

## Product data sheet

# UHV gate valve, Series 108, DN 250 (ID 10") Ordering No. 10848-JE48

## **Description**

Flange JIS 250

Actuator pneumatic double acting, with 3-position actuator

with solenoid valvewith position indicator

Feedthrough Bellows

#### **Technical data**

Leak rate - Valve body  $< 5 \cdot 10^{-10}$  mbar Is<sup>-1</sup>

– Valve seat < 1 · 10⁻⁰ mbar ls⁻¹</p>

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) 21 690 ls<sup>-1</sup>

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

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

 $\begin{array}{lll} \mbox{(Maximum values: depending} & -\mbox{ Actuator} & \leq 200 \ ^{\circ}\mbox{C} \\ \mbox{on operating conditions and} & -\mbox{ Solenoid valve} & \leq 50 \ ^{\circ}\mbox{C} \\ \mbox{sealing materials)} & -\mbox{ Position indicator} & \leq 80 \ ^{\circ}\mbox{C} \\ \end{array}$ 

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

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 ft<sup>3</sup>

Compressed air 5-7 bar / 73-102 psi

min. - max. overpressure

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

Actuation time - closing 4 s - opening 4 s

Weight 55 kg / 120 lbs

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Behavior in case of compressed

air pressure drop

- Valve closed

valve remains closed

- Valve open undefined Middle position

Behavior in case of power failure

undefined

- Valve closed Valve open

valve remains closed valve closes

- Middle position

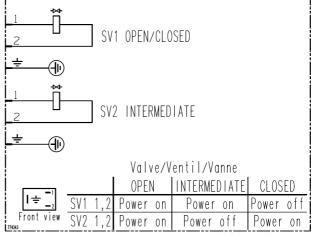
valve closes

### **Electrical connections**

#### Solenoid valve

Type 4/2 way

Defined by order Voltage

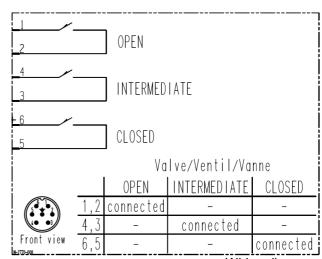


Wiring diagram

#### **Position indicator**

Type Micro switch Voltage ≤ 50 V AC / DC

Current max. ≤ 1.2 A



Wiring diagram

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