



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum gate valve, Series 08.2, DN 50 (ID 2")
Ordering No. 08234-FA34

Description

Flange	DN 50 Flat flanges with O-ring grooves
Actuator	pneumatic, double acting – with solenoid valve
Feedthrough	Shaft feedthrough

Technical data

Leak rate	– Valve body	$< 5 \cdot 10^{-9}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-7}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		≤ 1.0 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		410 ls ⁻¹
Cycles until first service		50 000 (unheated and under clean conditions)
Temperature	– Valve Body	≤ 100 °C
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 80 °C
	– Solenoid valve	≤ 50 °C
Heating and cooling rate		50 °C h ⁻¹
Material (main components)	– Valve Body	EN AW-6082 (3.2315)
	– Mechanism	AISI 301 (1.4310)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®)
	– Shaft feedthrough	FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		0.07 l / 0.002 ft ³
Compressed air min. – max. overpressure		4.5 – 7 bar / 65 – 100 psi
Compressed air connection		G $\frac{1}{8}$ " (1/8" NPT for USA)
Actuation time	– closing	1.2 s
	– opening	1.2 s
Weight		1.5 kg / 3.3 lbs

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

valve remains closed
undefined

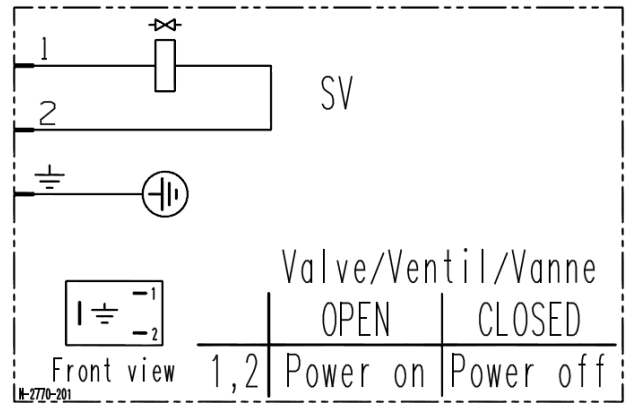
Behavior in case of power failure – Valve closed
– Valve open

valve remains closed
valve closes

Electrical connections

Solenoid valve

Type 4/2 way
Voltage Defined by order



Wiring diagram