

## **Product data sheet**

# UHV angle valve, Series 284, DN 100 Ordering No. 28440-GE21-CVK1

## **Description**

CF-R 100 Flange

Actuator Pneumatic, single acting with closing spring

> without solenoid valve with position indicator

Feedthrough **Bellows** 

**Options** CVK = - Product: valve type ITER 22

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

- Position indicator: double; Glenair 4 pin connector;

120°C

- Compressed air connection: female 1/8" ISO/NPT

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

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

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

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

> - Valve seat n/a

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) 440 Is-1

Closing time ≤ 1 sec.

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

≤ 150 °C Temperature Valve body (Maximum values: depending on Actuator ≤ 120 °C

operating conditions and sealing Position indicator ≤ 120 °C

Material - Valve body AISI 316L (1.4404)

> Actuator Aluminum

- Plate AISI 316L (1.4404)

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

Bonnet metal Seal - Plate **EPDM** 

**EPDM** - Actuator

Weight 10 kg / 22 lbs

Mounting position any

Radiation resistance 106 Gy (108 rad)

≤ 150 mT Maximum magnetic field levels

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	957793EB



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

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. 956177 STEP file No. 956170

#### **Electrical connections**

## Position indicator (2x)

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

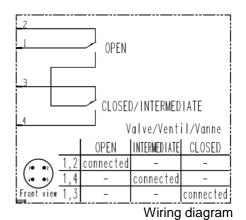
Short circuit protected No

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

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

(pins compatible with AWG 20

wire)



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