

# Product data sheet HV gate valve, Series 091, DN 50 (ID 2") Ordering No. 09134-CE44

### **Description**

Flange CF-F 50

Actuator pneumatic, double acting

with solenoid valvewith position indicator

Feedthrough Bellows feedthrough

#### **Technical data**

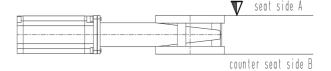
Leak rate

- Valve body  $< 1 \cdot 10^{-9}$  mbar Is<sup>-1</sup>  $< 1 \cdot 10^{-7}$  mbar Is<sup>-1</sup>

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

Differential pressure on the gate  $\leq$  1.2 bar Conductance (molecular flow)  $\leq$  250 ls<sup>-1</sup>

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

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  $\leq 100 \,^{\circ}\text{C}$  - Solenoid  $\leq 50 \,^{\circ}\text{C}$ - Position indicator  $\leq 60 \,^{\circ}\text{C}$ 

Created by: BISS	Release date: 02.05.2018	1/3
Modified by:	Release date:	783658EB



# Product data sheet HV gate valve, Series 091, DN 50 (ID 2") Ordering No. 09134-CE44

Heating and cooling rate 50 °C h<sup>-1</sup>

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 0.08 I / 0.003 ft<sup>3</sup>

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection G1/8" (NPT for USA)

Actuation time

- closing  $\leq 1.5 \text{ s}$  - opening  $\leq 1.5 \text{ s}$ 

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 valve remains closed

Valve openDuring actuationvalve closes

Weight approx. 3.4 kg / 7.5 lbs

Created by: BISS	Release date: 02.05.2018	2/3
Modified by:	Release date:	783658EB



# Product data sheet HV gate valve, Series 091, DN 50 (ID 2") Ordering No. 09134-CE44

#### **Electrical connections**

Solenoid valve

Type 4/2 way

Voltage Defined by order

SV

SV

SV

SV

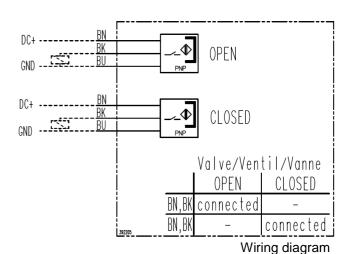
Valve/Ventil/Vanne
OPEN CLOSED
Front view 1,2 Power on Power off
Wiring diagram

Position indicator

Type PNP (NO with LED)

Voltage 10..30 V DC

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



Created by: BISS Release date: 02.05.2018 3/3 Modified by: Release date: 783658EB