

# **Product data sheet** HV gate valve

Series 091, DN 63 (2 1/2") Ordering No. 09136-PE44-0005

### Description

Flange		ISO-F 63
Actuator		Pneumatic, double acting – with solenoid valve – with position indicator
Feedthrough		Bellows
Technical data		
Leak rate	– Valve body – Valve seat	< 1 · 10 <sup>-9</sup> mbar Is <sup>-1</sup> < 1 · 10 <sup>-7</sup> mbar Is <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)		430 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>Solenoid valve</li> <li>Position indicator</li> </ul>	≤ 180 °C ≤ 100 °C ≤ 50 °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		0.17 I / 0.006 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		≤ 0.35 s

<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

Created by: BRR	Release date: 16.04.2021	1/2
Modified by:	Release date:	1085740EA



# Product data sheet

## HV gate valve Series 091, DN 63 (2 1/2") Ordering No. 09136-PE44-0005

5.7 kg / 12.6 lbs

#### Weight

Behavior in case of compressed air pressure drop	<ul> <li>Valve closed</li> <li>Valve open</li> <li>During actuation</li> </ul>	valve remains closed (≥ 24h) undefined undefined
Behavior in case of power failure	<ul> <li>Valve closed</li> <li>Valve open</li> <li>During actuation</li> </ul>	valve remains closed (≥ 24h) valve closes valve closes

Reed (NO with LED)

24 V AC/DC

 $\leq 0.5 \text{ A}$ 

#### **Related documents**

Dimensional drawing No.	1033274
5	

#### **Electrical connections**

Solenoid valve	
Turn a	

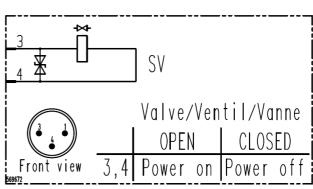
**Position indicator** 

Туре

Voltage

Current max.

Туре	5/2 way
Voltage	24 V DC



#### Wiring diagram

AC/DC	REED	OPEN	
AC/DC[3]	<b>↓</b> REED	CLOSED	1:1.0/
		Valve/Ven	tii/vanne
		OPEN	CLOSED
3.	1,2	connected	-
Front view	1,4	_	connected
		14/1	

#### Wiring diagram

Created by: BRR	Release date: 16.04.2021	2/2
Modified by:	Release date:	1085740EA