

Product data sheet

HV gate valve Series 091, DN 200 (8") Ordering No. 09146-PE24-0001

Description

Flange ISO-F 200

Actuator Pneumatic, double acting

- with position indicator

Feedthrough Bellows

Technical data

Leak rate - Valve body $< 1 \cdot 10^{-9}$ mbar Is⁻¹

– Valve seat < 1 · 10⁻⁻ mbar ls⁻¹</p>

Pressure range $1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)

Differential pressure on the plate ≤ 1.2 bar

Differential pressure at actuation In opening direction $\leq 1 \text{ bar}^1$

In closing direction \leq 30 mbar [1 bar with reduced number of cycles]²

Conductance (molecular flow) 9 500 ls⁻¹

Cycles until first service 5 000 (unheated and under clean conditions)

Temperature – Valve body ≤ 180 °C

(Maximum values: depending on operating conditions and – Position indicator ≤ 70 °C

sealing materials)

Heating and cooling rate 50 °C h⁻¹

Material – Valve body AISI 304 (1.4301),

- Gate AISI 304 (1.4301) - Bellows AISI 633 (AM350)

Small Parts
 A2 Ni-PTFE coated, PEEK

Seal – Bonnet FKM – Gate FKM

- Gate FKM - Actuator FKM, PU

Mounting position any

Volume of pneumatic actuator 1.18 I / 0.0042 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

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

Actuation time ≤ 1.1 s

² Differential pressure supports gate to stay closed. Therefore cycle life reduced due to increased wear of gate seal

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¹ Differential pressure supports gate to open



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Weight 33 kg / 72.7 lbs

Behavior in case of compressed - Valve closed valve remains closed (≥ 24h) air pressure drop

- Valve open undefined During actuation undefined

Behavior in case of power failure - Valve closed depending on customer installation

> - Valve open depending on customer installation - During actuation depending on customer installation

Related documents

Dimensional drawing No. 961280**EA**

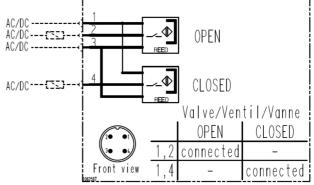
Electrical connections

Position indicator

Type REED (NO with LED)

Voltage 24 V AC/DC

Current max. ≤ 0.5 A



Wiring diagram

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[Kundenanforderungen gemäss Lenkungsmatrixen CP00 (wie beispielsweise ASML).] [Kundenanforderungen gemäss Kundenwünschen]

[Installation]

[if required]

[Special risks]

[if desired by customer]

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