INSTALLATION OPERATING MANUAL RUBBER EXPANSION JOINT FEMALE BSP

EPDM expansion joint with cast iron union fittings to absorb vibrations and noises on water distribution, heating and HVAC networks.
Not advisable for hydrocarbons, greasy product and abrasive products.
EPDM double wave body and galvanized cast iron union fittings.
For linear and angular compansion.

Size :	DN1/2" to DN3"
Connection :	Threaded BSP
Min Temperature :	-10°C
Max Temperature :	+100°C
Max Pressure :	16 Bars
Specifications :	Absorb vibrations and noises Linear and angular compansion Double wave EPDM tube
Materials :	Galvanized cast iron union fittings

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SPECIFICATIONS :

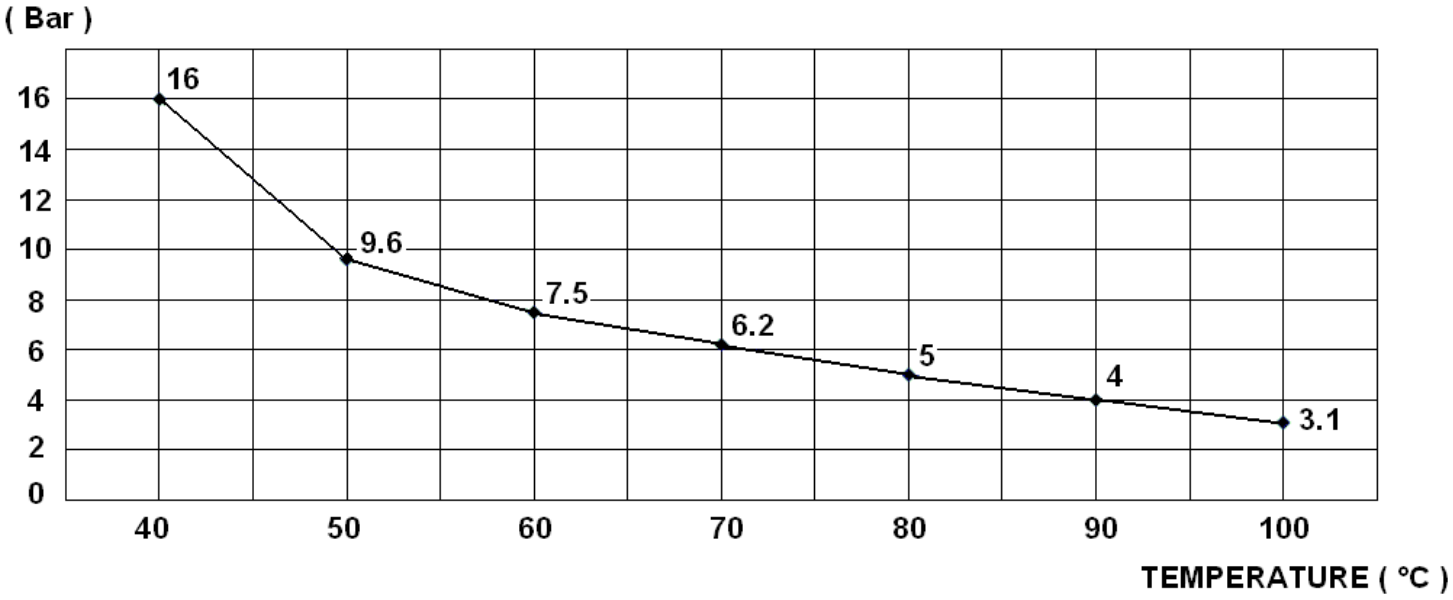
- Absorb vibration, noises and expansion
- Linear and angular compansion
- Double wave EPDM Tube (EPDM marking)
- Galvanized cast iron union fittings

Marking example (EPDM) :

USE :

- Water distribution, heating and HVAC
- Min and max Temperature Ts : - 10°C to + 100°C
- Max Pressure Ps : 16 bars (see graph)

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED):



RANGE :

- EPDM expansion joint threaded BSP with cast iron union fittings from DN 1/2“ to DN 3“ **Ref. 1504**

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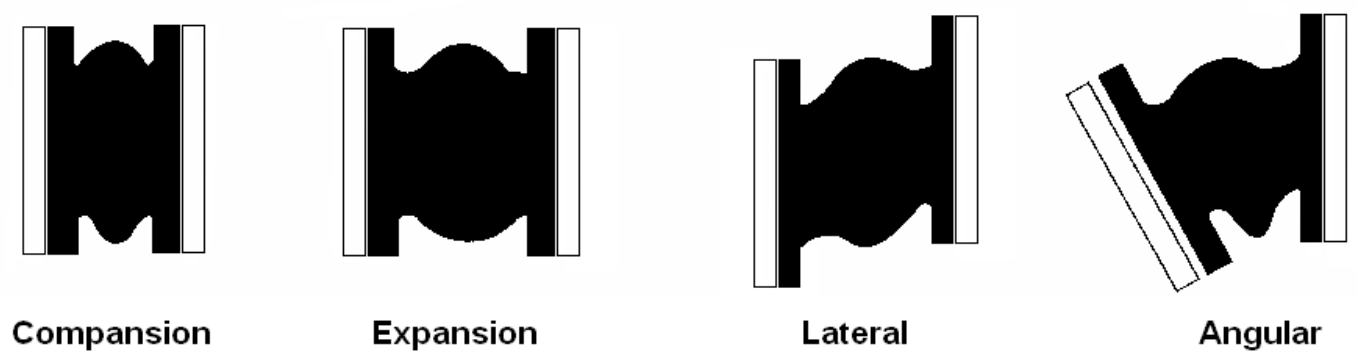
MOVEMENTS (in mm) :



