

Metallic Expansion Joint

5. Gimbal Expansion Joint (PEM-GS/GD)

The gimbal expansion joint is basically the same as the hinged expansion joint, except that instead of being limited to deflection in only one plane, the gimbal expansion joint can accept bending or angulation in any plane. This expansion joint contains two sets of hinge pins or pivots, the axis of each set perpendicular to the other. Each set of pins is connected to each other with a central gimbal ring or band. This device provides the same type of restraint and resistance to axial forces, such as the pressure thrust, and to shear forces as the hinged expansion joint.

