



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Vacuum gate valve, Series 08.1, DN 63 (ID 2½")**  
**Ordering No. 08136-FA24**

### Description

Flange	DN 63 Flat flanges with O-ring grooves
Actuator	pneumatic, double acting – with position indicator
Feedthrough	Shaft feedthrough

### Technical data

Leak rate	– Valve body	$< 5 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-7}$ 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)		1 000 ls <sup>-1</sup>
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature	– Valve Body	$\leq 120$ °C
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	$\leq 80$ °C
	– Position indicator	$\leq 80$ °C
Heating and cooling rate		50 °C h <sup>-1</sup>
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®)
	– Shaft feedthrough	FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		0.16 l / 0.0056 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	1.5 s
	– opening	1.5 s
Weight		2.3 kg / 5.1 lbs

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Behavior in case of compressed air pressure drop – Valve closed  
– Valve open

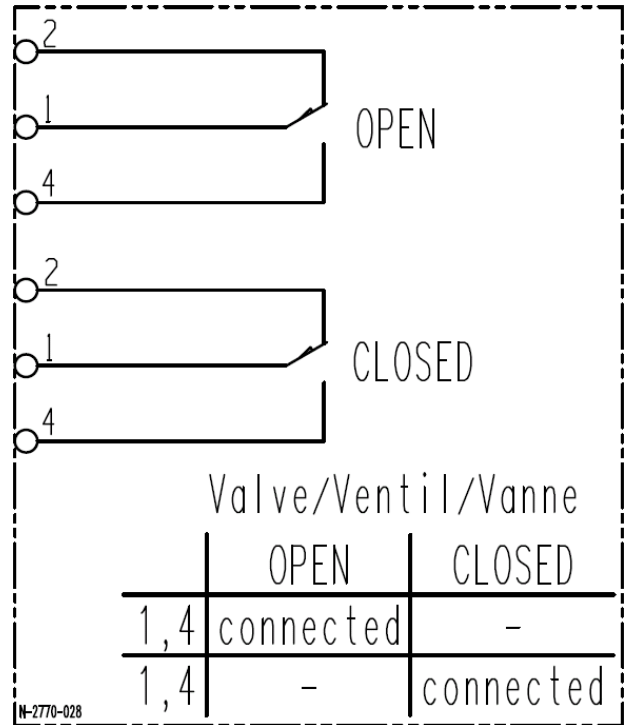
valve remains closed  
undefined

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

depending on customer installation  
depending on customer installation

### Position indicator

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



Wiring diagram