DN	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"
Compansion	22	22	22	22	22	22	22	22
Expansion	6	6	6	6	6	6	6	6
Lateral	22	22	22	22	22	22	22	22
Angular	30°	30°	30°	30°	30°	20°	15°	15°

Maximum movements can't be applied together

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INSTALLATION INSTRUCTIONS :

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.

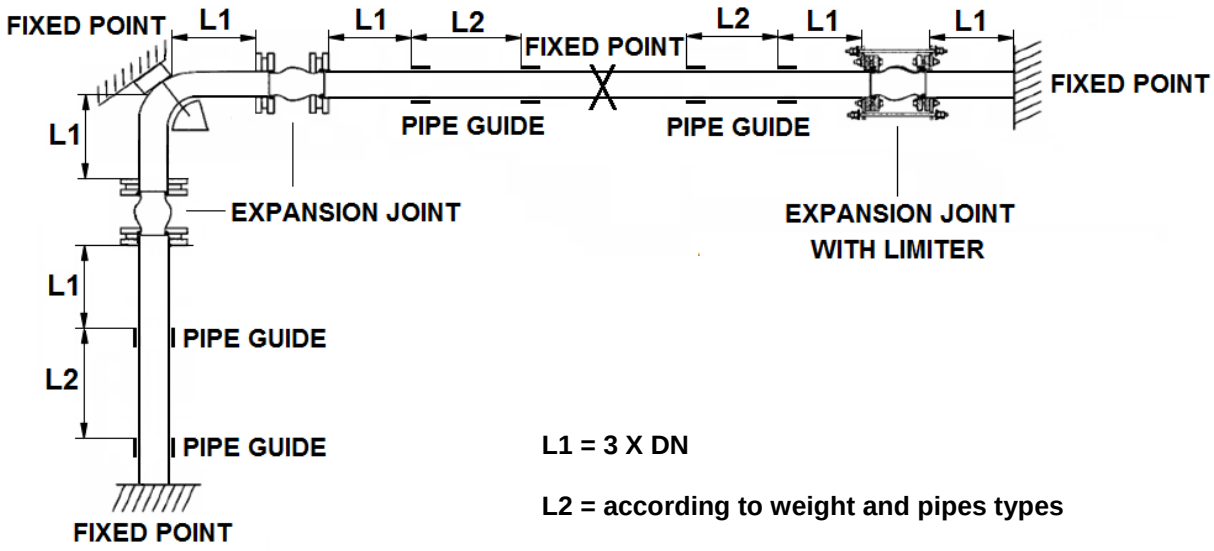
- Each pipe elbow must be fixed by support, specially if compensator is mounted with limiters.
  Fixed bearings are necessary because compensator is submitted to expansion when it is under pressure.

- Expansion joint must not be painted and heat-insulated. It must be protected from bad weather and solar radiation.

- Please apply the following stages order :

  a) Fixed points for above pipeline
  b) Fixed points for down pipeline
  c) Compensator mounting

- Installation layout :

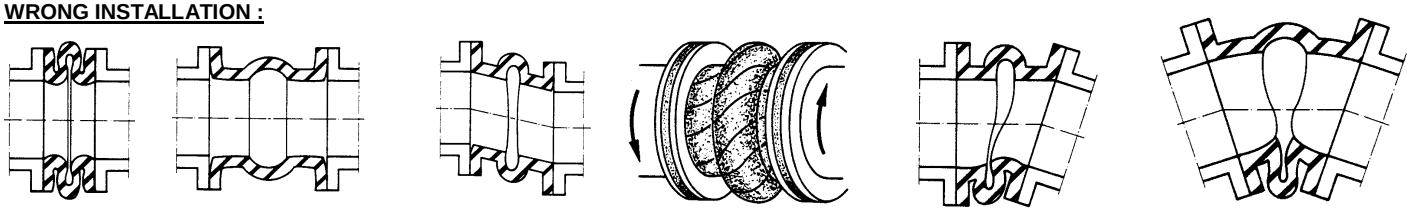


L1 = 3 X DN

L2 = according to weight and pipes types

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

WRONG INSTALLATION :



Excessive compansion | Excessive expansion | Cutting too important | Torsion | Important compansion and angular deviation | Angular deviation too important

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MAINTENANCE :

Expansion joint are to be included in a maintenance plan.

• It must be perfectly accessible, in order to facilitate regular checks and possible dismantling.

• An external visual inspection (appearance, elasticity of the elastomers) and a check of the tightening of the flanges must be carried out every year on the anniversary date of commissioning.

• Every 3 years, internal control and inspection after dismantling the sleeves depending on the severity of the service conditions or the national regulations in force in the country.

• Every 7 years, systematic replacement of installed parts. The compensating sleeve should be replaced regularly depending on its condition and the hardening of the materials.

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.