

## **Product data sheet**

## Basement Gate Valve, Series 091, DN 100 (ID 4") Ordering No. 09144-CE14-

## **Description**

CF-F Flange

Actuator pneumatic, double acting [with closing spring]

Feedthrough Bellows feedthrough

**Technical data** 

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

- Valve seat

1 · 10<sup>-8</sup> mbar to 1.2 bar (abs) Pressure range

Differential pressure on the plate - in opening direction ≤ 1.2 bar - in closing direction ≤ 1.2 bar

Differential pressure at opening Higher pressure on ≤ 1.0 bar with full cycle life

seat side A, the differential pressure acts in opening direction

≤ 30mbar with full cycle life

77 seat side A

counter seat side B

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 reduced cycle life

Conductance (molecular flow)

5000 Is<sup>-1</sup>

Cycles until first service

5'000 (unheated and under clean conditions)

Temperature

(Maximum values: depending on operating conditions and

sealing materials)

 Valve Body Actuator

≤ 120 °C (bake-out max. 24h)

≤ 80 °C

Heating and cooling rate

50 °C h<sup>-1</sup>

Material - Valve Body/Bonnet

Gate

1.4301, AISI 304/ Aluminium 1.4308

- Bellows

AM350, AISI 633

Seal

- Bonnet FKM (Viton®) FKM (Viton®) Gate - Actuator FKM (Viton®)

Mounting position

any

Volume of pneumatic actuator

0.53 I / 0.017 ft<sup>3</sup>

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Compressed air 4-7 bar / 58-102 psi

min. – max. overpressure

Compressed air connection 2 x M5
Actuation time – closing 3.0 s

closingopening3.0 s3.0 s

Weight 15.1 kg / 33.3 lbs

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 closesundefined

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