



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

**PRODUCT DATA SHEET No. 233654EA**  
**Vacuum gate valve, Series 12.1, DN 320 (ID 12")**  
**Ordering No. 12150-JA14**

## Description

Flange	DN 320 JIS
Actuator	pneumatic, double acting, without solenoid, without position indicator
Feedthrough	shaft

## Technical data

Leak rate	
- To the outside	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
- Seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Molecular flow conductance	33'000 ls <sup>-1</sup>
Pressure range	$1 \cdot 10^{-7}$ mbar to 1.2 bar (abs)
Differential pressure on the gate	
- in closing and opening direction	1.2 bar
Max. differential pressure at opening	
- in closing and opening direction	30 mbar
Cycles until first service	100'000
Bake-out temperature	
- Body	120°C
- Actuator	80°C
Heating and cooling rate	50°C h <sup>-1</sup>
Material	
- Body	aluminum G-AISi7Mg
- Gate	aluminum AlMgSi1
- Small parts (in contact with media)	1.4034, AISI 420; 1.4301, AISI 304; 1.4310, AISI 301
- Shaft	1.4305, AISI 303
Seal	
- Bonnet	FPM (Viton)
- Gate	FPM (Viton)
- Shaft feedthrough	FPM (Viton)
- Actuator	NBR (Buna N)
Mounting position	any
Compressed air pressure min. - max. (overpressure)	4 - 7 bar / 55 - 100 psi

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Volume of air cylinder	2.8 l / 0.099 ft <sup>3</sup>
Compressed air connection	R 1/4" (1/4" NPT for USA)
Action at compressed air failure	
- Valve closed	no change
- Valve open	undefined
Closing time	< 7.0 s
Opening time	< 7.0 s
Weight	40kg / 88 lbs

### Attachments

Dimensional drawing No. 233651

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