

Product data sheet

All-metal angle valve Series 571, DN 40 (ID 1½") Ordering No. 57132-KE21-AJO1

Description

Flange ISO-KF 40

Actuator Pneumatic, single acting with closing spring

without solenoid valvewith position indicator 200°C

Feedthrough Bellows

Options AJO = Product: valve type ITER 51

Flange A+B: ISO-KF 40; Valve body: A dimension 65 mm;

Actuator: radiation resistant 10⁶ Gy;

Position indicator: double; 200°C; Glenair 6 pin connector; 125 °C; radiation resistant 106 Gy; Bonnet flange: vacuum feedthrough Double bellows;

kind of seal double; edge seal; Helicoflex;

intermediate pumping; VCR 1/4"

Technical data

Leak rate - Valve body $< 1 \cdot 10^{-9}$ mbar Is⁻¹

– Valve seat < 1 · 10⁻⁰ mbar ls⁻¹</p>

Pressure range XUHV to 5 bar (abs)

Differential pressure on the plate - In opening direction ≤ 5 bar

In closing direction ≤ 5 bar

Differential pressure at opening ≤ 1 bar >1 bar with reduced number of cycles

Conductance (molecular flow) 49 Is-1

Cycles until first service

(Maximum values: depending on operating conditions and valve

- Normal conditions

- Extreme conditions

1 000

contamination)

Bake-out temperature – Valve body ≤ 240 °C

(Maximum values: depending on — Actuator ≤ 140 °C (for max. 100h)

operating conditions and sealing — Position indicator ≤ 200 °C materials)

Heating and cooling rate ≤ 10 °C h⁻¹

Material – Valve body AISI 316L ESR – Gate AISI 316L ESR

- Bellows AISI 316L

Actuator
 AISI 303; AISI 6150, aluminium

Seal – Bonnet metal, silver plated – Gate metal, silver plated

- Actuator EPDM

Mounting position any

Radiation resistance – Valve body 10⁸ Gy (10¹⁰ rad) – Actuator 10⁶ Gy (10⁸ rad)

Position indicators
 10⁶ Gy (10⁸ rad)

² Extreme conditions: External pressure 0.2 MPa, pressure inside valve 0 MPa, bellows interspace pressure 0 MPa, temperature 100 °C

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Normal conditions: External pressure 0.1 MPa, pressure inside valve 0 MPa, bellows interspace pressure 0.05 MPa temperatures ambient.



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Valve stays closed

≤ 150 mT Maximum magnetic field levels

Volume of pneumatic actuator 0.26 I / 0.009 ft3

Compressed air 6 - 9 bar / 87 - 131 psi

min. - max. overpressure

Compressed air connection G 1/8" / (USA: 1/8" NPT)

Actuation time Closing ≤ 2.0 sec - Opening ≤ 2.0 sec

- Valve complete Weight 10.1 kg / 22.3 lbs

> Actuator 5.5 kg / 12.1

Behavior in case of compressed

- Valve closed air pressure drop

Valve open Valve closes

Behavior in case of power failure Valve closed Depends on control

- Valve open Depends on control

Related documents

Dimensional drawing No. 1147589 Rev A STEP file No 1147588 Rev A

Electrical connections

Position indicator (2x)

Micro switch Type Voltage ≤ 50 V AC/DC

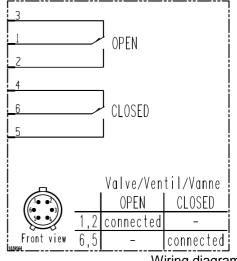
Current max. ≤ 1.0 A

Connector on the valve: 8070-2530-02Z16-6PA

Mating connector:* 8070-3039-01Z16-6KA

(pins compatible with

AWG 20 wire)



Wiring diagram

References

The product data are based on either VAT internally/externally performed lab tests or supplier product information. Relevant references listed on document 838738.

*The mating connector is not part of the valve and needs to be ordered separately at Glenair.

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