

Product data sheet

All-metal gate valve Series 482, DN 100 (ID 4") Ordering No. 48240-RE24-ARJ1

Description

Weld neck N.D. 100 schedule 10S Flange

Actuator Pneumatic double acting

- without solenoid valve with position indicator

Feed through **Bellows**

Option ARJ = Product: valve type ITER 2;

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

Technical data

contamination)

- Valve body $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ Leak rate (Test method acc. VAT Standard - Valve seat $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ N-2100; He/air mix, $\Delta P = 1$ bar)

Pressure range XUHV to 2 bar (abs)

Test pressure 1 bar Differential pressure on the gate ≤ 2 bar

Differential pressure at opening ≤ 500 mbar, 1 bar with reduced cycle life

Conductance (molecular flow) 450 ls⁻¹

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

- Valve body ≤ 240 °C Bake-out temperature

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

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

≤ 10 °C h⁻¹ Heating and cooling rate

Material - Valve body **AISI 316 L** - Flange AISI 316 L ESR Weld neck **AISI 316 L** - Gate **AISI 316 L**

- Mechanism **AISI 316 L** Bellows **AISI 316 L**

- Actuator AISI 304; aluminium

metal, silver plated Seal Bonnet

> metal, silver plated - Gate

EPDM - Actuator

Mounting position any

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

> - Position indicators 106 Gy (108 rad)

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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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Maximum magnetic field levels ≤ 150 mT

Volume of pneumatic 1.4 I / 0.049 ft³

actuator

failure

Compressed air 4 - 8 bar / 58 - 116 psig

min. - max. overpressure

Compressed air connections % ISO/NPT

Actuation time - Closing $\le 4.0 \text{ sec}$ (valid for RT, Ø6mm tubing at 4 bar with - Opening $\le 4.0 \text{ sec}$

(valid for RT, Ø6mm tubing at 4 bar with - Opening $\leq 4.0 \text{ sec}$ flow rate of 400 l/min)

Weight – Valve complete 30.1 kg / 66.4 lbs – Actuator 4.7 kg / 10.4 lbs

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

compressed air pressure – Valve open Undefined

drop

Behavior in case of power Depending on control

Related documents

Dimensional drawing No. 827895 Rev D STEP file no. 827894 Rev B

Electrical connections

Position indicator (2x)

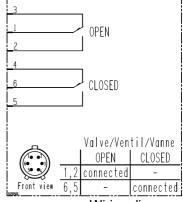
Type micro switch Voltage $\leq 50 \text{ V AC / DC}$

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 is 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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