

**EXPANSION JOINT EPDM PN10/16 130 mm LONG**

ISO 9001

BUREAU VERITAS  
Certification



**LENNTECH**

info@lennotech.com

www.lennotech.com

Tel. +31-15-261.09.00

Fax. +31-15-261.62.89



**Size :** DN 32 to 300

**Ends :** Flanges GN10/16

**Min Temperature :** - 10°C

**Max Temperature :** + 100°C

**Max Pressure :** 16 Bars

**Specifications :** Absorb vibrations and noises

Linear and angular compansion

Single sphere

**Materials :** Galvanized steel flanges

**EXPANSION JOINT EPDM PN10/16 130 mm LONG**

**SPECIFICATIONS :**

- Absorb vibration, noises and expansion
- Linear and angular compansion
- Single sphere EPDM
- Galvanized steel flanges GN10/16 up to DN150, GN10 over

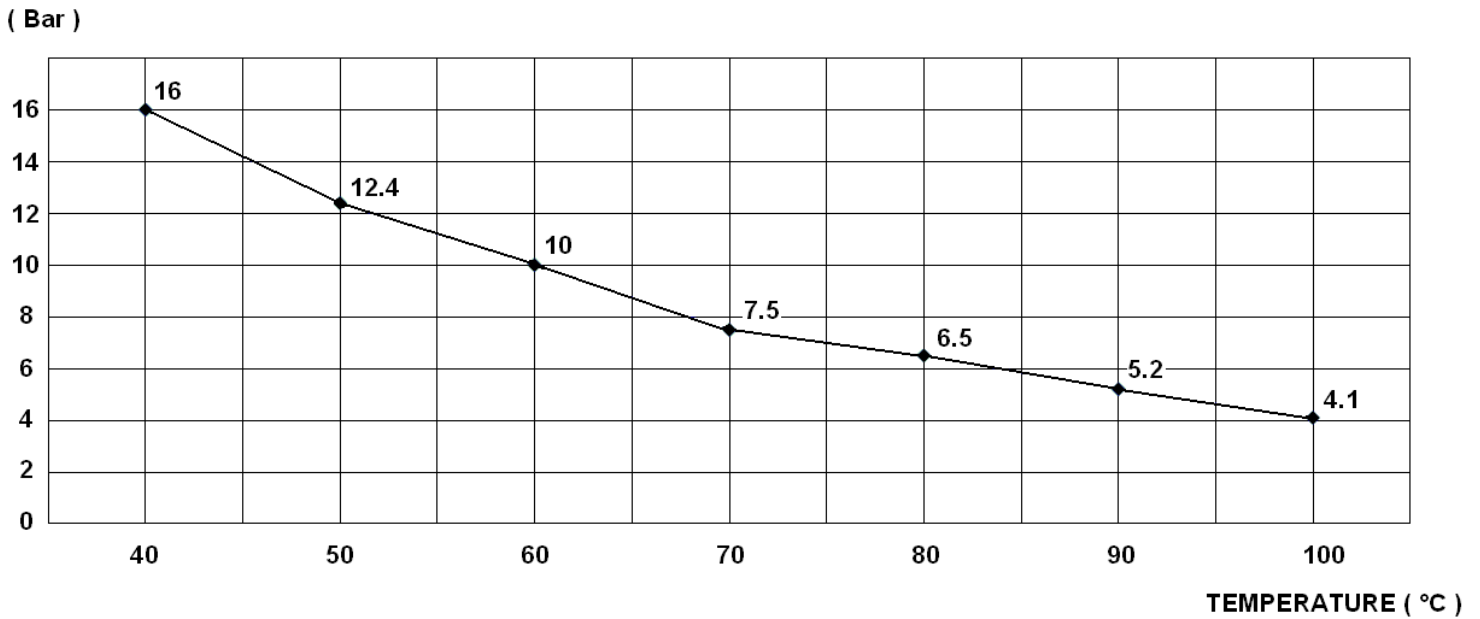
Marking example ( EPDM ) :



**USE :**

- Water distribution
- Min and max Temperature Ts : - 10°C to + 100°C
- Max Pressure PN : 16 bars

**PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :**

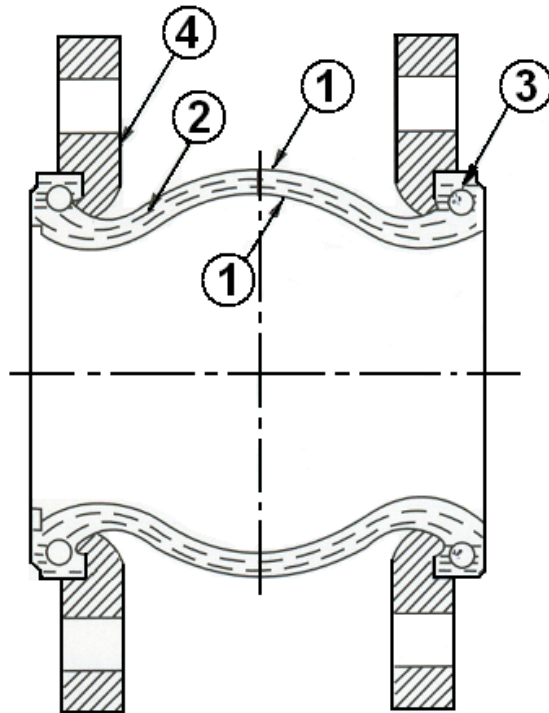


**RANGE :**

- EPDM expansion joint 130 mm long with steel flanges GN10/16 from DN 32 to DN 150 and GN10 over, **Ref. 1505**

