

Product data sheet

HV gate valve, Series 091, DN 100 (ID 4") Ordering No. 09140-UE24

Description

CF-F (UNF-threads) 100 Flange

Actuator pneumatic, double acting

- with position indicator

Feedthrough Bellows feedthrough

Technical data

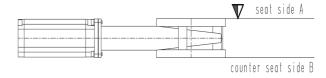
Leak rate

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

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

Differential pressure on the gate ≤ 1.2 bar 1 700 ls⁻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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Heating and cooling rate 50 °C h⁻¹

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
 FKM (Viton®)

 - Gate
 FKM (Viton®)

 - Actuator
 FKM (Viton®)

Mounting position any

Volume of pneumatic actuator 0.24 I / 0.008 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection M5 (10-32 UNF suitable)

Actuation time

- closing $\leq 2 s$ - opening $\leq 2 s$

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

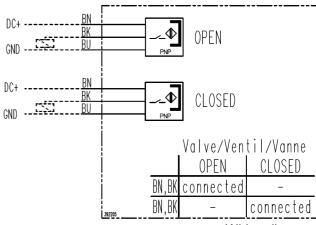
Valve openDuring actuationdepending on customer installationdepending on customer installation

Weight approx. 7.8 kg / 17.2 lbs

Position indicator

Type PNP (NO with LED)

Voltage 10-30 V DCCurrent max. $\leq 0.2 \text{ A}$



Wiring diagram

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