

ABSTRACT OF THE DISCLOSURE

A flapper valve assembly (110) having a biasing flapper closure assembly (102) is disclosed. The flapper valve assembly (110) comprises tubular valve housing (94) having a hinge (100) and a longitudinal hole (104). A valve seat (92) is mounted within the housing (94) having a flow passage therethrough. A flapper closure plate (86) is rotatably disposed within the housing (94) about the hinge (100). The flapper closure plate (86) is rotatable between a valve open position and a valve closed position. The flapper closure plate (86) has a notch (132) on the side opposite its sealing surface (114) that is spaced a distance (136) from the hinge (100). The flapper closure assembly (102) includes a spring (116) mounted within the longitudinal hole (104) and a connection member (122) operably coupled to the spring (116) and engaging the notch (132) such that when the flapper closure plate (86) is moved toward the open position, the spring (116) is compressed causing the connection member (122) to urge the flapper closure plate (86) toward the closed position.

This Sheet Has Been Replaced

