



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Vacuum angle valve**  
**Series 244, DN 100 (ID 4'')**  
**Ordering No. 24440-QE24-0001**

### Description

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

### Technical data

Leak rate (static)	– Valve body – Valve seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup> $< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-7}$ mbar to 2 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	$\leq 1.2$ bar $\leq 2$ bar
Differential pressure at opening		$\leq 1$ bar [1 bar with reduced number of cycles]
Conductance (molecular flow)		440 ls <sup>-1</sup>
Actuation time	– Closing – Opening	$\leq 1$ sec. $\leq 1$ 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 – Position indicator	$\leq 150$ °C $\leq 120$ °C $\leq 80$ °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 <sup>3</sup>
Compressed air min. – max. overpressure		4.5 – 7 bar / 65 – 102 psi
Compressed air connection		1/8" 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

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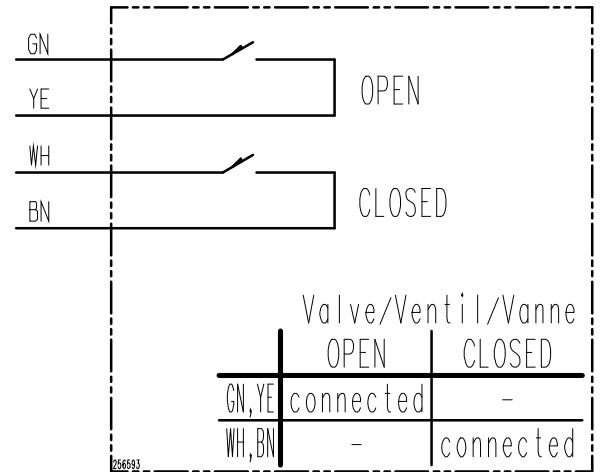
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Behavior in case of power failure – Valve closed depending on customer installation  
– Valve opened depending on customer installation  
– During actuation depending on customer installation

### Electrical connection

#### Position indicator

Type Micro switch  
Voltage  $\leq 50$  V AC / DC  
Current 5...100 mA  
Short circuit protected No  
Connection cable, 4 wire  
Cable length 500 mm  
Wire cross section 0.25 mm<sup>2</sup>



Wiring diagram

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