

STANDARD SPOOL "ARCH" TYPE

A full face integral flange design is available in both Single Arch and Multiple Arch Types. These basic types can be manufactured to meet the requirements of MIL-E-15330D, Class A-Type 1-Series C. Both types are available in several construction design series, based on the application pressure requirements.

- 1. Single Arch Type.** Constructed of fabric and rubber and metal reinforced. The full face flanges are integral with the body of the joint and drilled to conform to the bolt pattern of the companion metal flanges of the pipeline. This type of rubber faced flange is of sufficient thickness to form a tight seal against the metal flanges without the use of gaskets. The shortest face-to-face dimensions are available with this type of construction. (See Diagram A1, page 7.)
- 2. Multiple Arch Type.** Joints with two or more arches may be manufactured to accommodate movements greater than those of which a Single Arch Type joint is capable. Multiple arch joints of most manufacturers are composites of standard sized arches and are capable of movements of a single arch multiplied by the number of arches. The minimum length of the joint is dependent upon the number of arches. In order to maintain lateral stability and prevent sagging when the joint is installed in a horizontal position, a maximum number of four (4) arches is recommended. (See Diagram A2, page 7.)
- 3. Lightweight Type.** Both the Single Arch and Multiple Arch Types are available in a lightweight series. Dimensionally the same as the standard product, except for reduced body thickness, this series is designed for very low pressure and vacuum applications.