



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**All-metal gate valve, Series 482, DN 100 (ID 4'')**  
**Ordering No. 48240-CE08-0003**

### Description

Flange	DN 100 CF-F
Actuator	Manual - with position indicator
Feed through	Bellows

### 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)
Test pressure		1 bar
Differential pressure on the gate		$\leq 2 \text{ bar}$
Differential pressure at opening		$\leq 500 \text{ mbar}$ , 1 bar with reduced cycle life
Conductance (molecular flow)		$1\,400 \text{ ls}^{-1}$
Cycles until first service		20 000
Bake-out temperature (Maximum values: depending on operating conditions and sealing materials)	- Valve body	$\leq 300 \text{ }^\circ\text{C}$
	- Actuator	$\leq 80 \text{ }^\circ\text{C}$
	- Position indicator	$\leq 80 \text{ }^\circ\text{C}$
Heating and cooling rate		$\leq 50 \text{ }^\circ\text{C h}^{-1}$
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
Seal	- Bonnet	metal, silver plated
	- Gate	metal, silver plated
Mounting position		any
Radiation resistance	- Valve body	$10^8 \text{ Gy}$ ( $10^{10} \text{ rad}$ )
	- Actuator	$10^5 \text{ Gy}$ ( $10^7 \text{ rad}$ )
	- Position indicator	$10^5 \text{ Gy}$ ( $10^7 \text{ rad}$ )
Turns per stroke		46
Weight		23.5 kg / 52 lbs

Created by: BRR	Release date: 24.02.2016	1/2
Modified by:	Release date:	<b>832902EA</b>



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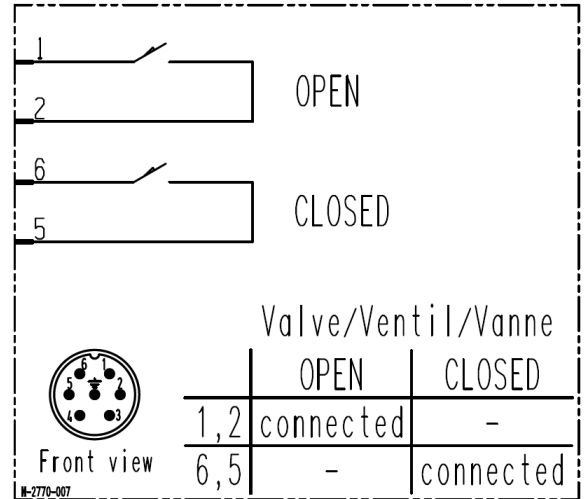
### Related documents

Dimensional drawing No. 358176 C

### Electrical connections

#### Position indicator

Type micro switch  
Voltage  $\leq 50$  V AC / DC  
Current max.  $\leq 1.2$  A



Wiring diagram

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