

## **Product data sheet**

# UHV angle valve, Series 284, DN 100 Ordering No. 28440-GE21-CQD1

## **Description**

CF-R 100 Flange

Actuator Pneumatic, single acting with closing spring

> without solenoid valve with position indicator

Feedthrough **Bellows** 

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

> - Actuator: seal material EPDM - Gate: seal material EPDM

- Position indicator: Glenair 4 pin connector; 120°C - Compressed air connection: female 1/8" ISO/NPT

## Technical data<sup>1</sup>

materials)

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

> $< 1 \cdot 10^{-8} \text{ mbar Is}^{-1}$ - Valve seat

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

> n/a Valve seat

 $1 \cdot 10^{-8}$  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) 440 ls<sup>-1</sup> Closing time ≤ 1 sec.

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

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

- Valve body AISI 316L (1.4404) Material

> - Actuator Aluminum

- Plate AISI 316L (1.4404)

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

10 000

- Bonnet metal Seal - Plate **EPDM** 

- Actuator **EPDM** 

Weight 10 kg / 22 lbs

Mounting position any

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

≤ 150 mT Maximum magnetic field levels

0.3 I / 0.01 ft<sup>3</sup> Volume of pneumatic actuator

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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Modified by: Phil Schneider	Release date: 15.02.2021	931860EB



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Compressed air 4.5 - 7 bar / 65 - 102 psi min. – max. overpressure

Compressed air connection 1/8" female ISO/NPT

Behavior in case of compressed - Valve closed valve remains closed and leaktight

air pressure drop — Valve open valve closes leaktight — During actuation valve closes leaktight

Behavior in case of power failure — Valve closed depending on customer installation

Valve openDuring actuationdepending on customer installationdepending on customer installation

Assembly cleanliness level ISO Class 8

### **Related documents**

Dimensional drawing No. 861960 STEP file No. 861959

### **Electrical connections**

### **Position indicator**

Type Micro switch Voltage  $\leq 50 \text{ V AC / DC}$  Current 5-100 mA

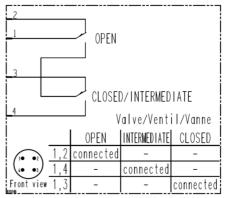
Short circuit protected No

Connector on the valve: 8070-2530-02Z16-4GA

Mating connector:\* 8070-3039-01Z16-4KA

(pins compatible with AWG 20

wire)



Wiring diagram

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<sup>\*</sup>The mating connector is not part of the valve and needs to be ordered separately at Glenair.