

ENGINEERING SPECIFICATIONS

EXTERNALLY PRESSURIZED EXPANSION JOINTS

Externally pressurized expansion joints can be utilized where expansion joints are indicated within the specifications, drawings and equipment schedules to compensate for thermal pipeline growth. They are used when growth cannot be adequately accommodated for changes of direction, bends, pipe loops and when the amount of axial growth that must be accommodated between anchors is greater than 3 inches.

Externally pressurized expansion joints are rated for 150 PSIG or 300 PSIG as required by the piping system. Joints are constructed so pressure is only applied to the exterior of corrugations.

Bellows are constructed using Series 300 stainless steel formed bellows.

Integral internal guide will be present to eliminate bellows squirm, insure proper internal alignment and reduce turbulence. The external housing, pipe and end fittings are carbon steel and are designed for full line pressure. Expansion joints have welded, 150 lb. or 300 lb. ANSI steel flanges, grooved or plain ends suitable for piping in which it is installed. Drain port and plug can be provided upon request.

Single expansion joints will provide 4 inches or 8 inches of axial travel, as required, and dual expansion joints will provide 8 inches or 16 inches of axial travel, as required. Dual expansion joints can include a center anchor base. Joints will provide a minimum of 150% of expected growth between anchors.

Carefully align joint and make proper allowance for temperature of pipe at time of installation. Pipe guides should be placed per EJMA standards.

Externally pressurized expansion joints will be TCH Series TFEP.