



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**All-Metal Gate Valve, Series 48.1, DN 200 (ID 8")**

**OSL-Article No. 48146-CE01-0003**

### Description

Flange	DN 200 CF-F
Actuator	manual actuator
Feedthrough	bellows

### Technical data

Leak rate	
- To the outside	$< 1 \cdot 10^{-10}$ mbar ls <sup>-1</sup>
- Seat	$< 1 \cdot 10^{-10}$ mbar ls <sup>-1</sup>
Molecular flow conductance	8100 ls <sup>-1</sup>
Pressure range	XUHV to 2 bar (abs)
Test pressure	1 bar
Differential pressure on the gate	
- in closing and opening direction	2 bar
Max. differential pressure at opening	
- in closing and opening direction	500 mbar, 1 bar with reduced cycle life
Cycles until first service	20'000
Bake-out temperature	
- Valve	≤ 300°C
- Actuator	≤ 140°C
Heating and cooling rate	30°C h <sup>-1</sup>
Material	
- Body	1.4435, AISI 316 L
- Flange	1.4435 ESU, AISI 316 L ESR
- Gate	1.4435, AISI 316 L
- Mechanism (in contact with media)	1.4435, AISI 316 L
- Bellows	1.4435, AISI 316 L
Seal	
- Bonnet	metal
- Gate	metal
Mounting position	any
Radiation resistance	
- Valve	10 <sup>8</sup> Gy (10 <sup>10</sup> rad)
- Actuator	10 <sup>5</sup> Gy (10 <sup>7</sup> rad)
Turns per stroke	63
Dimensional drawing	461687
Weight	78 kg / 170 lbs

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