

Top-Guided Single-Seated Control Valves

Control valves for safety and the environment



- 1 Compliant with safety standards worldwide
- 2 Safety Integrity Level (SIL) certification
- 3 Environment-friendly gland packing minimizes leakage
- 4 Monitoring of IoT-enabled control valves on remote devices

Features

Worldwide safety standards compliance

These control valves are compliant with safety standards around the world. Top-guided single-seated control valves (model AGVB___/AGVM___) help to safeguard both valve users and society.

Japan: High Pressure Gas Safety Act

China: Pressure Piping Components Manufacture Appraisal Regulation Europe: CE marking (Pressure Equipment Directive)

SIL certification

Sold for more than a quarter-century, these control valves have been tried, tested, and proven by many users and are certified by U.S.-based exida as achieving SIL 3* based on the IEC 61508 international standard for functional safety. Thanks to the low failure rate of these valves, you can rest easy when using them in important processes.

[SIL3 : Safety Integrity Level 3]

Environment-friendly gland packing

Environment-friendly low-emission gland packing with high sealing performance was adopted for these control valves in order to control and minimize fluid leakage.

The packing is effective with a variety of fluids, including many that are environmentally harmful, irritative, or malodorous. It prevents air pollution resulting from economic activities, protecting the health of plant operators and the surrounding neighborhood.

Fluid	Effect of packing
VOCs (volatile organic compounds)	Prevents air pollution
Refrigerants, fuel gases	Reduces greenhouse gas emissions
H2, O2 (externally purchased fluids)	Cuts production losses
Caustic soda, heating media, ammonia	Improves labor environment
Steam, air	Saves energy

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Model AGBV___ control valve with model AVP70_ Control valve status can be monitored remotely.

IoT-enabled control valves

When used with a smart valve positioner, these control valves can be networked as IoT devices, making it possible to monitor them on remote devices.

Remote monitoring for the purpose of preventive maintenance helps improve plant productivity by facilitating continuous operation and eliminating unnecessary maintenance work.

Basic specifications

Valve model No.	Top-guided single-seated control valve Model AGVB / AGVM
Connection dia.	1/2B to 4B
Pressure rating	JIS 10K, 16K, 20K, 30K ANSI 150#, 300# ANSI 150#, 300#
Temperature	–196 °C to +400 °C
Body material	SCPH2, SCS13A, SCS14A
Trim material	SUS316, SUS316L, SUS440C SUS316CoCr-A, soft seat
Seat leakage	IEC Class IV IEC Class V (tight shutoff model: metal seat) IEC Class VI (tight shutoff model: soft seat)

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