

# Product data sheet Vacuum gate valve, Series 121, DN 160 (ID 6'') Ordering No. 12144-JA44

Description		
Flange		JIS 160
Actuator		Pneumatic, double acting – with solenoid valve – with position indicator
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)		6 000 ls <sup>-1</sup>
Cycles until first service		100 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	<ul> <li>Valve body</li> <li>Actuator</li> <li>Solenoid valve</li> <li>Position indicator</li> </ul>	≤ 120 °C ≤ 80 °C ≤ 50 °C ≤ 80 °C
Heating and cooling rate		30 °C h <sup>-1</sup>
Material	<ul><li>Valve body</li><li>Mechanism</li></ul>	EN AC-42100 (3.2371) EN AW-6082 (3.2315)
Seal	<ul><li>Bonnet</li><li>Gate</li><li>Actuator</li></ul>	FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> ), O-ring FKM (Viton <sup>®</sup> ), NBR (BUNA N <sup>®</sup> )
Mounting position		any
Volume of pneumatic actuator		0.5 I / 0.018 ft <sup>3</sup>
Compressed air min. – max. overpressure		4-7 bar / 58-102 psi
Compressed air connection		G 1⁄8" (1⁄8" NPT for USA)
Actuation time	<ul><li>closing</li><li>opening</li></ul>	2.0 s 2.0 s
Weight		9.0 kg / 20 lbs

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## **Product data sheet** Vacuum gate valve, Series 121, DN 160 (ID 6")

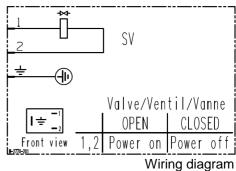
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Behavior in case of compressed air pressure drop	<ul><li>Valve closed</li><li>Valve open</li></ul>	<ul> <li>valve remains closed</li> <li>undefined</li> </ul>	
Behavior in case of power failure	<ul><li>Valve closed</li><li>Valve open</li></ul>	<ul><li>valve remains closed</li><li>valve closes</li></ul>	

### **Electrical connections**

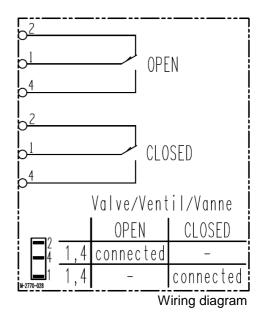
#### Solenoid valve

Туре Voltage 4/2 way Defined by order



#### **Position indicator**

Туре	Micro Switch	
Voltage	$\leq$ 250 V AC	$\leq$ 50 V DC
Current max.	$\leq$ 2.0 A	≤ 1.2 A



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