



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet No. 277095EA

**Vacuum Angle Valve, Series 244, DN 10 (ID 3/8 ")**

**Ordering No. 24420-KE41**

### Description

Flanges	ISO-KF10
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		3 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		$\leq 0,1$ 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:		<b>24420-KE41</b>
	- valve body	Stainless Steel (AISI 304)
	- pneumatic actuator	Aluminum
	- valve plate	AISI 316L
	- feedthrough	Aluminum
	- bonnet & plate seal	Viton
	- actuator o-rings	Viton
Weight		0,43 kg / 0,948 lbs
Mounting position		any
Volume of air cylinder		0,004 l / 0,0001 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	$\leq 50$ V AC / DC
	- Current	$\leq 0.1$ A
	- Power	$\leq 1$ VA / W
Solenoid		24V / DC (option others)

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