



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Mini Vakuum gate valve, Series 012, DN 50 (ID 2")**  
**Ordering No. 01234-KA24**

### Description

Flange	ISO-KF 50
Actuator	pneumatic, double acting – with position indicator
Feedthrough	Shaft feed through

### 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 bar (abs)
Differential pressure on the gate		$\leq 1$ bar
Differential pressure at opening		$\leq 30$ mbar
Conductance (molecular flow)		260 ls <sup>-1</sup>
Cycles until first service		50 000
Temperature	– Valve Body	$\leq 100$ °C
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	$\leq 80$ °C
	– Position indicator	$\leq 80$ °C
Heating and cooling rate		$\leq 30$ °C h <sup>-1</sup>
Material	– Valve Body	EN AW – 6082 (3.2315)
	– Gate	AISI 304 (1.4301)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), vulcanized
	– Actuator	FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		0.07 l / 0.002 ft <sup>3</sup>
Compressed air min. – max. overpressure		4.5 – 7 bar / 65 – 100 psi
Compressed air connection		M 5 (10-32 UNF)
Actuation time	– closing	1.3 s
	– opening	1.3 s
Weight		1.5 kg / 3.3 lbs

Created by: SON	Release date: 2012-12-21	1 of 2
Modified by:	Release date:	<b>298771EA</b>



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

valve remains closed depending on customer installation

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

depending on customer installation depending on customer installation

### Position indicator

Voltage  $\leq 250 \text{ V AC}$   $\leq 50 \text{ V AC / DC}$   
Current max. 5.0 A  $\leq 0.5 \text{ A}$   
Power Max. 10 W

