

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

ISO 9001

BUREAU VERITAS  
Certification**Size :** DN 32 to 200**Ends :** Flanges ISO PN10/16**Min Temperature :** - 10°C**Max Temperature :** + 80°C**Max Pressure :** 16 Bars**Specifications :** Absorb vibrations and noises

Linear and angular compansion

Single NBR sphere

**Materials :** Galvanized steel flanges

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

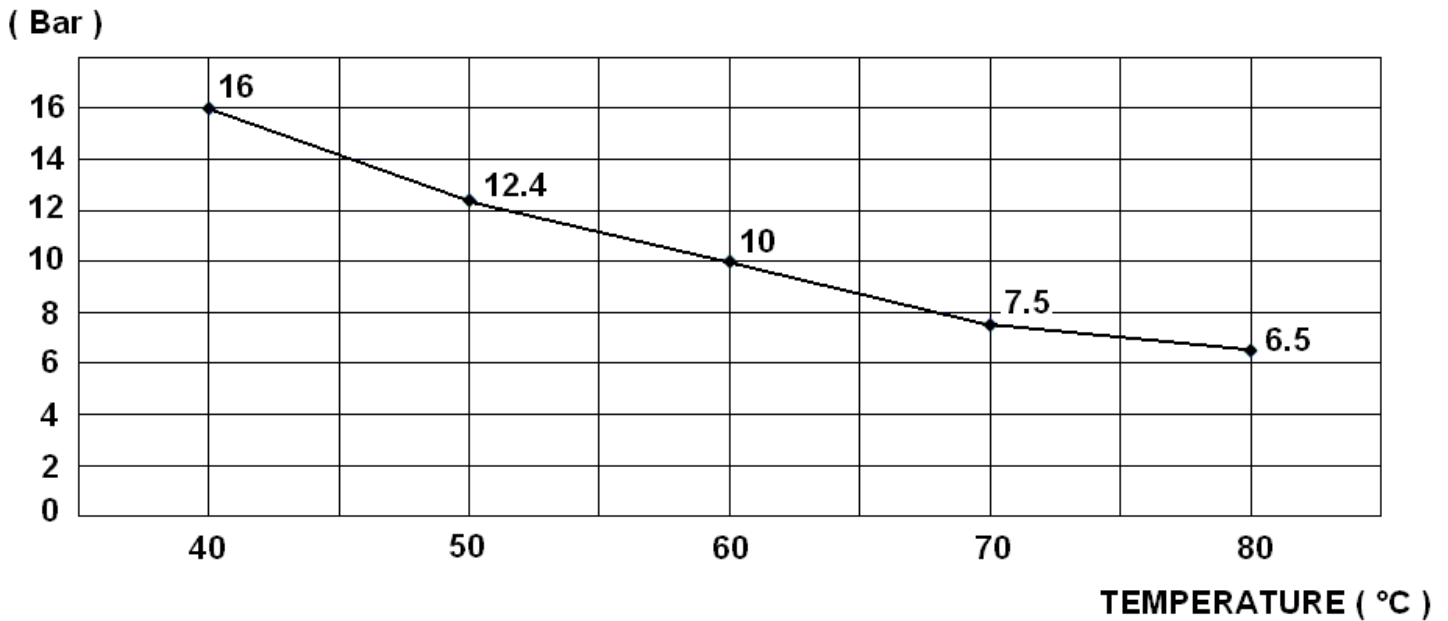
**SPECIFICATIONS :**

- Absorb vibration, noises and expansion
- Linear and angular compansion
- Single sphere NBR
- Galvanized steel flanges ISO PN10/16 up to DN150, ISO PN10 over

**USE :**

- Oil, hydrocarbon, air
- Min and max Temperature Ts : - 10°C to + 80°C
- Max Pressure Ps : 16 bars

