

Product data sheet

UHV angle valve, Series 284, DN 100 Ordering No. 28440-QE21-CVK1

Description

ISO-K 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 data¹

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

> < 1 · 10⁻⁸ mbar ls⁻¹ - Valve seat

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

> - Valve seat n/a

1 · 10⁻⁸ mbar to 1.5 bar (abs) Pressure range

Differential pressure on the - In opening direction ≤ 1.2 bar

plate² - 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

Created by: GARM	Release date: 13.02.2019	1/2
Modified by: Phil Schneider	Release date: 15.02.2021	957798EB



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Volume of pneumatic actuator 0.3 I / 0.01 ft³

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. 956189 STEP file No. 956188

Electrical connections

Position indicator (2x)

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

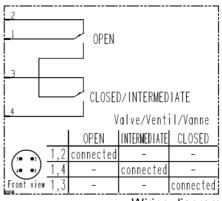
Short circuit protected No

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

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

(pins compatible with AWG 20

wire)



Wiring diagram

Created by: GARM	Release date: 13.02.2019	2/2
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^{*}The mating connector is not part of the valve and needs to be ordered separately at Glenair.