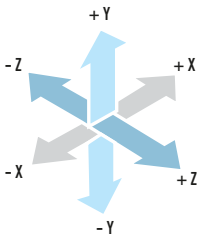


| Product Code | Definition |
|--------------|--|
| KM100 - YVDB | Seismic Isolation Expansion Joint Grooved ± 50 mm Expansion |
| KM200 - YVDB | Seismic Isolation Expansion Joint Grooved ± 100 mm Expansion |
| KM300 - YVDB | Seismic Isolation Expansion Joint Grooved ± 150 mm Expansion |
| KM400 - YVDB | Seismic Isolation Expansion Joint Grooved ± 200 mm Expansion |

GENERAL

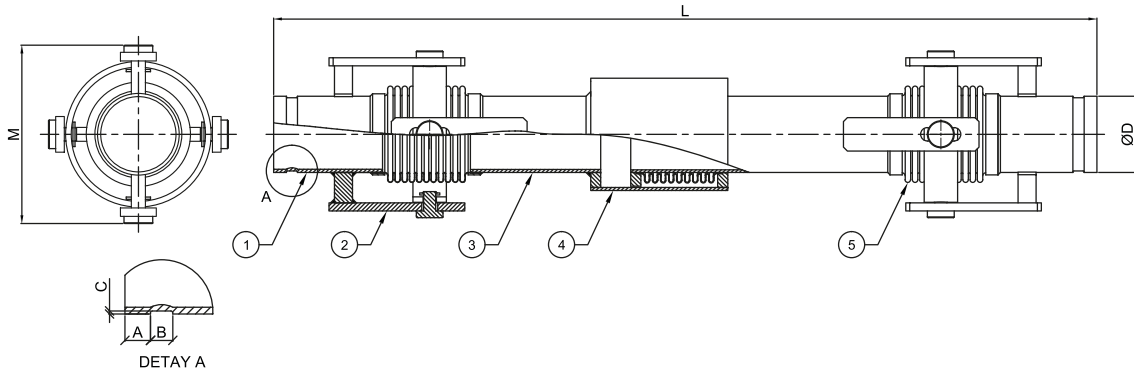
Seismic expansion joints are the flexible connection elements that minimize the risk of breakage that may occur in the system as a result of seismic (earthquake, building collapses, etc.) movements by damping the three dimensional movement as axial, lateral and angular and provide the continuity of the system by removing the stress on the rigid pipe. Seismic Expansion joints which are designed such as to accommodate the movement in three different directions (axial, lateral and angular), are widely used in systems such as heating, cooling, fire and sanitary systems of the structures where seismic isolators are used and the amount of movement is very high. They can also be used in places such as all building passages, Dilatation points etc. In the order phase, the prescribed amount of motion in the system, fluid type in the line, place of use, connection type, the working pressure and temperature of the system should be specified.



| Standard Product Materials | | Optional Product Materials |
|----------------------------|-------------------|--|
| Bellows | 1.4301 (AISI 304) | 1.4541 / 1.4401 / Titanium / Incoloy 800H / Inconel etc. |
| Joint Arms | 1.0038 (St 37-2) | Stainless Steel |
| Grooved Connections | 1.0038 (St 37-2) | Stainless Steel |

| Design Parameters | |
|--------------------|---|
| Design Pressure | 16 Bar (1 Bar...64 Bar) |
| Design Temperature | +20°C (-90°C...+550°C) |
| Diameters | DN25 (1")...DN2500 (100") |
| Movements | X: 100mm (± 50); Y,Z: ± 50 mm / Y,Z: ± 100 mm / Y,Z: ± 150 mm / Y,Z: ± 200 mm |
| Standards | EJMA, EN 14917 |
| Certifications | TSE - CE Module H (Optional) - EAC |

**Please contact our sales team for your special requests.



| Part Number | Specifications | |
|-------------|-------------------|--------------------------|
| | Name | Material |
| 1 | Grooved End | 1.0038 (S235JR / St37-2) |
| 2 | Joint Arm | 1.0038 (S235JR / St37-2) |
| 3 | Intermediate Pipe | 1.0038 (S235JR / St37-2) |
| 4 | Outside Pipe | 1.0038 (S235JR / St37-2) |
| 5 | Bellows | 1.4301 (AISI 304) |

| Diameters | | LENGTH (L = mm) | | | | A (mm) | B (mm) | C (mm) | ØD (mm) | M (mm) | Effective Area (cm ²) |
|-----------|--------|----------------------------------|------------------------------------|------------------------------------|------------------------------------|--------|--------|--------|---------|--------|-----------------------------------|
| | | KM100-YVDB | KM200-YVDB | KM300-YVDB | KM400-YVDB | | | | | | |
| | | X: ±50mm Y: ±50mm Z: ±50mm | X: ±50mm Y: ±100mm Z: ±100mm | X: ±50mm Y: ±150mm Z: ±150mm | X: ±50mm Y: ±200mm Z: ±200mm | | | | | | |
| DN25 | 1" | 1270 | 1350 | 1450 | 1550 | 15,8 | 7,1 | 1,6 | 33,7 | 170 | 19,0 |
| DN32 | 1 1/4" | 1270 | 1350 | 1450 | 1550 | 15,8 | 7,1 | 1,6 | 42,4 | 170 | 19,0 |
| DN40 | 1 1/2" | 1250 | 1350 | 1450 | 1550 | 15,8 | 7,1 | 1,6 | 48,3 | 170 | 24,7 |
| DN50 | 2" | 1300 | 1400 | 1500 | 1600 | 15,8 | 8,7 | 1,6 | 60,3 | 195 | 38,7 |
| DN65 | 2 1/2" | 1380 | 1480 | 1580 | 1680 | 15,8 | 8,7 | 1,9 | 76,1 | 210 | 58,0 |
| DN80 | 3" | 1450 | 1550 | 1650 | 1750 | 15,8 | 8,7 | 1,9 | 88,9 | 220 | 80,5 |
| DN100 | 4" | 1530 | 1630 | 1730 | 1830 | 15,8 | 8,7 | 2,1 | 114,3 | 265 | 129,0 |
| DN125 | 5" | 1600 | 1700 | 1800 | 1900 | 15,8 | 8,7 | 2,1 | 139,7 | 310 | 191,8 |
| DN150 | 6" | 1625 | 1725 | 1825 | 1925 | 15,8 | 8,7 | 2,1 | 165,1 | 335 | 262,7 |
| DN200 | 8" | 1710 | 1810 | 1910 | 2010 | 19,0 | 11,9 | 2,3 | 219,1 | 425 | 453,5 |
| DN250 | 10" | 1800 | 1900 | 2000 | 2100 | 19,0 | 11,9 | 2,3 | 273 | 470 | 698,4 |
| DN300 | 12" | 1900 | 2000 | 2100 | 2200 | 19,0 | 11,9 | 2,7 | 323,9 | 570 | 967,0 |

** X,Y,Z value represents axial, lateral, angular movements. Please contact our technical department for different movement requirements.