



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Mini UHV gate valve, Series 010, DN 28 (ID 1")**  
**Ordering No. 01028-KE08**

### Description

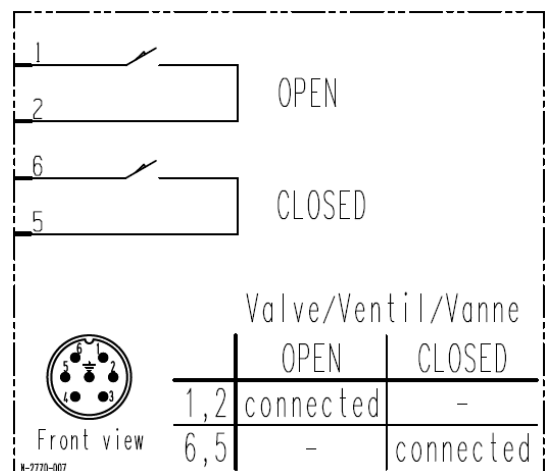
Flange	ISO-KF 25
Actuator	manual – with position indicator
Feedthrough	Bellows

### Technical data

Leak rate	– Valve body – Valve seat	$< 5 \cdot 10^{-10}$ mbar ls <sup>-1</sup> $< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-10}$ mbar to 2 bar (abs)
Differential pressure on the gate		$\leq 2$ bar
Differential pressure at opening		$\leq 30$ mbar
Conductance (molecular flow)		38 ls <sup>-1</sup>
Cycles until first service		50 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve Body – Actuator – Position indicator	$\leq 250$ °C open / $\leq 200$ °C closed (bake-out max. 24h) $\leq 250$ °C $\leq 80$ °C
Heating and cooling rate		50 °C h <sup>-1</sup>
Material	– Valve Body – Gate – Bellows	AISI 304 (1.4301), AISI 316L (1.4435) AISI 304 (1.4301), AISI 316L (1.4404, 1.4435)
Seal	– Bonnet – Gate	metal FKM (Viton®), vulcanized
Mounting position		any
Weight		1.8 kg / 4.0 lbs

### Position indicator

Type	Micro switch
Voltage	$\leq 250$ V AC $\leq 50$ V DC
Current max.	5.0 A        3 A



Wiring diagram

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