

Product data sheet

Vacuum gate valve, Series 121, DN 100 (ID 4") Ordering No. 12140-PA14

Description

ISO-F 100 Flange

Pneumatic, double acting Actuator

Feedthrough Shaft feedthrough

Technical data

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

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⁻¹

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

Temperature Valve body ≤ 120 °C (Maximum values: depending ≤ 80 °C Actuator

on operating conditions and

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)

Seal **Bonnet** FKM (Viton®)

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

Compressed air connection M5 (10-32 UNF suitable)

2.0 s Actuation time closing opening 2.0 s

Weight 4.5 kg / 10.0 lbs

Behavior in case of compressed Valve closed - valve remains closed

undefined air pressure drop Valve open

Behavior in case of power failure Valve closed depending on customer installation

> Valve open depending on customer installation

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