

Product data sheet

All-metal gate valve Series 482, DN 160 (ID 6") Ordering No. 48244-RE24-ARH1

Description

Weld neck N.D. 150 schedule 20S Flange

Actuator Pneumatic double acting

- without solenoid valve with position indicator

Feed through **Bellows**

Option ARH = Product: valve type ITER 1;

Flange A+B: weld stub flange schedule 20S;

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

 $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ - 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 ≤ 500 mbar, 1 bar with reduced cycle life

Conductance (molecular flow) 1 500 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

- 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 - Bonnet Seal

metal, silver plated Gate

EPDM Actuator

| Created by: Phil Schneider | Release date: 05.06.2020 | 1/2 |
|-----------------------------|--------------------------|----------|
| Modified by: Phil Schneider | Release date: 05.02.2021 | 846824EB |

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



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Mounting position any

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

- Position indicators 10° Gy (10° rad)

Maximum magnetic field levels ≤ 150 mT

Volume of pneumatic 4.3 I / 0.152 ft³

actuator

drop

Compressed air 4 - 8 bar / 58 - 116 psig

min. – max. overpressure

Compressed air connections 1/8" ISO/NPT

Actuation time
- Closing ≤ 9.0 sec

(valid for RT, Ø6mm tubing at 4 bar with Opening ≤ 9.0 sec flow rate of 400 l/min)

Weight - Valve complete 70.8 kg / 156.1 lbs - Actuator 8.6 kg / 19 lbs

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

compressed air pressure – Valve open Undefined

Behavior in case of power failure

Depending on control

Related documents

Dimensional drawing No. 824513 Rev A STEP file No. 824512 Rev A

Electrical connections

Position indicator (2x)

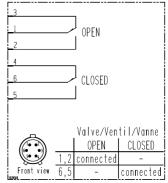
Type micro switch Voltage $\leq 50 \text{ V AC / DC}$

Current max. $\leq 1.0 \text{ A}$

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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