

# Product data sheet UHV gate valve, Series 108, DN 200 (ID 8'') Ordering No. 10846-TE48-0007

## Description

2000.10.000		
Flange		ASA-LP 200
Actuator		pneumatic, double acting, with 3-position actuator – with solenoid valve – with position indicator
Feedthrough		Bellows
Technical data		
Leak rate	– Valve body – Valve seat	< 5 · 10 <sup>-10</sup> mbar ls <sup>-1</sup> < 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup>
Pressure range		1 · 10 <sup>-10</sup> mbar to 1.6 bar (abs)
Differential pressure on the gate		≤ 1.6 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		12 200 ls <sup>-1</sup>
Cycles until first service		50 000 (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>	<ul> <li>≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h)</li> <li>≤ 200 °C</li> <li>≤ 50 °C</li> <li>≤ 80 °C</li> </ul>
Heating and cooling rate		50 °C h <sup>-1</sup>
Material (main components)	– Valve Body – Mechanism – Bellows	AISI 304 (1.4301) AISI 316L (1.4404), AISI 304 (1.4301) AISI 316L (1.4404, 1.4435)
Seal	– Bonnet – Gate – Actuator	metal FKM (Viton®), vulcanized FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.25 I / 0.0087 ft <sup>3</sup>
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G¼" (¼" NPT for USA)
Actuation time	– closing – opening	2 s 2 s
Weight		36 kg / 79.5 lbs
Behavior in case of compressed air pressure drop	– Valve closed – Valve open – Middle position	valve remains closed undefined undefined
Behavior in case of power failure	<ul> <li>Valve closed</li> <li>Valve open</li> <li>Middle position</li> </ul>	valve remains closed valve closes valve closes

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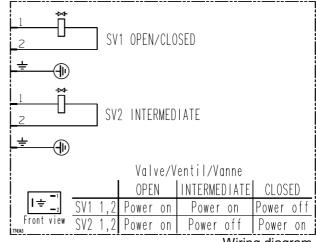


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### **Electrical connections**

#### Solenoid valve

Type Voltage 4/2 way Defined by order



Wiring diagram

### **Position indicator**

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

2		OPEN			
INTERMEDIATE					
<u> </u>					
Valve/Ventil/Vanne					
		OPEN	INTERMEDIATE	CLOSED	
	1,2	connected	-	-	
	4,3	_	connected	_	
Front view	6,5	_		connected	
Wiring diagram					

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