

Product data sheet All-metal gate valve, Series 481, DN 250 (ID 10") Ordering No. 48148-CE24-0001

Description

DN 250 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 · 10⁻¹⁰ mbar ls⁻¹ - Valve seat

XUHV to 2 bar (abs) Pressure range

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

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

Conductance (molecular flow) 12 700 ls⁻¹

Cycles until first service 5 000

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⁻¹

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 Beam tube horizontal, actuator up or down

10⁸ Gy (10¹⁰ rad) Radiation resistance - Valve body 10⁵ Gy (10⁷ rad) 10⁵ Gy (10⁷ rad) Actuator

- Position indicator 10.7 I / 0.376 ft³

Volume of pneumatic

Compressed air

actuator

4 - 8 bar / 58 - 116 psig

min. - max. overpressure

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

Created by: Martin Greuter	Release date: 14.07.2014	1/2
Modified by:	Release date:	757077EA



Product data sheet All-metal gate valve, Series 481, DN 250 (ID 10") Ordering No. 48148-CE24-0001

Actuation time - Closing $\le 20.0 \text{ sec}$ (valid for RT, Ø6mm tubing at 4 bar with flow rate of 400 l/min) - Opening $\le 20.0 \text{ sec}$

Weight 156 kg / 344 lbs

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

drop – Valve open Onden

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

Related documents

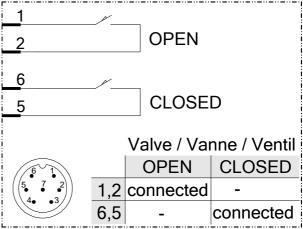
Dimensional drawing No. 225120 D

Electrical connections

Position indicator

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

Current max. \leq 1.2 A



Wiring diagram

Created by: Martin Greuter	Release date: 14.07.2014	2/2
Modified by:	Release date:	757077EA