VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum angle valve
Series 244, DN 200 (ID 8'')
Ordering No. 24446-QE14-0003

Description

Flange	ISO-K 200
Actuator	Pneumatic, double acting – without solenoid valve – without position indicator
Feedthrough	Shaft feedthrough

Technical data

Leak rate (static)	– 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 1.6 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	$\leq$ 1.2 bar $\leq$ 1.6 bar
Differential pressure at opening		$\leq$ 1 bar [1 bar with reduced number of cycles]
Conductance (molecular flow)		2000 ls^{-1}
Actuation time	– Closing – Opening	$\leq$ 3 sec. $\leq$ 3 sec.
Cycles until first service (Tmax 80°C, under clean conditions)		1'000'000
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator	$\leq$ 150 °C $\leq$ 120 °C
Material	– Valve body – Actuator – Plate – Shaft feedthrough	AISI 304(1.4301) Aluminum AISI 304(1.4301) AISI 304(1.4301)
Seal	– Bonnet O-ring – Plate O-ring – Feedthrough O-ring – Actuator O-ring	FKM (Viton®) FKM (Viton®) FKM (Viton®) FKM (Viton®)
Weight		32 kg / 71 lbs
Mounting position		any
Volume of pneumatic actuator		2.5 l / 0.09 ft^3
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		⅛" ISO/NPT female
Behavior in case of compressed air pressure drop	– Valve closed – Valve opened – During actuation	depending on customer installation depending on customer installation depending on customer installation

Behavior in case of power failure	– Valve closed	depending on customer installation
	– Valve opened	depending on customer installation
	– During actuation	depending on customer installation