

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 ⁻¹⁰ mbar ls ⁻¹ < 1 · 10 ⁻⁹ mbar ls ⁻¹
Pressure range		1 · 10 ⁻¹⁰ 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 ⁻¹
Cycles until first service		50 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	Valve BodyActuator	≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h) ≤ 200 °C
Heating and cooling rate		50 °C h ⁻¹
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 [®]), O-ring FKM (Viton [®]), NBR
Mounting position		any
Volume of pneumatic actuator		0.35 I / 0.0122 ft ³
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	 Valve closed Valve open 	valve remains closed undefined
Behavior in case of power failure	 Valve closed Valve open 	depending on customer installation depending on customer installation

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