

## **Product data sheet** All-metal gate valve, Series 482, DN 100 (ID 4") Ordering No. 48240-CE72-0002

## **Description**

DN 100 CF-F Flange

Actuator Pneumatic double acting, compact

- without solenoid valve

- with position indicator

Feed through **Bellows** Option Standard

#### **Technical data**

 $< 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$  Valve body Leak rate

< 1 · 10<sup>-10</sup> mbar ls<sup>-1</sup> - Valve seat

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) 1 400 ls<sup>-1</sup> 20 000 Cycles until first service

Bake-out temperature Valve body ≤ 300 °C

(Maximum values: depending on - Actuator ≤ 200 °C (for max. 100h) operating conditions and sealing

- Position indicator ≤ 80 °C materials)

Heating and cooling rate

Material Valve body 1.4435, AISI 316 L

> Flange 1.4435 ESU, AISI 316 L ESR

≤ 50 °C h<sup>-1</sup>

- Gate 1.4435, AISI 316 L Mechanism 1.4435, AISI 316 L 1.4435, AISI 316 L Bellows

metal, silver plated Seal Bonnet metal, silver plated Gate

FKM (Viton®) Actuator

Mounting position any

10<sup>8</sup> Gy (10<sup>10</sup> rad) 10<sup>5</sup> Gy (10<sup>7</sup> rad) Radiation resistance Valve body

Actuator 10<sup>5</sup> Gy (10<sup>7</sup> rad) Position indicators

1.4 I / 0.049 ft<sup>3</sup> Volume of pneumatic

actuator

4 - 8 bar / 58 - 116 psig Compressed air

min. - max. overpressure

Compressed air connections R 1/8" (USA: 1/8" NPT)

≤ 4.0 sec Actuation time Closing (valid for RT, Ø6mm tubing at 4 bar with

≤ 4.0 sec - Opening flow rate of 400 l/min)

Created by: Daniel Brandner	Release date: 2009-04-14	1 of 2
Modified by: René Brulc	Release date: 2014-02-21	279153EC



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Weight 27 kg / 60 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

failure

**Related documents** 

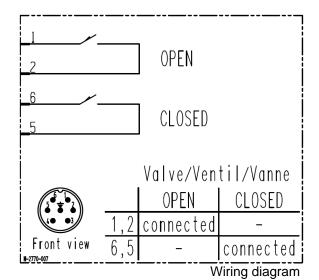
Dimensional drawing No. 400589A

### **Electrical connections**

#### **Position indicator**

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

Current max.  $\leq$  1.2 A



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