

Product data sheet

Vacuum gate valve, Series 121, DN 80 (ID 3") Ordering No. 12138-JA44

Description

JIS 80 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) 1 000 ls⁻¹

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

≤ 120 °C Temperature 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⁻¹ 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 $0.21/0.007 \text{ ft}^3$

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

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

Actuation time closing 1.7 s

opening 1.7 s

Weight 4.4 kg / 9.7 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

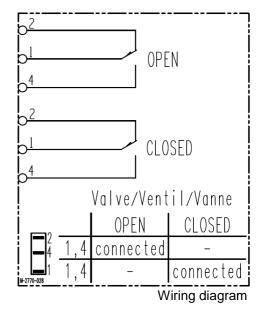
Voltage Defined by order

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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