

**Flow Controller, Flow Measuring Device Testing Method, Flow Controller Testing System, and
Semiconductor Manufacturing Apparatus**

ABSTRACT

A testing method for testing a flow controller with high accuracy by shortening as much as
5 possible the time required for the test including the wait time. A testing-subject flow controller (4) and
a testing-standard flow controller (5) are arranged in that order in series from the upstream side in a flow
channel through which a fluid whose flow is to be controlled flows. In a flow-uncontrolled state in
which the valve of the testing-subject flow controller (4) is practically in the full-open state, and with the
fluid flow controlled to a predetermined flow rate by the testing-standard flow controller (5), whether the
10 actual flow-rate measurement according to the testing-subject flow controller (4) falls within a
predetermined range of actual flow-rate measurements according to the testing-standard flow controller
(5) is determined.

Figure 2