

## **Product data sheet**

## UHV gate valve, Series 108, DN 100 (ID 4") Ordering No. 10840-PE14

**Description** 

Flange ISO-F 100

Actuator pneumatic, double acting

Feedthrough Bellows

**Technical data** 

Leak rate - Valve body  $< 5 \cdot 10^{-10}$  mbar Is<sup>-1</sup>

– Valve seat < 1 · 10<sup>-9</sup> mbar ls<sup>-1</sup>

Pressure range  $1 \cdot 10^{-10}$  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) 1740 ls<sup>-1</sup>

Cycles until first service 50 000 (unheated and under clean conditions)

Temperature – Valve Body ≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h)

(Maximum values: depending

on operating conditions and

sealing materials)

Heating and cooling rate

50 °C h<sup>-1</sup>

Material (main components) – Valve Body AISI 304 (1.4301)

- Actuator

- Mechanism AISI 316L (1.4404), AISI 304 (1.4301)

≤ 200 °C

- Bellows AISI 316L (1.4404, 1.4435)

Seal – Bonnet metal

– Gate
 – Actuator
 FKM (Viton®), vulcanized
 FKM (Viton®), NBR

Mounting position any

Volume of pneumatic actuator 0.11 I / 0.0038 ft<sup>3</sup>

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection 1/6" ISO / NPT

Actuation time – closing 1.2 s – opening 1.2 s

- opening 1.2 3

Weight 12.4 kg / 27.3 lbs

Behavior in case of compressed - Valve closed valve remains closed

air pressure drop – Valve open undefined

Behavior in case of power failure - Valve closed depending on customer installation

- Valve open

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