

Product data sheet

Vacuum gate valve, Series 08.1, DN 100 (ID 4") Ordering No. 08140-FA44

Description

Flange DN 100 Flat flanges with O-ring grooves

Actuator pneumatic, double acting

with solenoid valvewith position indicator

Feedthrough Shaft feedthrough

Technical data

Leak rate - Valve body $< 5 \cdot 10^{-9}$ mbar Is⁻¹

– Valve seat < 1 · 10⁻⁹ mbar ls⁻¹

Pressure range 1 · 10⁻⁷ mbar to 1.6 bar (abs)

Differential pressure on the gate \leq 1.6 bar Differential pressure at opening \leq 30 mbar Conductance (molecular flow) 3 800 ls⁻¹

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

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

Heating and cooling rate 50 °C h⁻¹

Material (main components) - Valve Body EN AW-5083 (3.3547), EN AW-6061 (3.3211)

Mechanism
 AISI 304 (1.4301)

Seal – Bonnet FKM (Viton®) – Gate FKM (Viton®)

– Gate
 – Shaft feedthrough
 FKM (Viton[®])

Mounting position any

Volume of pneumatic actuator 0.22 I / 0.0078 ft³

Compressed air 4-7 bar / 58-102 psi

min. – max. overpressure

Compressed air connection G1/8" (1/8" NPT for USA)

Actuation time – closing 2 s

opening2 s

Weight 3.3 kg / 7.3 lbs

Created by: MAEM	Release date: 2013-06-10	1 of 2
Modified by:	Release date:	251749EA



Product data sheet

Vacuum gate valve, Series 08.1, DN 100 (ID 4") Ordering No. 08140-FA44

Behavior in case of compressed air pressure drop

Behavior in case of power failure

- Valve closed

valve remains closed undefined

Valve open

valve remains closed

Valve closedValve open

valve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order

SV

SV

SV

Valve/Ventil/Vanne

OPEN CLOSED

Front view 1,2 Power on Power off

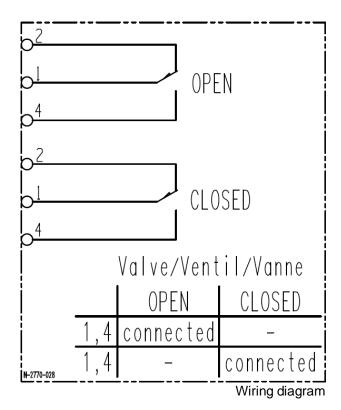
Wiring diagram

Position indicator

Type Micro switch

Voltage ≤ 250 V AC, ≤ 50 V DC

Current max. \leq 2 A, \leq 1.2 A



Created by: MAEM	Release date: 2013-06-10	2 of 2
Modified by:	Release date:	251749EA