

Product data sheet Low particle UHV gate valve, Series 152, DN 100 (ID 4") Ordering No. 15240-CE44

Description

CF-F 100 Flange

Actuator Pneumatic, double acting

- with solenoid valve - with position indicator

Feedthrough **Bellows**

Technical data

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

- Valve seat

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

Differential pressure on the gate ≤ 1.2 bar Differential pressure at opening ≤ 30 mbar 1 700 ls⁻¹ Conductance (molecular flow)

Cycles until first service 500 000 (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⁻¹ Heating and cooling rate

Material (main components) Valve Body **AISI 304** (1.4301)- Gate

AISI 304 (1.4301)- Bellows (AM350) AISI 633

Seal Bonnet metal

FKM (Viton®), vulcanized - Gate

FKM (Viton®) - Actuator

Mounting position Any

Volume of pneumatic actuator 0.32 I / 0.011 ft³

Compressed air 4 - 7 bar / 58 - 102 psi

min. - max. overpressure

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

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Actuation time - closing $\leq 2.8 \text{ s}$ - opening $\leq 2.8 \text{ s}$

Weight 16.2 kg / 35.7 lbs

Behavior in case of compressed — Valve closed — Undefined (not mechanically locked)

air pressure drop – Valve open - Undefined (not mechanically locked)

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

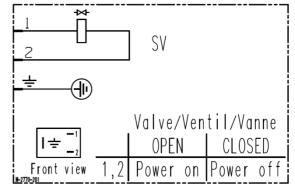
Valve openValve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order



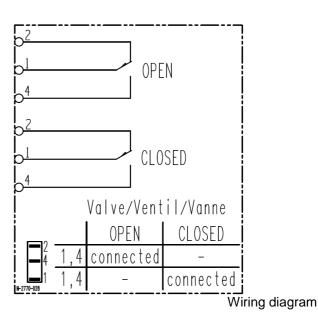
Wiring diagram

Position indicator

Type Micro switch

Voltage \leq 250 V AC \leq 50 V DC

Current max. \leq 2 A \leq 1.2 A



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