



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**HV gate valve, Series 110, DN 200 (ID 8")**  
**Ordering No. 11046-PE14**

### Description

|             |                          |
|-------------|--------------------------|
| Flange      | ISO-F 200                |
| Actuator    | Pneumatic, double acting |
| Feedthrough | Bellows                  |

### 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 1.6 bar (abs)  |
| Differential pressure on the gate  |  | $\leq 1.6$ bar   |
| Differential pressure at opening   |  | $\leq 30$ mbar   |
| Conductance (molecular flow)   |  | 13 940 ls <sup>-1</sup>  |
| Cycles until first service   |  | 200 000 (unheated and under clean conditions)  |
| Temperature<br>(Maximum values: depending on operating conditions and sealing materials) | – Valve body<br>– Actuator               | $\leq 150$ °C<br>$\leq 80$ °   |
| 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)<br>AISI 633 (AM350)                            |
| Seal   | – Bonnet<br>– Gate<br>– Actuator         | FKM (Viton®)<br>FKM (Viton®), vulcanized<br>FKM (Viton®), NBR                          |
| Mounting position  |  | any  |
| Volume of pneumatic actuator   |  | 0.26 l / 0.0092 ft <sup>3</sup>  |
| Compressed air<br>min. – max. overpressure   |  | 4 – 7 bar / 58 – 102 psi   |
| Compressed air connection  |  | M5 female (10-32 UNF suitable)   |
| Actuation time   | – Closing<br>– Opening                   | 3.5 s<br>3.5 s   |
| 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               |

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