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

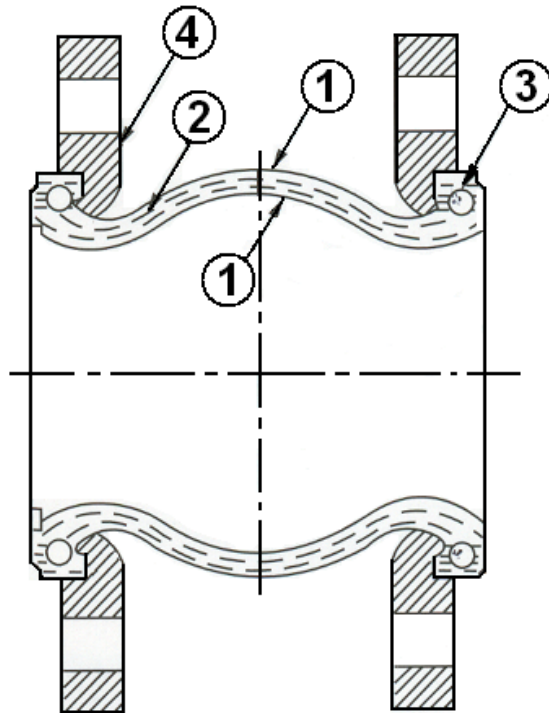


**RANGE :**

- NBR expansion joint 130 mm long with steel flanges ISO PN10/16 from DN 32 to DN 150 and ISO PN10 over, Ref. **MXT-55701506**

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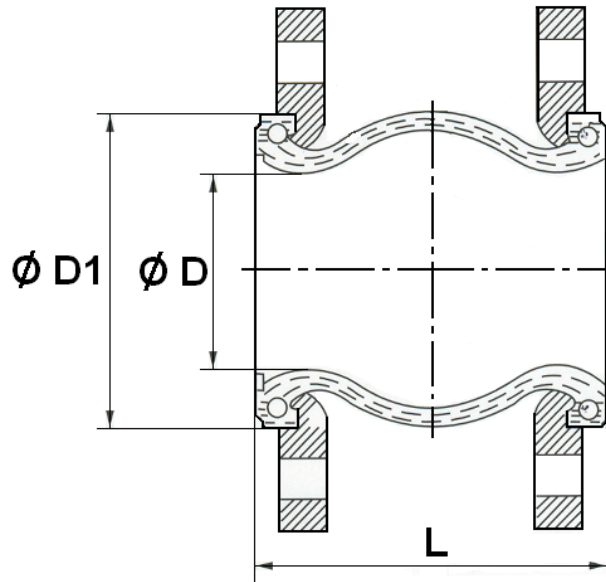
**MATERIALS :**



Item	Designation	Materials
1	Bellow	NBR
2	Reinforcement	Nylon cord
3	Brace	Hard steel
4	Flanges	Galvanized steel

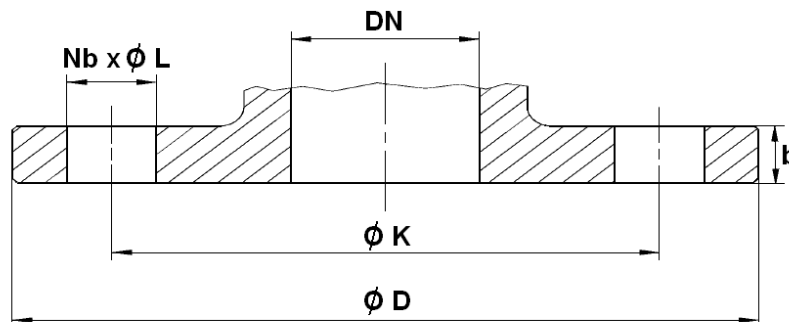
**EXPANSION JOINT NBR PN10/16 130 mm LONG**

SIZE ( in mm ) :

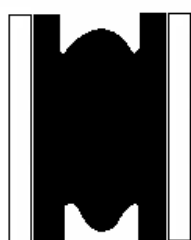
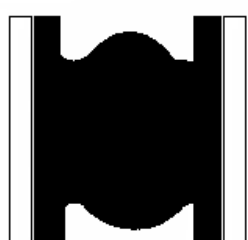
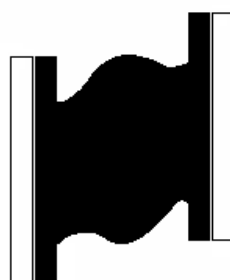
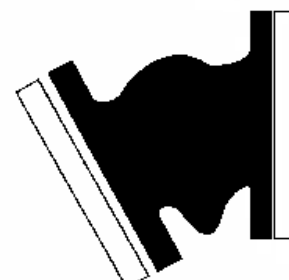


Ref.	DN	32	40	50	65	80	100	125	150	200
1506	L	130	130	130	130	130	130	130	130	130
	Ø D	40	40	52	68	76	103	128	152	194
	Ø D1	69	69	85	106	116	150	180	209	260
	Weight (Kg)	2.74	2.98	4.24	4.98	5.72	6.94	9.18	10.96	15.3

