



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

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 – with position indicator
Feedthrough	Shaft feedthrough

Technical data

Leak rate	– Valve body – Valve seat	$< 5 \cdot 10^{-9}$ mbar ls ⁻¹ $< 1 \cdot 10^{-9}$ mbar ls ⁻¹
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 ⁻¹
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve Body – Actuator – Position indicator	≤ 120 °C ≤ 80 °C ≤ 80 °C
Heating and cooling rate		50 °C h ⁻¹
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®) FKM (Viton®) FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		0.22 l / 0.0078 ft ³
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 – Valve closed
– Valve open

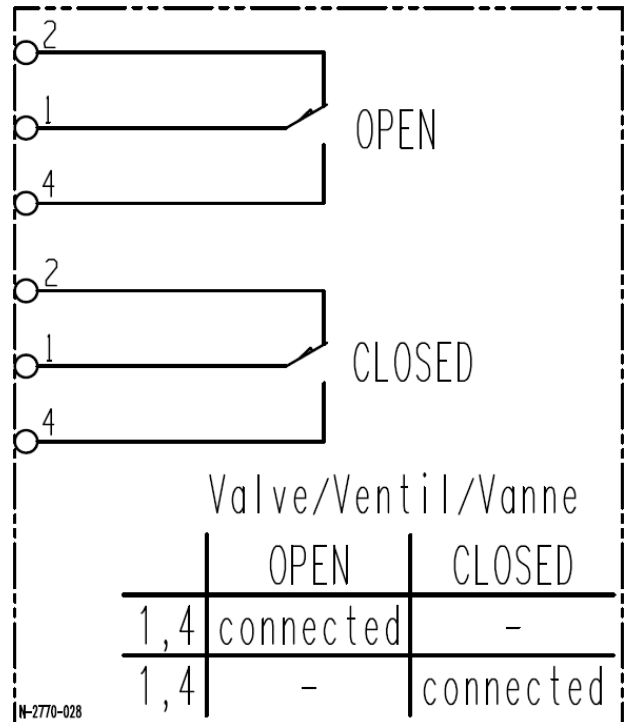
valve remains closed
undefined

Behavior in case of power failure – Valve closed
– Valve open

depending on customer installation
depending on customer installation

Position indicator

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



Wiring diagram

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