

KE-BURGMANN



KE-MASTERFLEX®
Rubber Expansion Joints
for Liquids and Gases



KE-Masterflex®



KE-MASTERFLEX® rubber expansion joints are flexible connectors made from natural or synthetic elastomers in which special fabrics are embedded to provide physical reinforcement.

Rubber expansion joints provide a proven and flexible solution to accommodate many types of movements and requirements of industrial plant and equipment.

- These include:
- Accommodating pressure loads
Neutralising axial, lateral, angular, and
- torsional stresses
- Reducing noise
- Isolating sources of vibration
Compensating for misalignment at
- plant start up, and
- Prolonging the life of motive equipment.

They are used in all systems transporting fluids, slurries or gases under pressure, at ambient pressure or under vacuum over a wide range of temperatures.

With more than 40 years in the business, KE-Burgmann is an experienced and respected company with a proud history of innovation, technical development and leadership in the manufacture of expansion joints. We use only the highest quality elastomers and engineered fabrics to manufacture KE-MASTERFLEX® rubber expansion joints to suit the industry's differing requirements for flexibility, pressure resistance, abrasion resistance, thermal resistance and cycle life.

Design

The KE-MASTERFLEX® rubber expansion joints are available in two types:

D-Type:

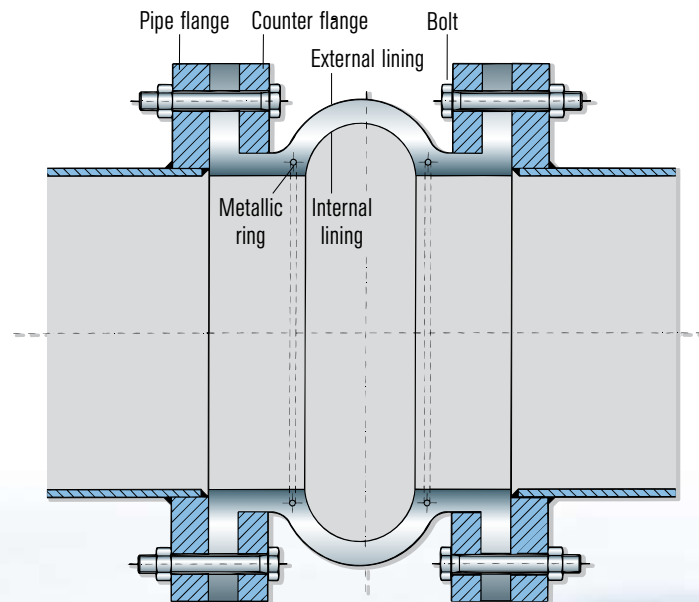
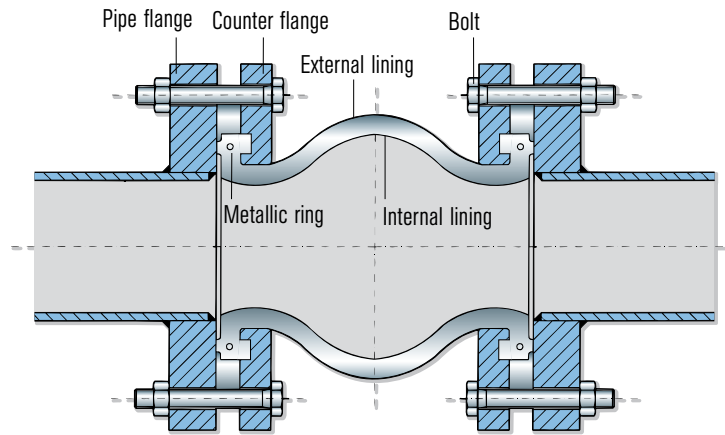
This is a high quality standard rubber expansion joint, of spherically moulded design, available in dimensions ranging from DN20 to 750 mm. Supplied with or without solid floating flanges in carbon steel as standard, the D-Type is: The standard solution for standard applications

DFS-Type:

