



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Low particle UHV gate valve, Series 152, DN 200 (8")**  
**Ordering No. 15246-PE24-0004**

### Description

Flange	ISO-F 200
Actuator	Pneumatic, double acting – with position indicator
Feedthrough	Bellows

### Technical data

Leak rate	– Valve body – Valve seat	$< 5 \cdot 10^{-10}$ mbar ls <sup>-1</sup> $< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-10}$ mbar to 1 bar (abs)
Differential pressure on the plate	– In opening direction – In closing direction	$\leq 1.2$ bar
Differential pressure at opening		$\leq 30$ mbar
Conductance (molecular flow)		12 000 ls <sup>-1</sup>
Cycles until first service		500 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve Body – Actuator – Position indicator	$\leq 250$ °C open / $\leq 200$ °C closed (bake-out max. 24h) $\leq 100$ °C $\leq 80$ °C
Heating and cooling rate		50 °C h <sup>-1</sup>
Material	– Valve Body – Gate – Bellows	AISI 304 (1.4301) AISI 304 (1.4301) AISI 633 (AM350)
Seal	– Bonnet – Gate – Actuator	metal FKM (Viton®), vulcanized FKM (Viton®)
Mounting position		Any
Volume of pneumatic actuator		1.08 l / 0.038 ft <sup>3</sup>
Compressed air min. – max. overpressure		According dimensional drawing
Compressed air connection		According dimensional drawing
Actuation time	– closing – opening	$\leq 6.0$ s $\leq 6.0$ s
Weight		36.4 kg / 80.2 lbs

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