



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**All-metal gate valve, Series 482, DN 100 (ID 4")**  
**Ordering No. 48240-CE01-0003**

### Description

Flange	DN100 CF-F
Actuator	Manual actuator
Feedthrough	Bellows
Options	

### Technical data

Leak rate	- Valve body	$< 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$
	- Valve seat	$< 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$
Pressure range		XUHV to 2 bar (abs)
Differential pressure on the plate	- In opening direction	$\leq 2 \text{ bar}$
	- In closing direction	$\leq 2 \text{ bar}$
Differential pressure at opening		$\leq 500 \text{ mbar}$ [1 bar with reduced number of cycles]
Conductance (molecular flow)		$1'400 \text{ ls}^{-1}$
Cycles until first service		20'000
Temperature	- Valve body	$\leq 300 \text{ }^\circ\text{C}$
(Maximum values: depending on operating conditions and sealing materials)	- Actuator	$\leq 140 \text{ }^\circ\text{C}$
Heating and cooling rate		$50 \text{ }^\circ\text{C h}^{-1}$
Material	- Valve body	AISI 316L (1.4435)
	- Flange	AISI 316L ESR (1.4435 ESU)
	- Gate	AISI 316L (1.4435)
	- Mechanism	AISI 316L (1.4435)
	- Bellows	AISI 316L (1.4435)
Seal	- Bonnet	metal
	- Gate	metal
Radiation resistance	- Valve	$10^8 \text{ Gy}$ ( $10^{10} \text{ rad}$ )
	- Actuator	$10^5 \text{ Gy}$ ( $10^7 \text{ rad}$ )
Turns per stroke		46
Weight		app. 24 kg / 54 lbs

Created by: SKUKurt Sonderegger	Release date: 05.02.201605.02.2016	1/1
Modified by:	Release date:	<b>830166EA</b>