

## **Product data sheet**

# HV gate valve, Series 140, DN 100 (ID 4") Ordering No. 14040-PE28

## **Description**

Flange ISO-F 100

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  $\leq 2 \text{ bar}$ 

Differential pressure at opening ≤ 30 mbar

Conductance (molecular flow) – Nominal 1'740 ls<sup>-1</sup>

– Min. adjustable
5 ls<sup>-1</sup>

Cycles until first service — Unheated and under

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)

200'000

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 ≤ 2.5 s

Weight 17 kg / 37 lbs

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Behavior in case of compressed

air pressure drop

- Valve closed valve remains closed

Valve open undefinedMiddle position undefined

Behavior in case of power failure - Valve closed

Valve closed depending on customer installation
 Valve open 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.  $\leq 5 \text{ A} \leq 3 \text{ A}$ 

2		OPEN			
3	3 INTERMEDIATE				
5	6 5 CLOSED				
i	Valve/Ventil/Vanne				
		OPEN	INTERMEDIATE	CLOSED	
	1,2	connected	-	-	
	4,3	ij	connected	-	
Front view	6,5	12	8	connected	

Wiring diagram

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