



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum gate valve, Series 121, DN 80 (ID 3")
Ordering No. 12138-PA14

Description

Flange	ISO-F 80
Actuator	Pneumatic, double acting
Feedthrough	Shaft feedthrough

Technical data

Leak rate	<ul style="list-style-type: none">– Valve body– Valve seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
Pressure range		$1 \cdot 10^{-7} \text{ mbar}$ to 1.6 bar (abs)
Differential pressure on the gate		$\leq 1.6 \text{ bar}$
Differential pressure at opening		$\leq 30 \text{ mbar}$
Conductance (molecular flow)		$1\,000 \text{ ls}^{-1}$
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	<ul style="list-style-type: none">– Valve body– Actuator	$\leq 120 \text{ }^{\circ}\text{C}$ $\leq 80 \text{ }^{\circ}\text{C}$
Heating and cooling rate		$30 \text{ }^{\circ}\text{C h}^{-1}$
Material	<ul style="list-style-type: none">– Valve body– Mechanism	EN AW-5083 (3.3547), -6061 (3.3211) AISI 304 (1.4301)
Seal	<ul style="list-style-type: none">– Bonnet– Gate– Actuator	FKM (Viton®) FKM (Viton®), O-ring FKM (Viton®), NBR (BUNA N)
Mounting position		any
Volume of pneumatic actuator		0.2 l / 0.007 ft ³
Compressed air min. – max. overpressure		4–7 bar / 58–102 psi
Compressed air connection		M5 (10–32 UNF suitable)
Actuation time	<ul style="list-style-type: none">– closing– opening	1.7 s 1.7 s
Weight		3.8 kg / 9.0 lbs
Behavior in case of compressed air pressure drop	<ul style="list-style-type: none">– Valve closed– Valve open	<ul style="list-style-type: none">– valve remains closed– undefined
Behavior in case of power failure	<ul style="list-style-type: none">– Valve closed– Valve open	<ul style="list-style-type: none">– depending on customer installation– depending on customer installation

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