

[ABSTRACT]

PRESSURE CONTROL DEVICE

An object of the present invention is to provide a pressure control device which is capable of maintaining a constant pressure within a chamber even if the volume of the chamber with respect to controlled flow of a gas is large, or a pipe between a flow control valve and the chamber is long. A pressure control device 1 which maintains the pressure within a chamber 3 at a set pressure, includes: a frequency characteristic correction circuit 20 which corrects a pressure signal, which represents the pressure within the chamber 3 which is detected by a pressure sensor 4, such that the pressure signal approaches a set pressure signal which represents the set pressure; a comparison circuit 21 which compares the corrected pressure signal with the set pressure signal; and a valve drive circuit 22 which controls the opening and closing of a flow control valve 24 on the basis of the result of the comparison from the comparison means 21. The frequency characteristic correction circuit 20 is a filter circuit, the frequency characteristic whereof having a peak at a prescribed frequency, and corrects the pressure signal so as to raise a prescribed frequency component of the pressure signal.

FIG. 3