



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<br>– without solenoid valve<br>– with position indicator “open” and “closed” |
| Feedthrough | Shaft feedthrough   |

### Technical data

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

|                         |                          |                 |
|-------------------------|--------------------------|-----------------|
| Created by: A. Rietzler | Release date: 2013-07-15 | 1 of 2          |
| Modified by:            | Release date:            | <b>603374EA</b> |



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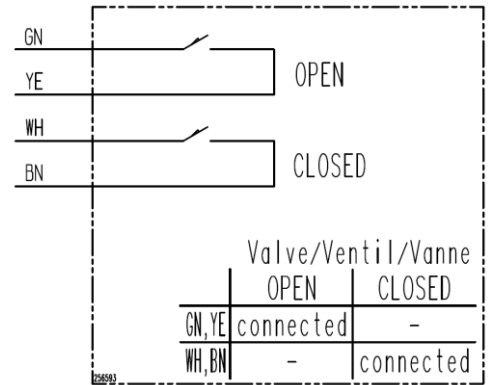
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### Electrical connections

#### 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 <sup>2</sup> |



Wiring diagram