

SERIES 10.8

UHV GATE VALVE



Manual



Pneumatic



3-position pneumatic

The standard valve for UHV isolation applications in research and industry.

GENERAL INFORMATION

Sizes	DN 63–320 mm (2½"–12")	
Actuators	Manual with crank handle Pneumatic: double acting 3-position pneumatic: double acting	
Body material	Stainless steel	
Feedthrough	Bellows	
Standard flanges	ISO-F, CF-F, ASA-LP, JIS	
Sealing technology	VATLOCK	
Leak rate	Valve body	$< 5 \times 10^{-10}$ mbar ls ⁻¹
	Valve seat	$< 1 \times 10^{-9}$ mbar ls ⁻¹
Pressure range	DN 63–200	1×10^{-10} mbar to 1.6 bar (abs)
	DN 250–320	1×10^{-10} mbar to 1.2 bar (abs)
Differential pressure on the gate	DN 63–200	≤ 1.6 bar
	DN 250–320	≤ 1.2 bar
Differential pressure at opening	≤ 30 mbar	
Cycles until first service	50 000	
Heating and cooling rate	≤ 50 °C h ⁻¹	
Mounting position	Any	
Solenoid valve	24 V DC, 5.4 W (others on request)	
Position indicator: contact rating	Voltage	≤ 50 V AC / DC
	Current	≤ 1.2 A
Valve position indication	Visual (mechanical)	

- Free of lubricants
- Bonded gate seal for DN 63–200
- Easy maintenance

Options, customized solutions

Actuator

- Different solenoid options
- Lockable manual emergency operation for solenoid valve
- Double position indicator (2 switches each for the positions "open" and "closed")
- Bakeable position indicator

Valve

- Customer specific flanges with/without watercooling
- Other sealing materials
- O-ring seal in gate (Dia. 1) for DN 63, 100, 160, 200 instead of the bonded gate seal
- Special mechanism for window or foil installation for DN 63, 100, 160, 200

TEMPERATURE¹⁾

Valve body	≤ 250 °C open / ≤ 200 °C closed
Manual actuator	≤ 250 °C
Pneumatic actuator	≤ 200 °C
Solenoid valve	≤ 50 °C
Position indicator	≤ 80 °C

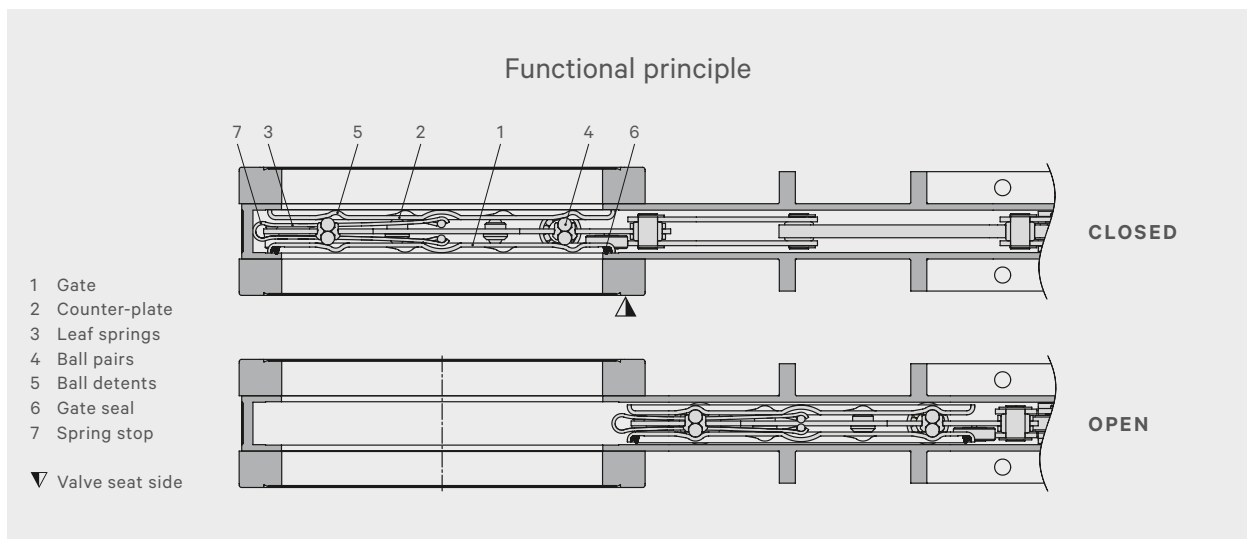
MATERIAL

Valve body	AISI 304 (1.4301)
Mechanism	DN 63-200 DN 250-320
	AISI 316L (1.4404) AISI 304 (1.4301)
Bellows	AISI 316L (1.4404, 1.4435)

SEAL

Bonnet	Metal
Gate	FKM (Viton®)

1) Maximum values: depending on operating conditions and sealing materials



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WWW.VATVALVE.COM

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