

### **Product data sheet**

UHV angle valve Series 284, DN 16 (ID 5/8") Ordering No. 28424-GE21-CQD1

**Description** 

Flange CF-R 16

Actuator Pneumatic, single acting with closing spring

without solenoid valvewith position indicator

Feedthrough Bellows

Options CQD = - Product: valve type ITER 21

Technical data<sup>1</sup>

Leak rate – Valve body  $\leq 1 \cdot 10^{-8} \text{ mbar Is}^{-1}$ 

- Valve seat < 1 · 10<sup>-8</sup> mbar ls<sup>-1</sup>

Leak rate (accidental condition) – Valve body  $\leq 1 \cdot 10^{-8} \text{ mbar Is}^{-1}$ 

Valve seat n/a

Pressure range  $1 \cdot 10^{-8}$  mbar to 1.5 bar (abs)

Differential pressure on the plate - In either direction  $\leq 1.5$  bar

Differential pressure at opening ≤ 1 bar

Conductance (molecular flow) 5 ls<sup>-1</sup>

Closing time  $\leq 0.1$  sec.

Cycles until first service 10 000

(Tmax 80 °C, under clean conditions)

Material – Valve body AISI 304 (1.4301)

ActuatorAluminum

Plate AISI 316L (1.4404)

- Bellows AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571)

Seal – Bonnet metal – Plate EPDM

- Actuator EPDM

Weight 0.40 kg / 0.882 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 0.004 I / 0.0001 ft<sup>3</sup>

Compressed air 5-8 bar / 73-116 psi

min. - max. overpressure

Compressed air connection 1/8" female ISO/NPT

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

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Behavior in case of compressed

air pressure drop

Valve closed valve remains closed and leaktight

Valve openDuring actuationvalve closes leaktightvalve closes leaktight

Behavior in case of power failure

Valve closed depending on customer installation
 Valve open depending on customer installation
 During actuation depending on customer installation

ISO Class 8

#### Related documents

Assembly cleanliness level

Dimensional drawing No. 854941 STEP file No. 854940

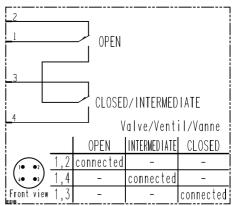
#### **Electrical connections**

#### **Position indicator**

Type Micro switch Voltage  $\leq 50 \text{ V AC / DC}$  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)



Wiring diagram

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<sup>&</sup>lt;sup>2</sup> Not included with delivery