

Product data sheet UHV gate valve, Series 108, DN 100 (ID 4") Ordering No. 10840-PE34

Description

ISO-F 100 Flange

Actuator pneumatic, double acting

- with solenoid valve

Feedthrough **Bellows**

Technical data

 $< 5 \cdot 10^{-10} \text{ mbar ls}^{-1}$ $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ - Valve body Leak rate

- Valve seat

 $1 \cdot 10^{-10}$ mbar to 1.6 bar (abs) Pressure range

Differential pressure on the gate ≤ 1.6 bar Differential pressure at opening ≤ 30 mbar 1740 Is⁻¹ Conductance (molecular flow)

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

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

≤ 200 °C (Maximum values: depending Actuator on operating conditions and - Solenoid valve ≤ 50 °C

sealing materials)

50 °C h⁻¹ Heating and cooling rate

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

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

Mounting position any

Volume of pneumatic actuator 0.11 I / 0.0038 ft³

4 - 7 bar / 58 - 102 psiCompressed air

min. - max. overpressure

G1/8" (1/8" NPT for USA) Compressed air connection

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Actuation time - closing 1.2 s - opening 1.2 s

Weight 12.6 kg / 27.8 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 valve remains closed

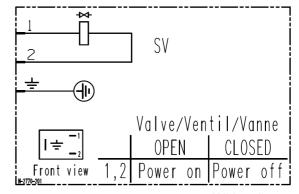
Valve open valve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order



Wiring diagram

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