



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

All-metal angle valve, Series 570, DN 160 (ID 6")

Ordering No. 57044-GE11-0001

### Description

|              |   |  |
|--------------|---|--|
| Flange       |   | DN 160 CF-R  |
| Actuator     |   | Pneumatic single acting with closing spring (NC)<br>- without solenoid valve<br>- without position indicator |
| Feed through |   | Bellows  |
| Option       | = | Standard   |

### Technical data

|   |  |  |
|---|--|--|
| Leak rate   | - Valve body<br>- Valve seat             | $< 1 \cdot 10^{-10}$ mbar ls <sup>-1</sup><br>$< 1 \cdot 10^{-10}$ mbar ls <sup>-1</sup> |
| Pressure range  | - T = 200°C<br>- T = 450°C               | XUHV to 5 bar (abs)<br>XUHV to 3.5 bar (abs)   |
| Test pressure   |  | 1 bar  |
| Differential pressure on the gate   |  | ≤ 5 bar  |
| Differential pressure at opening  |  | ≤ 1 bar, > 1 bar with reduced cycle life   |
| Conductance (molecular flow)  |  | 940 ls <sup>-1</sup>   |
| Cycles until first service  |  | 10 000   |
| Bake-out temperature<br>(Maximum values: depending on operating conditions and sealing materials) | - Valve body<br>- Actuator               | ≤ 450 °C (open)<br>≤ 350 °C (closed)<br>≤ 150 °C   |
| Heating and cooling rate  |  | ≤ 60 °C h <sup>-1</sup>  |
| Material<br>(in contact with media)   | - Valve body<br>- Mechanism<br>- Bellows | 1.4435/1.4404, AISI 316 L<br>1.4435 ESU, AISI 316 L ESR<br>1.4404, AISI 316 L            |
| Seal  | - Bonnet<br>- Gate<br>- Actuator         | metal, silver plated<br>metal, silver plated<br>FKM (Viton®)                             |
| Mounting position   |  | any  |
| Radiation resistance  | - Valve body<br>- Actuator               | 10 <sup>8</sup> Gy (10 <sup>10</sup> rad)<br>10 <sup>5</sup> Gy (10 <sup>7</sup> rad)    |
| Volume of pneumatic actuator  |  | 4.8 l / 0.17 ft <sup>3</sup>   |
| Compressed air<br>min. – max. overpressure  |  | 6 - 9 bar / 87 – 131 psig  |
| Compressed air connections  |  | R 1/8" (USA: 1/8" NPT)   |
| Actuation time<br>(valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min)                | - Closing<br>- Opening                   | ≤ 7.0 sec<br>≤ 7.0 sec   |
| Weight  |  | 136 kg / 299 lbs   |

|                        |                          |                 |
|------------------------|--------------------------|-----------------|
| Created by: René Brulc | Release date: 2014-06-13 | 1 of 2          |
| Modified by:           | Release date:            | <b>751320EA</b> |



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Behavior in case of  
compressed air pressure  
drop

- Valve closed
- Valve open

Valve remains in closed position  
Valve closes

Behavior in case of power  
failure

Depending on control

### Related documents

Dimensional drawing No. 753961

|                        |                          |                 |
|------------------------|--------------------------|-----------------|
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