

Product data sheet HV gate valve, Series 091, DN 50 (ID 2") Ordering No. 09134-CE24

Description

CF-F 50 Flange

Actuator pneumatic, double acting

- with position indicator

Feedthrough Bellows feedthrough

Technical data

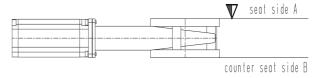
Leak rate

 $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ $< 1 \cdot 10^{-7} \text{ mbar ls}^{-1}$ Valve body - Valve seat

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

Differential pressure on the gate ≤ 1.2 bar 250 Is⁻¹ Conductance (molecular flow)

Max. differential pressure at opening in closing and opening direction with influence to the cycle life



- Higher pressure on seat side A, the differential pressure

acts in opening direction

≤ 1.0 bar with full cycle life

- Higher pressure on counter seat side B, the differential

pressure acts in closing direction

≤ 30mbar with full cycle life

- Higher pressure on counter seat side B, the differential

pressure acts in closing direction

≤ 1.0 bar with reduced cycle life

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

100 000 (unheated and under clean conditions) Bellows cycles

Bake-out temperature

 Valve body ≤ 150 °C (bake-out max. 24h)

- Actuator ≤ 100 °C

- Position indicator ≤ 60 °C

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50 °C h⁻¹ Heating and cooling rate

Material

- Valve body AISI 304 (1.4301)

- Gate AISI 304 (1.4301), (1.4308) A2 Ni-Teflon coated, PEEK - Parts (in contact with media)

- Bellows AISI 633, (AM350)

Seal

FKM (Viton®) - Bonnet FKM (Viton®) - Gate FKM (Viton®) Actuator

Mounting position any

 $0.08 \, \text{I} / 0.003 \, \text{ft}^3$ Volume of pneumatic actuator

4 - 7 bar / 58 - 102 psiCompressed air

min. - max. overpressure

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

Actuation time

closing ≤ 1.5 s - opening ≤ 1.5 s

- Valve closed Behavior in case of compressed Valve remains closed (≥ 24h)

undefined air pressure drop Valve open undefined During actuation

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

- During actuation depending on customer installation

Weight approx. 3.4 kg / 7.5 lbs

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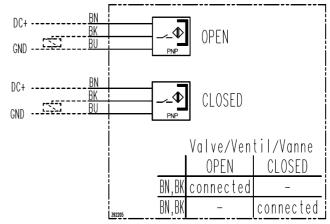
Electrical connections

Position indicator

Type PNP (NO with LED)

Voltage 10..30 V DC

Current max. $\leq 0.2 \text{ A}$



Wiring diagram

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