

## Product data sheet Vacuum gate valve, Series 08.1, DN 100 (ID 4") Ordering No. 08140-FA24

## Description

Flange		DN 100 Flat flanges with O-ring grooves
Actuator		pneumatic, double acting <ul> <li>with position indicator</li> </ul>
Feedthrough		Shaft feedthrough
Technical data		
Leak rate	– Valve body – Valve seat	< 5 · 10 <sup>-9</sup> mbar ls <sup>-1</sup> < 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-7}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		≤ 1.6 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		3 800 ls <sup>-1</sup>
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	<ul> <li>Valve Body</li> <li>Actuator</li> <li>Position indicator</li> </ul>	≤ 120 °C ≤ 80 °C ≤ 80 °C
Heating and cooling rate		50 °C h <sup>-1</sup>
Material (main components)	– Valve Body – Mechanism	EN AW-5083 (3.3547), EN AW-6061 (3.3211) AISI 304 (1.4301)
Seal	– Bonnet – Gate – Shaft feedthrough	FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> )
Mounting position		any
Volume of pneumatic actuator		0.22 l / 0.0078 ft <sup>3</sup>
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		M5 (10-32 UNF suitable)
Actuation time	– closing – opening	2 s 2 s
Weight		3.2 kg / 7.1 lbs

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Behavior in case of compressed
air pressure drop
Behavior in case of power failure

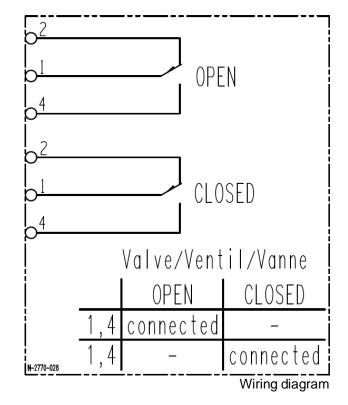
- Valve closed
- Valve open
- Behavior in case of power failure
- Valve closedValve open

valve remains closed undefined

depending on customer installation depending on customer installation

## **Position indicator**

Type Voltage Current max. Micro switch  $\leq 250 \text{ V AC}, \leq 50 \text{ V DC}$  $\leq 2 \text{ A}, \leq 1.2 \text{ A}$ 



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