



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-metal angle valve Series 570, DN 63 (ID 2½")
Ordering No. 57036-XE22-AJJ1

Description

| | |
|-------------|---|
| Flange | ITER style DN 63 rotatable |
| Actuator | Pneumatic, single acting with opening spring – without solenoid valve – with position indicator 200°C |
| Feedthrough | Bellows |
| Options | AJJ = Product: valve type ITER 52; Flange A+B: type ITER; rotatable; Actuator: radiation resistant 10 ⁶ 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 – Valve seat | < 1 · 10 ⁻⁹ mbar ls ⁻¹ < 1 · 10 ⁻⁹ mbar ls ⁻¹ |
| Pressure range | | XUHV to 5 bar (abs) |
| Differential pressure on the plate | – In opening direction – In closing direction | ≤ 5 bar ≤ 5 bar |
| Differential pressure at opening | | ≤ 1 bar >1 bar with reduced number of cycles |
| Conductance (molecular flow) | | 87 ls ⁻¹ |
| Cycles until first service (Maximum values: depending on operating conditions and valve contamination) | – Normal conditions ¹ – Extreme conditions ² | 20 000 1 000 |
| Bake-out temperature (Maximum values: depending on operating conditions and sealing materials) | – Valve body – Actuator – Position indicator | ≤ 240 °C ≤ 140 °C (for max. 100h) ≤ 200 °C |
| Heating and cooling rate | | ≤ 10 °C h ⁻¹ |
| Material | – Valve body – Gate – Bellows – Actuator | AISI 316L ESR AISI 316L ESR AISI 316L AISI 303; AISI 6150; aluminium |
| Seal | – Bonnet – Gate – Actuator | metal, silver plated metal, silver plated EPDM |
| Mounting position | | any |

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

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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| Created by: Kurt Sonderegger | Release date: 23.10.2019 | 1/2 |
| Modified by: Phil Schneider | Release date: 12.02.2021 | 1008705EB |



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| Radiation resistance | – Valve body | 10 ⁸ Gy (10 ¹⁰ rad) |
| | – Actuator | 10 ⁶ Gy (10 ⁸ rad) |
| | – Position indicators | 10 ⁶ Gy (10 ⁸ rad) |
| Maximum magnetic field levels | | ≤ 150 mT |
| Volume of pneumatic actuator | | 0.45 l / 0.016 ft ³ |
| Compressed air min. – max. overpressure | | 4.8 – 5.8 bar / 70 – 85 psi |
| Compressed air connection | | G ½" / (USA: ½" NPT) |
| Actuation time (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min) | – Closing | ≤ 2.0 sec |
| | – Opening | ≤ 2.0 sec |
| Weight | – Valve complete | 24.3 kg / 53.6 lbs |
| | – Actuator | 6.9 kg / 15.2 lbs |
| Behavior in case of compressed air pressure drop | – Valve closed | Valve opens |
| | – Valve open | Valve stays open |
| Behavior in case of power failure | – Valve closed | Depends on control |
| | – Valve open | Depends on control |

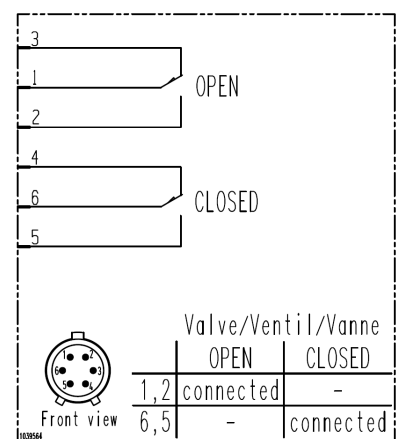
Related documents

Dimensional drawing No. 995083 Rev A
STEP file No 995082 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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