

FLEXIBLE BACKSEAT SEAL FOR GATE VALVE

Abstract:

A gate valve has a body having a cavity and a stem passage extending from the cavity. A stem extends through the stem passage into the cavity for moving a gate in response to rotation of the stem. A conical backseat seal surface is formed at a
5 junction of the stem passage with the cavity. A backseat seal has a leg extending outward from the stem and away from the stem passage. The leg has an outer surface with a sealing band that is spaced from the backseat seal surface during normal operation of the valve. The leg is flexible, causing the sealing band to deflect into
10 a backseat sealing position.

Figure : 1