

mercia flexibles

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Mercia Flexibles

Units 19/20 FlexSpace Enterprise Centre

Ludlow Eco Park

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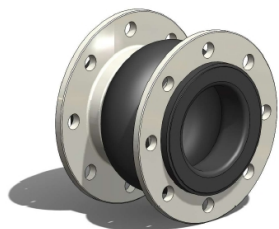
United Kingdom

DILATOFLEX TYPE T

Rubber Bellows Expansion Joints / Flexible Pump Compensators



- Grade **CC** Rated for 16 BarG @ 90 °C, and 10 BarG @ **110 °C**.
- Manufactured within the European Union.
- Type Approved



DILATOFLEX®

Rubber Bellows Expansion Joints - Flexible Pump Bellows Compensators

DILATOFLEX TYPE T

The best among expansion joints

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

CC	16 bar - 90°C
AR/CN	10 bar - 110°C
GZ	16 bar - 90°C
TE	
YP	
AB	16 bar - 100°C
EPC	
DW	16 bar - 90°C
	12 bar - 105°C

The expansion joint Type T allows big displacement, high resistance to pressure and a very good behaviour in exceptional conditions.



Drinking water agreement Grade DW



25 bars @ 55°C possible on request with model DIL-TP.

Example of label:



Range of diameters:

ND 32 - 40 - 50 - 65 - 80 - 100 - 125
150 - 200 - 250 - 300 - 350 mm

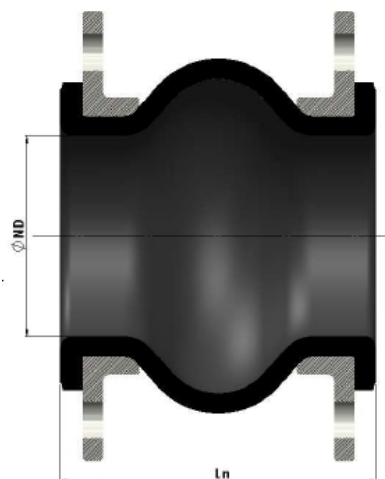
Lengths :

DN 32 to 200 : 150 mm
DN 150 to 350 : 200 mm

Working conditions:

Displacements		Normal*
AXIAL	Compression	30 mm
	Elongation	30 mm
LATERAL		20 mm

*normal conditions : 1 x 10⁶ cycles



Angular displacement												
DN (mm)	32	40	50	65	80	100	125	150	200	250	300	350
Normal (°)	20	20	20	20	20	20	10	10	10	10	10	9

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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.

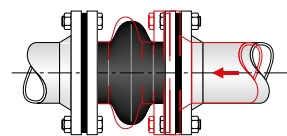
Lining Grade Identification colour and designation	Typical Applications	W.T. Working temperatures	
Green label CC	▶ Central heating and air conditioning water	-35 °C	+90 °C/ 110 °C
Blue label DW	▶ Drinking Water Approved ▶ Domestic cold and hot water	-25 °C	+90 °C/ 105 °C
Cream label EPC	▶ Food products ▶ 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



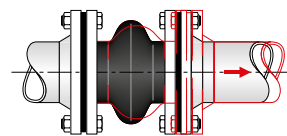
The inner lining to be used for a specific fluid (composition, concentration, temperature, etc.) should be selected according to our Chemical Resistance Chart.

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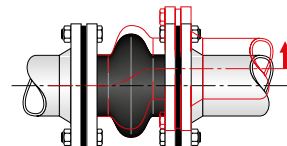
Operating Principles



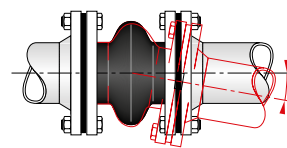
AXIAL COMPRESSION



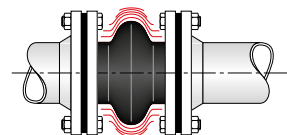
AXIAL ELONGATION



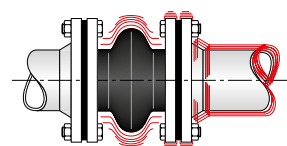
LATERAL DEFLECTION



ANGULAR DEFLECTION



WATER HAMMER REDUCTION

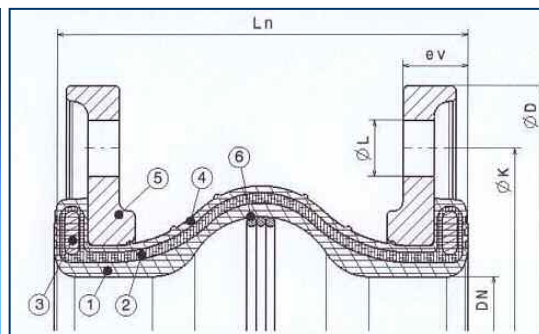
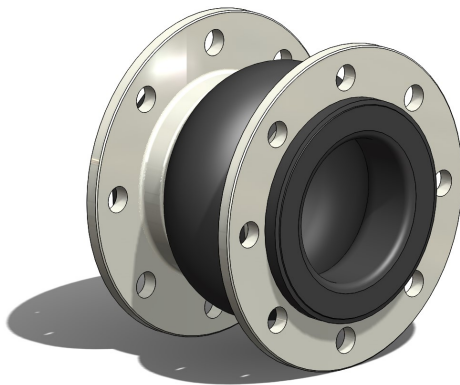


ELIMINATION OF VIBRATION

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

Options :

- Stainless Steel Flanges
- Tied and Hinged Versions
- Vacuum Rings
- Food Grade **EPC** and Potable Water Grade **DW** Versions
- High Pressure Rated for 25 BarG @ 55 °C
- Other Rubber Grades for Chemicals, Oils, etc.
- Type **K1** with PTFE Internal Liner
- Flame Guards
- Standard Length Type **K**, and Double Sphere Type **T2**



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