

Product data sheet

Vacuum gate valve, Series 121, DN 100 (ID 4") Ordering No. 12140-PA44

Description

Flange ISO-F 100

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 · 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⁻¹

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

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

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 0.22 I / 0.008 ft³

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

2.0 sopening

Weight 4.5 kg / 10.0 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

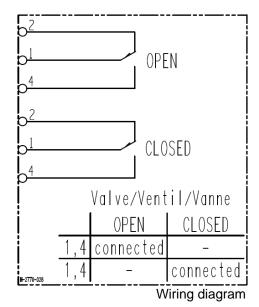
Voltage Defined by order

Wiring diagram

Position indicator

Type Micro Switch

 $\begin{tabular}{lll} Voltage & $\leq 250 \ V \ AC & $\leq 50 \ V \ DC \ \\ Current \ max. & $\leq 2.0 \ A & $\leq 1.2 \ A \end{tabular}$



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