



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

Mini UHV gate valve, Series 010, DN 16 (ID 5/8")

Ordering No. 01024-KE22

### Description

Flange	ISO-KF 16
Actuator	pneumatic, single acting with opening spring – 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 2 bar (abs)
Differential pressure on the gate		$\leq 2$ bar
Differential pressure at opening		$\leq 30$ mbar
Conductance (molecular flow)		10 ls <sup>-1</sup>
Cycles until first service		50 000
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		$\leq 50$ °C h <sup>-1</sup>
Material	– Valve Body	AISI 304 (1.4301), AISI 316L (1.4435)
	– Gate	AISI 304 (1.4301)
	– Bellows	AISI 316L (1.4404, 1.4435)
Seal	– Bonnet	metal
	– Gate	FKM (Viton®), vulcanized
	– Actuator	FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		0.06 l / 0.002 ft <sup>3</sup>
Compressed air		5 – 7 bar / 73 – 102 psi
min. – max. overpressure		
Compressed air connection		G 1/8" (1/8" NPT for USA)
Actuation time	– closing	1 s
	– opening	1 s

Created by: DUE	Release date: 27.07.2017	1/2
Modified by:	Release date:	<b>904285EA</b>



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

Mini UHV gate valve, Series 010, DN 16 (ID 5/8")

Ordering No. 01024-KE22

Behavior in case of compressed air pressure drop – Valve closed  
– Valve open

Behavior in case of power failure – Valve closed  
– Valve open

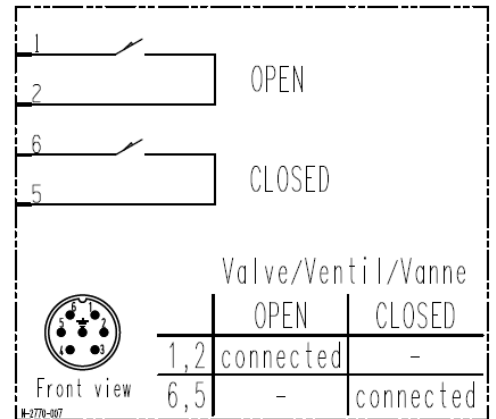
Valve opens  
Valve remains open

Depending on customer installation  
Depending on customer installation

## Electrical connections

### Position indicator

Type Micro switch  
Voltage ≤ 250 V AC ≤ 50 V DC  
Current max. 5.0 A 3 A



Wiring diagram

Created by: DUE	Release date: 27.07.2017	2/2
Modified by:	Release date:	<b>904285EA</b>