



VAT Vakuumentile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Vacuum gate valve, Series 121, DN 63 (ID 2½")**  
**Ordering No. 12136-JA34**

### Description

Flange	JIS 63
Actuator	Pneumatic, double acting – with solenoid valve
Feedthrough	Shaft feedthrough

### Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ 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)		550 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
	– Solenoid valve	$\leq 50$ °C
Heating and cooling rate		30 °C h <sup>-1</sup>
Material	– Valve body	EN AW-5083 (3.3547), -6061 (3.3211)
	– Mechanism	AISI 304 (1.4301)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), O-ring
	– Actuator	FKM (Viton®), NBR (BUNA N®)
Mounting position		any
Volume of pneumatic actuator		0.16 l / 0.006 ft <sup>3</sup>
Compressed air min. – max. overpressure		4–7 bar / 58–102 psi
Compressed air connection		G ½" (½" NPT for USA)
Actuation time	– closing	1.5 s
	– opening	1.5 s
Weight		3.0 kg / 7.0 lbs

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Behavior in case of compressed air pressure drop	- Valve closed	- valve remains closed
	- Valve open	- undefined
Behavior in case of power failure	- Valve closed	- valve remains closed
	- Valve open	- valve closes

### Electrical connections

#### Solenoid valve

Type	4/2 way
Voltage	Defined by order

