

Product data sheet

All-metal gate valve, Series 481, DN 40 (ID 11/2") Ordering No. 48132-RE24-ARG1

Description

Weld neck N.D. 40 schedule 10S Flange

Actuator Pneumatic double acting

- without solenoid valve with position indicator

Feed through **Bellows**

Option ARG = Product: valve type ITER 1;

Flange A+B: weld stub flange schedule 10S

Body: double wall body;

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; VATSEAL; intermediate pumping between two bellows, double wall body and double

bonnet seal; VCR 1/4"

Technical data

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

XUHV to 2 bar (abs) Pressure range

Test pressure 1 bar ≤ 2 bar Differential pressure on the gate Differential pressure at opening ≤ 1 bar Conductance (molecular flow) 30 Is-1 - Normal conditions1 20 000 Cycles until first service

(Maximum values: depending on - Extreme conditions² 1 000 operating conditions and valve contamination)

≤ 240 °C - Valve body Bake-out temperature

(Maximum values: depending on ≤ 140 °C (for max. 100h) Actuator operating conditions and sealing

≤ 200 °C - Position indicator 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

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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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Mounting position any

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

106 Gy (108 rad) - Position indicators

≤ 150 mT Maximum magnetic field levels

Volume of pneumatic 0.27 I / 0.010 ft³

actuator

drop

4 - 8 bar / 58 - 116 psig Compressed air

min. - max. overpressure

Compressed air connections 1/8" ISO/NPT

Actuation time ≤ 1.5 sec Closing

(valid for RT, Ø6mm tubing at 4 bar with ≤ 1.5 sec - Opening flow rate of 400 l/min)

Weight 13.6 kg / 30 lbs - Valve complete 1.8 kg / 4 lbs Actuator

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

Undefined compressed air pressure - Valve open

Behavior in case of power

Depending on control failure

Related documents

825794 Rev C Dimensional drawing No. STEP file No. 825793 Rev A

Electrical connections

Position indicator (2x)

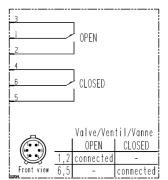
micro switch Type Voltage ≤ 50 V AC / DC

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 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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