## CLAIMS

What is claimed is:

1. A valve mechanism comprising:

a casing including an inlet and an outlet of a fluid and also including a channel connecting the inlet and the outlet to each other;

a valve port disposed in the channel; and

a valve body that is disposed upstream of the valve port and moves forward and backward relative to the valve port to adjust an opening degree of an upstream opening of the valve port, wherein

the valve port includes

a narrowing portion having an opening diameter smaller than an opening diameter of the upstream opening,

a tapered portion whose opening diameter gradually decreases from the upstream opening to the narrowing portion, and

an enlarging portion continuous to a downstream side of the narrowing portion and having an opening diameter larger than the opening diameter of the narrowing portion,

when the upstream opening is at a predetermined opening degree, an area of the valve port through which the fluid passes is at minimum at the narrowing portion, and

the valve body includes a tapered portion that enters the valve port and comes into surface contact with the tapered portion of the valve port to close the upstream opening and, while being in contact with the tapered portion of the valve port, projects downstream from the narrowing portion.

2. The valve mechanism according to claim 1, wherein

the valve body includes a cylindrical columnar portion that has an outer diameter equal to an outer diameter of a downstream end of the tapered portion of the valve body and extends downstream from the downstream end.

3. The valve mechanism according to claim 1 or 2, wherein

the enlarging portion of the valve port has a tapered shape whose opening diameter gradually increases from the narrowing portion.