

# Product data sheet HV gate valve, Series 140, DN 400 (ID 16'') Ordering No. 14052-PE44

## Description

Flange		ISO-F 400
Actuator		Pneumatic, double acting – with solenoid valve – with position indicator
Feedthrough		Rotary feedthrough
Technical data		
Leak rate	– Valve body – Valve seat	< 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup> < 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		52 000 ls <sup>-1</sup>
Cycles until first service	<ul> <li>Unheated and under clean conditions</li> </ul>	200 000 (valve in horizontal position) 50 000 (valve in vertical position)
Temperature (Maximum values: depending on operating conditions and sealing materials)	<ul> <li>Valve body</li> <li>Pneumatic actuator</li> <li>Solenoid valve</li> <li>Position indicator</li> </ul>	≤ 150 °C ≤ 50 °C ≤ 50 °C ≤ 80 °C
Heating and cooling rate		50 °C h <sup>-1</sup>
Material (main components)	– Valve body – Mechanism	AISI 304 (1.4301) AISI 304 (1.4301)
Seal	– Bonnet – Gate – Actuator	FKM (Viton <sup>®</sup> ), O-ring FKM (Viton <sup>®</sup> ), O-ring FKM (Viton <sup>®</sup> ), NBR
Mounting position		horizontal (vertical with restriction)
Volume of pneumatic actuator		0.75 I / 0.025 ft <sup>3</sup>
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G1/8" (1/8" NPT for USA)
Actuation time	– closing – opening	5.5 s 5.5 s
Weight		140 kg / 309 lbs

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Behavior in case of compressed	-
air pressure drop	-
Behavior in case of power failure	-

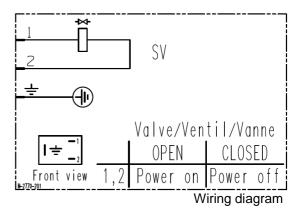
- Valve closed
- Valve open
- Valve closed
  - Valve open

valve remains closed undefined valve remains closed valve closes

### **Electrical connections**

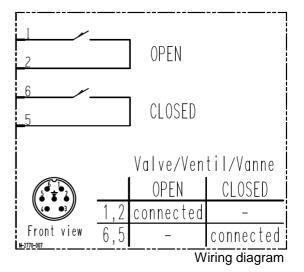
#### Solenoid valve

Type Voltage 5/2 way Defined by order



### **Position indicator**

Туре	Micro switch	
Voltage	$\leq$ 250 V AC	$\leq$ 50 V DC
Current max.	≤ 5 A	$\leq$ 3 A



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