

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. Drinking water for EPDM ACS type 1508.

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

INSTALLATION OPERATING MANUAL RUBBER EXPANSION JOINT FEMALE BSP

SPECIFICATIONS :

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

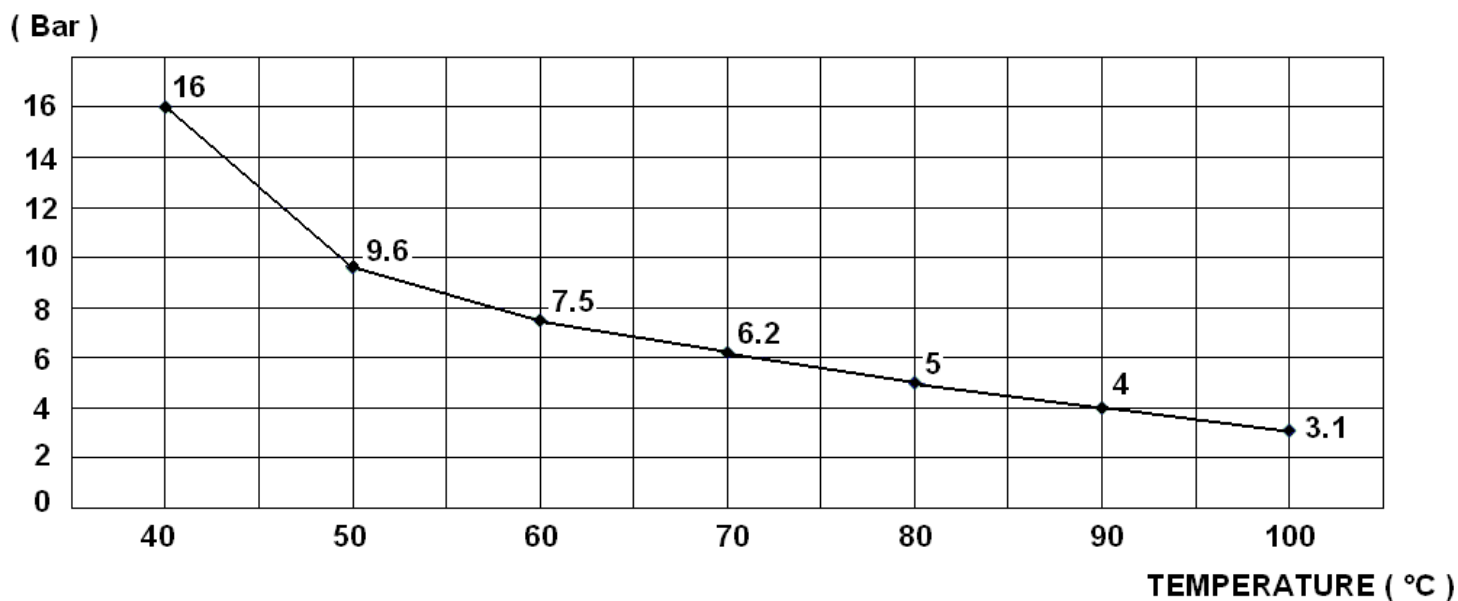
Marking example (EPDM) :



USE :

- Water distribution, heating and HVAC (drinking water for type 1508)
- Min and max Temperature Ts : - 10°C to + 100°C
- Max Pressure Ps : 16 bars (see graph)

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :

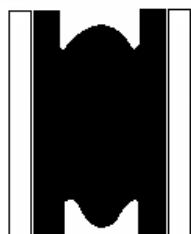


RANGE :

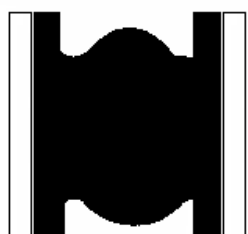
- EPDM expansion joint threaded BSP with cast iron union fittings from DN 1/2" to DN 3" **Ref. 1504**
- EPDM ACS expansion joint threaded BSP with cast iron union fittings from DN 1/2" to DN 3" **Ref. 1508**

INSTALLATION OPERATING MANUAL RUBBER EXPANSION JOINT FEMALE BSP

MOVEMENTS (in mm) :



