

| Description   |  |
|---|--|
| Flange  | ISO-KF 50  |
| Actuator  | pneumatic, double acting<br>– with position indicator  |
| Feedthrough   | Bellows feedthrough  |
| Technical data  |  |
| Leak rate<br>– Valve body<br>– Valve seat   | < 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup><br>< 1 · 10 <sup>-7</sup> mbar ls <sup>-1</sup> |
| Pressure range  | $1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)  |
| Differential pressure on the gate   | ≤ 1.2 bar  |
| Conductance (molecular flow)  | 250 ls <sup>-1</sup>   |
| Max. differential pressure at opening in closing and opening direction with influence to the cycle life             | counter seat side B  |
| <ul> <li>Higher pressure on seat side A, the differential pressure<br/>acts in opening direction</li> </ul>         | ≤ 1.0 bar with full cycle life   |
| <ul> <li>Higher pressure on counter seat side B, the differential<br/>pressure acts in closing direction</li> </ul> | ≤ 30mbar with full cycle life  |
| <ul> <li>Higher pressure on counter seat side B, the differential pressure acts in closing direction</li> </ul>     | $\leq$ 1.0 bar with reduced cycle life   |
| Cycles until first service  | 5 000 (unheated and under clean conditions)  |
| Bellows cycles  | 100 000 (unheated and under clean conditions)  |
| Bake-out temperature<br>– Valve body<br>– Actuator<br>– Position indicator  | ≤ 150 °C (bake-out max. 24h)<br>≤ 100 °C<br>≤ 60 °C  |

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## Product data sheet HV gate valve, Series 091, DN 50 (ID 2'') Ordering No. 09134-KE24

| Heating and cooling rate   |  | 50 °C h⁻¹  |
|--|--|--|
| Material<br>– Valve body<br>– Gate<br>– Parts (in contact with media)<br>– Bellows |  | AISI 304 (1.4301)<br>AISI 304 (1.4301), (1.4308)<br>A2 Ni-Teflon coated, PEEK<br>AISI 633, (AM350) |
| Seal<br>– Bonnet<br>– Gate<br>– Actuator<br>Mounting position                      |  | FKM (Viton <sup>®</sup> )<br>FKM (Viton <sup>®</sup> )<br>FKM (Viton <sup>®</sup> )<br>any         |
| Volume of pneumatic actuator   |  | 0.08 I / 0.003 ft <sup>3</sup>   |
| Compressed air<br>min. – max. overpressure   |  | 4 – 7 bar / 58 – 102 psi   |
| Compressed air connection  |  | M5 (10-32 UNF suitable)  |
| Actuation time<br>– closing<br>– opening   |  | ≤ 1.5 s<br>≤ 1.5 s   |
| Behavior in case of compressed air pressure drop                                   | <ul> <li>Valve closed</li> <li>Valve open</li> <li>During actuation</li> </ul> | Valve remains closed (≥ 24h)<br>undefined<br>undefined   |
| Weight   |  | approx. 3.4 kg / 7.5 lbs   |

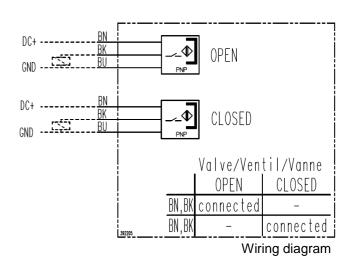
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## **Electrical connections**

| Position indicator |              |
|--------------------|--------------|
| Туре               | PNP          |
| Voltage            | 1030 V DC    |
| Current max.       | $\leq$ 0.2 A |



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