



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**UHV gate valve, Series 108, DN 250 (ID 10'')**  
**Ordering No. 10848-TE01**

### Description

|             |                   |
|-------------|-------------------|
| Flange      | ASA-LP 250        |
| Actuator    | manual, handwheel |
| Feedthrough | Bellows           |

### Technical data

|  |              |   |
|--|--------------|---|
| Leak rate  | - Valve body | $< 5 \cdot 10^{-10} \text{ mbar ls}^{-1}$   |
|  | - Valve seat | $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$  |
| Pressure range   |              | $1 \cdot 10^{-10} \text{ mbar}$ to 1.2 bar (abs)  |
| Differential pressure on the gate  |              | $\leq 1.2 \text{ bar}$  |
| Differential pressure at opening   |              | $\leq 30 \text{ mbar}$  |
| Conductance (molecular flow)   |              | $19\,990 \text{ ls}^{-1}$   |
| Cycles until first service   |              | 50 000 (unheated and under clean conditions)  |
| Temperature<br>(Maximum values: depending<br>on operating conditions and<br>sealing materials) | - Valve Body | $\leq 250 \text{ }^\circ\text{C}$ open / $\leq 200 \text{ }^\circ\text{C}$ closed (bake-out max. 24h) |
|  | - Actuator   | $\leq 250 \text{ }^\circ\text{C}$   |
| Heating and cooling rate   |              | $50 \text{ }^\circ\text{C h}^{-1}$  |
| Material (main components)   | - Valve Body | AISI 304 (1.4301)   |
|  | - Mechanism  | AISI 316L (1.4404), AISI 304 (1.4301)   |
|  | - Bellows    | AISI 316L (1.4404, 1.4435)  |
| Seal   | - Bonnet     | metal   |
|  | - Gate       | FKM (Viton <sup>®</sup> ), O-ring   |
| Mounting position  |              | any   |
| Weight   |              | 50 kg / 110 lbs   |

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