

Product data sheet

UHV gate valve, Series 108, DN 250 (ID 10") Ordering No. 10848-UE24

Description

Flange CF-F 250 UNF

Actuator pneumatic, double acting

with position indicator

Feedthrough Bellows

Technical data

Leak rate - Valve body $< 5 \cdot 10^{-10}$ mbar Is⁻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) 19 990 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 — Position indicator \leq 80 °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 1/8" ISO / NPT

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Actuation time - closing 4 s - opening 4 s

50 kg / 110 lbs

Weight

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

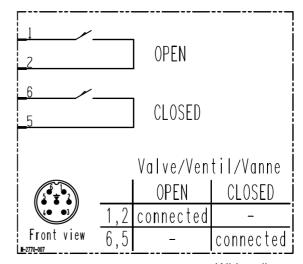
depending on customer installation Behavior in case of power failure - Valve closed

- Valve open depending on customer installation

Position indicator

Type Micro switch Voltage ≤ 50 V AC / DC

Current max. ≤ 1.2 A



Wiring diagram

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