

Product data sheet

Vacuum gate valve, Series 121, DN 100 (ID 4") Ordering No. 12140-JA34

Description

JIS 100 Flange

Pneumatic, double acting Actuator

with solenoid valve

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 · 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 Is⁻¹

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

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

30 °C h⁻¹ Heating and cooling rate

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

> Mechanism AISI 304 (1.4301)

FKM (Viton®) Seal **Bonnet**

Gate

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

Mounting position any

0.22 I / 0.008 ft³ Volume of pneumatic actuator

4-7 bar / 58-102 psi Compressed air

min. - max. overpressure

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

Actuation time 2.0 s closing

opening 2.0 s

Weight 5.4kg / 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 open valve remains closed

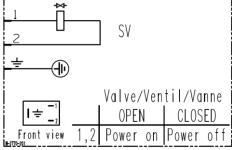
- valve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order



Wiring diagram

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