

Product data sheet

UHV gate valve, Series 108, DN 250 (ID 10") Ordering No. 10848-JE14

Description

Flange JIS 250

Actuator pneumatic, double acting

Feedthrough Bellows

Technical data

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

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

on operating conditions and

sealing materials)

Heating and cooling rate 50 °C h⁻¹

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[®]), 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 1/8" ISO / NPT

Actuation time - closing 4 s - opening 4 s

opening 4.5

Weight 50 kg / 110 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 depending on customer installation

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