

# Product data sheet All-metal angle valve, Series 571, DN 16 (ID 5/8") Ordering No. 57124-RE21-AJK1

# **Description**

Weld neck N.D. 16 schedule 40S Flange

Actuator Pneumatic, single acting with closing spring

> without solenoid valve with position indicator 200°C

Feedthrough **Bellows** 

**Options** Product: valve type ITER 4;

Flange A+B: weld stub flange schedule 40S

Actuator: radiation resistant 106 Gy;

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

#### **Technical data**

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

< 1 · 10<sup>-9</sup> mbar ls<sup>-1</sup> - Valve seat

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) 4 Is-1

Cycles until first service - Normal conditions1 20 000 (Maximum values: depending on Extreme conditions<sup>2</sup> 1 000 operating conditions and valve

contamination)

 Valve body ≤ 240 °C Bake-out temperature

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

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

Heating and cooling rate

≤ 10 °C h<sup>-1</sup>

Material Valve body AISI 316L ESR

- Gate AISI 316L ESR - Bellows **AISI 316L** 

- 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

10<sup>6</sup> Gy (10<sup>8</sup> rad) - Actuator - Position indicators 106 Gy (108 rad)

≤ 150 mT Maximum magnetic field levels

<sup>&</sup>lt;sup>2</sup> Extreme conditions: External pressure 0.2 MPa, pressure inside valve 0 MPa, bellows interspace pressure 0 MPa, temperature 100 °C

Created by: Kurt Sonderegger	Release date: 23.10.2019	1/2
Modified by: Phil Schneider	Release date: 12.02.2021	1008738EB

<sup>1</sup> Normal conditions: External pressure 0.1 MPa, pressure inside valve 0 MPa, bellows interspace pressure 0.05 MPa temperatures ambient



# Product data sheet All-metal angle valve, Series 571, DN 16 (ID %'') Ordering No. 57124-RE21-AJK1

Volume of pneumatic actuator 0.06 I / 0.002 ft<sup>3</sup>

Compressed air 6-9 bar / 85-130 psi

min. - max. overpressure

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

Actuation time - Closing  $\leq$  2.0 sec (valid for RT, Ø6mm tubing at 4 bar with - Opening  $\leq$  2.0 sec

flow rate of 400 l/min)

Weight — Valve complete 3.1 kg / 6.8 lbs

Actuator
 1.9 kg / 4.2 lbs

Behavior in case of compressed — Valve closed — Valve remains in closed position

air pressure drop – Valve open Valve closes

Behavior in case of power failure - Valve closed - Valve open Depends on control Depends on control

### **Related documents**

Dimensional drawing No. 996578 Rev A STEP file No 996577 Rev A

#### **Electrical connections**

## Position indicator (2x)

Type Micro switch Voltage  $\leq 50 \text{ V AC/DC}$ 

Current max.  $\leq 1.0 \text{ A}$ 

Connector on the valve: 8070-2530-

02Z16-6PA

Mating connector:\*

8070-3039-01Z16-6KA (pins compatible with AWG 20 wire) OPEN

2
4
6
CLOSED
5

Valve/Ventil/Vanne
OPEN CLOSED
1,2 connected Front view 6,5 - connected

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.

Created by: Kurt Sonderegger	Release date: 23.10.2019	2/2
Modified by: Phil Schneider	Release date: 12.02.2021	1008738EB