

PRODUCT OVERVIEW

HYDRA® EXPANSION JOINTS



HYDRA Axial Expansion Joints

Powerful standard and special designs are cost-efficient solutions for simple compensation tasks. Adjusted for versatile use in all applications with clearly defined moderate fixed-point forces. Multi-ply metal bellows designs made of stainless steel are available in numerous different nominal diameters and with a selection of connection options.

Details

- Stainless steel bellows, multi-ply
- Standard dimensions from DN 15 to DN 3000
- Larger dimensions with diameters of up to 12 m are available as well
- Special designs: inner sleeves, special materials, deviating flange drill templates



HYDRA Lateral Expansion Joints

Economical and safe. The very robust range of angular and lateral expansion joints is well-suited for elevated pressures and large motions. The comprehensive programme combines standard and special designs to provide optimal solutions even for challenging compensation tasks in complex piping systems.

Details

- Stainless steel bellows, multi-ply
- Standard DN 15 - DN 2000
- Patented anchoring elements
- Large number of versions for optimally-fitting solutions



HYDRA Special Designs

Supplementing our standard designs, we manufacture numerous special designs and special programmes that differ in wall thickness and geometry. With the largest dimensions, for the highest pressures and temperatures and all applications in piping and plant engineering

Details

- Single- and multi-ply bellows
- Diameters of up to 12 m on request

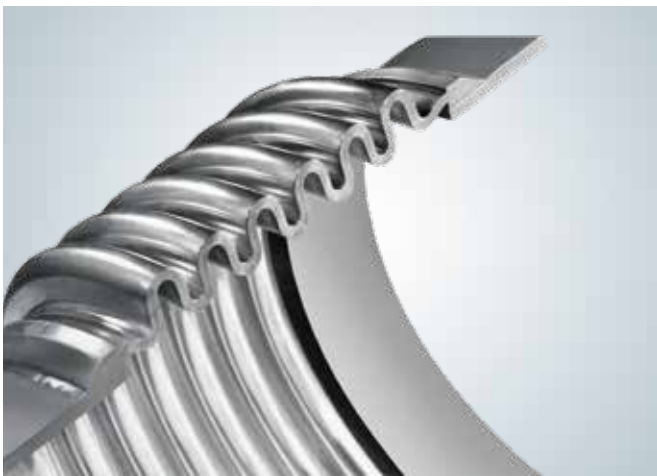


HYDRA Small Expansion Joints

Standard designs of axial expansion joints for steel, stainless steel, and copper pipes in building utilities. The optimal product range for all applications in water and heating circuits and gas installation. They ensure safe pipe installation without tensions, absorb system vibrations and motions, and thereby protect the piping system against damage.

Details

- Nominal diameters ranging from DN 15 to DN 250.
- Provided with screw connections, threaded sockets, threaded nipples, flanges or welding ends.
- Special versions for press-fitting systems and plastic conduits
- Optionally provided with inner sleeves and protective tubes



HYDRA Functional Principle: Multi-Ply

The pressure-bearing wall is resolved into multiple thinner single plies. Mainly, this increases the mobility of the metal bellows significantly without compromising the pressure resistance. Multi-ply bellows are manufactured from cylinder packages. Individual plies made of different materials can be combined depending on the application. For example, economical considerations may demand the inner lining of a component contacting the medium to be made from a very high-quality corrosion-resistant material.

Details

- Increased mobility and pressure resistance
- Low adjustment forces, maximal absorption of motions
- Permanent leakage control



FLEXPORTE® – The Design Software

Special-designed for designers, "FLEXPORTE" is a PC software for dimensioning and presenting expansion joints, metal bellows, metal hoses, and pipe supports. The menu-based application aids in the calculation and dimensioning of these products.

For more details, please visit www.flexperte.de

Details

- Design of standard expansion joints
- Preparation of material data sheets
- Preparation of enquiries

