

Product data sheetProduct data sheet HV gate valve, Series 091, DN 160 (ID 6") Ordering No. 09144-PE14

Description

ISO-F 160 Flange

Actuator pneumatic, double acting

Feedthrough Bellows

Technical data

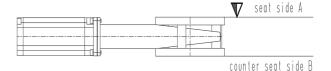
Leak rate

< 1 · 10⁻⁹ mbar ls⁻¹ Valve body < 1 · 10⁻⁷ mbar ls⁻¹ - Valve seat

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

Differential pressure on the gate ≤ 1.2 bar 5000 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)

Bellows cycles

100 000 (unheated and under clean conditions)

Bake-out temperature

- 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)
 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 0.53 I / 0.019 ft³

Compressed air

min. – max. overpressure 4-7 bar / 58-102 psi Compressed air connection M5 (10-32 UNF suitable)

Actuation time - closing < 3.0 s - opening < 3.0 s

- opening < 3.0 s

Behavior in case of compressed — Valve closed Valve remains closed (≥ 24h) air pressure drop — Valve open undefined

Valve open undefinedDuring actuation undefined

Behavior in case of power failure — Valve closed valve remains closed

Valve openDuring actuationvalve closes

Weight approx. 15.1 kg / 33.3 lbs

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