



VAT Vakuumentile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Mini UHV gate valve**  
**Series 010, DN 40 (ID 1 1/2")**  
**Ordering No. 01032-UE22**

### Description

|             |   |
|-------------|---|
| Flange      | CF-F 40 UNF   |
| Actuator    | pneumatic, single acting with opening spring<br>– 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)  |                      | 160 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  |                      | 0.10 l / 0.004 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            | 0.7 s   |
|   | – opening            | 0.7 s   |
| Weight  |                      | 2.41 kg / 5.32 lbs  |

|                  |                          |                  |
|------------------|--------------------------|------------------|
| Created by: SAVI | Release date: 2021-05-27 | 1/2              |
| Modified by:     | Release date:            | <b>1091616EA</b> |



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

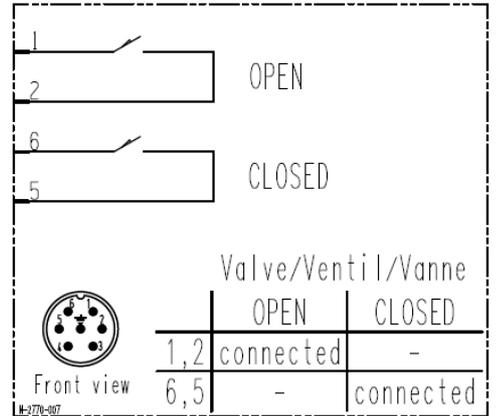
valve opens  
valve remains open

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

depending on customer installation  
depending on customer installation

### Position indicator

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



Wiring diagram

|                  |                          |                  |
|------------------|--------------------------|------------------|
| Created by: SAVI | Release date: 2021-05-27 | 2/2              |
| Modified by:     | Release date:            | <b>1091616EA</b> |