

SG Series Stainless Steel Gate Valves



Kurt J. Lesker
Company

VACUUM MART™
DIVISION

Features

- CF Flanged (with Copper Gasket): Operate in the atmosphere to 10^{-11} torr pressure range, bakeable up to 200°C (with actuator removed)
- General purpose Electropolished Stainless Steel
- Vacuum brazed at 1,100°C to ensure reliable operation at HV and UHV pressures
- Provide high conductance within a compact design
- Shock-free operation with minimum vibration
- 100,000-cycle service before requiring maintenance
- Available in manual or pneumatic operation
- Pneumatic valves close or remain closed in the event of power loss or loss of air pressure
- All Pneumatic 1.5" flange O.D. and larger models incorporate magnetic REED switches for position indication
- Pneumatic valves feature a 120VAC solenoid operator at no extra charge (other voltages, both AC and DC, available on request)

Flange Types Available

- KF, ISO-F, ISO-K, CF, ASA, JIS

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Specifications

Material	Valve body	304 stainless steel
	Welded bellows shaft seal	AM-350
Bonnet / Gate Seals	HV	Viton® elastomer
	UHV	Copper / Viton® elastomer
Vacuum Pressure Range	HV	1x10 ⁻⁹ mbar
	Valve actuator	1x10 ⁻¹⁰ mbar
Helium Leak Rate		<2x10 ⁻⁹ mbar l/s
Differential Pressure Closed		1 bar in either direction
Maximum Δ Pressure Before Opening		≤ 30 mbar
Bakeout Temperature Without Solenoid	Elastomer Sealed Bonnet	150°C
	Metal Sealed Bonnet	Valve Open - 200°C; Valve Closed - 150°C
	Actuator	Manual - 60°C; Pneumatic - 60°C
Mechanism	Pneumatic Air Service	80 psig
	Solenoid Supplied Voltage	120V AC, 50/60 Hz
	Optional Voltages	24, 200, 240 VAC 50/60 Hz or 12,24V DC
	Position Indicator, Max	115 VAC or 28 VDC, 20 mA
Mounting Position		Any
Cycles Until Service		100,000 cycles dependent on process

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