



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**UHV gate valve, Series 108, DN 100 (ID 4'')**  
**Ordering No. 10840-UE01**

### Description

Flange	CF-F 100 UNF
Actuator	manual, handwheel
Feedthrough	Bellows

### Technical data

Leak rate	- Valve body	$< 5 \cdot 10^{-10}$ mbar ls <sup>-1</sup>
	- Valve seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-10}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		$\leq 1.6$ bar
Differential pressure at opening		$\leq 30$ mbar
Conductance (molecular flow)		1740 ls <sup>-1</sup>
Cycles until first service		50 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	- Valve Body	$\leq 250$ °C open / $\leq 200$ °C closed (bake-out max. 24h)
	- Actuator	$\leq 250$ °C
Heating and cooling rate		50 °C h <sup>-1</sup>
Material (main components)	- Valve Body	AISI 304 (1.4301)
	- Mechanism	AISI 316L (1.4404), AISI 304 (1.4301)
	- Bellows	AISI 316L (1.4404, 1.4435)
Seal	- Bonnet	metal
	- Gate	FKM (Viton®), vulcanized
Mounting position		any
Weight		12 kg / 26 lbs

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