

Standard Technical Specifications GATE VALVES

Materials

Valve body and gate	304 stainless steel
Welded bellows shaft seal	AM-350

Bonnet / gate seals

HV	Viton® elastomer
UHV	Copper / Viton® elastomer

Vacuum

Pressure Range:

- HV 1×10^{-9} mbar
- UHV 1×10^{-10} mbar

Helium leak rate $< 2 \times 10^{-9}$ mbar l/s

Differential pressure closed 1 bar in either direction

Maximum Δ pressure before opening < 30 mbar

Bakeout Temperature

Elastomer sealed bonnet without solenoid 150°C

Metal sealed bonnet

- Value open 200°C
- Value closed 150°C

Actuator

- Manual 60°C
- Pneumatic 60°C

Mechanism

Manual hand crank

Pneumatic air service 80 psig

Solenoid 4.0 watts

- supplied voltage 24V DC

- optional voltages 120, 240 VAC 50/60 Hz or 12V DC

Position indicator, max 115 VAC or 28 VDC, 20 mA

Mounting Position

any

Cycles Until Service

100,000 Cycles dependent on process

