



DILATOFLEX® KT

EXPANSION JOINTS with floating flanges and tie rods

Rubber Bellows Expansion Joints & Flexible
Pump Bellows for Pipework for Anti-Vibration,
and the Absorption of Movement and Thermal
Expansion in Pipelines

CC
Green label

GZ
Orange label

EPC
Cream label

YP
Yellow label

AR / CN
Red label

TE
Mauve label

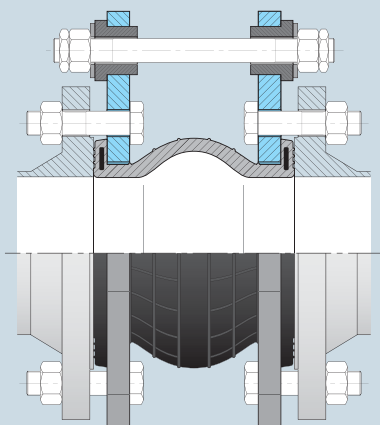
Inner
lining
grades

DW
Blue label

F1
White label

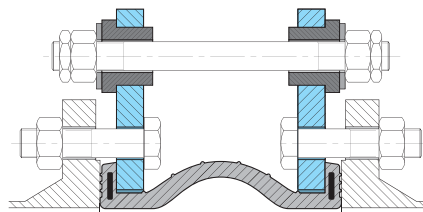


**For these products
please consult us.**



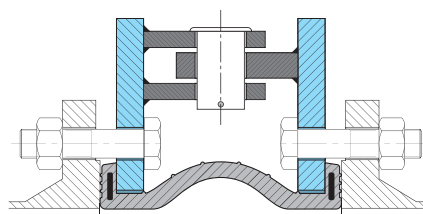
Tie rods to limit axial elongation

Allowing
small lateral movement
and reduce vibration



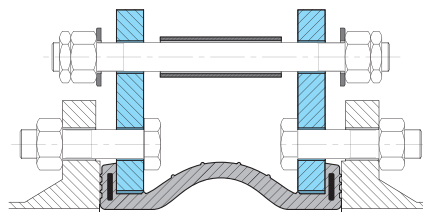
Hinge system

Allowing
angular movements



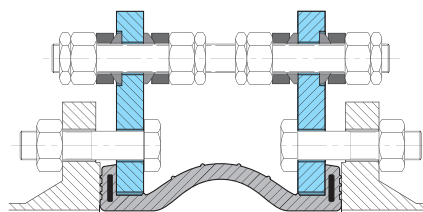
Tie rods to limit axial movements

Allowing both
compression and elongation.



Tie rods with inner and outer restraints

Allowing
lateral movement



Example of Label



Technical Sheet

AFD-TS- 008/1 from 2008 - 05 - 26

We reserve the right to change our products' specifications when necessary without notice.

Distributor:

Mercia Flexibles • www.merciaflexibles.co.uk

Ludlow Eco Park • Ludlow • Shropshire • SY8 1FF • United Kingdom

Tel: +44 (0)1584 874999 • Email: dilatoflex@merciaflexibles.co.uk

AN EFFICIENT SOLUTION FOR A WIDE RANGE OF APPLICATIONS

BUILDING INDUSTRY

- ▶ Central heating and air conditioning
- ▶ Hot and cold water systems
- ▶ Fire extinction systems

POWER GENERATION

- ▶ Cooling systems, pumping stations, etc. for conventional and nuclear power plants

PETROLEUM INDUSTRY

- ▶ Cooling systems
- ▶ Fuel handling

NAVAL CONSTRUCTION

- ▶ Machine cooling systems
- ▶ Sanitary installations
- ▶ Fire extinction systems
- ▶ Fuel handling

METALLURGY

- ▶ Blast furnace gas
- ▶ Compressed air
- ▶ Industrial water systems

WATER TREATMENT

- ▶ Production and distribution of drinking water, waste water treatment

FOOD INDUSTRY

- ▶ Drinking water and other beverage and foodstuff handling systems

CHEMICAL INDUSTRY

Fluid handling systems:

- ▶ acids, bases, hydrocarbons, emulsions, solutions, air, gas, steam, water, etc.

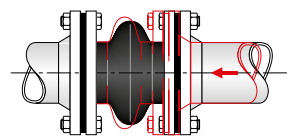
Lining Grade Identification colour and designation	Typical Applications	W.T. Working temperatures
Green label CC	▶ Central heating and air conditioning water	-35 °C +90 °C/ 110 °C
Blue label DW	▶ Drinking Water Approved ▶ Domestic cold and hot water	-25 °C +90 °C/ 105 °C
Cream label EPC	▶ Food products ▶ White Food Grade liner ▶ Option Stainless Steel flanges	-25 °C +95 °C
White label ES	▶ Steel Mesh Reinforced ▶ Superheated water ▶ Hot water vapour	-35 °C +140 °C
Red label AR/CN	▶ Abrasive or corrosive products (weak acids and bases) ▶ Industrial water, sea water ▶ Low-temperature water vapour	-35 °C +90 °C
Orange label GZ	▶ Gas, compressed air, fuel, oil ▶ Petroleum products with aromatic content < 40% ▶ Sanitation water	-20 °C +90 °C
Blue label HH	▶ Industrial and waste water ▶ Hydrogen gas, nitrogen	-20 °C +90 °C
Yellow label YP	▶ Strong acids ▶ Strong bases ▶ Aggressive chemicals	-25 °C +100 °C
Grey label AB	▶ Strong acids ▶ Strong bases ▶ Weak chlorinated products	-35 °C +100 °C
Mauve label TE	▶ Industrial water ▶ Acidic water ▶ Diluted acids and bases	-25 °C +100 °C
White label F1	▶ Special highly aggressive products (Working pressure limited to 6 bar max.)	-35 °C +110 °C



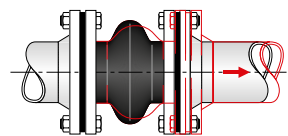
The inner lining to be used for a specific fluid (composition, concentration, temperature, etc.) should be selected according to our Chemical Resistance Chart.

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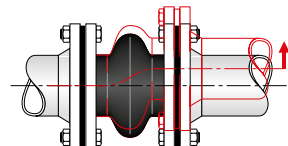
Operating Principles



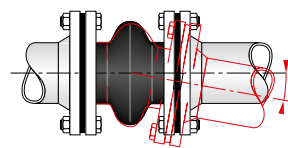
AXIAL COMPRESSION



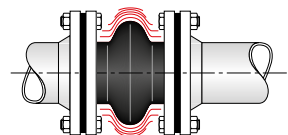
AXIAL ELONGATION



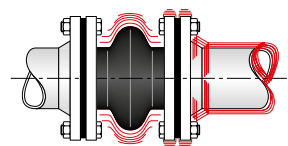
LATERAL DEFLECTION



ANGULAR DEFLECTION



WATER HAMMER REDUCTION



ELIMINATION OF VIBRATION