

# Product data sheet HV gate valve, Series 111, DN 250 (10") Ordering No. 11148-PE44

## Description

Flange		ISO-F 250
Actuator		pneumatic, double acting – with solenoid valve – with position indicator
Feedthrough		Bellows
Technical data		
Leak rate	<ul><li>Valve body</li><li>Valve seat</li></ul>	< 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup> < 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup>
Pressure range		1 · 10 <sup>-8</sup> mbar to 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		21 690 ls <sup>-1</sup>
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	<ul> <li>Valve Body</li> <li>Actuator</li> <li>Solenoid valve</li> <li>Position indicator</li> </ul>	≤ 150 °C (bake-out max. 24h) ≤ 120 °C ≤ 50 °C ≤ 80 °C
Heating and cooling rate		50 °C h <sup>-1</sup>
Material (main components)	– Valve Body – Mechanism – Bellows – Bushing	AISI 304 (1.4301) AISI 316L (1.4404), AISI 304 (1.4301) AISI 316L (1.4404, 1.4435) Hydrocarbonate
Seal	– Bonnet – Gate – Actuator	FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> ), O-ring FKM (Viton <sup>®</sup> ), NBR
Mounting position		any
Volume of pneumatic actuator		0.35 I / 0.0122 ft <sup>3</sup>
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		G¼" (½" NPT for USA)
Actuation time	– closing – opening	4 s 4 s
Weight		51 kg / 112 lbs
Behavior in case of compressed air pressure drop	<ul> <li>Valve closed</li> <li>Valve open</li> </ul>	valve remains closed undefined
Behavior in case of power failure	<ul> <li>Valve closed</li> <li>Valve open</li> </ul>	valve remains closed valve closes

Created by: SCHMC	Release date: 09.07.2019	1/2
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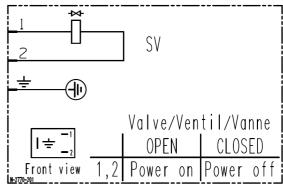


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### **Electrical connections**

#### Solenoid valve

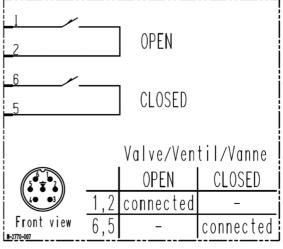
Type Voltage 4/2 way Defined by order



Wiring diagram

### **Position indicator**

Туре	Micro switch
Voltage	≤ 50 V AC / DC
Current max.	≤ 1.2 A



Wiring diagram

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