

E. PRESSURE BALANCED TYPE EXPANSION JOINT

Generally, the fix point is required to use the bellow type expansion joint for the purpose of withstanding against thrust force but it become sometimes difficult to install fix point in case of a relatively large diameter and high pressure.

The MEGAFLEXON various type of pressure balanced expansion joint, L, S, T-type, can be designed on the above condition on pipe-work and the installation cost of fix point could be saved. The major advantage of pressure balanced design is its ability to absorb externally imposed axial movement without imposing pressure loading on the system. But, the force resulting from the bellows spring rate is not eliminated.

Since the force to move the bellow are generally of a low order of magnitude, these are usually not objectionable, except in case involving extremely light equipment with close clearance moving parts which might be affected by small force.

The pressure balanced expansion joint is used to relieve loads on equipment such as pumps, compressors and turbines.

The pressure balanced expansion joint will be negligible when compared to the cost of additional equipment, piping and building space which would be necessary for safe functioning of the equipment without the expansion joint.

Service pressure :full vacuum-20kgf/cm²

- 1)L-style(Bent pipe balanced)
- 2)S-style(Straight pipe balanced)
- 3)T-style(Straight pipe balanced)

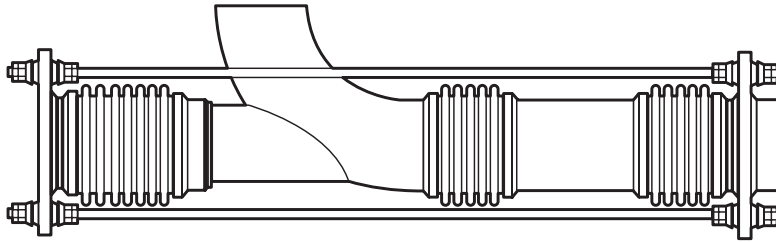
F. BURIED TYPE METALLIC EXPANSION JOINT

This type of expansion joint is specially designed to protect the underground pipe-work by absorbing the unbalanced ground settlement and an undesired fluctuation from earthquake. Especially, the soil pressure is considered on designing the external cover, which has special structure to avoid soil penetration.

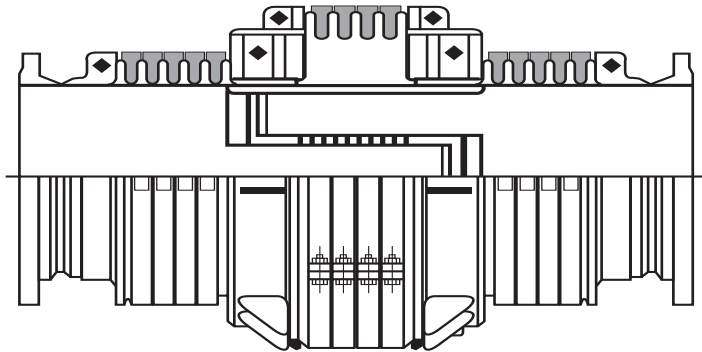
Service pressure : up to 20kgf/cm²

Pressure Balanced Type Expansion Joint

Bent pipe balanced(L-Style)



Straight pipe balanced(S-Style)



Straight pipe balanced(T-Style)

