

## Product data sheet UHV gate valve, Series 108, DN 320 (ID 12'') Ordering No. 10850-TE28

## Description

| Flange   |  | ASA-LP 320,   |
|--|--|---|
| Actuator   |  | pneumatic double acting, with 3-position actuator – with position indicator                   |
| Feedthrough  |  | Bellows   |
|  |  |   |
| Technical data   |  |   |
| Leak rate  | – Valve body<br>– Valve seat   | < 5 · 10 <sup>-10</sup> mbar ls <sup>-1</sup><br>< 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup> |
| Pressure range   |  | $1 \cdot 10^{-10}$ mbar to 1.2 bar (abs)  |
| Differential pressure on the gate  |  | $\leq$ 1.2 bar  |
| Differential pressure at opening   |  | ≤ 30 mbar   |
| Conductance (molecular flow)   |  | 27 450 ls <sup>-1</sup>   |
| Cycles until first service   |  | 50 000 (unheated and under clean conditions)  |
| Temperature<br>(Maximum values: depending<br>on operating conditions and<br>sealing materials) | <ul> <li>Valve body</li> <li>Actuator</li> <li>Position indicator</li> </ul> | ≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h)<br>≤ 200 °C<br>≤ 80   °C                  |
| Heating and cooling rate   |  | 50 °C h <sup>-1</sup>   |
| Material (main components)   | – Valve body<br>– Mechanism<br>– Bellows                                     | AISI 304 (1.4301)<br>AISI 316L (1.4404), AISI 304 (1.4301)<br>AISI 316L (1.4404, 1.4435)      |
| Seal   | – Bonnet<br>– Gate<br>– Actuator   | metal<br>FKM (Viton <sup>®</sup> ), O-ring<br>FKM (Viton <sup>®</sup> ), NBR                  |
| Mounting position  |  | any   |
| Volume of pneumatic actuator   |  | 0.48   / 0.0167 ft <sup>3</sup>   |
| Compressed air<br>min. – max. overpressure   |  | 5 – 7 bar / 73 – 102 psi  |
| Compressed air connection  |  | 1⁄8" ISO / NPT  |
| Actuation time   | – closing<br>– opening   | 5 s<br>5 s  |
| Weight   |  | 100 kg / 220 lbs  |

| Created by: JOM | Release date: 2015-02-23 | 1 of 2   |
|-----------------|--------------------------|----------|
| Modified by:    | Release date:            | 774815EA |



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| Behavior in case of compressed | <ul> <li>Valve closed</li> </ul>    |
|--------------------------------|-------------------------------------|
| air pressure drop              | <ul> <li>Valve open</li> </ul>      |
|                                | <ul> <li>Middle position</li> </ul> |

Behavior in case of power failure

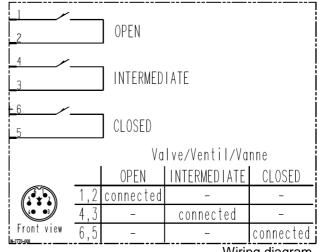
- Valve closed
- Valve open
- Middle position

valve remains closed undefined undefined

depending on customer installation depending on customer installation depending on customer installation

## **Position indicator**

| Туре         | Micro switch   |
|--------------|----------------|
| Voltage      | ≤ 50 V AC / DC |
| Current max. | ≤ 1.2 A        |



Wiring diagram

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