



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Vacuum angle valve**  
**Series 244, DN 160 (ID 6'')**  
**Ordering No. 24444-QA14-0001**

### Description

|             |  |
|-------------|--|
| Flange      | ISO-K 160  |
| Actuator    | Pneumatic, double acting<br>– without solenoid valve<br>– without position indicator |
| Feedthrough | Shaft feedthrough  |

### Technical data

|  |  |  |
|--|--|--|
| Leak rate (static)   | – 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 2 bar (abs)  |
| Differential pressure on the plate   | – In opening direction<br>– In closing direction                               | $\leq 1.2$ bar<br>$\leq 2$ bar   |
| Differential pressure at opening   |  | $\leq 1$ bar [1 bar with reduced number of cycles]   |
| Conductance (molecular flow)   |  | 1000 ls <sup>-1</sup>  |
| Actuation time   | – Closing<br>– Opening   | $\leq 1.5$ sec.<br>$\leq 1.5$ sec.   |
| Cycles until first service<br>(Tmax 80°C, under clean conditions)                        |  | 2 million  |
| Temperature<br>(Maximum values: depending on operating conditions and sealing materials) | – Valve body<br>– Actuator   | $\leq 150$ °C<br>$\leq 120$ °C   |
| Material   | – Valve body<br>– Actuator<br>– Plate<br>– Shaft feedthrough                   | Aluminum (EN AC-42000)<br>Aluminum<br>Aluminum (EN AW 6082)<br>Aluminum (EN AW 6082)                           |
| Seal   | – Bonnet O-ring<br>– Plate O-ring<br>– Feedthrough O-ring<br>– Actuator O-ring | FKM (Viton®)<br>FKM (Viton®)<br>FKM (Viton®)<br>FKM (Viton®)   |
| Weight   |  | 12 kg / 26.5 lbs   |
| Mounting position  |  | any  |
| Volume of pneumatic actuator   |  | 0.35 l / 0.012 ft <sup>3</sup>   |
| Compressed air<br>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<br>– Valve opened<br>– During actuation                         | depending on customer installation<br>depending on customer installation<br>depending on customer installation |

|                 |                          |                 |
|-----------------|--------------------------|-----------------|
| Created by: LIN | Release date: 19.11.2013 | 1/2             |
| Modified by:    | Release date:            | <b>603623EA</b> |



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Vacuum angle valve**

**Series 244, DN 160 (ID 6")**

**Ordering No. 24444-QA14-0001**

Behavior in case of power failure

|                    |                                    |
|--------------------|------------------------------------|
| - Valve closed     | depending on customer installation |
| - Valve opened     | depending on customer installation |
| - During actuation | depending on customer installation |

|                 |                          |                 |
|-----------------|--------------------------|-----------------|
| Created by: LIN | Release date: 19.11.2013 | 2/2             |
| Modified by:    | Release date:            | <b>603623EA</b> |