

mercia flexibles

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Mercia Flexibles

Units 19/20 FlexSpace Enterprise Centre

Ludlow Eco Park

Ludlow

Shropshire. SY8 1FF.

United Kingdom

DILATOFLEX TYPE KP

Rubber Bellows Expansion Joints / Flexible Pump Compensators

HIGH PRESSURE RATING 25 BarG



- Rated for 25 BarG @ 55 °C.
- Manufactured within the European Union.
- Type Approved

DILATOFLEX[®] KP

Rubber Bellows Expansion Joints - Flexible Pump Bellows Compensators

High Pressure 25 BarG @ 55 °C

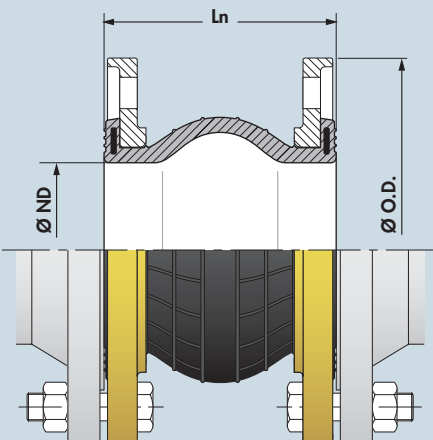
Inner lining grades

DW
Blue label



GZ
Orange label

TE
Mauve label



Example of Label



DIMENSIONAL DATA					TECHNICAL DATA							
Nominal Diameter		Longueur nominale (Ln en mm)	O.D. (mm)		Max. permissible pressure	Steel ring required for vacuum greater than ...%	Max. Permissible Movements (not concurrent)				AUTOSTABLE ... at its equilibrium length (Lq in mm)	Approx. weight in kg (steel) (1)
			Drilling standards				Axial	Lateral	Angular			
ND mm	NPS inch		ISO 2084 NF EN 1759-1 NF EN 1092-1		bar		Compression 	Elongation 	Shearing 	angle 		
			class 150 (PN 20)	PN 25								
32	1 1/4	130	-	140	25	-	20	10	10	15	130	3.0
40	1 1/2	130	130	150	25	-	20	10	10	15	130	3.4
50	2	130	165	165	25	30	20	10	10	15	130	4.0
65	2 1/2	130	185	185	25	30	20	10	10	15	130	4.7
80	3	130	200	200	25	30	20	10	10	12	130	5.0
100	4	130	220	235	25	30	20	10	10	9	135	6.2
125	5	130	250	270	25	30	20	15	15	9	140	7.7
150	6	130	285	300	25	30	15	15	10	5	140	10.0
200	8	130	340	360	25	30	15	20	15	5	145	12.2
250	10	130	405	425	25	30	10	20	10	4	150	16.7
300	12	130	485	485	25	30	10	20	10	4	155	20.0

(1) Floating flanges in zinc-chromated, hot dip galvanized or 304L stainless steel

Technical Sheet

AFD-TS- 007/2 from 2008 - 11 - 04

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

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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

Blue label DW	▶ Drinking Water Approved ▶ Domestic cold and hot water	
Orange label GZ	▶ Gas, compressed air, fuel, oil ▶ Petroleum products with aromatic content < 40% ▶ Sanitation water	
Mauve label TE	▶ Industrial water ▶ Diluted acids and bases	

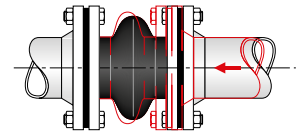
NOTE : Maximum Temperature for WP 25 BarG is 55 °C.

Distributor:

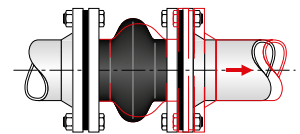
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The inner lining to be used for a specific fluid (composition, concentration, temperature, etc.) should be selected according to our Chemical Resistance Chart. For special working conditions, please consult us.

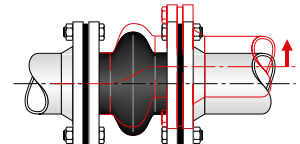
Operating Principles



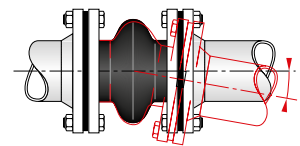
AXIAL COMPRESSION



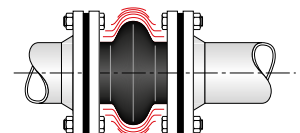
AXIAL ELONGATION



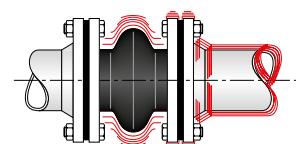
LATERAL DEFLECTION



ANGULAR DEFLECTION



WATER HAMMER REDUCTION

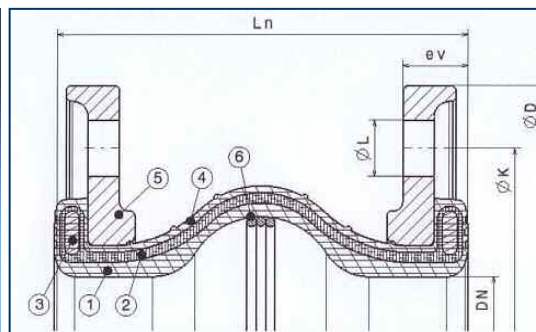
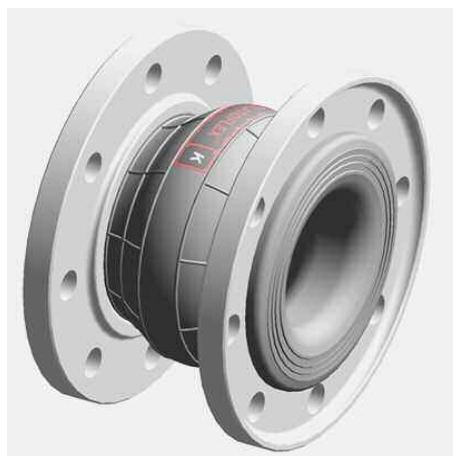


ELIMINATION OF VIBRATION

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
- Potable Water Grade **DW** Version
- 150/200 mm Lengths Type **TP** also available
- Other Rubber Grades for Chemicals, Oils, etc.
- Type **K1** with PTFE Internal Liner
- Flame Guards
- Standard Pressure Rating Types **K** & **T** 16 BarG.



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