

Product data sheet HV gate valve, Series 140, DN 250 (10") Ordering No. 14048-PE48

Description

Flange		ISO-F 250
Actuator		Pneumatic, with 3-position actuator – with solenoid valve – with position indicator
Feedthrough		Rotary feedthrough
Technical data		
Leak rate	– Valve body – Valve seat	< 1 · 10 ⁻⁹ mbar Is ⁻¹ < 1 · 10 ⁻⁹ mbar Is ⁻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)	– Nominal – Min. adjustable	21'690 ls ⁻¹ 12.5 ls ⁻¹
Cycles until first service	 Unheated and under clean conditions 	200'000
Temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve body Actuator Solenoid valve Position indicator 	 ≤ 150 °C ≤ 50 °C ≤ 50 °C ≤ 80 °C
Heating and cooling rate		50 °C h ⁻¹
Material (main components)	Valve bodyMechanism	AISI 304 (1.4301) AISI 304 (1.4301), AISI 310 (1.4310), AISI 316 L (1.4404)
Seal	– Bonnet – Gate – Actuator	FKM (Viton [®]), O-ring FKM (Viton [®]), O-ring FKM (Viton [®]), NBR
Mounting position		any
Volume of pneumatic actuator		2.6 I / 0.093 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G ¹ /8" (¹ /8" NPT for USA)
Actuation time	– closing – opening	≤6s ≤6s
Weight		69 kg / 151 lbs

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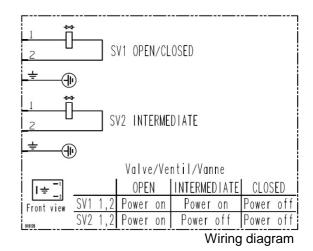
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Behavior in case of compressed air pressure drop	Valve closedValve openMiddle position	valve remains closed undefined undefined
Behavior in case of power failure	Valve closedValve openMiddle position	valve remains closed valve closes valve closes
Valve position indication		visual (mechanical)

Electrical connections

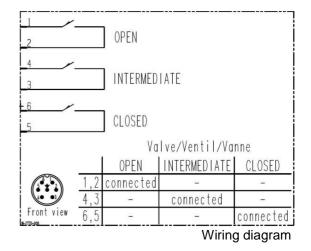
Solenoid valve (2x)

Туре	5/2 way
Voltage	Defined by order
Power consumption	2.5 W
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Position indicator

Туре	Micro switch	
Voltage	\leq 250 V AC	\leq 50 V DC
Current max.	\leq 5 A	\leq 3 A



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