

## PRODUCT DATA SHEET No. 219986EA

## High Vacuum Gate Valve, Series 14, DN 320 Ordering No. 14050-PE24

### **Description**

Flange ISO-F flanges

Actuator pneumatic, double acting

with position indicator, without solenoid

Feedthrough Rotary feedthrough

#### **Technical data**

Leak rate

< 1 · 10<sup>-9</sup> mbar ls<sup>-1</sup> - To the outside  $< 1 \cdot 10^{-9} \text{ mbar Is}^{-1}$ - Seat

30'000 Is-1 Molecular flow conductance

1 • 10<sup>-8</sup> mbar to 1,2 bar (abs) Pressure range

Differential pressure on the gate

- in closing direction 1,2 bar - in opening direction 1,2 bar

Max. differential pressure at opening

- in closing direction 30 mbar - in opening direction 30 mbar

200'000 Cycles until first service

Bake-out temperature

- Valve < 150°C - Actuator < 50°C - Solenoid < 50°C - Position indicator < 80°C

 $< 50^{\circ}$ C h<sup>-1</sup> Heating and cooling rate

Material

1.4301, AISI 304 - Body 1.4301, AISI 304 - Gate - Mechanism (in contact with media) 1.4301, AISI 304 1.4310, AISI 301

1.4034, AISI 420

Seal

Viton - Bonnet - Gate Viton - Actuator Nitrile

Mounting position any

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Position indicator Contact rating

5 A /250 V AC

Compressed air pressure min. - max. 4 - 7 bar / 55 - 95 psig (overpressure)

Volume of air cylinder 0.75 I / 0.010ft<sup>3</sup>

Compressed air connection R 1/8" (1/8" NPT for USA)

Action at power failure

- Valve closed valve remains closed

- Valve open valve closes

Action at compressed air failure

Valve closedValve remains closedValve openvalve position is undefined

Closing time approx. 6 s

Opening time approx. 6 s

Weight 112 kg / 246 lbs

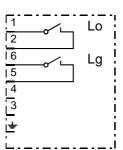
#### **Attachments**

Dimensional drawing No. 219978

Wiring diagram Position indicator

Lo = position indicator «open» Lg = position indicator «closed»





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