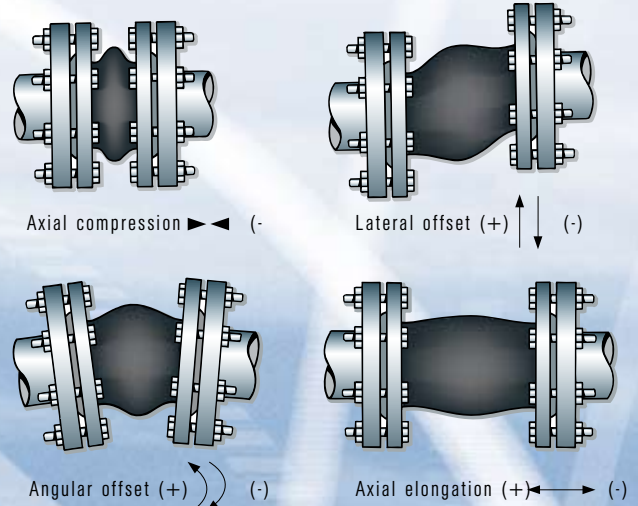
These high quality customised rubber expansion joints are handmade 'spool arch' moulded types available in dimensions ranging from DN50 mm to 3600 mm. Supplied with split flanges in carbon steel as standard. DFS-Type is: The customised expansion joint

Applications

- Air conditioning, heating and ventilating systems in industrial buildings, hospitals, hotels and on board ships
- Central and ancillary power generating stations in industrial buildings, factories, ships and off-shore
- Sewage disposal and water treatment plant, pumps, etc.
- Process piping in pulp and paper manufacture.



Movements



Special designs

The KE-MASTERFLEX® range of rubber expansion joints is extensive and KE-Burgmann specialises in meeting customer requirements for special designs to meet demanding requirements. Some of these special designs are described and illustrated below:

Multiple arch design:

A rubber expansion joint with two or more arches to accommodate large movements.



Internal sleeve:

Rubber expansion joints can be supplied with an internal sleeve for protection against abrasion. Such a sleeve is available in different steel qualities.



The special T-Max with integrated PTFE lining:

PTFE lining as an integral part of the rubber expansion joint, covering all surfaces in the arch and flange areas.

This design provides exceptional resistance to almost all chemicals within the temperature range of the elastomeric body construction.

Designs with control units (tie rods, spherical washers etc.) and/or metal reinforcing/vacuum rings:

Tie rods are installed against the back of the flanges, and through to the mating flange of the pipe. This design is effective in controlling expansions caused by pressure. Metal reinforcement rings can be fitted as an integrated part of the rubber bellows, and the design is successfully tested to withstand full vacuum. This is applicable for all our DFS sizes.



D type with tie rods and floating flanges

DFS type with tie rods and splitflanges

Other special products:

We manufacture other specialized rubber products, or combinations with rubber and metal, such as rubber hoses, cylindrical dock-fenders, special round or rectangular joints.

Certificates:

Certificates and other documentation are available on request, covering the following tests:

- Hydraulic tests
- Temperature resistance
- Cycle life
- Abrasion resistance
- Pressure Equipment Directive (PED) 97/23/EC
- Bureau Veritas' Type Approval Certificate no. 1 2823/A0 BV (Fire resistance)
- Tensile strength
- Burst strength
- Reaction forces
- Compression testing



KE-Burgmann A/S, Expansion Joint Manufacturer

Founded in 1963 as a company dedicated to the manufacture of expansion joints, KE-Burgmann can claim more than 40 years of experience with expansion joints as our core product. We develop, engineer and manufacture fabric, rubber and metal expansion joints in an almost unlimited variety of designs for the solution of a similarly vast range of industrial alignment problems in industrial facilities throughout the world. KE-Burgmann DK is approved according to the ISO 9001:2000, ISO 14001, and OHSAS 18001 quality and environmental standards. Contact our experienced engineers for the start of good connections.

Product warranty. Unless otherwise agreed in writing, the following warranty applies: We guarantee our rubber expansion joints to be free from defects in workmanship and materials, and to operate satisfactorily for one year after system start-up or 18 months after shipment, whichever occurs first. The warranty period is considered valid, provided the expansion joints have been correctly stored and correctly installed, and used for the application for which they were manufactured. Our financial liability is limited to the original purchase price of the equipment.



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