

# **Product data sheet**

# HV gate valve, Series 140, DN 400 (16") Ordering No. 14052-PE48

## **Description**

Flange ISO-F 400

Actuator Pneumatic, double acting, with 3-position actuator

with solenoid valvewith position indicator

Feedthrough Rotary feedthrough

#### **Technical data**

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

– Valve seat < 1 · 10⁻⁰ mbar Is⁻¹</p>

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

Differential pressure on the gate  $\leq$  1.2 bar

Differential pressure at opening  $\leq$  30 mbar

Conductance (molecular flow) – Nominal 52'050 Is-1

– Min. adjustable
20 ls<sup>-1</sup>

Cycles until first service – Unheated and under 200'000 (valve in horizontal position)

clean conditions 50'000 (valve in vertical position)

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®), O-ring – Gate FKM (Viton®), O-ring

- Actuator FKM (Viton®), NBR

Mounting position any

Volume of pneumatic actuator 2.6 I / 0.093 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  $\leq 10 \text{ s}$ - opening  $\leq 10 \text{ s}$ 

Weight 164 kg / 360 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 closed

valve remains closed

Valve openMiddle position

valve closes valve closes

Valve position indication

visual (mechanical)

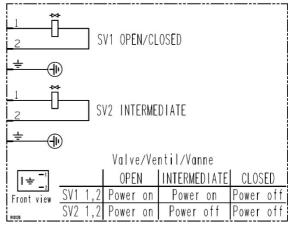
### **Electrical connections**

### Solenoid valve (2x)

Type 5/2 way

Voltage Defined by order

Power consumption 2.5 W



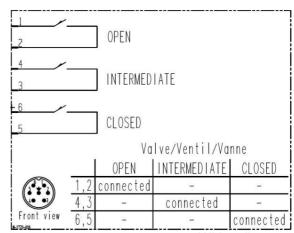
Wiring diagram

#### **Position indicator**

Type Micro switch

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

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



Wiring diagram

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