



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**UHV gate valve, Series 108, DN 100 (ID 4'')**  
**Ordering No. 10840-UE24**

### Description

Flange	CF-F 100 UNF
Actuator	pneumatic, double acting – with position indicator
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	– Valve Body	$\leq 250$ °C open / $\leq 200$ °C closed (bake-out max. 24h)
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	$\leq 200$ °C
	– Position indicator	$\leq 80$ °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
	– Actuator	FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.11 l / 0.0038 ft <sup>3</sup>
Compressed air		4 – 7 bar / 58 – 102 psi
min. – max. overpressure		
Compressed air connection		1/8" ISO / NPT

Created by: MAEM	Release date: 2013-01-16	1 of 2
Modified by:	Release date:	<b>299105EA</b>



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

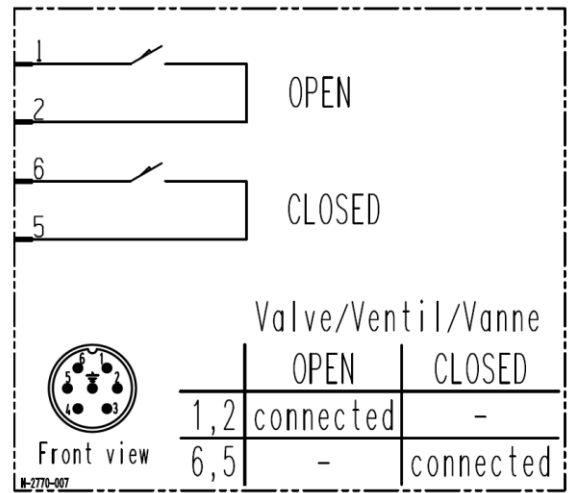
## Product data sheet

**UHV gate valve, Series 108, DN 100 (ID 4'')**  
**Ordering No. 10840-UE24**

Actuation time	- closing	1.2 s
	- opening	1.2 s
Weight		11.3 kg / 24.9 lbs
Behavior in case of compressed air pressure drop	- Valve closed	valve remains closed
	- Valve open	undefined
Behavior in case of power failure	- Valve closed	depending on customer installation
	- Valve open	

### Position indicator

Type	Micro switch
Voltage	≤ 50 V AC / DC
Current max.	≤ 1.2 A



Wiring diagram

Created by: MAEM	Release date: 2013-01-16	2 of 2
Modified by:	Release date:	<b>299105EA</b>