

Product data sheet UHV gate valve, Series 108, DN 250 (ID 10'') Ordering No. 10848-PE44

Description

Flange		ISO-F 250
Actuator		pneumatic, double acting – with solenoid valve – with position indicator
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)		21 690 ls ⁻¹
Cycles until first service		50 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve Body Actuator Solenoid valve Position indicator 	≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h) ≤ 200 °C ≤ 50 °C ≤ 80 °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		G¼" (½" NPT for USA)

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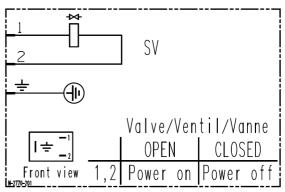
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Actuation time	– closing – opening	4 s 4 s
Weight		50 kg / 110 lbs
Behavior in case of compressed air pressure drop	– Valve closed – Valve open	valve remains closed undefined
Behavior in case of power failure	Valve closedValve open	valve remains closed valve closes

Electrical connections

Solenoid valve

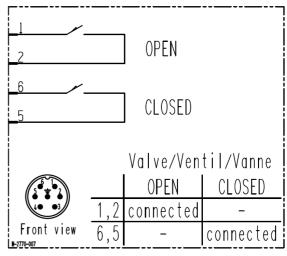
Туре	4/2 way
Voltage	Defined by order



Wiring diagram

Position indicator

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



Wiring diagram

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