



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet No. 243251ED

**Vacuum Angle Valve, Series 244, DN 40 (ID 1½ ")**

**Ordering No. 24432-KA41 or 24432-KE41**

### Description

Flanges	ISO-KF40
Actuator	- pneumatic, single acting with closing spring - with solenoid - with position indicator "open" and "closed"
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		≤ 2 bar
- in closing direction		≤ 5 bar
Differential pressure at opening:		
- in opening direction		≤ 1 bar
- in closing direction		≤ 1 bar
		≤ 3 bar with reduced cycle lifetime (min. 450 000) (compressed air pressure > 5 bar required to open)
Closing time		≤ 0,55 sec.
Admissible temperature:		
- valve body, actuator		0°C - 120°C
- solenoid		0°C - 80°C
- position indicator		0°C - 80°C (option 120°C)
Cycles until first service		3 million (T <sub>max</sub> 80°C, differential pressure max. 1 bar)
Material:		
- valve body	<b>24432-KA41</b>	<b>24432-KE41</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		
	1,06 kg / 2,336 lbs	1,22 kg / 2,689 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)
Position indicator: contact rating		
- Voltage		≤ 50V AC / DC
- Current		≤ 0.1A
- Power		≤ 1 W
Solenoid		24V / DC (option others)

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