

Product data sheet

UHV gate valve, Series 108, DN 160 (ID 6") Ordering No. 10844-JE24

Description

Flange JIS 160

Actuator pneumatic, double acting

with position indicator

Feedthrough Bellows

Technical data

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

– Valve seat < 1 · 10⁻⁹ mbar Is⁻¹

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

Differential pressure on the gate \leq 1.6 bar Differential pressure at opening \leq 30 mbar Conductance (molecular flow) 5880 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®), vulcanized
FKM (Viton®), NBR

Mounting position any

Volume of pneumatic actuator 0.14 I / 0.0049 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection 1/8" ISO / NPT

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Actuation time – closing 1.5 s – opening 1.5 s

Weight 20.6 kg / 45.4 lbs

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

air pressure drop – Valve open undefined

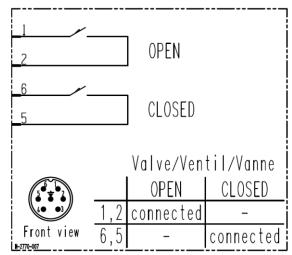
Behavior in case of power failure — Valve closed depending on customer installation

Valve open

Position indicator

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

Current max. ≤ 1.2 A



Wiring diagram

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