



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet No. 243598EB

**Vacuum Angle Valve, Series 244, DN 40 (ID 1 1/2 ")**

**Ordering No. 24432-KA31 or 24432-KE31**

### Description

Flanges	ISO-KF40
Actuator	- pneumatic, single acting with closing spring - with solenoid - without position indicator
Feedthrough	shaft feedthrough

### Technical data

Leak rate	- body & valve seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Molecular flow conductance		45 ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-7}$ mbar to 5 bar, abs
Differential pressure on the plate:		
- in opening direction		$\leq 2$ bar
- in closing direction		$\leq 5$ bar
Differential pressure at opening:		
- in opening direction		$\leq 1$ bar
- in closing direction		$\leq 1$ bar
		$\leq 3$ bar with reduced cycle lifetime (min. 450 000) (compressed air pressure > 5 bar required to open)
Closing time		$\leq 0,55$ sec.
Admissible temperature:		
- valve body, actuator		0°C - 120°C
- solenoid		0°C - 80°C
Cycles until first service		3 million ( $T_{max}$ 80°C, differential pressure max. 1 bar)
Material:		
- valve body	<b>24432-KA31</b>	<b>24432-KE31</b>
- pneumatic actuator	Aluminum (AlMgSi)	Stainless Steel (AISI 304)
- valve plate	Aluminum	Aluminum
- feedthrough	AISI 316L	AISI 316L
- bonnet & plate seal	Aluminum	Aluminum
- actuator o-rings	Viton	Viton
	Viton	Viton
Weight	1,04 kg / 2,292 lbs	1,2 kg / 2,645 lbs
Mounting position	any	
Volume of air cylinder	0,035 l / 0,0012 ft <sup>3</sup>	
Compressed air pressure for pneumatic	4 - 8 bar / 60 - 115 psi	
Compressed air connection	M5 female (option others)	
Solenoid	24V / DC (option others)	

Created by: C. Baur	Release date: 2005.03.16	Page 1 of 2
Modified by::	Release date:	<b>243623EB</b>



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet No. 243598EB

Vacuum Angle Valve, Series 244, DN 40 (ID 1 1/2 ")

Ordering No. 24432-KA31 or 24432-KE31

### Electrical connection Elektrischer Anschluss Branchement électrique

#### MV

Coil solenoid valve  
Spule Steuerventil  
Bobine de l'électrovanne

