



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

UHV gate valve, Series 108, DN 250 (ID 10'')
Ordering No. 10848-TE14

Description

Flange	ASA-LP 250
Actuator	pneumatic, double acting
Feedthrough	Bellows

Technical data

Leak rate	- Valve body	$< 5 \cdot 10^{-10} \text{ mbar ls}^{-1}$
	- Valve seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
Pressure range		$1 \cdot 10^{-10} \text{ mbar}$ to 1.2 bar (abs)
Differential pressure on the gate		$\leq 1.2 \text{ bar}$
Differential pressure at opening		$\leq 30 \text{ mbar}$
Conductance (molecular flow)		$20\,000 \text{ ls}^{-1}$
Cycles until first service		50 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	- Valve Body	$\leq 250 \text{ }^\circ\text{C}$ open / $\leq 200 \text{ }^\circ\text{C}$ closed (bake-out max. 24h)
	- Actuator	$\leq 200 \text{ }^\circ\text{C}$
Heating and cooling rate		$50 \text{ }^\circ\text{C h}^{-1}$
Material (main components)	- Valve Body	AISI 304 (1.4301)
	- Mechanism	AISI 316L (1.4404), AISI 304 (1.4301)
	- Bellows	AISI 316L (1.4404, 1.4435)
Seal	- Bonnet	metal
	- Gate	FKM (Viton [®]), O-ring
	- Actuator	FKM (Viton [®]), NBR
Mounting position		any
Volume of pneumatic actuator		0.35 l / 0.0122 ft ³
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		1/8" ISO / NPT
Actuation time	- closing	4 s
	- opening	4 s
Weight		50 kg / 110 lbs
Behavior in case of compressed air pressure drop	- Valve closed	valve remains closed
	- Valve open	undefined
Behavior in case of power failure	- Valve closed	depending on customer installation
	- Valve open	depending on customer installation

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