



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

PRODUCT DATA SHEET No. 233656EA
Vacuum gate valve, Series 12.1, DN 320 (ID 12")
Ordering No. 12150-PA34

Description

Flange	DN 320 ISO-F
Actuator	pneumatic, double acting, with solenoid, without position indicator
Feedthrough	shaft

Technical data

Leak rate	
- To the outside	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
- Seat	$< 1 \cdot 10^{-9}$ mbar ls ⁻¹
Molecular flow conductance	33'000 ls ⁻¹
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
- Solenoid	50°C
Heating and cooling rate	50°C h ⁻¹
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

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Solenoid

- Supply voltage defined by order
- Power required 5.4 W

Compressed air pressure min. - max. (overpressure) 4 - 7 bar / 55 - 100 psi

Volume of air cylinder 2.8 l / 0.099 ft³

Compressed air connection R 1/4" (1/4" NPT for USA)

Action at power failure

- Valve closed no change
- Valve open valve closes

Action at compressed air failure

- Valve closed no change
- Valve open undefined

Closing time < 7.0 s

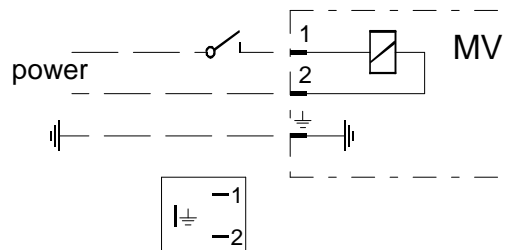
Opening time < 7.0 s

Weight 40kg / 88 lbs

Attachments

Dimensional drawing No. 233653

Wiring diagram



MV = Coil of solenoid

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