

limit and control rods rubber expansion joints

Control rods can be fitted to flexible rubber expansion joints to enhance its pressure capability in unanchored systems, and to control the movement of the joint within planned and designated capabilities.

The control rods are placed across an expansion joint in line from flange to flange. In metal expansion joint terminology these would be called 'tie rods'

pressure

Flexible rubber expansion joints should be installed between two fixed anchor points in a piping system - see 'installation instructions' data sheet.

Anchored Systems - control rods are not required to be fitted to the joint piping systems that are correctly anchored and where the joint will be operating within an acceptable movement range for that joint - see the expansion joint specification tables in the data sheets

Unanchored systems - control rods are recommended for all applications where the piping system is not correctly anchored. In particular, control rods must be used when the pressure exceeds :

nominal bore	Style FSF	Style FTF
25-100mm	1240 kPa	930 kPa
125-250	930	930
300-350	640	640
400-600	310	310
650-750	240	240

See Data Sheet RJ 021 for control rod information for style WA and HS Joints

movement control

Limit or Control Rods can also be used to control the movement by allowing the expansion joint to extend only to a predetermined extension setting, or to move axially only within a specific range.

This is achieved by placement of threaded nuts on the control rods to the limits of movement required. This setting must be no greater than the maximum allowable extension movement of the rubber joint as per the expansion joint specification tables in the data sheets.

control rod system

The control rod system consists of control rod plates drilled to the flange drilling, control rods and nuts. The control rod plates are bolted into position during the installation of the rubber joint.

A control rod consists of two plates and one rod.

