



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum angle valve, Series 244, DN 50 (ID 2")
Ordering No. 24434-KE22-0001

Description

Flange	ISO-KF 50
Actuator	Pneumatic, single acting with opening spring – without solenoid valve – with position indicator “open” and “closed”
Feedthrough	Shaft feedthrough

Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
Pressure range		$1 \cdot 10^{-7} \text{ mbar to 5 bar (abs)}$
Differential pressure on the plate	– In opening direction – In closing direction	$\leq 2 \text{ bar}$ $\leq 5 \text{ bar}$
Differential pressure at opening		$\leq 1 \text{ bar}$ $\leq 3 \text{ bar with reduced cycle lifetime (min. 450 000)}$
Conductance (molecular flow)		80 ls^{-1}
Closing time		$\leq 0.25 \text{ sec.}$
Cycles until first service (Tmax 80°C, differential pressure max. 1 bar)		3 million
Admissible Temperature	– Valve body – Actuator – Position indicator	$\leq 150 \text{ °C}$ $\leq 120 \text{ °C}$ $\leq 80 \text{ °C}$
Material	– Valve body – Actuator – Plate – Shaft feedthrough	AISI 304 (1.4301) Aluminum AISI 316L (1.4435 ESU) Stainless Steel
Seal	– Bonnet O-ring – Plate O-ring – Actuator O-ring	FKM (Viton®) FKM (Viton®) FKM (Viton®)
Weight		2.1 kg / 4.63 lbs
Mounting position		any
Volume of pneumatic actuator		0.047 l / 0.0017 ft ³
Compressed air min. – max. overpressure		4 – 8 bar / 60 – 115 psi
Compressed air connection		M5 female (10-32 UNF suitable)

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Electrical connections

Position indicator

Type	Micro switch
Voltage	≤ 50 V AC / DC
Current	5 – 100 mA
Short circuit protected	No
Connection	Cable, 4 wires
Cable length	500 mm
Cable cross section	0.25 mm ²

