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~~upper and lower pistons provided for the valve rod;

an elastic member for energizing the valve rod downward ;

and

piston driving means which drives the pistons by operation air, wherein:

the lower piston is formed integrally with the valve rod;

the upper piston is fixed by being screwed in the upper end of the valve rod;

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;~~,~~

~~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 has a body incorporating a collect chuck and a release bush which is provided above the body and releases the collect chuck, and the body has a hollow part in which an operation air introduction tube is inserted;

the body of 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~~ the body of the one-touch joint and ~~an inner periphery of~~ the large-diameter portion of the through hole; and

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