

### Product data sheet

# UHV gate valve, Series 108, DN 80 (ID 3") Ordering No. 10838-UE44-ABU

## **Description**

CF-F 80 UNF Flange

Actuator pneumatic, double acting

- with solenoid valve - with position indicator

Feedthrough **Bellows** 

**Options** - Gate seal O-ring

#### **Technical data**

 $< 5 \cdot 10^{-10} \text{ mbar ls}^{-1}$  $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$  Valve body Leak rate

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 765 ls<sup>-1</sup> Conductance (molecular flow)

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

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

≤ 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)

AISI 316L (1.4404), AISI 304 (1.4301) - Mechanism

- Bellows AISI 316L (1.4404, 1.4435)

Seal Bonnet

FKM (Viton®), O-ring - Gate FKM (Viton®), NBR - Actuator

Mounting position any

0.08 I / 0.0028 ft<sup>3</sup> Volume of pneumatic actuator

4 - 7 bar / 58 - 102 psi Compressed air

min. - max. overpressure

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

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Actuation time - closing 1 s - opening

1 s

Weight 8.8 kg / 19.4 lbs

Behavior in case of compressed valve remains closed - Valve closed air pressure drop - Valve open undefined

Behavior in case of power failure - Valve closed valve remains closed

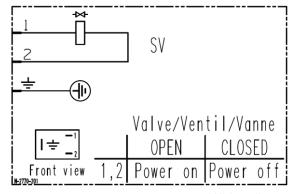
- Valve open valve closes

#### **Electrical connections**

#### Solenoid valve

Type 4/2 way

Voltage Defined by order

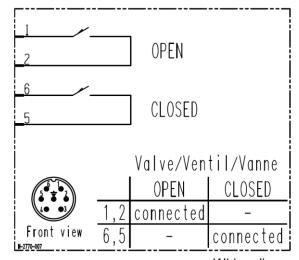


Wiring diagram

### **Position indicator**

Type Micro switch Voltage ≤ 50 V AC / DC

Current max. ≤ 1.2 A



Wiring diagram

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