**Key Advantages**

Anvis France Decize-designed expansion joints are flexible reinforced elastomer components used in piping systems to meet the following major needs:

- Protect piping from dimensional variations
- Protect equipment from vibration
- Protect equipment from water hammer
- Facilitate installation and removal
- Facilitate connections between pipes
- Improve man’s comfort by reducing sound transmission

**Expansion Joints**

Expansion joints have one or more arches to provide compensating functions and anti-vibration and sound insulation. Their ends are threaded, flanged or beaded to form a tight seal against the matching pipe flanges.

Expansion joints consist of:
- A rubber lining compounded to resist the fluid being conveyed
- A carcass of highly resistant textile or steel cord layers
- An outer rubber cover with excellent resistance to ageing.

**Data for Expansion Joint Selection**

1. Diameter (in mm)
2. Length
3. Drilling standard
4. Fluid type
5. Temperature
6. Axial movement
7. Lateral movement
8. Anchors
9. Number
10. Location

<table>
<thead>
<tr>
<th>Expansion Joint</th>
<th>Nominal Diameter (in mm)</th>
<th>Max. W.P. (in bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KLEDIL® K</td>
<td>20 to 50</td>
<td>12 to 7</td>
</tr>
<tr>
<td>DILATOFLEX® KP</td>
<td>32 to 300</td>
<td>16</td>
</tr>
<tr>
<td>DILATOFLEX® KT</td>
<td>32 to 300</td>
<td>12</td>
</tr>
<tr>
<td>DILATOFLEX® NT</td>
<td>20 to 32</td>
<td>12</td>
</tr>
<tr>
<td>DILATOFLEX® NT1</td>
<td>32 to 300</td>
<td>25</td>
</tr>
<tr>
<td>DILATOFLEX® NT2</td>
<td>32 to 300</td>
<td>16</td>
</tr>
<tr>
<td>DILATOFLEX® N</td>
<td>40 to 450</td>
<td>16</td>
</tr>
<tr>
<td>DILATOFLEX® M</td>
<td>500 to 3000</td>
<td>≥ 10</td>
</tr>
<tr>
<td>MD</td>
<td>500 to 2600</td>
<td>8 to 4</td>
</tr>
<tr>
<td>MS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Expansion Joints

### Requirements

**Abrasive or corrosive products**  
(Weak acids and bases)

**Industrial water – Sea water**

**Low temperature water vapour**

**Industrial and waste water**

**Compressed air**

**Hydrogen gas, nitrogen**

**Acids and bases**

**Weak chlorinated products**

**Strong acids and bases**

**Aggressive chemicals**

**Domestic hot and cold water**

**Food products**

**Superheated water**

**Water vapour**

**Central heating and air-conditioning water**

**Drinking water**

**Hot water, cold water, domestic water**

**Gas – Compressed air – Oil – Fuel**

**Petroleum products with aromatic content < 40%**

**Sanitation Water**

**(Working Pressure limited to 6 bar max.)**

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### Operating Principles

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.