



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet No. 243598EB

Vacuum Angle Valve, Series 244, DN 40 (ID 1 1/2 ")

Ordering No. 24432-KA31 or 24432-KE31

Description

Flanges	ISO-KF40
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		45 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		≤ 0,55 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	24432-KA31	24432-KE31
- 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	1,04 kg / 2,292 lbs	1,2 kg / 2,645 lbs
Mounting position	any	
Volume of air cylinder	0,035 l / 0,0012 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

