

Product data sheet All-metal angle valve, Series 571, DN 16 Ordering No. 57124-RE21-AIZ1

Description

Weld neck N.D. 15 schedule 10S Flange

Actuator Pneumatic single acting with closing spring

> - without solenoid valve with position indicator

Feed through **Bellows**

Option AIZ =Product: valve type ITER 4;

Flange A+B: weld stub flange schedule 10S;

Actuator: radiation resistant 106 Gy;

Position indicator: double; 200 °C; Glenair 6 pin connector; 125 °C; radiation resistant 106 Gy;

Technical data

contamination)

- Valve body $< 1 \cdot 10^{-9} \text{ mbar Is}^{-1}$ Leak rate (Test method acc. VAT Standard - Valve seat $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ N-2100; He/air mix, $\Delta P = 1$ bar)

Pressure range XUHV to 5 bar (abs)

Test pressure 1 bar Differential pressure on the gate ≤ 5 bar

Differential pressure at opening ≤ 1 bar, > 1 bar with reduced cycle life

Conductance (molecular flow) 4 Is-1

- Normal conditions1 20 000 Cycles until first service (Maximum values: depending on - Extreme conditions² 1 000 operating conditions and valve

- Valve body ≤ 240 °C Bake-out temperature

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

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

≤ 10 °C h⁻¹ Heating and cooling rate

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

> - Bellows **AISI 316 L**

- Actuator AISI 303; AISI 6150; aluminium

metal, silver plated Seal - Bonnet metal, silver plated

- Gate **EPDM**

- Actuator

Mounting position any

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

- Position indicators 106 Gy (108 rad)

≤ 150 mT Maximum magnetic field levels

Normal conditions: External pressure 0.1 MPa, pressure inside valve 0 MPa, bellows interspace pressure 0.05 MPa temperatures ambient.
Extreme conditions: External pressure 0.2 MPa, pressure inside valve 0 MPa, bellows interspace pressure 0 MPa, temperature 100 °C

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Product data sheet All-metal angle valve, Series 571, DN 40 (ID 11/2") Ordering No. 57132-RE21-AIZ1

Volume of pneumatic 0.12 I / 0.004 ft³

actuator

Compressed air 6 - 9 bar / 85 - 130 psig

min. - max. overpressure

Compressed air connections R 1/4" (USA: 1/4" NPT)

Actuation time ≤ 1.0 sec - Closing (valid for RT, Ø6mm tubing at 4 bar with ≤ 1.0 sec - Opening flow rate of 400 l/min)

Weight 3.0 kg / 6.6 lbs - Valve complete

Behavior in case of Valve remains in closed position - Valve closed

compressed air pressure Valve closes - Valve open drop

Behavior in case of power

Depending on control failure

Related documents

Dimensional drawing No. 948059 Rev A STEP file No. 948058 Rev A

Electrical connections

Position indicator (2x)

Type micro switch 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)

3 1 2 4 6		OPEN CLOSED	
Front view	1,2 6,5	Valve/Ven OPEN connected -	til/Vanne CLOSED - connected

Wiring diagram

References

The product data is 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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