



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Mini Vakuum gate valve, Series 012, DN 40 (ID 1½")**  
**Ordering No. 01232-KA14**

### Description

Flange	ISO-KF 40
Actuator	pneumatic, double acting
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)		140 ls <sup>-1</sup>
Cycles until first service		50 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve Body	$\leq 100$ °C
	– Actuator	$\leq 80$ °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	1.2 s
	– opening	1.2 s
Weight		1.1 kg / 2.5 lbs
Behavior in case of compressed air pressure drop	– Valve closed	valve remains closed
	– Valve open	depending on customer installation
Behavior in case of power failure	– Valve closed	depending on customer installation
	– Valve open	depending on customer installation

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