



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**HV gate valve, Series 140, DN 250 (ID 10")**  
**Ordering No. 14048-JE24**

### Description

|             |   |
|-------------|---|
| Flange      | JIS 250   |
| Actuator    | Pneumatic, double acting<br>– with position indicator |
| Feedthrough | Rotary feedthrough                                    |

### Technical data

|  |  |  |
|--|--|--|
| Leak rate  | – Valve body<br>– Valve seat                                 | $< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup><br>$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup> |
| Pressure range   |  | $1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)  |
| Differential pressure on the gate  |  | $\leq 1.2$ bar   |
| Differential pressure at opening   |  | $\leq 30$ mbar   |
| Conductance (molecular flow)   |  | 21'690 ls <sup>-1</sup>  |
| Cycles until first service   | – Unheated and under clean conditions                        | 200'000  |
| Temperature<br>(Maximum values: depending on operating conditions and sealing materials) | – Valve body<br>– Pneumatic actuator<br>– Position indicator | $\leq 150$ °C<br>$\leq 50$ °C<br>$\leq 80$ °C  |
| Heating and cooling rate   |  | 50 °C h <sup>-1</sup>  |
| Material (main components)   | – Valve body<br>– Mechanism                                  | AISI 304 (1.4301)<br>AISI 304 (1.4301)   |
| Seal   | – Bonnet<br>– Gate<br>– Actuator                             | FKM (Viton®), O-ring<br>FKM (Viton®), O-ring<br>FKM (Viton®), NBR                      |
| Mounting position  |  | any  |
| Volume of pneumatic actuator   |  | 0.84 l / 0.030 ft <sup>3</sup>   |
| Compressed air<br>min. – max. overpressure   |  | 4 – 7 bar / 58 – 102 psi   |
| Compressed air connection  |  | G $\frac{1}{8}$ " ( $\frac{1}{8}$ " NPT for USA)                                       |
| Actuation time   | – closing<br>– opening                                       | 4.5 s<br>4.5 s   |
| Weight   |  | 60 kg / 132 lbs  |
| Behavior in case of compressed air pressure drop   | – Valve closed<br>– Valve open                               | valve remains closed<br>undefined  |
| Behavior in case of power failure  | – Valve closed<br>– Valve open                               | depending on customer installation<br>depending on customer installation               |

Created by: DEV

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Modified by:

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**1226568EA**



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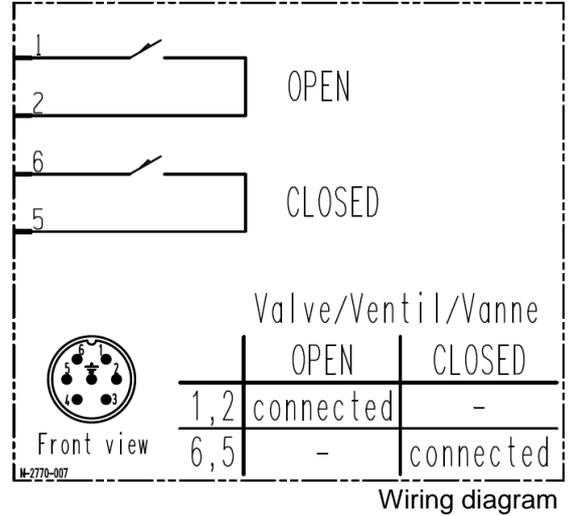
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### Electrical connections

#### Position indicator

|              |                         |
|--------------|-------------------------|
| Type         | Micro switch            |
| Voltage      | ≤ 250 V AC    ≤ 50 V DC |
| Current max. | ≤ 5 A            ≤ 3 A  |



|                 |                          |                  |
|-----------------|--------------------------|------------------|
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