

## Product data sheet Vacuum gate valve, Series 121, DN 100 (ID 4'') Ordering No. 12140-JA14

Description		
Flange		JIS 100
Actuator		Pneumatic, double acting
Feedthrough		Shaft feedthrough
Technical data		
Leak rate	<ul><li>Valve body</li><li>Valve seat</li></ul>	< 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup> < 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup>
Pressure range		1 · 10 <sup>-7</sup> 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 <sup>-1</sup>
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	<ul><li>Valve body</li><li>Actuator</li></ul>	≤ 120 °C ≤ 80 °C
Heating and cooling rate		30 °C h <sup>-1</sup>
Material	<ul><li>Valve body</li><li>Mechanism</li></ul>	EN AW-5083 (3.3547), -6061 (3.3211) AISI 304 (1.4301)
Seal	– Bonnet – Gate – Actuator	FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> ), O-ring FKM (Viton <sup>®</sup> ), NBR (BUNA N)
Mounting position		any
Volume of pneumatic actuator		0.22 l / 0.008 ft <sup>3</sup>
Compressed air min. – max. overpressure		4-7 bar / 58-102 psi
Compressed air connection		M5 (10–32 UNF suitable)
Actuation time	<ul><li>closing</li><li>opening</li></ul>	2.0 s 2.0 s
Weight		5.2 kg / 11.5 lbs
Behavior in case of compressed air pressure drop	<ul><li>Valve closed</li><li>Valve open</li></ul>	<ul><li>valve remains closed</li><li>undefined</li></ul>
Behavior in case of power failure	<ul><li>Valve closed</li><li>Valve open</li></ul>	<ul> <li>depending on customer installation</li> <li>depending on customer installation</li> </ul>

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