

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	Valve bodyValve seat	< 1 · 10 ⁻⁹ mbar ls ⁻¹ < 1 · 10 ⁻⁹ mbar ls ⁻¹
Pressure range		1 · 10 ⁻⁸ 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		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve Body Actuator Solenoid valve Position indicator 	≤ 150 °C (bake-out max. 24h) ≤ 120 °C ≤ 50 °C ≤ 80 °C
Heating and cooling rate		50 °C h ⁻¹
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 [®]) 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)
Actuation time	– closing – opening	4 s 4 s
Weight		51 kg / 112 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 	valve remains closed valve closes

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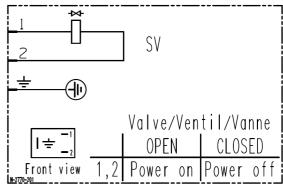


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Electrical connections

Solenoid valve

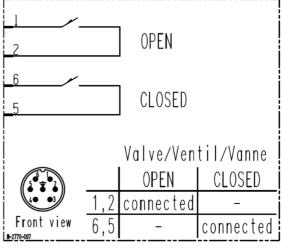
Type Voltage 4/2 way Defined by order



Wiring diagram

Position indicator

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



Wiring diagram

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