

Product data sheet Vacuum gate valve, Series 121, DN 100 (ID 4") Ordering No. 12140-PA24

Description		
Flange		ISO-F 100
Actuator		Pneumatic, double acting with position indicator
Feedthrough		Shaft feedthrough
Technical data		
Leak rate	Valve bodyValve seat	< 1 · 10 ⁻⁹ mbar ls ⁻¹ < 1 · 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		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	Valve bodyActuatorPosition indicator	≤ 120 °C ≤ 80 °C ≤ 80 °C
Heating and cooling rate		30 °C h ⁻¹
Material	Valve bodyMechanism	EN AW-5083 (3.3547), -6061 (3.3211) AISI 304 (1.4301)
Seal	– Bonnet – Gate – Actuator	FKM (Viton [®]) FKM (Viton [®]), O-ring FKM (Viton [®]), NBR (BUNA N [®])
Mounting position		any
Volume of pneumatic actuator		0.22 I / 0.008 ft ³
Compressed air min. – max. overpressure		4–7 bar / 58–102 psi
Compressed air connection		M5 (10-32 UNF suitable)
Actuation time	closingopening	2.0 s 2.0 s
Weight		4.5 kg / 10.0 lbs

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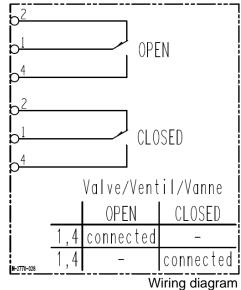


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Behavior in case of compressed air pressure drop	Valve closedValve open	 valve remains closed undefined
Behavior in case of power failure	Valve closedValve open	 depending on customer installation depending on customer installation
Position indicator		b ²

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



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