in the female screw part (14b) of the through hole (14), and the body (15) of the one-touch joint (13) is inserted in the large-diameter part (14c) of the through hole (14) so that the release bush (16) is exposed. An O ring (35) is provided between an outer periphery of the body (15) of the one-touch joint (13) and an inner periphery of the large-diameter part (14c) of the through hole (14).

[0028]

The upper end part of the valve rod (8) (the shaft (9a) formed integrally with the top face of the upper piston (9)) is movably inserted in the small-diameter part (14a) of the through hole (14). In the valve rod (8), an axial-direction passage (41) extending downward from the upper end of the valve rod (8), a radial-direction passage (42) extending from an intermediate part of the axial-direction passage (41) to the upper-side operation air introduction room (26), and a radial-direction passage (43) extending from the lower end of the axial-direction passage (41) to the lower-side operation air introduction room (27) are formed. The upper end opening of the axial-direction passage (41) of the valve rod (8) faces the lower end opening of the one-touch joint (13). With the configuration, the operation air flows in the operation air introduction rooms (26) and (27) via the one-touch joint (13).

[0029]

In a state where the operation air is not introduced in the

operation air introduction rooms (26) and (27) , the valve rod (8) is in a closed position (lower position) by the energization force of the compression coil spring (11) . When

CLAIMS

1. An air-operated valve comprising:

a body provided with a fluid passage;

a casing provided above the body;

a valve member which opens/closes the fluid passage;

a valve rod which moves upward/downward to move the valve member in an open/close direction;

a piston provided for the valve rod; and

piston driving means which drives the piston by operation air,

wherein the casing is made by an upper casing and a lower casing which are screwed in each other, and the piston driving means has a one-touch joint attached to a top part of the upper casing~~.~~,

~~2. The air-operated valve according to claim 1,~~ wherein a through hole is provided in a center part of a top wall of the upper casing,

the through hole is made by a small-diameter part on a lower end side, a large-diameter part on an upper end side, and a female screw part having an intermediate diameter provided between the small-diameter part and the large-diameter part,

the one-touch joint is inserted in the large-diameter part of the through hole so that a male screw part provided in a lower end part thereof is screwed in the female screw part

of the through hole and a release bush provided at an upper end part thereof is exposed,

and an upper end part of the valve rod is movably inserted in the small-diameter part of the through hole~~.~~,

wherein an O ring is provided between an outer periphery of a body of the one-touch joint and an inner periphery of the large-diameter portion of the through hole.