

# Product data sheet All-metal gate valve, Series 481, DN 40 (ID 1½") Ordering No. 48132-CE44-0002

## **Description**

Flange DN 40 CF-F

Actuator Pneumatic double acting

with solenoid valvewith position indicator

Feed through Bellows
Option = Standard

#### **Technical data**

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

- Valve seat  $< 1 \cdot 10^{-10}$  mbar Is<sup>-1</sup>

Pressure range XUHV to 2 bar (abs)

Test pressure 1 bar

Differential pressure on the gate ≤ 2 bar

Differential pressure at opening ≤ 1bar

Conductance (molecular flow) 100 Is<sup>-1</sup>

Cycles until first service 20 000

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 — Solenoid ≤ 80 °C

Heating and cooling rate ≤ 50 °C h<sup>-1</sup>

Material – Valve body 1.4435, AISI 316 L

Flange 1.4435 ESU, AISI 316 L ESR

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

Seal – Bonnet metal, silver plated

Gate metal, silver plated
 Actuator FKM (Viton<sup>®</sup>)

Mounting position any

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

Volume of pneumatic 0.27 I / 0.01 ft<sup>3</sup>

actuator

Compressed air 4 - 8 bar / 58 - 116 psig

min. - max. overpressure

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

Created by: Kurt Sonderegger  Modified by: Martin Greuter	Release date: 02.06.04  Release date: 04. February 2014	1 of 2
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# **Product data sheet** All-metal gate valve, Series 481, DN 40 (ID 11/2") Ordering No. 48132-CE44-0002

Actuation time - Closing (valid for RT, Ø6mm tubing at 4 bar with

Opening

≤ 1.5 sec

flow rate of 400 l/min)

≤ 1.5 sec

Weight

7.2 kg / 16 lbs

Behavior in case of compressed air pressure

- Valve closed - Valve open

Valve remains in closed position

Undefined

drop

Behavior in case of power

failure

- Valve closed - Valve open

Valve remains in closed position

Valve closes

### Related documents

Dimensional drawing No. 79043C

### **Electrical connections**

#### **Position indicator**

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

Current max. ≤ 1.2 A

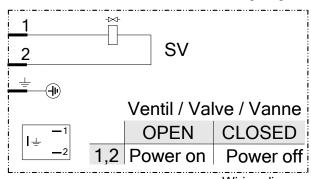
1	_/			
2		OPEN		
6	_/ <u></u>			
5		CLOSE	D	
Valve / Vanne / Ventil				
6 1		OPEN	CLOSED	
$ \begin{pmatrix} 5 & 7 & 2 \\ 4 & 3 \end{pmatrix} $	1,2	connected	-	
	6,5	_	connected	

Wiring diagram

#### Solenoid

Voltage according to PO

Power consumption  $\leq$  2.5 W



Wiring diagram

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