

Product data sheet

HV gate valve, Series 091, DN 50 (ID 2") Ordering No. 09134-KE14

Description

Flange ISO-KF 50

Actuator pneumatic, double acting

Feedthrough Bellows feedthrough

Technical data

Leak rate

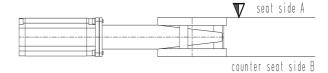
 $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ $< 1 \cdot 10^{-7} \text{ mbar ls}^{-1}$ - Valve body - Valve seat

1 · 10⁻⁸ mbar to 1.2 bar (abs) Pressure range

Differential pressure on the gate ≤ 1.2 bar

Conductance (molecular flow) 250 Is⁻¹

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

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

Bellows cycles 100 000 (unheated and under clean conditions)

Bake-out temperature

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

≤ 100 °C - Actuator

50 °C h⁻¹ Heating and cooling rate

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Material

- Valve body AISI 304 (1.4301)

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

- Bellows AISI 633, (AM350)

Seal

Bonnet
Gate
Actuator
FKM (Viton[®])
FKM (Viton[®])

Mounting position any

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Volume of pneumatic actuator 0.08 I / 0.003 ft³

Compressed air connection M5 (10–32 UNF suitable)

Actuation time

- closing \leq 1.5 s - opening \leq 1.5 s

Weight approx. 3.4 kg / 7.5 lbs

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

air pressure drop – Valve open undefined – During actuation undefined

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