CLAIMS

1. A diaphragm valve comprising:

a body having a fluid channel;

a stem vertically movable in relation to the body;

a diaphragm which opens and closes the fluid channel of the body associated with a vertical movement of the stem;

a bonnet which is provided above the body and which guides the stem so as to enable the stem to move vertically;

a diaphragm presser which is attached at a lower end portion of the stem and which presses the diaphragm downward; and

a handle which is rotated to move the stem vertically to an open position and a close position;

wherein a female screw member is screwed to an upper end portion of a male screw portion provided on the stem, and when the stem reaches an appropriate close position, the female screw member comes into contact with an upper end of the bonnet thereby preventing the stem from moving downward further; and

wherein the female screw member consists of: a first nut which is fastened with a relatively low torque; and a second nut which is placed on the first nut and is fastened with a relatively high torque.

2. The diaphragm valve according to claim 1, wherein an overlapping surface of one of the nuts is provided with an annular protrusion having a tapered inner peripheral surface where the diameter becomes greater toward an edge thereof, and an overlapping surface of the other nut is provided with an annular

recess which is fitted to the protrusion.

3. A method of assembling the diaphragm valve according to claim 1 or 2, comprising:

removing the handle from the stem in a state where the stem is positioned in a predetermined position;

loosening the first nut and the second nut;

rotating the stem to move the stem to the close position;

rotating the first nut to bring the first nut into contact with the bonnet,

fastening the second nut; and

attaching the handle to an upper end portion of the stem.