

PRODUCT TECHNICAL BRIEF

KYKY APC Automatic Pressure-Control Gate Valve

KYKY APC Automatic Pressure-Control Gate Valve - LeakLab solutions for leak testing, vacuum systems and test equipment.

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Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Standard flanges	CF or ISO-F
Application pressure range	1×10^{-5} to 1×10^{-6} Pa; the current web page drops the minus sign, but KYKY catalog literature and the product context support 10^{-6} Pa
Valve-body leak rate	$\leq 1.3 \times 10^{-10}$ Pa·m ³ /s
Maximum opening differential	<3,000 Pa
Bakeout limit	Valve ≤ 150 °C; controller ≤ 50 °C
Position-control accuracy	$\pm 0.1\%$ full scale
Pressure-gauge input	0-10 V DC
Controller supply	24 V DC
Control functions	Self-learning pressure control and position control

Technical and Project Information

Integrated automatic pressure-control gate valve for regulating chamber pressure or isolating a vacuum line. The KYKY APC controller uses gauge feedback and a self-learning control algorithm to position the gate with $\pm 0.1\%$ full-scale accuracy.

The APC valve changes line conductance by positioning its gate between the chamber and main pump. Its controller compares a pressure-gauge signal with the requested setpoint, calculates the required gate position and fine-tunes the opening for stable process pressure. Position-control mode is also available.

Nominal bore, exact model suffix, control interfaces and included gauge are configuration-dependent and must be confirmed. Do not infer pressure-control accuracy directly from position accuracy without a defined chamber, gas flow, gauge and pump.

Validate fail-safe behavior, pressure-sensor scaling, allowable gases, seal material, actuator air and software interface before process integration.

- Vacuum Components Gas-Filling Stands for Testing KYKY Vacuum Gate Valves Vacuum Bellows Vacuum Test Chambers Vacuum Valves
- Gas-Filling Stands for Testing
- KYKY Vacuum Gate Valves
- Vacuum Test Chambers
- Helium Reference Leaks
- Scanning Electron Microscopes
- Leak-Detector Accessories

WORLDWIDE PROJECT CONTACT

Send the test object or system, operating conditions, target sensitivity or pressure range, applicable standard, destination country, quantity and schedule. LeakLab will review the project scope.

mail@leaklab.org

Regarding: KYKY APC Automatic Pressure-Control Gate Valve

Specifications, standards, verification scope, availability and commercial terms must be confirmed for the exact configuration and destination jurisdiction before order or project acceptance.