



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum angle valve
Series 244, DN 100 (ID 4")
Ordering No. 24440-QE34-0001

Description

Flange	ISO-K 100
Actuator	Pneumatic, double acting – with solenoid valve – without position indicator
Feedthrough	Shaft feedthrough

Technical data

Leak rate (static)	– 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 2 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	$\leq 1.2 \text{ bar}$ $\leq 2 \text{ bar}$
Differential pressure at opening		$\leq 1 \text{ bar}$ [1 bar with reduced number of cycles]
Conductance (molecular flow)		440 ls^{-1}
Actuation time	– Closing – Opening	$\leq 1 \text{ sec.}$ $\leq 1 \text{ sec.}$
Cycles until first service (Tmax 80°C, under clean conditions)		2 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Solenoid valve	$\leq 150 \text{ °C}$ $\leq 120 \text{ °C}$ $\leq 50 \text{ °C}$
Material	– Valve body – Actuator – Plate – Shaft feedthrough	AISI 316L (1.4404) Aluminum AISI 316L (1.4404) 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		10 kg / 22 lbs
Mounting position		any
Volume of pneumatic actuator		0.3 l / 0.01 ft ³
Compressed air min. – max. overpressure		4.5 – 7 bar / 65 – 102 psi
Compressed air connection		G $\frac{1}{8}$ " 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

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Behavior in case of power failure

- Valve closed
- Valve opened
- During actuation

Valve remains closed and leaktight

Valve closes leaktight

Valve closes leaktight

Electrical connection

Solenoid valve

Type

5/2 way

Voltage

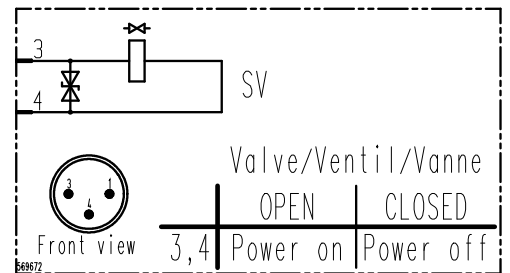
See label on solenoid

Connection type

plug, male M8x1

Additional feature

LED orange; overvoltage
protection; adjustable
emergency operation;
silencer



Wiring diagram

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