

## **Product data sheet**

# HV gate valve, Series 140, DN 250 (10") Ordering No. 14048-JE48

## **Description**

JIS 250 Flange

Actuator Pneumatic, with 3-position actuator

> - with solenoid valve - with position indicator

Rotary feedthrough Feedthrough

### **Technical data**

**Temperature** 

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

 $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ - Valve seat

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

Differential pressure on the gate ≤ 1.2 bar Differential pressure at opening ≤ 30 mbar

Conductance (molecular flow) - Nominal 21'690 Is-1

12.5 ls<sup>-1</sup> - Min. adjustable 200'000

Cycles until first service Unheated and under

clean conditions

 Valve body ≤ 150 °C - Actuator ≤ 50 °C

(Maximum values: depending on operating conditions and Solenoid valve ≤ 50 °C sealing materials) Position indicator ≤ 80 °C Heating and cooling rate 50 °C h-1

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

- Mechanism AISI 304 (1.4301), AISI 310 (1.4310),

AISI 316 L (1.4404)

FKM (Viton®), O-ring Seal - Bonnet FKM (Viton®), O-ring Gate

- Actuator FKM (Viton®), NBR

Mounting position any

Volume of pneumatic actuator 2.6 I / 0.093 ft3

Compressed air 4 – 7 bar / 58 – 102 psi

min. - max. overpressure

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

Actuation time - closing ≤6s

- opening ≤6s

Weight 69 kg / 151 lbs

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Behavior in case of compressed

air pressure drop

Valve closed

valve remains closed

Valve open underMiddle position under

undefined undefined

Behavior in case of power failure

- Valve closed

valve remains closed

Valve openMiddle position

valve closes valve closes

Valve position indication

visual (mechanical)

### **Electrical connections**

## Solenoid valve (2x)

Type 5/2 way

Voltage Defined by order Power consumption 2.5 W

SV1 OPEN/CLOSED

SV2 INTERMEDIATE

SV2 Valve/Ventil/Vanne

Valve/Ventil/Vanne

Valve/Ventil/Vanne

SV1 1,2 Power on Power off Power off
SV2 1,2 Power on Power off Power off

Wiring diagram

#### Position indicator

Type Micro switch

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

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

Γ					
2		OPEN			
1 INTERMEDIATE					
6 5 CLOSED					
Valve/Ventil/Vanne					
		OPEN	INTERMEDIATE	CLOSED	
( 1 to 1	1,2	connected		Ξ.	
	4,3		connected	-	
Front view	6,5	-	æ	connected	

Wiring diagram

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