

Product data sheet

UHV gate valve, Series 108, DN 320 (ID 12") Ordering No. 10850-TE24

Description

Flange ASA-LP 320

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) 27 450 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 ≤ 200 °C on operating conditions and — Position indicator ≤ 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 0.48 I / 0.0167 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 5 s - opening 5 s

Weight 100 kg / 220 lbs

Behavior in case of compressed — Valve closed — valve remains closed

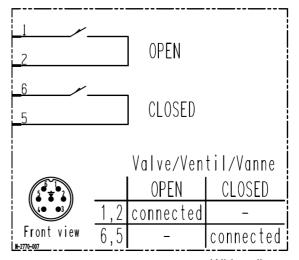
air pressure drop – Valve open undefined

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

Position indicator

Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$

Current max. ≤ 1.2 A



Wiring diagram

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