

Product data sheet

HV gate valve, Series 140, DN 320 (12") Ordering No. 14050-JE48

Description

Flange JIS 320

Actuator Pneumatic, double acting, with 3-position actuator

with solenoid valvewith position indicator

Feedthrough Rotary feedthrough

Technical data

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

– Valve seat < 1 · 10⁻⁰ mbar Is⁻¹</p>

Pressure range 1 · 10⁻⁸ mbar to 1.2 bar (abs)

Differential pressure on the gate \leq 1.2 bar Differential pressure at opening \leq 30 mba

Differential pressure at opening ≤ 30 mbar

Conductance (molecular flow) – Nominal 32'690 Is-1

Conductance (molecular flow) – Nominal 32'690 Is⁻¹ – Min. adjustable 16 Is⁻¹

Cycles until first service – Unheated and under clean conditions 200'000 (valve in horizontal position) 50'000 (valve in vertical position)

Temperature – Valve body ≤ 150 °C (Maximum values: depending – Pneumatic actuator ≤ 50 °C

on operating conditions and - Solenoid valve ≤ 50 °C sealing materials) - Position indicator ≤ 80 °C

Heating and cooling rate 50 °C h⁻¹

Material (main components) – Valve body AISI 304 (1.4301)

- Mechanism AISI 304 (1.4301), AISI 301 (1.4310)

Seal – Bonnet FKM (Viton®), O-ring – Gate FKM (Viton®), O-ring

- Actuator FKM (Viton®), NBR

Mounting position any

Volume of pneumatic actuator 2.6 I / 0.093 ft³

Compressed air 4-7 bar / 58-102 psi

min. – max. overpressure

Compressed air connection G1/8" (1/8" NPT for USA)

Actuation time - closing $\leq 6 \text{ s}$ - opening $\leq 6 \text{ s}$

Weight 119 kg / 261 lbs

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Behavior in case of compressed

air pressure drop

Valve closed

valve remains closed

Valve openMiddle position

undefined undefined

Behavior in case of power failure

Valve closed

valve remains closed

Valve openMiddle position

valve closes valve closes

Valve position indication

visual (mechanical)

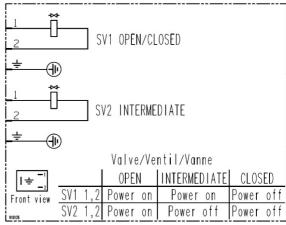
Electrical connections

Solenoid valve (2x)

Type 5/2 way

Voltage Defined by order

Power consumption 2.5 W



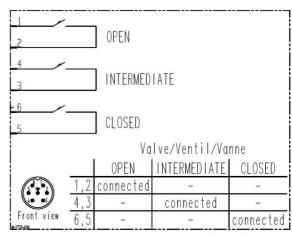
Wiring diagram

Position indicator

Type Micro switch

Voltage \leq 250 V AC \leq 50 V DC

Current max. $\leq 5 \text{ A}$ $\leq 3 \text{ A}$



Wiring diagram

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