

Product data sheet Low particle UHV gate valve, Series 152, DN 100 (ID 4") Ordering No. 15240-PE24

Description

Flange ISO-F 100

Actuator Pneumatic, double acting

with position indicator

Feedthrough Bellows

Technical data

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

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

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

Differential pressure on the gate \leq 1.2 bar

Differential pressure at opening \leq 30 mbar

Conductance (molecular flow) 1 700 ls⁻¹

Cycles until first service 500 000 (unheated and under clean conditions)

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

(Maximum values: depending — Actuator ≤ 200 °C on operating conditions and — Position indicator ≤ 80 °C

sealing materials)

Heating and cooling rate 50 °C h⁻¹

Material (main components) – Valve Body AISI 304 (1.4301)

- Gate- BellowsAISI 304 (1.4301)- AISI 633 (AM350)

Seal – Bonnet metal

- Gate FKM (Viton®), vulcanized

ActuatorFKM (Viton[®])

Mounting position Any

Volume of pneumatic actuator 0.32 I / 0.011 ft³

Compressed air According dimensional drawing

min. - max. overpressure

Compressed air connection According dimensional drawing

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Actuation time closing ≤ 2.8 s ≤ 2.8 s - opening

16.2 kg / 35.7 lbs

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

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

- Depending on customer installation Behavior in case of power failure Valve closed Valve open Depending on customer installation

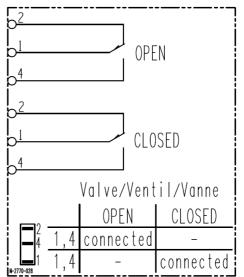
Electrical connections

Position indicator

Type Micro switch

Voltage ≤ 250 V AC ≤ 50 V DC

Current max. ≤ 2 A ≤ 1.2 A



Wiring diagram

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