

## **Product data sheet**

HV gate valve Series 091, DN 100 (4") Ordering No. 09140-TE44-0002

## **Description**

Flange ASA-LP 100

Actuator Pneumatic, double acting

with solenoid valvewith position indicator

Feedthrough Bellows

#### **Technical data**

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

– Valve seat < 1 · 10⁻⁻ mbar Is⁻¹</p>

Pressure range  $1 \cdot 10^{-8}$  mbar to 1.2 bar (abs)

Differential pressure on the plate  $\leq$  1.2 bar

Differential pressure at actuation — In opening direction  $\leq 1 \text{ bar}^1$ 

- In closing direction  $\leq$  30 mbar (1 bar with reduced cycle life)<sup>2</sup>

Conductance (molecular flow) 1 700 Is-1

Cycles until first service 5 000 (unheated and under clean conditions)

Temperature- Valve body≤ 180 °C(Maximum values: depending<br/>on operating conditions and<br/>sealing materials)- Actuator<br/>- Solenoid valve<br/>- Position indicator≤ 50 °C

Heating and cooling rate 50 °C h<sup>-1</sup>

Material – Valve body AISI 304 (1.4301)

- Gate AISI 304 (1.4301, 1.4308) - Bellows AISI 633 (AM350)

Small parts
 A2 Ni-PTFE coated, PEEK

Seal – Bonnet FKM – Gate FKM

– Gate FKM– Actuator FKM, PU

Mounting position any

Volume of pneumatic actuator 0.25 I / 0.009 ft<sup>3</sup>

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

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

Actuation time  $\leq 0.5 \text{ s}$ 

<sup>&</sup>lt;sup>2</sup> Differential pressure supports gate to stay closed. Therefore cycle life reduced due to increased wear of gate seal

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<sup>&</sup>lt;sup>1</sup> Differential pressure supports gate to open



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Weight 8.9 kg / 15.2 lbs

Behavior in case of compressed 

Valve closed 

valve remains closed (≥ 24h)

air pressure drop – Valve open undefined – During actuation undefined

Behavior in case of power failure - Valve closed valve remains closed (≥ 24h)

Valve openDuring actuationvalve closes

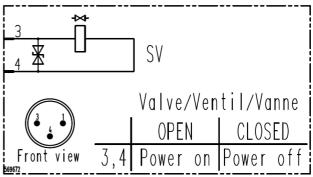
#### **Related documents**

Dimensional drawing No. 1151038

### **Electrical connections**

#### Solenoid valve

Type 5/2 way Voltage 24 V DC



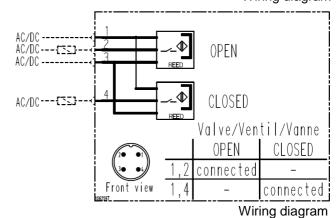
Wiring diagram

## **Position indicator**

Type Reed (NO with LED)

Voltage 24 V AC/DC

Current max.  $\leq 0.5 \text{ A}$ 



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