



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum gate valve, Series 121, DN 100 (ID 4'')
Ordering No. 12140-JA03

Description

Flange	JIS 100
Actuator	manual
Feedthrough	Shaft feedthrough

Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-7}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		≤ 1.6 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		2 000 ls ⁻¹
Cycles until first service		5 000 (unheated and under clean conditions)
Temperature	– Valve body	≤ 120 °C
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	≤ 80 °C
Heating and cooling rate		30 °C h ⁻¹
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		5.3 kg / 11.7 lbs

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