



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Vacuum gate valve, Series 121, DN 63 (ID 2½")**  
**Ordering No. 12136-PA03**

### Description

Flange	ISO-F 63
Actuator	manual
Feedthrough	Shaft feedthrough

### Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-7}$ 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)		400 ls <sup>-1</sup>
Cycles until first service		5 000 (unheated and under clean conditions)
Temperature	– Valve body	$\leq 120$ °C
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	$\leq 80$ °C
Heating and cooling rate		30 °C h <sup>-1</sup>
Material	– Valve body	EN AW-5083 (3.3547)
	– Gate	AISI 304 (1.4301)
	– Mechanism	AISI 301 (1.4310), AISI 304 (1.4301), AISI 420 (1.4034)
	– Shaft feedthrough	AISI 303 (1.4305)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), O-ring
Mounting position		any
Weight		3.4 kg / 7.5 lbs

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