LOW FRICTION COATINGS FOR DYNAMICALLY ENGAGING LOAD BEARING SURFACES

ABSTRACT

A gate valve has a body, the body having a cavity and a flow passage intersecting the cavity. A seat ring is mounted to the body at the intersection of the flow passage and the cavity, the seat ring having an engaging face. A gate in the cavity has an engaging face that slidingly engages the face of the seat ring while being moved between open and closed positions. A friction-resistant coating is on at least one of the faces.

Fig. 1