

Product data sheet

All-metal gate valve Series 482, DN 160 (ID 6")

Ordering No. 48244-CE24-APW1

Description

CF-F 160 Flange

Actuator Pneumatic double acting

> - without solenoid valve - with position indicator

Feed through **Bellows**

Option APW = Product: valve type ITER 2;

Actuator: radiation resistant 106 Gy;

Position indicator: double; 200 °C; Glenair 6 pin connector; 125 °C; radiation resistant 106 Gy

Technical data

contamination)

 $< 1 \cdot 10^{-9} \text{ mbar Is}^{-1}$ Leak rate - Valve body (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) 4 200 Is-1

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

Bake-out temperature - Valve body ≤ 240 °C

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

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

Heating and cooling rate ≤ 10 °C h⁻¹

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

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

- Actuator AISI 304; aluminium Seal

metal, silver plated Bonnet metal, silver plated - Gate

> **EPDM** - Actuator

Mounting position any

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

106 Gy (108 rad) - Position indicators

≤ 150 mT Maximum magnetic field levels

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

Created by: SCPH	Release date: 2014-05-21	1 of 2
Modified by: Phil Schneider	Release date: 03.06.2020	751309EC.DOCX



Product data sheet

All-metal gate valve Series 482, DN 160 (ID 6") Ordering No. 48244-CE24-APW1

Volume of pneumatic 4.3 I / 0.152 ft³

actuator

Compressed air 4 - 8 bar / 58 - 116 psig

min. - max. overpressure

Compressed air connections

½" ISO/NPT

Actuation time – Closing ≤ 9.0 sec

(valid for RT, Ø6mm tubing at 4 bar with - Opening $\leq 9.0 \text{ sec}$ flow rate of 400 l/min)

Weight - Valve complete 41 kg / 90.4 lbs - Actuator 8.6 kg / 19 lbs

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

compressed air pressure — Valve open Undefined drop

Behavior in case of power

failure

Depending on control

Related documents

Dimensional drawing No. 749544 Rev C STEP file No. 749543 Rev B

Electrical connections

Position indicator (2x)

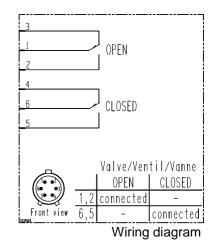
Type micro switch Voltage $\leq 50 \text{ V AC / DC}$

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)



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.

Created by: Phil Schneider	Release date: 08.06.2020	2/2
Modified by: Phil Schneider	Release date: 05.02.2021	751309EC