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# Neoprene Flexible Connectors

**N**eoprene flexible connectors serves many functions in modern piping systems. Here are the three primary functions, to accept all directional movements, minimizing pipe stresses and offering untold cost benefits as compared with the additional material and space required for expansion loops. Dampens noise and vibration caused by rotating equipment (e.g., centrifugal pumps) by breaking up its disturbing frequency and absorbing its damaging forces. Resists shock and fatigue by the flexibility inherent in its elastomeric construction, accepting the damaging forces generated by water hammer, pressure surges.

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## "MASON" SAFEFLEX

Molded Type Single/ Twin Sphere Neoprene Flexible Connectors

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SAFEFLEX Connectors are expansion joints, flexible connectors and vibration isolators all in ones. As expansion joints they compensate for pipe thermal contraction and expansion, eliminating the need for costly expansion loops. They protect your system against harmful "start-up" and surge forces. The flexibility of the EPDM carcass makes them ideal flexible connectors for handling minor misalignment and offset problems. SAFEFLEX connectors function as noise and vibration isolators resiliently break metal-to-metal pipe wall "flanking paths" guarding against piping damage and noisy installations.

### Features

- ♦ Single sphere SAFEFLEX SFEJ for minimum space requirements and economy
- ♦ Twin-sphere SAFEFLEX SFDEJ for maximum motion and acoustical performance control rods and control cables
- ♦ Kelvar<sup>®</sup> tire cord reinforcement with Peroxide cured EPDM cover and tube that withstand higher working pressure &
- ♦ Two pieces split baked enamel ductile iron floating flanges facilities one piece solid steel ring construction that eliminates pull out problem

### Applications

- ♦ Vibration reduction at pipelines and ductworks that connect to water pumps or rotating equipment that generate vibration
- ♦ Expansion joint for thermal contraction & expansion
- ♦ Movement joint for pipeline across building joints



"SAFEFLEX" Molded Type Neoprene Flexible Connector

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## "MERCER" Multi-arch Joint

Hand-built Rubber Expansion Joints

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Hand-built joints tailor made to order from one to four arches or more in non-standard lengths and diameters (upto 145-inches diameter) as required. There are choice of eight types of elastomer for the cover and tube when used in different working conditions, i.e. chemical, UV, aging resistance. Also, we can provide optional filled arch construction for severe sludge and slurry applications.

### Features

- ◆ Multiple arches (6 or more) construction to offer high degree of offset at joint
- ◆ Hand built to almost all sizes, upto 145 inches diameter
- ◆ Available in different choice of construction materials that offers superior chemical, aging and temperature resistance from  $-1^{\circ}$  to  $+121^{\circ}\text{C}$  ( $-30^{\circ}$  to  $+250^{\circ}\text{F}$ ) operating temperatures

### Applications

- ◆ Extreme large pipe sizes and severe working conditions application, e.g. water treatment plants, pumping stations, chemical plants and HVAC systems etc

