

## **Product data sheet**

# UHV angle valve, Series 284, DN 160 (6") Ordering No. 28444-GE21-CQD1

## **Description**

CF-R 160 Flange

Actuator Pneumatic, single acting with closing spring

- without solenoid valve

with position indicator

Feedthrough **Bellows** 

**Options** CQD = - Product: valve type ITER 21

Technical data<sup>1</sup>

 $\leq 1 \cdot 10^{-8} \text{ mbar Is}^{-1}$ < 1 · 10<sup>-8</sup> mbar Is<sup>-1</sup> Leak rate Valve body

Valve seat

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

- Valve seat

1 · 10<sup>-8</sup> mbar to 1.5 bar (abs) Pressure range

Differential pressure on the - In opening direction ≤ 1.2 bar plate<sup>2</sup> - In closing direction ≤ 1.5 bar

Differential pressure at opening ≤ 1 bar

Conductance (molecular flow) 1000 ls<sup>-1</sup> Closing time ≤ 1.5 sec.

10 000 Cycles until first service (Tmax 80 °C, under clean conditions)

Temperature - Valve body ≤ 150 °C (Maximum values: depending on Actuator ≤ 120 °C operating conditions and sealing ≤ 120 °C Position indicator

AISI 316L (1.4404) Material - Valve body

> - Actuator Aluminum

- Plate AISI 316L (1.4404)

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

- Bonnet metal Seal **EPDM** Plate

 Actuator **EPDM** 

Weight 14 kg / 31 lbs

Mounting position any

10<sup>6</sup> Gy (10<sup>8</sup> rad) Radiation resistance

≤ 150 mT Maximum magnetic field levels

0.651 / 0.023 ft<sup>3</sup> Volume of pneumatic actuator

4.5 - 7 bar / 65 - 102 psi Compressed air

min. - max. overpressure

materials)

1/8" female ISO/NPT Compressed air connection

Values according technical specification D\_R8752R v.1.1
 Deviation to technical specification D\_R8752R v.1.1 in agreement with responsible IO department

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Behavior in case of compressed

air pressure drop

- Valve closed

valve remains closed and leaktight

Valve openDuring actuationvalve closes leaktight

Behavior in case of power failure

Valve closedValve openDuring actuation

depending on customer installation depending on customer installation

depending on customer installation

Assembly cleanliness level

ISO Class 8

### Related documents

Dimensional drawing No. STEP file No.

861969 861968

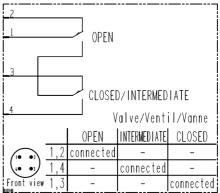
### **Electrical connections**

#### **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>3</sup> 8070-2201-01Z16-4SA (Glenair)



Wiring diagram

<sup>&</sup>lt;sup>3</sup> Not included with delivery

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