

Product data sheet

HV gate valve, Series 091, DN 100 (ID 4") Ordering No. 09140-UE01

Description

Flange CF-F 100 UNF

Actuator Manual actuator with detachable handle, self locking

in any position, visual position indicator

Number of turns needed for full stroke 39 Turns

Feedthrough Bellows feedthrough

Technical data

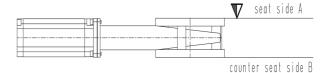
Leak rate

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

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

Differential pressure on the gate \leq 1.2 bar Conductance (molecular flow) 1 700 ls⁻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

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

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5 000 (unheated and under clean conditions)100 000 (unheated and under clean conditions)

Bake-out temperature

Bellows cycles

Cycles until first service

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

– Actuator≤ 100 °C

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Heating and cooling rate 50 °C h⁻¹

Material

- Valve body AISI 304 (1.4301)

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

- Bellows AISI 633, (AM350)

Seal

 - Bonnet
 FKM (Viton®)

 - Gate
 FKM (Viton®)

 - Actuator
 FKM (Viton®)

Mounting position any

Weight approx. 8.3 kg / 18.3 lbs

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