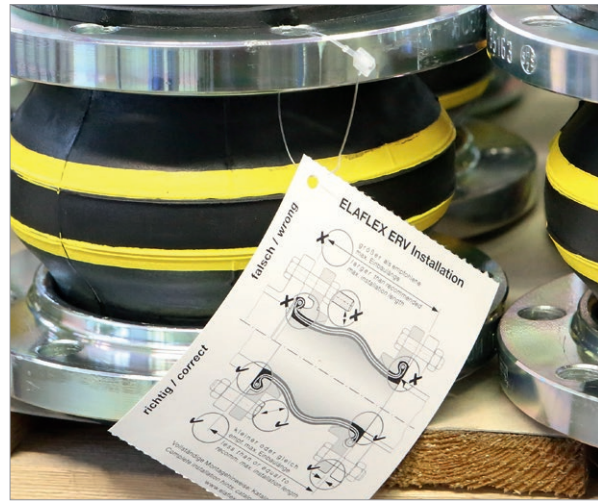
## BRIEF INSTALLATION HINTS

Precondition for the long operating lifetime of our ERV is a proper installation. From the few claims we receive, the major part can be attributed to installation errors.

On request we will fit a label as shown on the right to each assembled expansion joint, free of charge.

It shows the most important basic rules for the installation and refers to the detailed installation hints on our website (catalogue pages 475 and 479).

Prior to the installation, the label can be easily taken off by hand. If you require this label please notify when placing your order.



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