

Product data sheet Vacuum gate valve, Series 121, DN 80 (ID 3") Ordering No. 12138-PA44

Description

ISO-F 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

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

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 3.8 kg / 9 lbs

Created by: DUE	Release date: 03.10.2017	1/2
Modified by:	Release date:	912056EA



Product data sheet Vacuum gate valve, Series 121, DN 80 (ID 3") Ordering No. 12138-PA44

Behavior in case of compressed

Behavior in case of power failure

Valve closed

valve remains closed

valve remains closed

air pressure drop

Valve open

undefined

Valve open

Valve closed

valve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order

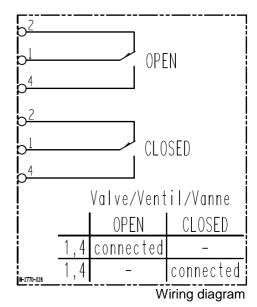
SV \bigoplus Valve/Ventil/Vanne OPEN CLOSED Power on Power off Front view

Wiring diagram

Position indicator

Type Micro Switch

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



Created by: DUE Release date: 03.10.2017 Modified by: Release date: 912056E