

## Product data sheet

# UHV gate valve, Series 108, DN 160 (ID 6") Ordering No. 10844-JE44

### **Description**

JIS 160 Flange

Actuator pneumatic, double acting

- with solenoid valve - with position indicator

Feedthrough **Bellows** 

### **Technical data**

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

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

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

Differential pressure on the gate ≤ 1.6 bar Differential pressure at opening ≤ 30 mbar 5880 Is<sup>-1</sup> Conductance (molecular flow)

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

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

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

50 °C h<sup>-1</sup> Heating and cooling rate

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

FKM (Viton®), vulcanized FKM (Viton®), NBR - Gate - Actuator

Mounting position any

Volume of pneumatic actuator  $0.14 \text{ I} / 0.0049 \text{ ft}^3$ 

4 - 7 bar / 58 - 102 psiCompressed air

min. - max. overpressure

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

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Actuation time – closing 1.5 s

- opening 1.5 s

Weight 18 kg / 40 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 valve remains closed

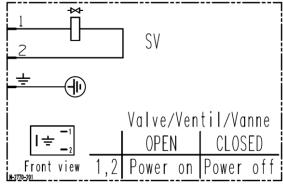
Valve open valve closes

### **Electrical connections**

### Solenoid valve

Type 4/2 way

Voltage Defined by order

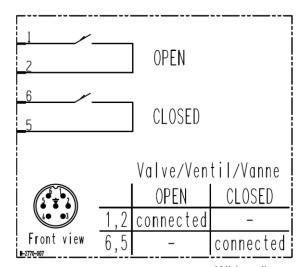


Wiring diagram

### **Position indicator**

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

Current max. ≤ 1.2 A



Wiring diagram

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