

Product data sheet

UHV angle valve Series 284, DN 25 (ID 1") Ordering No. 28428-KE21-CQD1

| Description | | |
|--|--|---|
| Flange | | ISO-KF 25 |
| Actuator | | Pneumatic, single acting with closing spring – without solenoid valve – with position indicator |
| Feedthrough | | Bellows |
| Options | CQD = | Product: valve type ITER 21 |
| Technical data ¹ | | |
| Leak rate | – Valve body – Valve seat | $\le 1 \cdot 10^{-8} \text{ mbar ls}^{-1}$ < 1 \cdot 10^{-8} mbar ls^{-1} |
| Leak rate (accidental condition) | – Valve body – Valve seat | ≤ 1 · 10 ⁻⁸ mbar Is ⁻¹ n/a |
| Pressure range | | $1 \cdot 10^{-8}$ mbar to 1.5 bar (abs) |
| Differential pressure on the plate | - In either direction | ≤ 1.5 bar |
| Differential pressure at opening | | ≤ 1 bar |
| Conductance (molecular flow) | | 14 ls ⁻¹ |
| Closing time | | ≤ 0.2 sec. |
| Cycles until first service (Tmax 80 °C, under clean conditions) | | 10 000 |
| Temperature (Maximum values: depending on operating conditions and sealing materials) | Valve body Actuator Position indicator | ≤ 150 °C ≤ 150 °C ≤ 120 °C |
| Material | – Valve body – Actuator – Plate – Bellows | AISI 304 (1.4301) Aluminum AISI 316L (1.4404) AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571) |
| Seal | – Bonnet – Plate – Actuator | metal EPDM EPDM |
| Weight | | 0.65 kg / 1.433 lbs |
| Mounting position | | any |
| Radiation resistance | | 10 ⁶ Gy (10 ⁸ rad) |
| Maximum magnetic field levels | | ≤ 150 mT |
| Volume of pneumatic actuator | | 0.011 I / 0.0004 ft ³ |
| Compressed air min. – max. overpressure | | 4 – 8 bar / 58 – 116 psi |
| Compressed air connection | | 1/8" female ISO/NPT |

¹ Values according technical specification D_R8752R v.1.1

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|------------------|--------------------------|----------|
| Modified by: | Release date: | 893116EB |

| VAT Vakuumventile AG CH-9469 Haag, Schweiz | Product data sheet UHV angle valve Series 284, DN 25 (ID 1") Ordering No. 28428-KE21-CQD1 | | |
|---|--|--|--|
| Behavior in case of compress air pressure drop | ed – Valve closed – Valve open – During actuation | valve remains closed and leaktight valve closes leaktight valve closes leaktight | |
| Behavior in case of power fail | ure – Valve closed – Valve open – During actuation | depending on customer installation depending on customer installation depending on customer installation | |
| Assembly cleanliness level | | ISO Class 8 | |
| | | | |

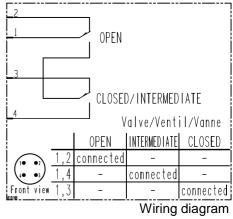
Related documents

| Dimensional drawing No. | 893118 |
|-------------------------|--------|
| STEP file No. | 893117 |

Electrical connections

Position indicator

| Туре | Micro switch |
|--------------------------------------|-------------------------------|
| Voltage | \leq 50 V AC / DC |
| Current | 5 – 100 mA |
| Short circuit protected | No |
| Male plug (VAT valve) | 4 pin |
| Female connector (ITER) ² | 8070-2201-01Z16-4SA (Glenair) |



² Not included with delivery

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