

ABSTRACT

TITLE OF INVENTION: DUSTPROOF GATE VALVE

A dustproof gate valve having a first plate and a second plate; two swing arms having ends respectively disposed on opposite sides of a movable ring, with a sealing ring disposed on the movable ring and a plurality of elastic members disposed between the movable ring and the second plate; a sliding valve plate having a plate body and two roller assemblies, the roller assemblies each including an arm roller such that the arm rollers roll against the respective swing arms; and an actuator. Each of the two swing arms has a pressing edge, a closing positioning groove and an opening positioning groove recessed from the pressing edge such that the arm rollers roll against or into the grooves. When the arm rollers roll into the opening positioning groove, the movable ring is pressed against the first plate such that the sealing ring engages the first plate to provide sealing.

[Fig. 8]