

## Product data sheet Low particle HV gate valve, Series 151, DN 100 (ID 4") Ordering No. 15140-PA44

## **Description**

Flange ISO-F 100

Actuator Pneumatic, double acting

- with solenoid valve

with position indicator

Feedthrough Bellows

**Technical data** 

Leak rate – Valve body  $< 1 \cdot 10^{-9}$  mbar Is<sup>-1</sup>

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

Pressure range  $1 \cdot 10^{-8}$  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<sup>-1</sup>

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

Temperature – Valve Body ≤ 120 °C (bake-out max. 24h)

(Maximum values: depending on operating conditions and sealing materials)- Actuator - Solenoid valve  $\le 50$  °C- Solenoid valve - Position indicator - Solenoid valve - Soleno

Heating and cooling rate 30 °C h<sup>-1</sup>

Material (main components) — Valve Body EN AW-6082 (3.2315)

- Gate EN AW-6082 (3.2315) - Bellows AISI 633 (AM350)

Seal – Bonnet FKM (Viton®)

– Gate
 FKM (Viton<sup>®</sup>), vulcanized

ActuatorFKM (Viton<sup>®</sup>)

Mounting position Any

Volume of pneumatic actuator 0.32 I / 0.011 ft<sup>3</sup>

Compressed air 4-7 bar / 58 - 102 psi

min. - max. overpressure

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

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

Weight 10.2 kg / 22.5 lbs

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

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

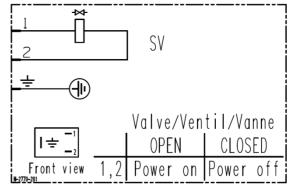
Valve openValve closes

#### **Electrical connections**

#### Solenoid valve

Type 4/2 way

Voltage Defined by order



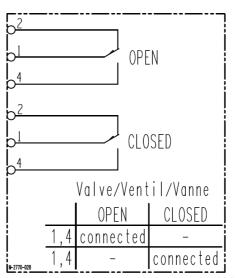
Wiring diagram

### **Position indicator**

Type Micro switch

Voltage ≤ 250 V AC ≤ 50 V DC

Current max.  $\leq 2 \text{ A} \leq 1.2 \text{ A}$ 



Wiring diagram

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