

# Product data sheet Mini UHV gate valve, Series 010, DN 50 (ID 2") Ordering No. 01034-KE42

## Description

Flange		ISO-KF 50
Actuator		pneumatic, single acting with opening spring – with solenoid valve – with position indicator
Feedthrough		Bellows
Technical data		
Leak rate	– Valve body – Valve seat	< 5 · 10 <sup>-10</sup> mbar ls <sup>-1</sup> < 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-10}$ mbar to 2 bar (abs)
Differential pressure on the gate		≤ 2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		160 ls <sup>-1</sup>
Cycles until first service		50 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	<ul> <li>Valve Body</li> <li>Actuator</li> <li>Solenoid valve</li> <li>Position indicator</li> </ul>	≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h) ≤ 200 °C ≤ 50 °C ≤ 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 – Actuator	metal FKM (Viton <sup>®</sup> ), vulcanized FKM (Viton <sup>®</sup> )
Mounting position		any
Volume of pneumatic actuator		0.06 I / 0.002 ft <sup>3</sup>
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		G 1/8" (1/8" NPT for USA)
Actuation time	– closing – opening	0.7 s 0.7 s
Weight		2.2 kg / 4.85 lbs

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Behavior in case of compressed	
air pressure drop	
Behavior in case of power failure	

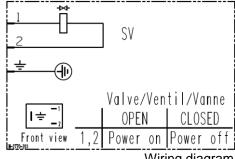
- Valve closed
- Valve open
- Valve closed
- Valve open

Valve opens Valve remains open Valve opens Valve remains open

### **Electrical connections**

#### Solenoid valve

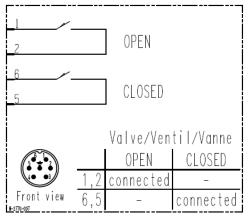
Type Voltage 3/2-way Defined by order



### Wiring diagram

### **Position indicator**

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



Wiring diagram

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