GATE VALVE

ABSTRACT

A gate valve system for controlling fluid flow having a valve body with a bore through which fluid can flow. The system includes a valve body having a bore to allow fluid to pass through the valve body and further having a cavity defined by substantially parallel innerside walls of the valve body, a gate wherein at least one end of the gate is defined by a radius perimeter. The system also has a bonnet that is removably coupled to a face of the valve body, wherein a portion of an innerside of the bonnet includes a curved surface adapted to mate with the at least one end of the gate defined by the radius perimeter, and an actuation mechanism operationally positioned and removably connected to the gate by way of a thru-hole in the bonnet.

Figure 1