

Product data sheet

HV gate valve, Series 140, DN 100 (4") Ordering No. 14040-JE48

Description

Flange JIS 100

Actuator Pneumatic, with 3-position actuator

with solenoid valvewith position indicator

Feedthrough Rotary feedthrough

Technical data

Leak rate – Valve body < 1 · 10⁻⁹ mbar ls⁻¹

– Valve seat < 1 · 10⁻⁰ mbar ls⁻¹</p>

Pressure range $1 \cdot 10^{-8}$ mbar to 2 bar (abs)

Differential pressure on the gate $\leq 2 \text{ bar}$

Differential pressure at opening \leq 30 mbar

Conductance (molecular flow) – Nominal 1'740 Is-1

– Min. adjustable
5 ls⁻¹

Cycles until first service – Unheated and under 200'000

clean conditions

Temperature - Valve body ≤ 150 °C (Maximum values: depending on operating conditions and sealing materials) - Valve body ≤ 150 °C - Solenoid ≤ 50 °C - 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®), vulcanized

– Gate
 – Actuator
 FKM (Viton®), O-ring
 FKM (Viton®), NBR

Mounting position any

Volume of pneumatic actuator 0.53 I / 0,019 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection G\(^1\)8" (\(^1\)8" NPT for USA)

Actuation time - closing $\leq 2.5 \text{ s}$

- opening ≤ 2.5 s

Weight 17 kg / 37 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)

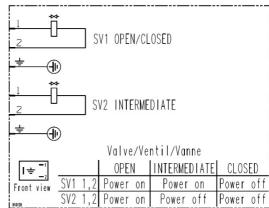
Electrical connections

Solenoid valve (2x)

Type 5/2 way

Voltage Defined by order

Power consumption 2.5 W



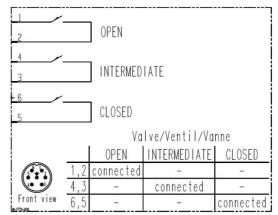
Wiring diagram

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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