

## Product data sheet UHV gate valve, Series 108, DN 250 (ID 10'') Ordering No. 10848-UE14

## Description

Flange		CF-F 250 UNF
Actuator		pneumatic, double acting
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 1.2 bar (abs)
Differential pressure on the gate		≤ 1.2 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		19 990 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></ul>	≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h) ≤ 200 °C
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 <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		1/8" ISO / NPT
Actuation time	– closing – opening	4 s 4 s
Weight		50 kg / 110 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>	depending on customer installation depending on customer installation

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