



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Vacuum gate valve, Series 121, DN 160 (ID 6")
Ordering No. 12144-JA14

Description

Flange	JIS 160
Actuator	Pneumatic, double acting
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)		5 800 ls ⁻¹
Cycles until first service		100 000 (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 AC-42100 (3.2371)
	– Mechanism	EN AW-6082 (3.2315)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), O-ring
	– Actuator	FKM (Viton®), NBR (BUNA N)
Mounting position		any
Volume of pneumatic actuator		0.5 l / 0.018 ft ³
Compressed air min. – max. overpressure		4–7 bar / 58–102 psi
Compressed air connection		M5 (10–32 UNF suitable)
Actuation time	– closing	2.0 s
	– opening	2.0 s
Weight		9.0 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	– depending on customer installation

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