

## **Product data sheet**

# HV gate valve, Series 140, DN 100 (4") Ordering No. 14040-UE28

## **Description**

Flange CF-F 100 UNF

Actuator Pneumatic, with 3-position actuator

with position indicator

Feedthrough Rotary feedthrough

**Technical data** 

Leak rate - Valve body  $< 1 \cdot 10^{-9}$  mbar ls<sup>-1</sup>

– Valve seat < 1 · 10⁻⁰ mbar ls⁻¹</p>

Pressure range  $1 \cdot 10^{-8}$  mbar to 2 bar (abs)

Differential pressure on the gate ≤ 2 bar

Differential pressure at opening  $\leq 30$  mbar

Conductance (molecular flow) – Nominal 1'740 Is<sup>-1</sup> – Min. adjustable 5 Is<sup>-1</sup>

Cycles until first service – Unheated and under 200'000

clean conditions

Temperature – Valve body ≤ 150 °C

(Maximum values: depending — Actuator ≤ 50 °C on operating conditions and — Position indicator ≤ 80 °C

sealing materials)

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

Material (main components) – Valve body AISI 304 (1.4301)

- Mechanism AISI 304 (1.4301), AISI 301 (1.4310)

Seal – Bonnet FKM (Viton®), vulcanized

- Gate
- Actuator
FKM (Viton®), O-ring
FKM (Viton®), NBR

Mounting position any

Volume of pneumatic actuator 0.53 I / 0,019 ft<sup>3</sup>

Compressed air 4-7 bar / 58-102 psi

min. – max. overpressure

Compressed air connection G1/8" (1/8" NPT for USA)

Actuation time - closing  $\leq 2.5 \text{ s}$  - opening  $\leq 2.5 \text{ s}$ 

Weight 17 kg / 37 lbs

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Behavior in case of compressed

air pressure drop

Valve closed

valve remains closed

Valve openMiddle position

undefined undefined

Behavior in case of power failure

Valve closedValve open

depending on customer installation depending on customer installation

Middle position depending on customer installation

Valve position indication

visual (mechanical)

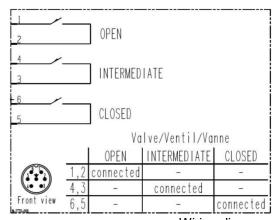
### **Electrical connections**

#### **Position indicator**

Type Micro switch

Voltage  $\leq$  250 V AC  $\leq$  50 V DC

Current max.  $\leq 5 \text{ A} \leq 3 \text{ A}$ 



Wiring diagram

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