

Abstract

Disclosed is a reduced-pressure type backflow preventer, comprising a valve body (1), two check valves (2) of the same structure, and a drain valve (3), wherein a cavity is formed inside the valve body, and a valve wall of the valve body is provided with a water inlet, a water outlet, and a drain opening; the two check valves are both fixedly mounted inside the valve body via a supporting member (4), and are positioned at the water inlet and the water outlet, respectively; the drain valve is mounted outside the valve body, and is positioned at the drain opening; the check valve comprises a valve seat (201), a valve clack (202), a rocking bar (203), and a twin torsional spring (204); one side of the valve clack is hinged to an upper end of the valve seat, and the other side is provided with a roller (205); the rocking bar is connected to a lower end of the valve seat via a pin (206); the roller abuts against the rocking bar and slides on the rocking bar; the twin torsional spring is sheathed over the pin; and a spring force of the twin torsional spring acts on the rocking bar to maintain the valve clack in a normally closed state, and an external force is used to cause the roller on the valve clack to roll on the rocking bar so as to open the valve clack. The preventer provides a better flow preventing effect by virtue of the structure of the twin torsional spring and the rocking bar of the check valve.

Fig 3 accompanies Abstract