

### Product data sheet

## UHV gate valve, Series 108, DN 320 (ID 12") Ordering No. 10850-TE44

### **Description**

Flange ASA-LP 320

Actuator pneumatic, double acting

with solenoid valvewith position indicator

Feedthrough Bellows

#### **Technical data**

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

- Valve seat  $< 1 \cdot 10^{-9}$  mbar Is<sup>-1</sup>

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) 27 450 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)

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<sup>®</sup>), O-ring
 FKM (Viton<sup>®</sup>), NBR

Mounting position any

Volume of pneumatic actuator 0.48 I / 0.0167 ft<sup>3</sup>

Compressed air 5-7 bar/73-102 psi

min. - max. overpressure

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

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Actuation time - closing 5 s - opening 5 s

100 kg / 220 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

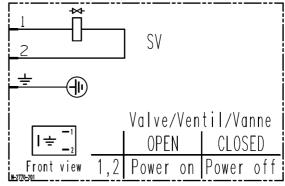
### **Electrical connections**

#### Solenoid valve

Weight

Type 4/2 way

Voltage Defined by order

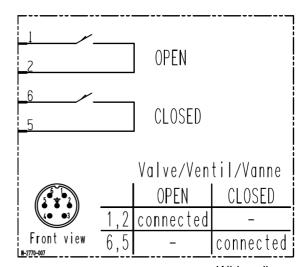


Wiring diagram

### **Position indicator**

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

Current max. ≤ 1.2 A



Wiring diagram

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