CLAIMS

1. A diaphragm valve comprising:

a body including a fluid inflow channel, a fluid outflow channel, and a depression opening upward;

a seat disposed demountably on a circumferential edge of the fluid inflow channel of the body;

a seat holder demountably disposed on the body to hold the seat; and

a diaphragm that is pressed against and separated from the seat to open and close the fluid channel,

the seat holder includes a central through hole and outer through holes surrounding the central through hole,

in an open state in which the diaphragm is separated from the seat, ~~in which~~ a fluid that has flown into the fluid inflow channel enters a space created between the diaphragm and the seat, and then flows into the fluid outflow channel via the outer through holes ~~formed in the seat holder~~,

the diaphragm valve characterized in that, on a bottom surface of the depression of the body, a seat receiving surface that receives the seat and a seat-holder receiving surface that receives the seat holder are formed, and that in the bottom surface of the depression of the body, an annular groove that faces the outer through holes of the seat holder is formed under the outer through holes and the fluid that has passed the outer through holes flows into the fluid outflow channel after flowing into the annular groove body.

2. The diaphragm valve according to claim 1, wherein the seat receiving surface is flush with the seat-holder receiving surface.

3. The diaphragm valve according to claim 1 or 2, wherein, among the seat receiving surface, the seat-holder receiving surface, and a bottom surface of the groove, the bottom surface of the groove is formed at a lowermost level.