

## **Product data sheet**

# All-metal angle valve Series 570, DN 63 (ID 2½") Ordering No. 57036-RE21-AJD1

### **Description**

Flange Weld neck N.D. 65 schedule 40S

Actuator Pneumatic, single acting with closing spring

without solenoid valvewith position indicator 200°C

Feedthrough Bellows

Options AJD = Product: valve type ITER 51

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; 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 ls<sup>-1</sup>

– Valve seat < 1 · 10⁻¹ mbar ls⁻¹</p>

Pressure range XUHV to 5 bar (abs)

Differential pressure on the plate - In opening direction  $\le 5$  bar

- In closing direction ≤ 5 bar

Differential pressure at opening  $\leq$  1 bar >1 bar with reduced number of cycles

Conductance (molecular flow) 80 Is-1

Cycles until first service - Norm
(Maximum values: depending on operating conditions and valve - Extre

contamination)

Normal conditions<sup>1</sup> 20 000
 Extreme conditions<sup>2</sup> 1 000

Bake-out temperature – Valve body ≤ 240 °C

materials)

– Position indicator ≤ 200 °C

Heating and cooling rate ≤ 10 °C h<sup>-1</sup>

Material – Valve body AISI 316L ESR

– Gate– BellowsAISI 316L ESR– BellowsAISI 316L

Actuator
 AISI 303; AISI 6150 aluminium

Seal – Bonnet metal, silver plated

– Gate metal, silver plated

ActuatorEPDM

Mounting position any

Radiation resistance – Valve body 10<sup>8</sup> Gy (10<sup>10</sup> rad)

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

<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

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



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≤ 150 mT Maximum magnetic field levels

Volume of pneumatic actuator 0.6 I / 0.021 ft<sup>3</sup>

Compressed air 6 - 9 bar / 87 - 131 psi

min. - max. overpressure

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

Actuation time Closing ≤ 2.0 sec (valid for RT, Ø6mm tubing at 4 bar with - Opening ≤ 2.0 sec flow rate of 400 l/min)

- Valve complete 22.9 kg / 50.5 lbs Weight

- Actuator 10.9 kg / 24.0

Behavior in case of compressed - Valve closed Valve stays 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. 994203 Rev A STEP file No 994202 Rev A

#### **Electrical connections**

#### Position indicator (2x)

Type Micro switch Voltage ≤ 50 V AC/DC

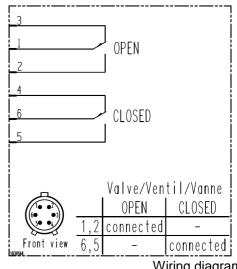
Current max. ≤ 1.0 A

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

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

(pins compatible with

AWG 20 wire)



#### 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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