

Product data sheet Vacuum gate valve, Series 121, DN 320 (ID 12'') Ordering No. 12150-JA44

Description		
Flange		JIS 320
Actuator		Pneumatic, double acting – with solenoid valve – 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 · 10 ⁻⁷ mbar to 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		33 000 ls ⁻¹
Cycles until first service		100 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve body Actuator Solenoid valve Position indicator 	≤ 120 °C ≤ 80 °C ≤ 50 °C ≤ 80 °C
Heating and cooling rate		30 °C h ⁻¹
Material	Valve bodyMechanism	EN AC-42100 (3.2371) EN AW-6082 (3.2315)
Seal	– Bonnet – Gate – Actuator	FKM (Viton [®]) FKM (Viton [®]), O-ring FKM (Viton [®]), NBR (BUNA N [®])
Mounting position		any
Volume of pneumatic actuator		2.8 I / 0.099 ft ³
Compressed air min. – max. overpressure		4-7 bar / 58-102 psi
Compressed air connection		G ¼" (¼" NPT for USA)
Actuation time	closingopening	7.0 s 7.0 s
Weight		40 kg / 88 lbs

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Modified by:	Release date:	228944EA



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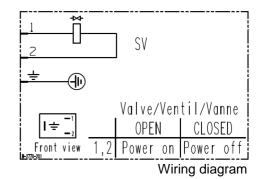
Behavior in case of compressed	-	Valve
air pressure drop	-	Valve
Behavior in case of power failure	_	Valve

- Valve closedValve open
- Valve closed
- Valve open
- valve remains closed
- undefined
- valve remains closed
- valve closes

Electrical connections

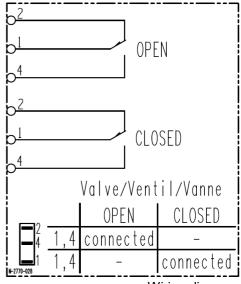
Solenoid valve

Type Voltage 5/2 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



Wiring diagram

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