

Product data sheet

UHV gate valve, Series 108, DN 250 (ID 10") Ordering No. 10848-PE34

Description

Flange ISO-F 250

Actuator pneumatic, double acting

- with solenoid valve

Feedthrough Bellows

Technical data

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

- Valve seat $< 1 \cdot 10^{-9}$ mbar Is⁻¹

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 \leq 30 mbar

Conductance (molecular flow) 21 690 ls⁻¹

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 — Actuator \leq 200 °C on operating conditions and — Solenoid valve \leq 50 °C

sealing materials)

Heating and cooling rate 50 °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
 Actuator
 FKM (Viton®), O-ring
 FKM (Viton®), NBR

Mounting position any

Volume of pneumatic actuator 0.35 I / 0.0122 ft³

Compressed air 5-7 bar/73-102 psi

min. - max. overpressure

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

Created by: SON	Release date: 2015-02-23	1 of 2
Modified by:	Release date:	778345EA



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Actuation time - closing 4 s

- opening 4 s

Weight 50 kg / 110 lbs

Behavior in case of compressed valve remains closed - Valve closed air pressure drop undefined - Valve open

Behavior in case of power failure - Valve closed valve remains closed

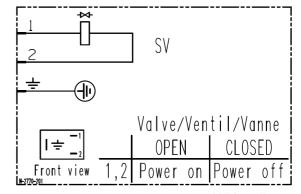
- Valve open valve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order



Wiring diagram

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