

Product data sheet

HV gate valve Series 091, DN 100 (4") Ordering No. 09140-PE34-0003

Description

Flange		ISO-F 100
Actuator		Pneumatic, double acting – with solenoid valve
Feedthrough		Bellows
Technical data		
Leak rate	– Valve body – Valve seat	< 1 · 10 ⁻⁹ mbar ls ⁻¹ < 1 · 10 ⁻⁷ mbar ls ⁻¹
Pressure range		1 · 10 ⁻⁸ mbar to 1.2 bar (abs)
Differential pressure on the plate		≤ 1.2 bar
Differential pressure at actuation	 In opening direction In closing direction 	\leq 1 bar ¹ \leq 30 mbar (1 bar with reduced cycle life) ²
Conductance (molecular flow)		1 700 ls ⁻¹
Cycles until first service		5 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	Valve bodyActuatorSolenoid valve	≤ 180 °C ≤ 100 °C ≤ 50 °C
Heating and cooling rate		50 °C h ⁻¹
Material	– Valve body – Gate – Bellows – Small parts	AISI 304 (1.4301) AISI 304 (1.4301, 1.4308) AISI 633 (AM350) A2 Ni-PTFE coated, PEEK
Seal	– Bonnet – Gate – Actuator	FKM FKM FKM, PU
Mounting position		any
Volume of pneumatic actuator		0.25 I / 0.009 ft ³
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G1/8" (NPT for USA)
Actuation time		≤ 0.5 s

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 ¹ Differential pressure supports gate to open
 ² Differential pressure supports gate to stay closed. Therefore cycle life reduced due to increased wear of gate seal



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7.3 kg / 16.1 lbs

Weight

Behavior in case of compressed air pressure drop	– Valve closed – Valve open – During actuation	valve remains closed (≥ 24h) undefined undefined
Behavior in case of power failure	Valve closedValve openDuring actuation	valve remains closed (≥ 24h) valve closes valve closes

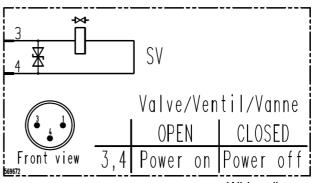
Related documents

Dimensional drawing No.	1096126
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Electrical connections

Solenoid valve

Туре	5/2 way
Voltage	24 V DC



Wiring diagram

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