

# **Product data sheet** HV gate valve

## Series 091, DN 80 (3") Ordering No. 09138-PE24-0003

### Description

Flange		ISO-F 80
Actuator		Pneumatic, double acting <ul> <li>with position indicator</li> </ul>
Feedthrough		Bellows
Technical data		
Leak rate	– Valve body – Valve seat	< 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup> < 1 · 10 <sup>-7</sup> mbar ls <sup>-1</sup>
Pressure range		1 · 10 <sup>-8</sup> mbar to 1.2 bar (abs)
Differential pressure on the plate		≤ 1.2 bar
Differential pressure at actuation	<ul> <li>In opening direction</li> <li>In closing direction</li> </ul>	$\leq$ 1 bar <sup>1</sup> $\leq$ 30 mbar (1 bar with reduced cycle life) <sup>2</sup>
Conductance (molecular flow)		890 ls <sup>-1</sup>
Cycles until first service		5 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	<ul> <li>Valve body</li> <li>Actuator</li> <li>Position indicator</li> </ul>	≤ 180 °C ≤ 100 °C ≤ 70 °C
Heating and cooling rate		50 °C h <sup>-1</sup>
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		0.21 I / 0.007 ft <sup>3</sup>
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G1/8" (NPT for USA)
Actuation time		≤ 0.4 s

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 <sup>&</sup>lt;sup>1</sup> Differential pressure supports gate to open
 <sup>2</sup> Differential pressure supports gate to stay closed. Therefore cycle life reduced due to increased wear of gate seal



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#### Weight

Behavior in case of compressed air pressure drop	<ul> <li>Valve closed</li> <li>Valve open</li> <li>During actuation</li> </ul>	valve rema undefined undefined
Behavior in case of power failure	<ul> <li>Valve closed</li> <li>Valve open</li> <li>During actuation</li> </ul>	depending depending depending

#### 6.3 kg / 12.6 lbs

valve remains closed (≥ 24h) undefined undefined

depending on customer installation depending on customer installation depending on customer installation

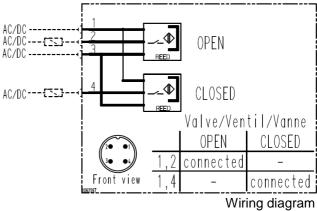
#### **Related documents**

Dimensional drawing No. 1095391

#### **Electrical connections**

#### **Position indicator**

Туре	Reed (NO with LED)	ļ
Voltage	24 V AC/DC	ł
Current max.	$\leq 0.5 \text{ A}$	



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