

Product data sheet

HV gate valve Series 091, DN 50 (2") Ordering No. 09134-KE44-0004

Description

Flange ISO-KF 50

Actuator Pneumatic, double acting

with solenoid valvewith position indicator

Feedthrough Bellows

Technical data

Leak rate - Valve body $< 1 \cdot 10^{-9}$ mbar Is⁻¹ - Valve seat $< 1 \cdot 10^{-7}$ mbar Is⁻¹

– Valve seat <1 ⋅ 10⁻⁷ mbar ls⁻¹

Pressure range $1 \cdot 10^{-8}$ mbar to 1.2 bar (abs)

Differential pressure on the plate \leq 1.2 bar

Differential pressure at actuation — In opening direction $\leq 1 \text{ bar}^1$

- In closing direction \leq 30 mbar (1 bar with reduced cycle life)²

Conductance (molecular flow) 250 Is-1

Cycles until first service 5 000 (unheated and under clean conditions)

Temperature- Valve body≤ 180 °C(Maximum values: depending
on operating conditions and
sealing materials)- Actuator
- Solenoid valve
- Position indicator≤ 50 °C

Heating and cooling rate 50 °C h⁻¹

Material – Valve body AISI 304 (1.4301)

- Gate AISI 304 (1.4301, 1.4308) - Bellows AISI 633 (AM350)

Small parts
 A2 Ni-PTFE coated, PEEK

Seal – Bonnet FKM – Gate FKM

– Gate FKM– Actuator FKM, PU

Mounting position any

Volume of pneumatic actuator 0.17 I / 0.006 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection G1/8" (NPT for USA)

Actuation time $\leq 0.3 \text{ s}$

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

Created by: BRR	Release date: 20.04.2021	1/2
Modified by:	Release date:	1085742EA

¹ Differential pressure supports gate to open



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Weight 3 kg / 6.6 lbs

Behavior in case of compressed

Valve closed

valve remains closed (≥ 24h)

air pressure drop – Valve open undefined – During actuation undefined

Behavior in case of power failure - Valve closed valve remains closed (≥ 24h)

Valve openDuring actuationvalve closes

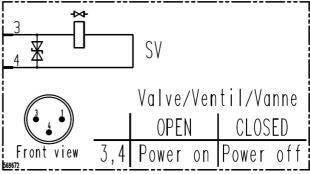
Related documents

Dimensional drawing No. 1034053

Electrical connections

Solenoid valve

Type 5/2 way Voltage 24 V DC



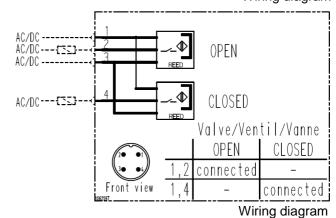
Wiring diagram

Position indicator

Type Reed (NO with LED)

Voltage 24 V AC/DC

Current max. $\leq 0.5 \text{ A}$



 Created by: BRR
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