

Product data sheet

HV gate valve, Series 091, DN 160 (ID 6") Ordering No. 09144-JE14

Description

JIS 160 Flange

Actuator pneumatic, double acting Feedthrough Bellows feedthrough

Technical data

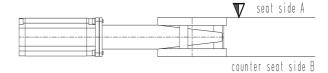
Leak rate

 $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ $< 1 \cdot 10^{-7} \text{ mbar ls}^{-1}$ - 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) 5 000 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

- Higher pressure on counter seat side B, the differential pressure acts in closing direction

- Higher pressure on counter seat side B, the differential pressure acts in closing direction

≤ 1.0 bar with full cycle life

≤ 30mbar with full cycle life

≤ 1.0 bar with reduced cycle life

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

Bellows cycles 100 000 (unheated and under clean conditions)

Bake-out temperature

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

≤ 100 °C - Actuator

Modified by:	Release date:	604082EA
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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

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Volume of pneumatic actuator 0.53 I / 0.017 ft³

Compressed air connection M5 (10–32 UNF suitable)

Actuation time

- closing $\leq 3.0 \text{ s}$ - opening $\leq 3.0 \text{ s}$

Weight approx. 15.7 kg / 34.6 lbs

Behavior in case of compressed - Valve closed valve remains closed (approx. 24h)

air pressure drop – Valve open undefined

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

Valve open depending on customer installation

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