

# Product data sheet

# Vacuum gate valve, Series 121, DN 100 (ID 4") Ordering No. 12140-JA44

## **Description**

JIS 100 Flange

Actuator Pneumatic, double acting

with solenoid valve

with position indicator

Feedthrough Shaft feedthrough

### **Technical data**

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

Valve seat

 $1 \cdot 10^{-7}$  mbar to 1.6 bar (abs) Pressure range

Differential pressure on the gate ≤ 1.6 bar Differential pressure at opening ≤ 30 mbar Conductance (molecular flow) 2 000 ls<sup>-1</sup>

Cycles until first service 200 000 (unheated and under clean conditions)

Temperature ≤ 120 °C Valve body (Maximum values: depending ≤ 80 °C Actuator on operating conditions and Solenoid valve ≤ 50 °C ≤ 80 °C sealing materials) Position indicator

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

Material Valve body EN AW-5083 (3.3547), -6061 (3.3211)

> Mechanism AISI 304 (1.4301)

Seal **Bonnet** FKM (Viton®)

Gate

FKM (Viton®), O-ring FKM (Viton®), NBR (BUNA N®) Actuator

Mounting position any

Volume of pneumatic actuator 0.22 I / 0.008 ft<sup>3</sup>

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

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

2.0 s Actuation time closing

opening 2.0 s

Weight 5.4 kg / 11.9 lbs

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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

Type 4/2 way

Voltage Defined by order

SV

SV

Valve/Ventil/Vanne

Valve/Pentil/Vanne

OPEN CLOSED

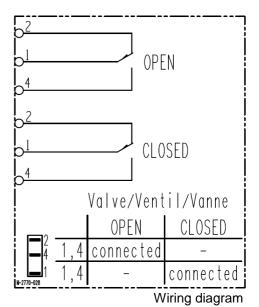
Front view 1,2 Power on Power off

Wiring diagram

### **Position indicator**

Type Micro Switch

Voltage  $\leq$  250 V AC  $\leq$  50 V DC Current max.  $\leq$  2.0 A  $\leq$  1.2 A



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