



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**UHV gate valve, Series 108, DN 63 (ID 2½'')**  
**Ordering No. 10836-PE14**

### Description

Flange	ISO-F 63
Actuator	pneumatic, double acting
Feedthrough	Bellows

### Technical data

Leak rate	– Valve body	$< 5 \cdot 10^{-10}$ mbar ls <sup>-1</sup>
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-10}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		$\leq 1.6$ bar
Differential pressure at opening		$\leq 30$ mbar
Conductance (molecular flow)		600 ls <sup>-1</sup>
Cycles until first service		50 000 (unheated and under clean conditions)
Temperature	– Valve Body	$\leq 250$ °C open / $\leq 200$ °C closed (bake-out max. 24h)
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	$\leq 200$ °C
Heating and cooling rate		50 °C h <sup>-1</sup>
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®), vulcanized
	– Actuator	FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.08 l / 0.0028 ft <sup>3</sup>
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		½" ISO / NPT
Actuation time	– closing	1 s
	– opening	1 s
Weight		9 kg / 20 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	

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