

**SERIES 59.0** 

## ALL-METAL VARIABLE LEAK VALVE



Gas inlet valve for smallest gas flows to control the process pressure.

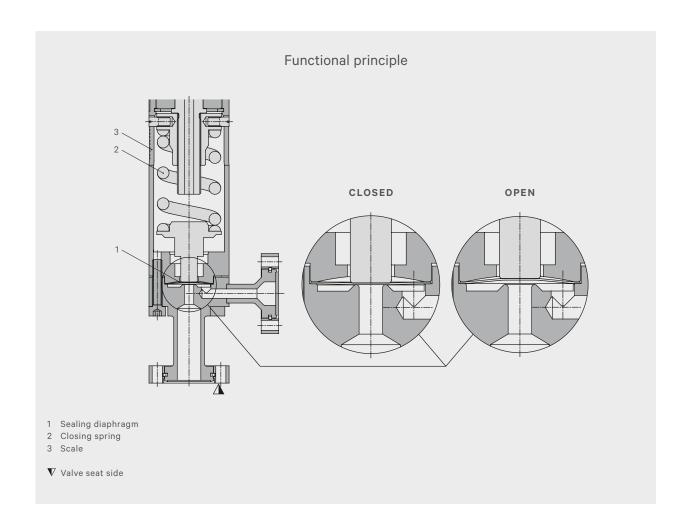
## GENERAL INFORMATION

Leak rate (valve body, valve seat)		$< 1 \times 10^{-10}  \mathrm{mbar \ ls^{-1}}$
Pressure range		UHV to 10 bar (abs)
Differential pressure at opening		≤ 10 bar
Dead volume	Seat side Side port	2.7 cm <sup>3</sup>
Cycles		20 000
Bake-out temperature 1)	Valve body Manual actuator Stepper motor	≤ 300 °C ≤ 300 °C ≤ 50 °C
Heating and cooling rate		≤ 60 °C h <sup>-1</sup>
Material	Valve body Diaphragm	AISI 660 (1.4943), AISI 316L (1.4404) AISI 301 (1.4310), gold-plated
Mounting position		Any
Valve position indication		Visual (scale)
Conductance (molecular flow)		0.05 ls <sup>-1</sup>
Adjustable gas flow (air, 1bar, RT)		1 × 10 <sup>-10</sup> mbar Is <sup>-1</sup> to 500 mbar Is <sup>-1</sup>
Position resolution (automated version)		100 000
Closing time (automated version)		3.5 s

- Resistant to corrosive and aggressive gases
- Precise, reproducible adjustment of the gas flow
- Repeatable and reliable leaktight closing

- 1) Maximum values: depending on operating conditions and sealing materials
- 2) Several intefaces possible for automated version





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