



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

All-Metal Gate Valve, Series 48.1, DN 16 (ID 5/8")

OSL-Article No. 48124-CE01-0001

Description

Flange	DN 16 CF-F
Actuator	manual actuator
Feedthrough	bellows

Technical data

Leak rate	
- To the outside	$< 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$
- Seat	$< 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$
Molecular flow conductance	10 ls^{-1}
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	1 bar
Cycles until first service	20'000
Bake-out temperature	
- Valve	300°C
- Actuator	200°C
Heating and cooling rate	80°C h^{-1}
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	$10^8 \text{ Gy (} 10^{10} \text{ rad)}$
- Actuator	$10^5 \text{ Gy (} 10^7 \text{ rad)}$
Turns per stroke	19
Weight	3.0 kg / 6.6 lbs

Dimensions

Dimensional drawing No. 98770

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