



SEISMIC ISOLATION EXPANSION JOINT

GENERAL FEATURES

Ayvaz seismic isolation expansion joints prevent pipeline damage by absorbing very high amounts of movements (X, Y, Z directions) in all directions such as earthquake and collapse. Its flexible and mobile structure eliminates the stress of rigid pipe systems. The bellows are designed and manufactured according to EJMA standards.

Ayvaz seismic isolation compensators are formed by combining classical gimbal compensators and external pressure axial compensators. Thus, it absorbs the bigger lateral and axial movements than classic expansion joints.

The expansion joint has lateral movement capability in all directions thanks to the gimbals placed at both ends. The external pressure bellow system absorbs very high axial movements. These bellows systems prevent the risk of buckling due to pressure load.

Material Products:

Stainless steel in accordance with DIN17440; The fittings can be produced in stainless steel or carbon steel.

Design:

Bellow: EJMA 10th Edition

General Expansion Joint Design: EN 14917

Connection:

Rotary flange, Fixed flange, Welding neck, Grooved, Thread

Nominal Diameter:

DN25 (1") – DN5000 (200")

Pressure Values:

Seismic Isolation Compensator is produced in standard 175PSI / 250PSI pressure classes and special designs can be made for higher pressure classes. The operating pressure depends on the nominal diameter and the operating temperature.

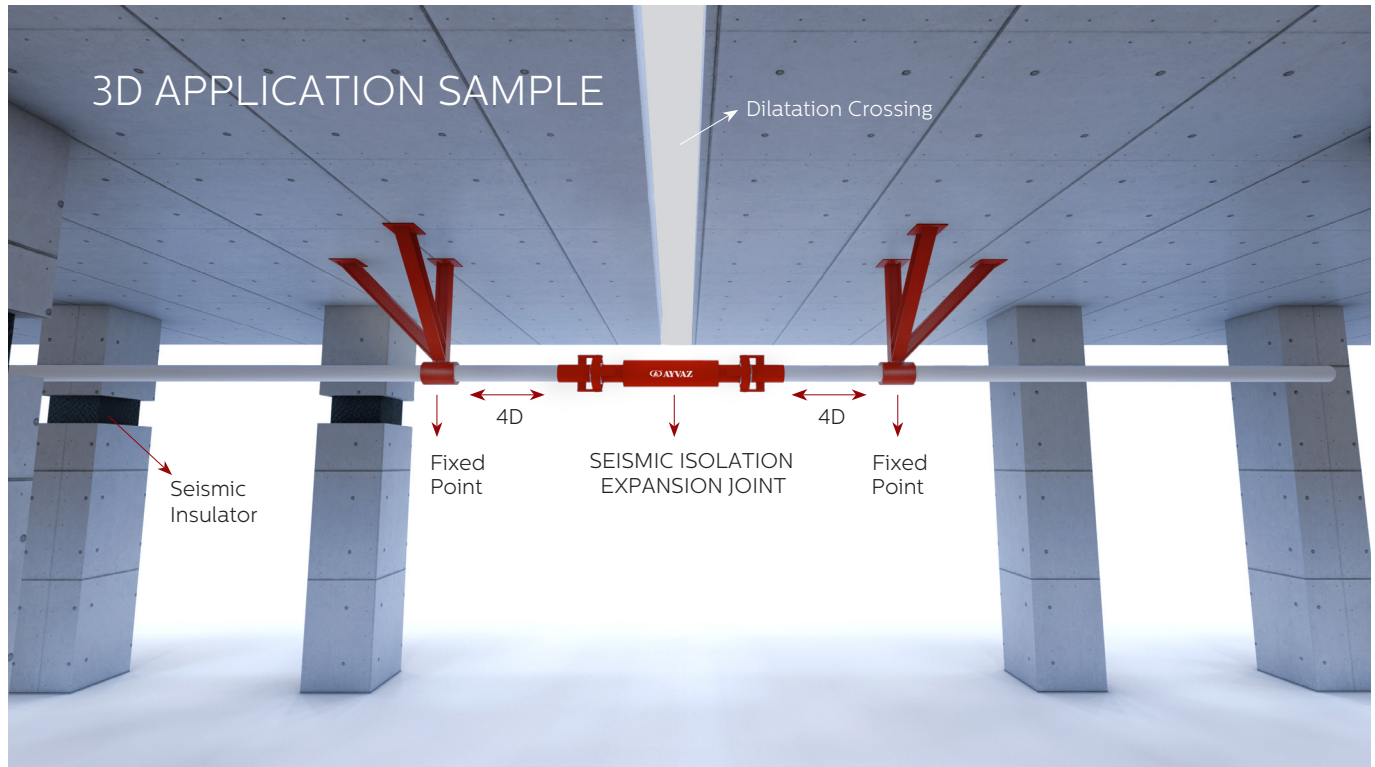
Temperature Range:

From -196 °C to 600 °C depending on material selection.

Application:

Seismic isolation expansion joints can be used in fire, heating-cooling, sanitary installation, steam installation, medical gas etc., if the building has seismic (earthquake) insulator.

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D: Pipe Diameter (cm)

Fixed Point Load Calculation:

Due to the axial movement capacity of the insulation type seismic expansion joint, the fixed points must be made to withstand the forces caused by the system pressure and the amount of movement.

Contact our sales team for detailed information.



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