

Product data sheet

All-metal angle valve Series 570, DN 63 (ID 2½") Ordering No. 57036-XE21-AJF1

Description

Flange ITER style DN 63

Actuator Pneumatic, single acting with closing spring

without solenoid valvewith position indicator 200°C

Feedthrough Bellows

Options AJF = Product: valve type ITER 51;

Flange A+B: type ITER;

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⁻¹

– Valve seat < 1 ⋅ 10⁻⁹ mbar Is⁻¹

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) 87 Is-1

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

contamination)

Bake-out temperature - Valve body \leq 240 °C

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

Heating and cooling rate \leq 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

ActuatorEPDM

Mounting position any

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

Created by: Kurt Sonderegger Release date: 23.10.2019 1/2

Modified by: Phil Schneider Release date: 12.02.2021 1008610EB



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

Position indicators
 10⁶ Gy (10⁸ rad)

Maximum magnetic field levels ≤ 150 mT

Volume of pneumatic actuator 0.6 I / 0.028 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 \leq 2.0 sec (valid for RT, Ø6mm tubing at 4 bar with or rate of 400 l/min) \leq 2.0 sec

Weight – Valve complete 28.5 kg / 62.8 lbs

Actuator10.9 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. 994292 Rev A STEP file No 994291 Rev A

Electrical connections

Position indicator (2x)

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

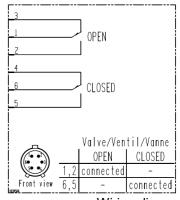
Current max. \leq 1.0 A

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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