FLANGES SIZE ( in mm ) :



DN	32	40	50	65	80	100	125	150	200
Ø D	140	150	165	185	200	220	250	285	340
Ø K	100	110	125	145	160	180	210	240	295
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
b	14	14	15	15	17	17	19	19	20

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

**Compansion**

**Expansion**

**Lateral**

**Angular**

DN	32	40	50	65	80	100	125	150	200
Compansion	12	12	12	12	12	12	12	12	12
Expansion	10	10	10	10	10	10	10	10	10
Lateral	12	12	12	12	12	12	12	12	12
Angular	15°	15°	15°	15°	15°	15°	15°	15°	15°

STANDARDS :

- Fabrication according to ISO 9001 : 2008
- DIRECTIVE 97/23/CE : Products excluded from directive ( article 1, § 3.2 )
- Flanges according to EN 1092-1 PN10/16

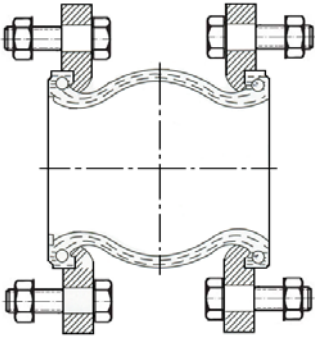
**ADVICE :** Our opinion and our advice are not guaranteed and MXT shall not be liable for the consequences of damages. The customer must check the right choice of the products with the real service conditions.

## EXPANSION JOINT NBR PN10/16 130 mm LONG

### INSTALLATION INSTRUCTION :

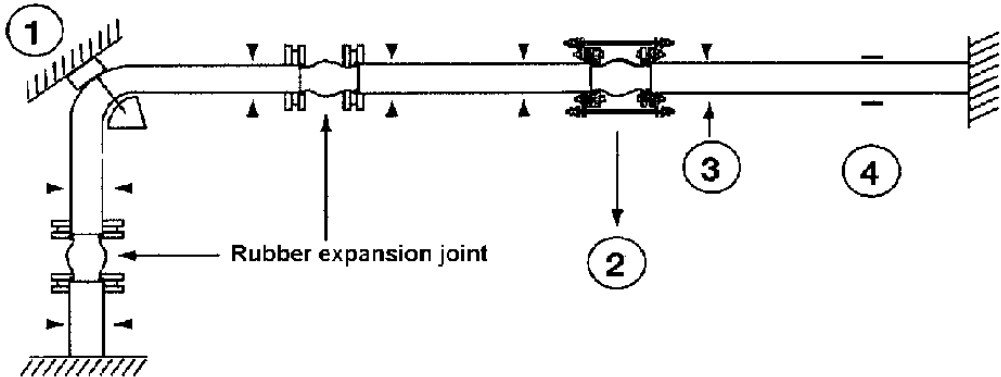
Expansion joint are designed for the absorption of previously specified movements under specific pressure and temperature conditions. So that the maximum service life is achieved, the following items must be observed during installation.

- 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 :



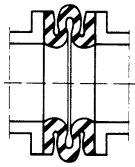
- 1. Fixed points
- 2. With limiters
- 3. Bearings
- 4. Pipe guides

- 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

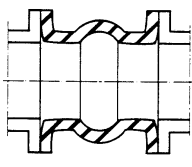
**EXPANSION JOINT NBR PN10/16 130 mm LONG****INSTALLATION INSTRUCTION ( SUITE ) :**

- 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.

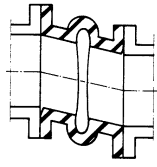
**NOTA :** The life of compensator can vary because of working conditions (fluids, pressure, temperature), that is why it is necessary to check it regularly.

**WRONG INSTALLATION :**

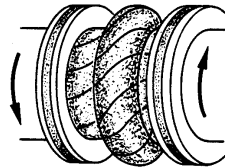
Excessive  
compansion



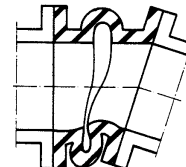
Excessive  
expansion



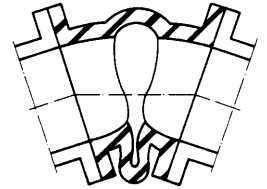
Cutting too  
important



Torsion



Important compansion  
and angular deviation



Angular deviation  
too important