



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum angle valve, Series 244, DN 40 (ID 1 1/2")
Ordering No. 24432-KE12-0001

Description

Flange	ISO-KF 40
Actuator	Pneumatic, single acting with opening spring – without solenoid valve – without position indicator
Feedthrough	Shaft feedthrough

Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹ $< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-7}$ mbar to 5 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	≤ 2 bar ≤ 5 bar
Differential pressure at opening		≤ 1 bar ≤ 3 bar with reduced cycle lifetime (min. 450'000)
Conductance (molecular flow)		45 ls ⁻¹
Closing time		≤ 0.2 sec.
Cycles until first service (Tmax 80°C, under clean conditions)		3 million
Temperature	– Valve body – Actuator	≤ 150 °C ≤ 120 °C
Material	– Valve body – Actuator – Plate – 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		1.36 kg / 3.0 lbs
Mounting position		any
Volume of pneumatic actuator		0.035 l / 0.0012 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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