

TITLE OF INVENTION: METAL TO METAL SINGLE BALL SEAT SYSTEM

ABSTRACT

A ball valve is disclosed that includes a valve housing, a first seat surface having a first inner diameter and a first outer diameter, and a second seat surface having a second inner diameter and a second outer diameter. The second inner diameter is larger than the first outer diameter, and may be separated by a channel. A resilient seat surface may be disposed within the channel. The valve further includes a ball that is rotatably movable within the housing and that contacts at least one of the first seat surface and the second seat surface to form a seal.

FIG: 2A