



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet No. 258720EA

**Vacuum Angle Valve, Series 244, DN 50 (ID 2 ")**

**Ordering No. 24434-KA11 or 24434-KE11**

### Description

Flanges	ISO-KF50
Actuator	- pneumatic, single acting with closing spring - without 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		80 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		≤ 0,65 sec.
Admissible temperature:		
	- valve body, actuator	0°C - 120°C
Cycles until first service		3 million (T <sub>max</sub> 80°C, differential pressure max. 1 bar)
Material:		
	- valve body	<b>24434-KA11</b> Aluminum (AlMgSi) <b>24434-KE11</b> Stainless Steel (AISI 304)
	- pneumatic actuator	Aluminum
	- valve plate	AISI 316L
	- feedthrough	Aluminum
	- bonnet & plate seal	Viton
	- actuator o-rings	Viton
Weight		1,45 kg / 3,197 lbs      1,61 kg / 3,549 lbs
Mounting position		any
Volume of air cylinder		0,047 l / 0,0017 ft <sup>3</sup>
Compressed air pressure for pneumatic		4 - 8 bar / 60 - 115 psi
Compressed air connection		M5 female (option others)

Created by: C. Baur	Release date: 2005.03.22	Page 1 of 1
Modified by::	Release date:	<b>258720EA</b>