

Highly reliable —
resistance to deposits and corrosion

Higher quality by stabilizing production processes



Product
name

Process sensor

Sapphire Capacitance Diaphragm Gauge

Model No.

SPG_ _

Process and
equipment name

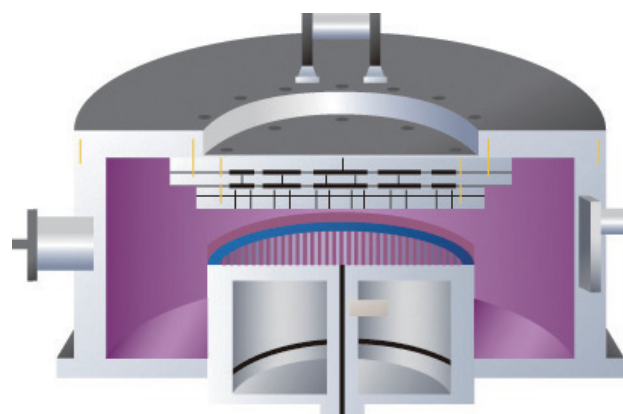
Vacuum equipment

Current Situation

- Daily adjustment due to zero shift of vacuum gauges.
- Adjustment of vacuum as film is deposited.
- Cleaning of chamber with corrosive gas.
- High-accuracy measurement of degree of vacuum.

Current Issues

- Frequent zero adjustment is troublesome.
- Accuracy drift due to deposits on pressure sensors.
- Damaged pressure sensors due to corrosive gas.
- Uncertainty about traceability at outside agencies.



Solution 1

With a sapphire pressure-sensing diaphragm, zero shift in repeated processes is suppressed

Sapphire pressure-sensing diaphragms are less affected by mechanical stress than metal ones.

Solution 2

Azbil's proprietary baffle structure reduces deposits on the pressure sensor as film forms

The baffle and pressure sensor were specifically designed to reduce deposits on the pressure and avoid accuracy drift.

Solution 3

With highly corrosion-resistant sapphire, effects from corrosive gas are “under control”

Sapphire sensing elements are highly resistant to the cleaning gas used to remove deposits.

Solution 4

Azbil provides JCSS calibration services

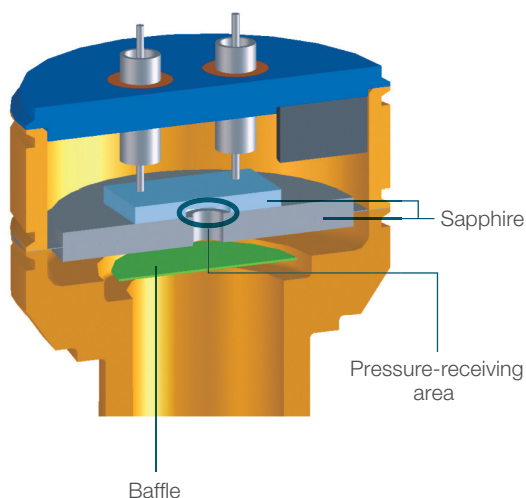
Azbil Corporation's Fujisawa Technology Center provides JCSS(Japan Calibration Service System) certification for pressure (vacuum) calibration.

Solution 1

Solution 2

Solution 3

Sensor design



Solution 4

Calibration apparatus in Fujisawa



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