

Product data sheet

HV gate valve Series 091, DN 100 (4") Ordering No. 09140-PE24-0004

Description

Flange		ISO-F 100
Actuator		Pneumatic, double acting with position indicator
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 bodyActuatorPosition indicator	≤ 180 °C ≤ 100 °C ≤ 70 °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

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 closed Valve open During actuation 	depending on customer installation depending on customer installation depending on customer installation

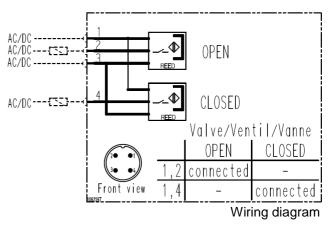
Related documents

Dimensional drawing No. 1095395

Electrical connections

Position indicator

Туре	Reed (NO with LED)	
Voltage	24 V AC/DC	
Current max.	≤ 0.5 A	



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