

## Product data sheet All-metal gate valve, Series 481, DN 200 (ID 8") Ordering No. 48146-CE24-0003

## **Description**

DN 200 CF-F Flange

Actuator Pneumatic double acting

- 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

XUHV to 2 bar (abs) Pressure range

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

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

Conductance (molecular flow) 6 900 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

≤ 25 °C h<sup>-1</sup>

Material Valve body 1.4435, AISI 316 L

Flange 1.4435 ESU, AISI 316 L ESR

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

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

- Position indicator 8.3 I / 0.292 ft<sup>3</sup>

Volume of pneumatic

actuator

Compressed air 4 - 8 bar / 58 - 116 psig

min. - max. overpressure

Compressed air connections R 1/4" (USA: 1/4" NPT)

| Created by: Daniel Brandner | Release date: 2010.02.12     | 1 of 2   |
|-----------------------------|------------------------------|----------|
| Modified by: Martin Greuter | Release date: 23. April 2014 | 283005EB |



# Product data sheet All-metal gate valve, Series 481, DN 200 (ID 8") Ordering No. 48146-CE24-0003

Actuation time - Closing  $\leq 15.0 \text{ sec}$  (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min)  $\leq 15.0 \text{ sec}$ 

Weight 88 kg / 194 lbs

Behavior in case of — Valve closed Valve remains in closed position compressed air pressure — Valve open Undefined

drop

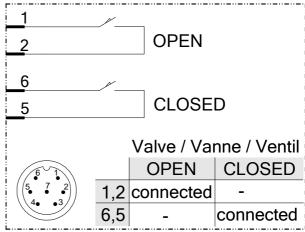
Behavior in case of power – Valve closed – Valve open Depends on control Depends on control

**Related documents** 

Dimensional drawing No. 435003

### **Electrical connections**

### **Position indicator**



Wiring diagram

| V. |  |
|----|--|

| Modified by: Martin Greuter | Release date: 23. April 2014 | 283005EB |
|-----------------------------|------------------------------|----------|
| Created by: Daniel Brandner | Release date: 2010.02.12     | 2 of 2   |