**EXPANSION JOINT EPDM PN10/16 130 mm LONG**

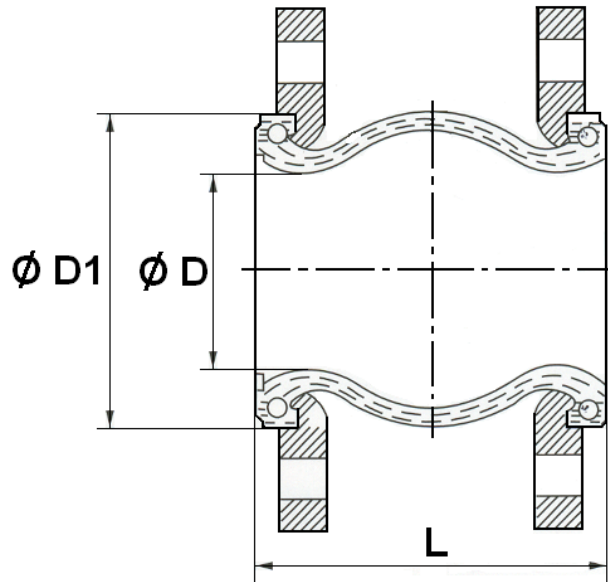
MATERIALS :



Item	Designation	Materials 1501 - 1502
1	Bellow	EPDM
2	Reinforcement	Nylon cord
3	Brace	Hard steel
4	Flanges	Galvanized steel

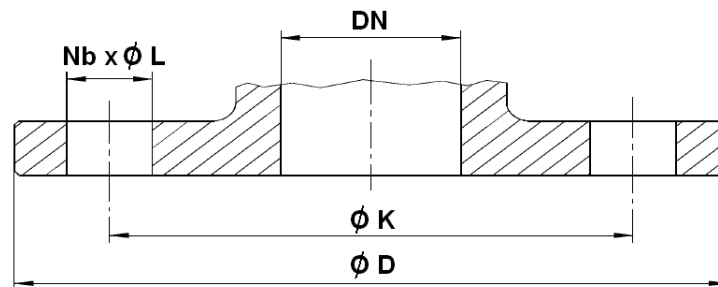
**EXPANSION JOINT EPDM PN10/16 130 mm LONG**

**SIZE ( in mm ) :**

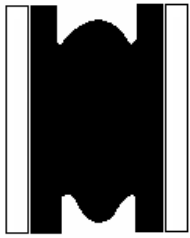


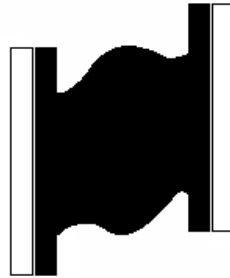
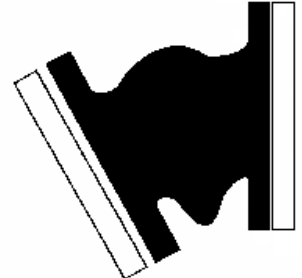
Ref.	DN	32	40	50	65	80	100	125	150	200	250	300
1505	L	130	130	130	130	130	130	130	130	130	130	130
	Ø D	40	40	52	68	76	103	128	152	194	250	300
	Ø D1	69	69	85	106	116	150	180	209	260	320	367
	Weight (Kg)	2.74	2.98	4.24	4.98	5.72	6.94	9.18	10.96	15.3	20.24	23.46

**FLANGES SIZE GN10 ( in mm ) :**



DN	32	40	50	65	80	100	125	150	200	250	300
Ø D	140	150	165	185	200	220	250	285	340	395	445
Ø K	100	110	125	145	160	180	210	240	295	350	400
Nb x Ø L	4 x 19	4 x 19	4 x 19	4 x 19	8 x 19	8 x 19	8 x 19	8 x 23	8 x 23	12 x 23	12 x 23

**EXPANSION JOINT EPDM PN10/16 130 mm LONG**
**MOVEMENTS ( in mm ) :**

**Compansion**

**Expansion**

**Lateral**

**Angular**

DN	32	40	50	65	80	100	125	150	200	250	300
Compression	12	12	12	12	12	12	12	12	12	12	12
Elongation	10	10	10	10	10	10	10	10	10	10	10
Transversal	12	12	12	12	12	12	12	12	12	12	12
Angulaire	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°

**STANDARDS :**

- Fabrication according to ISO 9001 : 2000
- DIRECTIVE 97/23/CE : Products excluded from directive ( article 1, § 3.2 )
- Flanges according to EN 1092 PN10/16

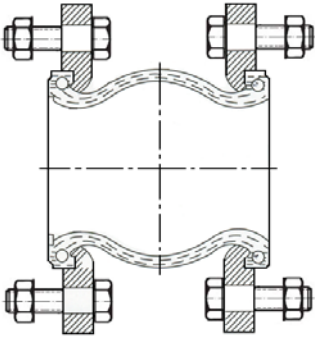
**ADVICE :** Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages. The customer must check the right choice of the products with the real service conditions.

