



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**HV angle valve**  
**Series 264, DN 160 (ID 6")**  
**Ordering No. 26444-QE14-0001**

### Description

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

### 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  |  | $1 \cdot 10^{-8}$ 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>(tested at room temp. under<br>clean and static vacuum<br>conditions) |  | 1 million  |
| Temperature<br>(Maximum values: depending<br>on operating conditions and<br>sealing materials)      | – Valve body<br>– Actuator                             | $\leq 150$ °C<br>$\leq 120$ °C   |
| Material  | – Valve body<br>– Actuator<br>– Plate<br>– Bellows     | AISI 316L (1.4404)<br>Aluminum<br>AISI 316L (1.4404)<br>AISI 316 Ti (1.4571)                                   |
| Seal  | – Bonnet O-ring<br>– Plate O-ring<br>– Actuator O-ring | FKM (Viton®)<br>FKM (Viton®)<br>FKM (Viton®)   |
| Weight  |  | 13 kg / 28.5 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<br>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>604734EA</b> |



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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 |

|                 |                          |                 |
|-----------------|--------------------------|-----------------|
| Created by: LIN | Release date: 19.11.2013 | 2/2             |
| Modified by:    | Release date:            | <b>604734EA</b> |