

PRODUCT DATA SHEET No. 223643EA

High Vacuum Gate Valve, Series 14, DN 250 Ordering No. 14048-PE44

Description

Flange ISO-F flanges

Actuator pneumatic, double acting

with position indicator, with solenoid

Feedthrough Rotary feedthrough

Technical data

Leak rate

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

22'000 Is-1 Molecular flow conductance

1 • 10⁻⁸ 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

Cycles until first service 200'000

Bake-out temperature

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

≤ 50°C h⁻¹ Heating and cooling rate

Material

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

1.4034, AISI 420

Seal

- Bonnet Viton Viton - Gate Nitrile - Actuator

Mounting position any

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Solenoid 24 V DC, 2.5 W

Position indicator

Contact rating 5 A /250 V AC, 3 A/50 V DC

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

Volume of air cylinder 0.75 I / 0.025ft³

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. 4 s

Opening time approx. 4 s

Weight 62 kg / 137 lbs

Position indicator

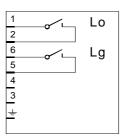
Attachments

Wiring diagram

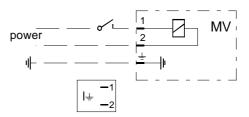
Dimensional drawing No. 85715

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





Solenoid



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