**EXPANSION JOINT EPDM PN10/16 130 mm LONG**

**INSTALLATION INSTRUCTION :**

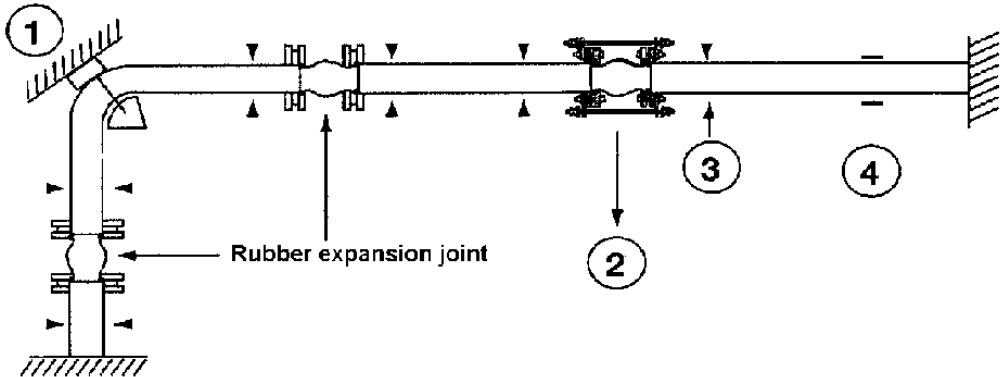
Expansion joint are designed for the absorption of previously specified movements under specific pressure and temperature conditions. So that the maximum service life is achieved, the following items must be observed during installation.

- Prior to fitment of the compensator it must be ensured that :
  - The route of the pipeline is straight - The expansion tallies with that of the chosen compensator
  - The expansion tallies with that of The chosen compensator
  - The fixes points are dimensionned so that they can absorb the reaction forces and stiffness rate that arise during use.
  - The pipeline is limited by fixed points
  - The distance between compensator and bearing may be a maximum of 3 times the pipe diameter. Place only one compensator between 2 bearings.
  
- Each pipe elbow must be fixed by support, specially if compensator is mounted with limiters. Fixed bearings are necessary because compensator is submitted to expansion when it is under pressure.
  
- Expansion joint must not be painted and heat-insulated. It must be protected from bad weather and solar radiation.
  
- During assembly operation, make sure screws are oriented according to the graph out below :



- Please apply the following stages order :
  - a) Fixed points for above pipeline
  - b) Fixed points for down pipeline
  - c) Compensator mounting

• Installation layout :



- 1. Fixed points
- 2. With limiters
- 3. Bearings
- 4. Pipe guides

- Check that the compensator is not subjected to the weight of the pipeline. The installation lenght must agree with the installation gap. The compensator must never be twisted. It is recommended that specific characteristics be observed during maintenance :
  - The compensator must never be painted or recovered by heat insulation
  - The tightness of the bolts must be checked often.
  - The flanges must be perfectly cleared

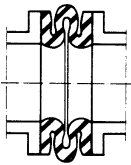
**EXPANSION JOINT EPDM PN10/16 130 mm LONG**

**INSTALLATION INSTRUCTION ( SUITE ) :**

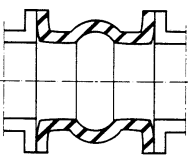
- Use limiters : When the working pressure can exceed the following values :
  - Up to DN100 : 10 bars
  - From DN125 to DN250 : 9 bars
  - From DN300 to DN350 : 6 bars
  - From DN400 to DN600 : 3 bars
  - When there is some risk of high pressure (pump starting) or high temperature.

**NOTA :** The life of compensator can vary because of working conditions (fluids, pressure, temperature), that is why it is necessary to check it regularly.

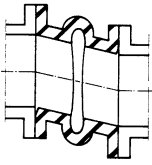
**WRONG INSTALLATION :**



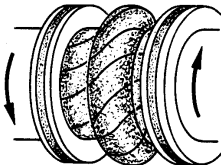
Excessive compansion



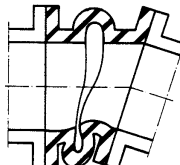
Excessive expansion



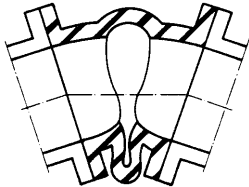
Cutting too important



Torsion



Important compansion and angular deviation



Angular deviation too important

**LENNTECH**

info@lennotech.com

www.lennotech.com

Tel. +31-15-261.09.00

Fax. +31-15-261.62.89