

ABSTRACT

DIAPHRAGM VALVE

[Abstract] To provide a control valve with excellent durability performance without being restricted in terms of applications, such as usages under high pressures or high temperatures, as well as reduced generation of particles.

A valve body (2) forming an inflow passage (22) and an outflow passage (23) of a fluid; a valve seat (25) formed at a peripheral edge of the inflow passage in the valve body (2); a diaphragm (30) configured to connect and shut off the inflow passage and the outflow passage by coming into and out of contact with the valve seat; a diaphragm holder (31) configured to press a central portion of the diaphragm; and

an actuator (4) configured to move the diaphragm holder are provided, includes a regulation mechanism configured to adjust a closing pressure generated between the valve seat and the diaphragm to a predetermined pressure.

FIG. 1