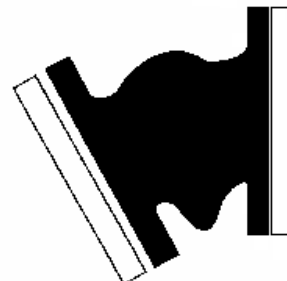
Compansion



Expansion



Lateral



Angular

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°

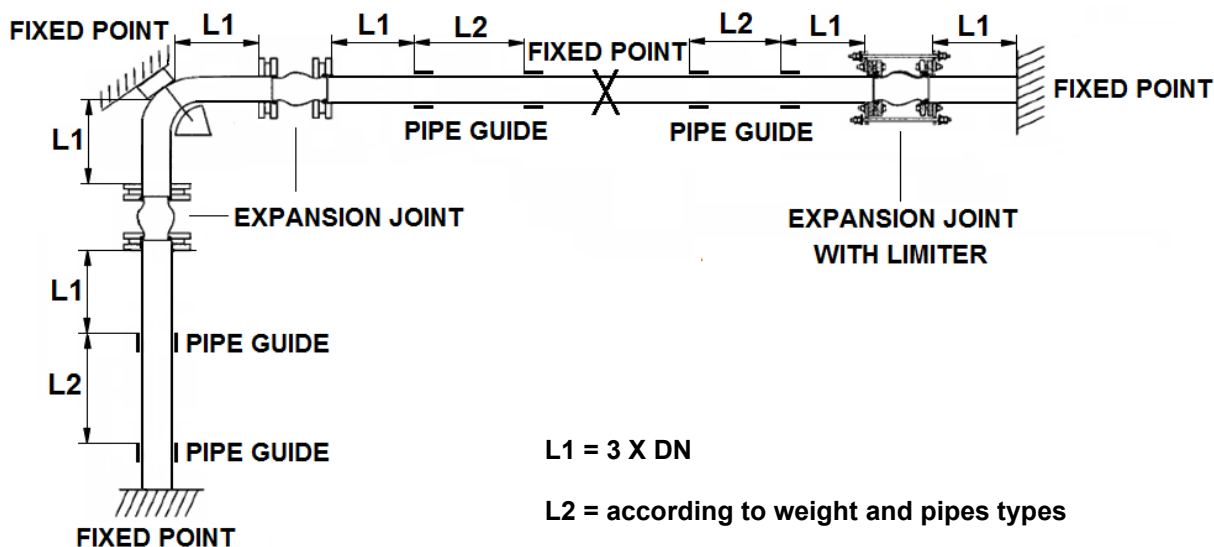
Maximum movements can't be applied together

INSTALLATION OPERATING MANUAL RUBBER EXPANSION JOINT FEMALE BSP

INSTALLATION INSTRUCTIONS :

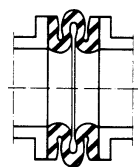
Expansion joint are designed for the absorption of previously specified movements under specific pressure and temperature conditions. So that the maximum service life is achieved, the following items must be observed during installation.

- 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 :

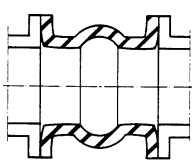


NOTA : The life of compensator can vary because of working conditions (fluids, pressure, temperature), that is why it is necessary to check it regularly.

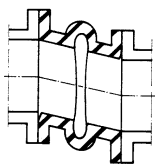
WRONG INSTALLATION :



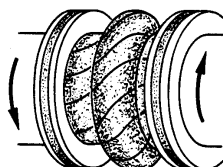
Excessive compansion



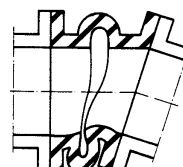
Excessive expansion



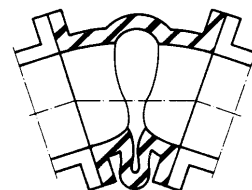
Cutting too important



Torsion



Important compansion and angular deviation



Angular deviation too important

INSTALLATION OPERATING MANUAL RUBBER EXPANSION JOINT FEMALE BSP**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.