

Product data sheet

UHV gate valve, Series 108, DN 320 (ID 12") Ordering No. 10850-JE48

Description

Flange JIS 320,

Actuator pneumatic double acting, with 3-position actuator

> with solenoid valve with position indicator

Feedthrough **Bellows**

Technical data

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

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

Pressure range 1 · 10⁻¹⁰ mbar to 1.2 bar (abs)

Differential pressure on the gate ≤ 1.2 bar Differential pressure at opening ≤ 30 mbar Conductance (molecular flow) 29 130 ls⁻¹

Cycles until first service 50 000 (unheated and under clean conditions)

≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h) Temperature Valve body

(Maximum values: depending - Actuator ≤ 200 °C ≤ 50 °C on operating conditions and - Solenoid valve sealing materials) Position indicator ≤ 80 °C

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 FKM (Viton®), O-ring - Actuator 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

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

Actuation time 5 s closing - opening

5 s

Weight 95 kg / 210 lbs

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Behavior in case of compressed

air pressure drop

Valve closed

valve remains closed undefined

Valve openMiddle position

undefined

Behavior in case of power failure

Valve closed

valve remains closed

Valve open

valve closes

- Middle position

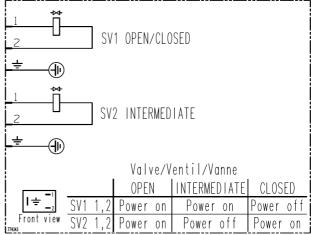
valve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order

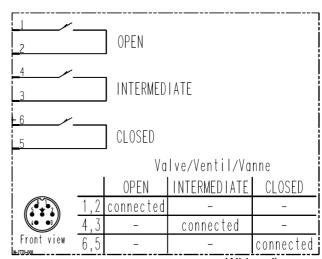


Wiring diagram

Position indicator

Type Micro switch
Voltage ≤ 50 V AC / DC

Current max. ≤ 1.2 A



Wiring diagram

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