



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet No. 243619EC

**Vacuum Angle Valve, Series 244, DN 25 (ID 1 ")**

**Ordering No. 24428-KA21 or 24428-KE21**

### Description

|             |                                                                                                                       |
|-------------|-----------------------------------------------------------------------------------------------------------------------|
| Flanges     | ISO-KF25                                                                                                              |
| Actuator    | - pneumatic, single acting with closing spring<br>- without solenoid<br>- with position indicator "open" and "closed" |
| Feedthrough | shaft feedthrough                                                                                                     |

### Technical data

|                                       |                        |                                                                                                               |
|---------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------|
| Leak rate                             | - body & valve seat    | $< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>                                                                     |
| Molecular flow conductance            |                        | 14 ls <sup>-1</sup>                                                                                           |
| Pressure range                        |                        | $1 \cdot 10^{-7}$ mbar to 5 bar, abs                                                                          |
| Differential pressure on the plate:   |                        |                                                                                                               |
| - in opening direction                |                        | $\leq 2$ bar                                                                                                  |
| - in closing direction                |                        | $\leq 5$ bar                                                                                                  |
| Differential pressure at opening:     |                        |                                                                                                               |
| - in opening direction                |                        | $\leq 1$ bar                                                                                                  |
| - in closing direction                |                        | $\leq 1$ bar                                                                                                  |
|                                       |                        | $\leq 3$ bar with reduced cycle lifetime (min. 450 000)<br>(compressed air pressure > 5 bar required to open) |
| Closing time                          |                        | $\leq 0,2$ sec.                                                                                               |
| Admissible temperature:               |                        |                                                                                                               |
|                                       | - valve body, actuator | 0°C - 120°C                                                                                                   |
|                                       | - position indicator   | 0°C - 80°C (option 120°C)                                                                                     |
| Cycles until first service            |                        | 3 million (T <sub>max</sub> 80°C, differential pressure max. 1 bar)                                           |
| Material:                             |                        |                                                                                                               |
|                                       | - valve body           | <b>24428-KA21</b><br>Aluminum (AlMgSi)                                                                        |
|                                       | - pneumatic actuator   | Aluminum                                                                                                      |
|                                       | - valve plate          | AISI 316L                                                                                                     |
|                                       | - feedthrough          | Aluminum                                                                                                      |
|                                       | - bonnet & plate seal  | Viton                                                                                                         |
|                                       | - actuator o-rings     | Viton                                                                                                         |
|                                       |                        | <b>24428-KE21</b><br>Stainless Steel (AISI 304)                                                               |
|                                       |                        | Aluminum                                                                                                      |
|                                       |                        | AISI 316L                                                                                                     |
|                                       |                        | Aluminum                                                                                                      |
|                                       |                        | Viton                                                                                                         |
|                                       |                        | Viton                                                                                                         |
| Weight                                |                        | 0,43 kg / 0,948 lbs      0,53 kg / 1,168 lbs                                                                  |
| Mounting position                     |                        | any                                                                                                           |
| Volume of air cylinder                |                        | 0,004 l / 0,0001 ft <sup>3</sup>                                                                              |
| Compressed air pressure for pneumatic |                        | 4 - 8 bar / 60 - 115 psi                                                                                      |
| Compressed air connection             |                        | M5 female (option others)                                                                                     |
| Position indicator: contact rating    |                        |                                                                                                               |
|                                       | - Voltage              | $\leq 50$ V AC / DC                                                                                           |
|                                       | - Current              | $\leq 0.1$ A                                                                                                  |
|                                       | - Power                | $\leq 1$ W                                                                                                    |

|                     |                          |                 |
|---------------------|--------------------------|-----------------|
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### Electrical connection Elektrischer Anschluss Branchement électrique

#### Lo

Position indicator "open"

Lagemelder "offen"

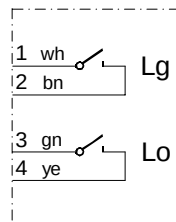
Indicateur de position "ouvert"

#### Lg

Position indicator "closed"

Lagemelder "geschlossen"

Indicateur de position "fermé"



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