

L-GATE VALVE / INSERT, SERIES 92.0

Chamber or pump isolation valve for surface analysis and semiconductor applications.



Valve



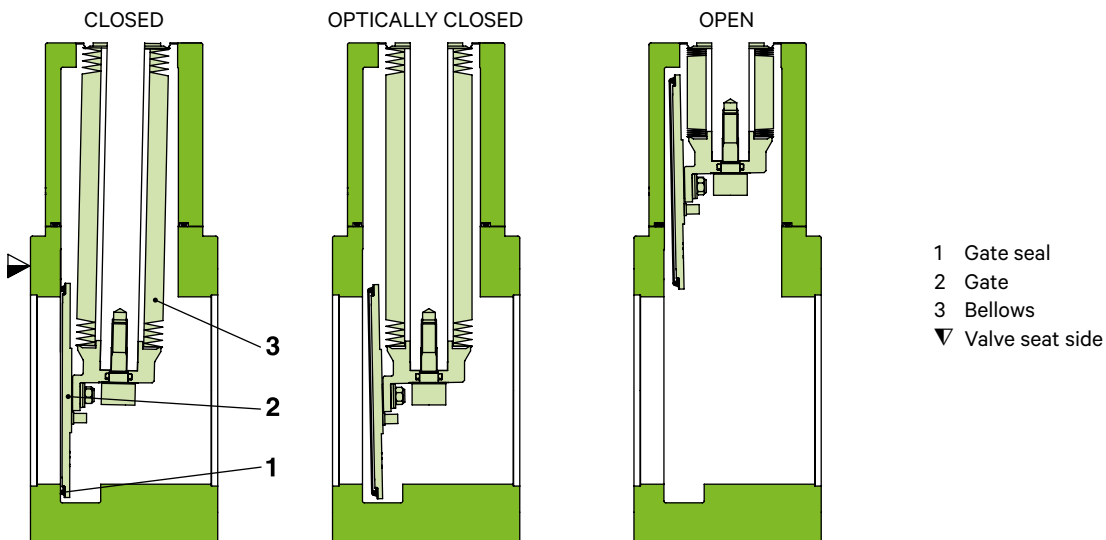
Insert

- Low particle count
- Low cost of ownership
- Easy maintenance

MAIN FEATURES

Sizes	DN 10 – 100 mm (3/8" – 4")
Actuators	pneumatic: single acting with closing spring or double acting
Body material	aluminum or stainless steel
Feedthrough	bellows
Standard flanges	ISO-KF, ISO-F, CF-F
Vacuum level	HV, UHV

FUNCTIONAL PRINCIPLE



TECHNICAL DATA

Leak rate	Valve body, valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-9}$ mbar to 1 bar (abs)
Differential pressure on the gate		≤ 1 bar
Differential pressure at opening		≤ 30 mbar ¹⁾
Cycles until first service		on request: depending on valve size
Temperature ²⁾	Valve body	≤ 120 °C
	Actuator	≤ 50 °C
	Solenoid valve	≤ 50 °C
	Position indicator	≤ 50 °C
Heating and cooling rate		≤ 30 °C h ⁻¹
Material	Aluminum valve body	EN AW-5083 (3.3547)
	Stainless steel valve body	AISI 304 (1.4301)
	Gate	AISI 304 (1.4301)
	Bellows	AISI 316L (1.4435), AISI 633 (AM 350)
Seal	Bonnet (aluminum body)	FKM (Viton®)
	Bonnet (stainless steel body)	metal
	Gate	FKM (Viton®)
Feedthrough		bellows
Mounting position		any
Solenoid valve		24 V DC, 2.5 W (others on request)
Position indicator: contact rating		on request: depending on valve size
Valve position indication		visual (mechanical)

¹⁾ ≤ 1 bar: reduces number of cycles until first service.

²⁾ Maximum values: depending on operating conditions and sealing materials.

AVAILABLE SIZES

DN 10 mm ($\frac{3}{8}$ "
 DN 40 mm ($1\frac{1}{2}$ "
 DN 63 mm ($2\frac{1}{2}$ "
 DN 100 mm (4")

ORDERING INFORMATION

On request, depending on specification

OPTIONS, CUSTOMIZED SOLUTIONS

- Customer specified flanges
- Insert version (without body, for integration into the vacuum system)
- Other sealing materials
- Other options on request

DIMENSIONS

On request