

Product data sheet HV gate valve, Series 091, DN 160 (ID 6") Ordering No. 09144-CE24

Description

Flange CF-F 160

Actuator pneumatic, double acting

- with position indicator

Feedthrough Bellow

Technical data

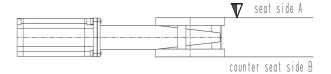
Leak rate

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

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

Differential pressure on the gate \leq 1.2 bar Conductance (molecular flow) \leq 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

≤ 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

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 0.53 I / 0.017 ft³

Compressed air

min. – max. overpressure 4-7 bar / 58 – 101 psi Compressed air connection M5 (10-32 UNF suitable)

Actuation time – closing < 3.0 s

- opening < 3.0 s

Behavior in case of compressed

Valve closed

Valve remains closed (≥ 24h)

air pressure drop – Valve open undefined – During actuation undefined

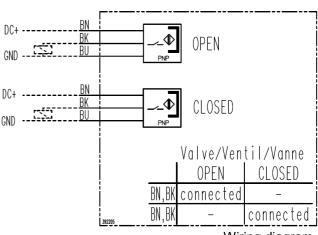
Weight approx. 16,5 kg / 36.3 lbs

Position indicator

Type PNP (NO with LED)

Voltage 10..30 V DC

Current max. $\leq 0.2 \text{ A}$



Wiring diagram

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