

Product data sheet

HV gate valve Series 091, DN 50 (2") Ordering No. 09134-KE24-0003

Description

Flange ISO-KF 50

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 \leq 1.2 bar Differential pressure at actuation - In opening direction \leq 1 bar¹

In closing direction ≤ 30 mbar (1 bar with reduced cycle life)²

Conductance (molecular flow) 250 Is-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, 1.4308) - Bellows AISI 633 (AM350)

Small parts
 A2 Ni-PTFE coated, PEEK

Seal – Bonnet FKM – Gate FKM

- Actuator FKM, PU

Mounting position any

Volume of pneumatic actuator 0.17 I / 0.006 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection G1/8" (NPT for USA)

Actuation time ≤ 0.3 s

¹ Differential pressure supports gate to open

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

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Weight 3 kg / 6.6 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

During actuation depending on customer installation

Related documents

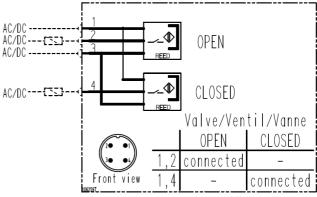
Dimensional drawing No. 1095354

Electrical connections

Position indicator

Type Reed (NO with LED)
Voltage 24 V AC/DC

Current max. $\leq 0.5 \text{ A}$



Wiring diagram

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