



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet No. 243251ED

Vacuum Angle Valve, Series 244, DN 40 (ID 1½ ")

Ordering No. 24432-KA41 or 24432-KE41

Description

Flanges	ISO-KF40
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 ⁻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
	- position indicator	0°C - 80°C (option 120°C)
Cycles until first service		3 million (T _{max} 80°C, differential pressure max. 1 bar)
Material:		
	- valve body	24432-KA41 Aluminum (AlMgSi)
	- pneumatic actuator	Aluminum
	- valve plate	AISI 316L
	- feedthrough	Aluminum
	- bonnet & plate seal	Viton
	- actuator o-rings	Viton
		24432-KE41 Stainless Steel (AISI 304)
		Aluminum
		AISI 316L
		Aluminum
		Viton
		Viton
Weight		1,06 kg / 2,336 lbs 1,22 kg / 2,689 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)
Position indicator: contact rating		
	- Voltage	≤ 50V AC / DC
	- Current	≤ 0.1A
	- Power	≤ 1 W
Solenoid		24V / DC (option others)

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Electrical connection Elektrischer Anschluss Branchement électrique

Lo

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

Lg

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

MV

Coil solenoid valve
Spule Steuerventil
Bobine de l'électrovanne

