

Product data sheet

All-metal angle valve Series 570, DN 63 (ID 2½")

Ordering No. 57036-RE21-AJE1

Description

Flange Weld neck N.D. 65 schedule 10S

Actuator Pneumatic, single acting with closing spring

without solenoid valvewith position indicator 200°C

Feedthrough Bellows

Options AJE = Product: valve type ITER 51

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; 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 ⋅ 10⁻⁹ 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) 80 ls⁻¹

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

contamination)

Bake-out temperature − Valve body ≤ 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

Radiation resistance – Valve body 10⁸ Gy (10¹⁰ rad)

Actuator
Position indicators
10⁶ Gy (10⁸ rad)
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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Modified by: Phil Schneider	Release date: 12.02.2021	1002991EB

¹ 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

0.6 I / 0.021 ft³ Volume of pneumatic actuator

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

Weight - Valve complete 22.8 kg / 50.3 lbs

- Actuator 10.9 kg / 24.0

 Valve closed Valve stays closed Behavior in case of compressed 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. 994254 Rev A STEP file No 994253 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		OPEN	
6		CLOSED	
		Valve/Ven OPEN	til/Vanne CLOSED
Front view	1,2	connected	-
110111 VIEW	6,5	 W	connected iring diagra

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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