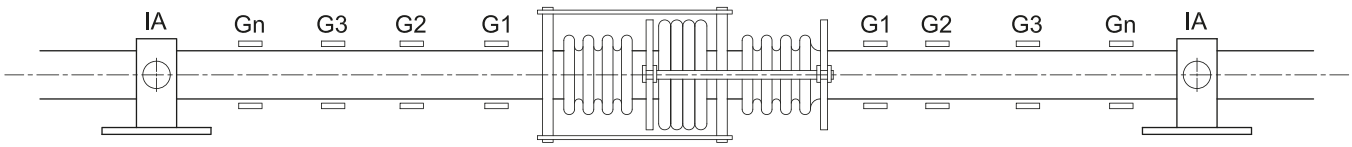
Pressure balanced expansion joints are used to absorb axial and lateral motions and eliminate the pressure thrust resulting from the bellows. An additional bellows is placed in the main body of the expansion joint and it is subjected to line pressure to produce a force equal to and opposite to the main bellows. Using the limit rods used, the pressure thrust to be formed is neutralized within the expansion joint itself. They are particularly used when the fixed-point application is not possible. They are manufactured in two different types as In-Line and Elbow.

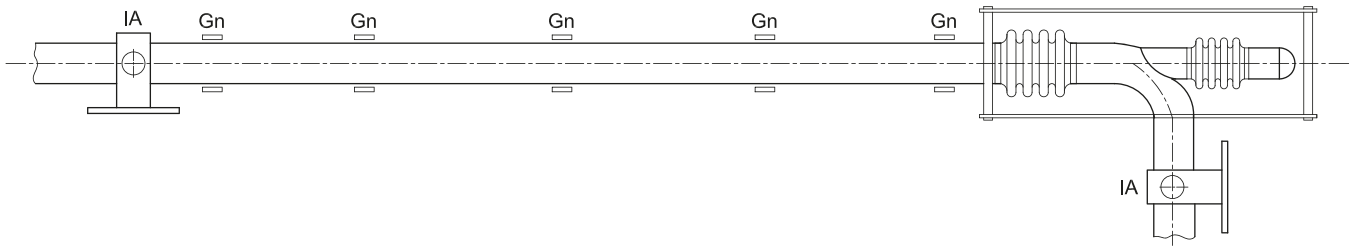
1- In-Line Pressure Balanced Expansion Joints

In straight pipelines, In-Line type pressure balanced axial expansion joints are placed between two intermediatebearings. These expansion joints can absorb axial movement without applying pressure load to the bearings.



2- Elbow Type Pressure Balanced Expansion Joints

If there is a deflection on a pipeline, the pressure balanced axial expansion joints can be used to absorb motion without loading pressure thrust to the intermediate bearings or end fittings.



Material / Specifications	
Bellows	1.4301 / 1.4541 / 1.4401 / Titanium / Incoloy 800H / Incoloy 625 / Incoloy 825 / Inconel vb.
Inside / Outside Pipe	1.0038 (S235JR) / Stainless Steel
Connection	1.0038 (S235JR) / Stainless Steel

**Please contact our sales team for your customized demands.