

Abstract

Valve and Coupling

A valve and coupling for joining pipe elements has a valve body captured in a central space defined by a plurality of coupling segments attached to one another end to end. The inner surface of the valve body defines a bore. A liner on the inner surface surrounds the bore and forms a seal with a valve closing member. Circumferentially arranged projections on the segments engage and center the valve body within the central space. The liner has lobes that extend axially in opposite directions. The lobes are compressed between the segments and the pipe elements to form a fluid tight seal when connection members are tightened to draw the segments toward the central space and into engagement with the pipe elements.

FIGURE 1