

## Expansion Joints SUGGESTED SPECIFICATIONS

Piping systems subject to thermal expansion, misalignment or vibration shall be protected from stress induced damage and sound/ vibration transmission by being isolated by means of an elastomer type Expansion Joint.

The Expansion Joint shall be designed to absorb movements as specified by the customer or project engineer.

The Expansion Joint shall be single or multiple arch spool type and shall have flat faced hard elastomer flange with carbon steel or stainless steel backing rings. The Flange drilling shall conform to the desired pattern as indicated by the customer.

The Inner Tube of the Expansion Joint shall be a minimum thickness of 1/4" and shall be comprised of an elastomer suitable for service conditions.

The Expansion Joints shall be reinforced with a combination of high tensile galvanized steel wire and polyester cords, the burst pressure shall be a minimum of four times that of the design working pressure.

The outer layer ( cover ) of the expansion joint shall be a minimum 1/16" thick neoprene rubber to resist external abrasion and exposure to ultra violet rays as well as the effects of ozone.

When the Expansion Joint is located adjacent to a pump or anchoring and guiding is not possible the Expansion Joints shall be protected from excessive elongation by means of control rods attached to the pipe flanges. In addition the Expansion Joints can be protected from excessive compression by incorporating compression stop sleeves on the control rods.

Each Expansion Joint shall be branded with the model number, style, design pressure, temperature rating, type of elastomer and serial number on the cover of the joint in plain view.

The serial number shall allow traceability in accordance with the manufacturer's Quality Assurance program.

The Expansion Joint manufacturer will maintain a Registered Quality Assurance Program which meets the requirements of ISO 9001.

The Expansion Joint shall be manufactured by Elasto-Valve Rubber Product Inc. located in Sudbury, Ontario, Canada.