

Product data sheet

HV gate valve, Series 091, DN 160 (6") Ordering No. 09144-JE44-0003

Description

Flange JIS 160

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 · 10⁻⁻ mbar Is⁻¹</p>

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) 4'500 Is-1

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

Heating and cooling rate 50 °C h⁻¹

Material – Valve body AISI 304 (1.4301)

GateAISI 304 (1.4301, 1.4308)BellowsAISI 633 (AM350)

BellowsSmall partsAISI 633 (AM350)A2 Ni-PTFE coated, PEEK

Seal – Bonnet FKM

– Gate– ActuatorFKMFKMPU

Mounting position any

Volume of pneumatic actuator 0.55 I / 0.019 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

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

Actuation time $\leq 0.6 \text{ s}$

Weight 14.5 kg / 36.3 lbs

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

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¹ Differential pressure supports gate to open



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Behavior in case of compressed

air pressure drop

Valve closed

valve remains closed (≥ 24h)

Valve openDuring actuation

undefined undefined

Behavior in case of power failure

Valve closedValve open

valve remains closed (≥ 24h)

valve closes

During actuation valve closes

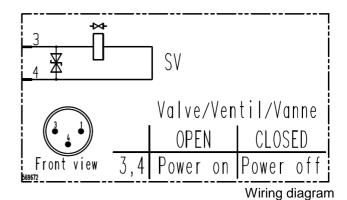
Related documents

Dimensional drawing No. 1190199

Electrical connections

Solenoid valve

Type 5/2 way Voltage 24 V DC

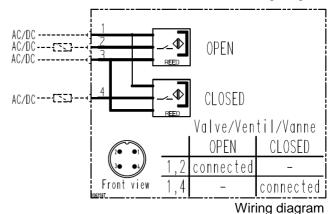


Position indicator

Type Reed (NO with LED)

Voltage 24 V AC/DC

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



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