



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet No. 243598EB

Vacuum Angle Valve, Series 244, DN 16 (ID 5/8 ")

Ordering No. 24424-KA31 or 24424-KE31

Description

Flanges	ISO-KF16
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 ⁻¹
Molecular flow conductance		5 ls ⁻¹
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		$\leq 0,1$ 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	24424-KA31 Aluminum (AlMgSi)
	- pneumatic actuator	Aluminum
	- valve plate	AISI 316L
	- feedthrough	Aluminum
	- bonnet & plate seal	Viton
	- actuator o-rings	Viton
		24424-KE31 Stainless Steel (AISI 304)
		Aluminum
		AISI 316L
		Aluminum
		Viton
		Viton
Weight		0,35 kg / 0,771 lbs 0,41 kg / 0,904 lbs
Mounting position		any
Volume of air cylinder		0,004 l / 0,0001 ft ³
Compressed air pressure for pneumatic		4 - 8 bar / 60 - 115 psi
Compressed air connection		M5 female (option others)
Solenoid		24V / DC (option others)

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Electrical connection Elektrischer Anschluss Branchement électrique

MV

Coil solenoid valve
Spule Steuerventil
Bobine de l'électrovanne

