

# Product data sheet UHV inline valve, Series 285, DN 40 (ID 1 1/2") Ordering No. 28532-KE21-CQD1

### Description

| Flange   |  | ISO-KF 40   |
|--|--|---|
| Actuator   |  | Pneumatic, single acting with closing spring<br>– without solenoid valve<br>– with position indicator   |
| Feedthrough  |  | Bellows   |
| Options  | CQD =  | <ul> <li>Product: valve type ITER 21</li> </ul>   |
| Technical data <sup>1</sup>  |  |   |
| Leak rate  | – Valve body<br>– Valve seat   | $\le 1 \cdot 10^{-8}$ mbar ls <sup>-1</sup> < 1 $\cdot 10^{-8}$ mbar ls <sup>-1</sup>                   |
| Leak rate (accidental condition)   | – Valve body<br>– Valve seat   | ≤ 1 · 10 <sup>-8</sup> mbar ls <sup>-1</sup><br>n/a   |
| Pressure range   |  | $1 \cdot 10^{-8}$ mbar to 1.5 bar (abs)   |
| Differential pressure on the plate   | <ul> <li>In either direction</li> </ul>  | ≤ 1.5 bar   |
| Differential pressure at opening   |  | ≤ 1 bar   |
| Conductance (molecular flow)   |  | 45 ls <sup>-1</sup>   |
| Closing time   |  | ≤ 0.55 sec.   |
| Cycles until first service<br>(Tmax 80 °C, under clean conditions)                             |  | 10 000  |
| Temperature<br>(Maximum values: depending on<br>operating conditions and sealing<br>materials) | <ul> <li>Valve body</li> <li>Actuator</li> <li>Position indicator</li> </ul>     | ≤ 150 °C<br>≤ 150 °C<br>≤ 120 °C  |
| Material   | <ul> <li>Valve body</li> <li>Actuator</li> <li>Plate</li> <li>Bellows</li> </ul> | AISI 304 (1.4301)<br>Aluminum<br>AISI 316L (1.4404)<br>AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571) |
| Seal   | – Bonnet<br>– Plate<br>– Actuator  | metal<br>EPDM<br>EPDM   |
| Weight   |  | 1.4 kg / 3.1 lbs  |
| Mounting position  |  | any   |
| Radiation resistance   |  | 10 <sup>6</sup> Gy (10 <sup>8</sup> rad)  |
| Maximum magnetic field levels  |  | ≤ 150 mT  |
| Volume of pneumatic actuator   |  | 0.035 l / 0.0012 ft <sup>3</sup>  |
| Compressed air<br>min. – max. overpressure   |  | 5 – 8 bar / 73 – 116 psi  |
| Compressed air connection  |  | 1/8" female ISO/NPT   |

<sup>1</sup> Values according technical specification D\_R8752R v.1.1

| Created by: GARM | Release date: 13.02.2019 | 1/2      |
|------------------|--------------------------|----------|
| Modified by:     | Release date:            | 931853EB |



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| Behavior in case of compressed<br>air pressure drop | <ul> <li>Valve closed</li> <li>Valve open</li> <li>During actuation</li> </ul> | valve remains closed and leaktight<br>valve closes leaktight<br>valve closes leaktight                         |
|---|--|--|
| Behavior in case of power failure                   | <ul> <li>Valve closed</li> <li>Valve open</li> <li>During actuation</li> </ul> | depending on customer installation<br>depending on customer installation<br>depending on customer installation |
| Assembly cleanliness level                          |  | ISO Class 8  |

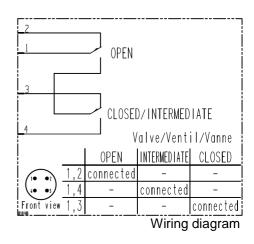
#### **Related documents**

| Dimensional drawing No. | 921364 |
|-------------------------|--------|
| STEP file No.           | 921363 |

#### **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) <sup>2</sup> | 8070-2201-01Z16-4SA (Glenair) |



<sup>2</sup> Not included with delivery

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