



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet No. 243597EC

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

Ordering No. 24424-KA21 or 24424-KE21

Description

Flanges	ISO-KF16
Actuator	- pneumatic, single acting with closing spring - without solenoid - with position indicator "open" and "closed"
Feedthrough	shaft feedthrough

Technical data

Leak rate	- body & valve seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
Molecular flow conductance		5 ls^{-1}
Pressure range		$1 \cdot 10^{-7} \text{ mbar}$ to 5 bar, abs
Differential pressure on the plate:		
- in opening direction		$\leq 2 \text{ bar}$
- in closing direction		$\leq 5 \text{ bar}$
Differential pressure at opening:		
- in opening direction		$\leq 1 \text{ bar}$
- in closing direction		$\leq 1 \text{ bar}$
		$\leq 3 \text{ bar}$ with reduced cycle lifetime (min. 450 000) (compressed air pressure $> 5 \text{ bar}$ required to open)
Closing time		$\leq 0,1 \text{ sec.}$
Admissible temperature:		
	- valve body, actuator	$0^{\circ}\text{C} - 120^{\circ}\text{C}$
	- position indicator	$0^{\circ}\text{C} - 80^{\circ}\text{C}$ (option 120°C)
Cycles until first service		3 million ($T_{\text{max}} 80^{\circ}\text{C}$, differential pressure max. 1 bar)
Material:		
	- valve body	24424-KA21 Aluminum (AlMgSi)
	- pneumatic actuator	Aluminum
	- valve plate	AISI 316L
	- feedthrough	Aluminum
	- bonnet & plate seal	Viton
	- actuator o-rings	Viton
		24424-KE21 Stainless Steel (AISI 304)
		Aluminum
		AISI 316L
		Aluminum
		Viton
		Viton
Weight		0,3 kg / 0,661 lbs 0,36 kg / 0,794 lbs
Mounting position		any
Volume of air cylinder		$0,004 \text{ l} / 0,0001 \text{ ft}^3$
Compressed air pressure for pneumatic		4 - 8 bar / 60 - 115 psi
Compressed air connection		M5 female (option others)
Position indicator: contact rating		
	- Voltage	$\leq 50\text{V AC} / \text{DC}$
	- Current	$\leq 0.1\text{A}$
	- Power	$\leq 1 \text{ W}$

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Electrical connection Elektrischer Anschluss Branchement électrique

Lo

Position indicator "open"
Lagemelder "offen"
Indicateur de position "ouvert"

Lg

Position indicator "closed"
Lagemelder "geschlossen"
Indicateur de position "fermé"

MV

Coil solenoid valve
Spule Steuerventil
Bobine de l'électrovanne

